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Laboratory Code: 11148

SDG Number: L2432633

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Table of Contents

New York ASP Category B Data Deliverable Package 1
- Table of Contents 2
- Sample ID Cross Reference 14
- SDG Narrative 15
- Data Qualifier Definitions 17
- Instrument Information 20
- Sample Log-in Sheet 23
- Lims COC (LN01) 25
- External Chain of Custody 28
- Organics Analysis 30
  - GCMS 8260 Analysis 31
    - Volatiles QC Summary 32
      - Form 2 - Organics 33
      - Form 3 - Organics 34
      - Form 4 - Organics 36
      - Form 5 - Organics 37
      - Form 8 - Organics 39
      - MDL Study - Volatile Organics 8260 40
      - 8260 40
      - 8260HLW 42
    - Volatiles Sample Data 44
      - Form 1 - Organics 45
      - TRIP BLANK (L2432633-05) Analyzed: 06/14/24 21:04 63
      - MW-13D (L2432633-04) Analyzed: 06/14/24 21:28 68
      - MW-13S (L2432633-03) Analyzed: 06/14/24 21:52 73
      - MW-11D (L2432633-02) Analyzed: 06/14/24 22:16 77
      - MW-11S (L2432633-01) Analyzed: 06/14/24 22:40 81
    - Volatile Standards Data 85
      - Initial Calibration 86
        - Form 6 - Organics 87
        - ICAL for GONZO on 05/10/24 ICAL21111 90
        - Initial Calibration Summary - Cal Date: 05/10/24 00:00 90
        - BFB TUNE Injected on: 05/09/24 16:44 94
        - STD0.19PPB Injected on: 05/09/24 17:50 95
        - STD0.5PPB Injected on: 05/09/24 18:37 98
        - STD2PPB Injected on: 05/09/24 19:25 104
        - STD10PPB Injected on: 05/09/24 19:49 112
        - STD30PPB Injected on: 05/09/24 20:13 118
        - STD80PPB Injected on: 05/09/24 20:37 125
        - STD120PPB Injected on: 05/09/24 21:01 131
        - STD200PPB Injected on: 05/09/24 21:24 138
        - ICV Summary Form Injected on: 05/09/24 23:24 144
        - ICV Quant Report Injected on: 05/09/24 23:24 147
        - Correlation Data Summary 154
      - Continuing Calibration 155
        - Form 7 - Organics 156
        - CC Summary - GONZO Run: 06/14/24 18:16 159
        - CC Quant - WG1935361-2 GONZO Run: 06/14/24 18:16 162
        - bfb tune - Inst. GONZO 06/14/24 17:58 168
    - Volatiles Raw QC Data 169

Table of Contents

Laboratory Method Bl (WG1935361-5) Analyzed: 06/14/24 19:52 170
Laboratory Control S (WG1935361-3) Analyzed: 06/14/24 18:16 177
LCS Duplicate (WG1935361-4) Analyzed: 06/14/24 18:40 231
Volatiles Calculations 285
QC Batch WG1935361 286
ICAL Sequence for GONZO on 10-MAY-2024 00:00 ICAL21111 287
Instrument GONZO Run Date 06/14/24 Run ID R1841939 288
Semivolatiles Data - Method 8270 289
Semivolatiles QC Summary 290
Form 2 - Organics 291
Form 3 - Organics 292
Form 4 - Organics 294
Form 5 - Organics 295
Form 8 - Organics 298
MDL Study - ABN Extractables 300
Semivolatiles Sample Data 304
Form 1 - Organics 305
MW-13D (L2432633-04) Analyzed: 06/17/24 16:38 315
MW-13S (L2432633-03) Analyzed: 06/17/24 17:02 320
MW-11D (L2432633-02) Analyzed: 06/17/24 17:26 326
MW-11S (L2432633-01) Analyzed: 06/17/24 17:49 331
Semivolatiles Standards Data 336
Initial Calibration 337
Form 6 - Organics 338
ICAL for SV106 on 04/19/24 ICAL21056 342
Initial Calibration Summary - Cal Date: 04/19/24 00:00 342
Tune Injected on: 04/18/24 20:26 345
Deg Injected on: 04/18/24 20:26 346
Tailing Factor Injected on: 04/18/24 20:26 347
ABNL9 Injected on: 04/18/24 20:50 349
ABNL8 Injected on: 04/18/24 21:14 356
ABNL7 Injected on: 04/18/24 21:39 361
ABNL6 Injected on: 04/18/24 22:03 367
ABNL5 Injected on: 04/18/24 22:27 372
ABNL4 Injected on: 04/18/24 22:51 377
ABNL3 Injected on: 04/18/24 23:15 382
ABNL2 Injected on: 04/18/24 23:39 387
ABNL1 Injected on: 04/19/24 00:04 397
AP9L9 Injected on: 04/19/24 00:27 407
AP9L8 Injected on: 04/19/24 00:51 410
AP9L7 Injected on: 04/19/24 01:16 413
AP9L6 Injected on: 04/19/24 01:39 416
AP9L5 Injected on: 04/19/24 02:03 419
AP9L4 Injected on: 04/19/24 02:28 422
AP9L3 Injected on: 04/19/24 02:52 425
AP9L2 Injected on: 04/19/24 03:16 428
AP9L1 Injected on: 04/19/24 03:41 431
ABN ICV Summary Form Injected on: 04/19/24 04:04 434
ABN ICV Quant Report Injected on: 04/19/24 04:04 437
AP9 ICV Summary Form Injected on: 04/19/24 04:29 519

Table of Contents

AP9 ICV Quant Report Injected on: 04/19/24 04:29 520
Tune Injected on: 04/19/24 04:53 537
Deg Injected on: 04/19/24 04:53 538
Tailing Factor Injected on: 04/19/24 04:53 539
ADPL9 Injected on: 04/19/24 05:17 541
ADPL8 Injected on: 04/19/24 05:41 544
ADPL7 Injected on: 04/19/24 06:05 547
ADPL6 Injected on: 04/19/24 06:29 550
ADPL5 Injected on: 04/19/24 06:52 553
ADPL4 Injected on: 04/19/24 07:16 556
ADPL3 Injected on: 04/19/24 07:40 559
ADPL2 Injected on: 04/19/24 08:04 562
ADPL1 Injected on: 04/19/24 08:27 565
ADP ICV Summary Form Injected on: 04/19/24 08:51 568
ADP ICV Quant Report Injected on: 04/19/24 08:51 569
Relative Error 577
Continuing Calibration 578
Form 7 - Organics 579
CC Summary - SV106 Run: 06/17/24 08:45 584
CC Quant - WG1935225-3 SV106 Run: 06/17/24 08:45 587
CC Summary - SV106 Run: 06/17/24 09:09 673
CC Quant - WG1935225-5 SV106 Run: 06/17/24 09:09 674
CC Summary - SV106 Run: 06/17/24 09:33 682
CC Quant - WG1935225-4 SV106 Run: 06/17/24 09:33 683
DEG Quant for SV106 injected on 06/17/24 08:22 700
dftpp tune - Inst. SV106 06/17/24 08:22 701
Tailing factor report for SV106 injected on 06/17/24 08:22 702
Semivolatiles Raw QC Summary 704
Laboratory Method Bl (WG1934773-1) Analyzed: 06/17/24 09:57 705
Laboratory Control S (WG1934773-2) Analyzed: 06/17/24 10:20 717
LCS Duplicate (WG1934773-3) Analyzed: 06/17/24 10:44 765
Semivolatiles Calculations 813
QC Batch WG1934773 814
ICAL Sequence for SV106 on 19-APR-2024 00:00 ICAL21056 815
Instrument SV106 Run Date 06/17/24 Run ID R1841796 816
DaySequence 816
Organic ELN-Workgroup:WG1934773 817
Semivolatiles Data - Method 8270D-SIM 819
Semivolatiles QC Summary 820
Form 2 - Organics 821
Form 3 - Organics 822
Form 4 - Organics 823
Form 5 - Organics 824
Form 8 - Organics 827
MDL Study - 8270 Low Level PAH 829
Semivolatiles Sample Data 831
Form 1 - Organics 832
MW-11S (L2432633-01) Analyzed: 06/17/24 13:15 842
MW-11D (L2432633-02) Analyzed: 06/17/24 13:31 847
MW-13S (L2432633-03) Analyzed: 06/17/24 13:48 852

Table of Contents

MW-13D (L2432633-04) Analyzed: 06/17/24 14:04 860
Semivolatiles Standards Data 865
Initial Calibration 866
Form 6 - Organics 867
ICAL for SV120 on 05/29/24 ICAL21160 869
Initial Calibration Summary - Cal Date: 05/29/24 00:00 869
Injected on: 05/21/24 09:54 870
Degradation Injected on: 05/21/24 09:54 871
Tailing Factor Injected on: 05/21/24 09:54 872
IL9 Injected on: 05/21/24 10:37 874
IL8 Injected on: 05/21/24 10:53 878
IL7 Injected on: 05/21/24 11:10 882
IL6 Injected on: 05/21/24 11:26 886
IL5 Injected on: 05/21/24 11:42 891
IL4 Injected on: 05/21/24 11:59 898
IL3 Injected on: 05/21/24 12:15 907
IL2 Injected on: 05/21/24 12:32 916
IL1 Injected on: 05/21/24 12:48 933
Injected on: 05/22/24 13:16 951
Degradation Injected on: 05/22/24 13:16 952
Tailing Factor Injected on: 05/22/24 13:16 953
IL10a Injected on: 05/22/24 13:32 955
ICV Summary Form Injected on: 05/22/24 13:49 959
ICV Quant Report Injected on: 05/22/24 13:49 961
Relative Error 995
Continuing Calibration 996
Form 7 - Organics 997
CC Summary - SV120 Run: 06/17/24 07:04 998
CC Quant - WG1935125-3 SV120 Run: 06/17/24 07:04 1000
DEG Quant for SV120 injected on 06/17/24 06:47 1034
dftpp tune - Inst. SV120 06/17/24 06:47 1035
Tailing factor report for SV120 injected on 06/17/24 06:47 1036
Semivolatiles Raw QC Summary 1038
Laboratory Method Bl (WG1934774-1) Analyzed: 06/17/24 09:42 1039
Laboratory Control S (WG1934774-2) Analyzed: 06/17/24 09:10 1043
LCS Duplicate (WG1934774-3) Analyzed: 06/17/24 09:26 1070
Semivolatiles Calculations 1097
QC Batch WG1934774 1098
ICAL Sequence for SV120 on 29-MAY-2024 00:00 ICAL21160 1099
Instrument SV120 Run Date 06/17/24 Run ID R1841810 1100
Organic ELN-Workgroup:WG1934774 1102
GCMS Extractables 1,4-Dioxane by SIM 1104
Semivolatiles QC Summary 1105
Form 2 - Organics 1106
Form 3 - Organics 1107
Form 4 - Organics 1108
Form 5 - Organics 1109
Form 8 - Organics 1111
MDL Study - 1,4-Dioxane 1112
Semivolatiles Sample Data 1114

Table of Contents

Form 1 - Organics 1115
MW-13S (L2432633-03) Analyzed: 06/15/24 04:42 1120
MW-11S (L2432633-01) Analyzed: 06/15/24 05:04 1123
MW-11D (L2432633-02) Analyzed: 06/15/24 05:25 1126
MW-13D (L2432633-04) Analyzed: 06/15/24 05:47 1130
Semivolatiles Standards Data 1134
Initial Calibration 1135
Form 6 - Organics 1136
ICAL for PAH23 on 06/12/24 ICAL21187 1137
Initial Calibration Summary - Cal Date: 06/12/24 00:00 1137
DFTPP Tune Injected on: 06/10/24 09:51 1138
STD 10 Injected on: 06/10/24 11:18 1139
STD 50 Injected on: 06/10/24 15:06 1143
STD 100 Injected on: 06/10/24 15:27 1147
STD 500 Injected on: 06/10/24 15:49 1151
STD 1000 Injected on: 06/10/24 16:11 1155
STD 5000 Injected on: 06/10/24 16:33 1159
STD 10000 Injected on: 06/10/24 16:55 1163
ICV Summary Injected on: 06/10/24 17:17 1167
ICV Quant Report Injected on: 06/10/24 17:17 1168
Continuing Calibration 1172
Form 7 - Organics 1173
CC Summary - PAH23 Run: 06/14/24 21:06 1174
CC Quant - WG1934447-4 PAH23 Run: 06/14/24 21:06 1175
Semivolatiles Raw QC Summary 1179
dftpp tune - Inst. PAH23 06/14/24 20:31 1180
Laboratory Method Bl (WG1934101-1) Analyzed: 06/14/24 21:28 1181
Laboratory Control S (WG1934101-2) Analyzed: 06/14/24 21:50 1184
LCS Duplicate (WG1934101-3) Analyzed: 06/14/24 22:12 1188
Semivolatiles Calculations 1192
QC Batch WG1934447 1193
ICAL Sequence for PAH23 on 12-JUN-2024 00:00 ICAL21187 1195
Instrument PAH23 Run Date 06/14/24 Run ID R1841888 1196
Organic ELN-Workgroup:WG1934101 1197
GC Herbicide Analysis 1199
Semivolatiles QC Summary 1200
Form 2 - Organics 1201
Form 3 - Organics 1202
Form 4 - Organics 1203
Form 8 - Organics 1204
MDL Study - Herbicides 1205
HERB-8151 1205
Herbicides Sample Data 1207
Form 1 - Organics 1208
MW-11D (L2432633-02) Analyzed: 06/14/24 13:58 1213
MW-13S (L2432633-03) Analyzed: 06/14/24 14:16 1217
MW-13D (L2432633-04) Analyzed: 06/14/24 14:35 1222
MW-11S (L2432633-01) Analyzed: 06/14/24 18:55 1227
Herbicides Standards Data 1232
Initial Calibration 1233

Table of Contents

Form 6 - Organics 1234
ICAL for PEST22 on 04/12/24 ICAL21040 1236
Initial Calibration Summary - Cal Date: 04/12/24 00:00 1236
Herbicides L1 Injected on: 04/12/24 06:35 1238
Herbicides L2 Injected on: 04/12/24 06:54 1265
Herbicides L3 Injected on: 04/12/24 07:12 1290
Herbicides L4 Injected on: 04/12/24 07:31 1309
Herbicides L5 Injected on: 04/12/24 07:49 1330
Herbicides L6 Injected on: 04/12/24 08:08 1355
Initial Calibration Verification 1378
ICV Summary Form Injected on: 04/12/24 08:26 1379
ICV Quant Report Injected on: 04/12/24 08:26 1381
Continuing Calibration 1404
Form 7 - Organics 1405
CC Summary - PEST22 Run: 06/14/24 06:04 1411
CC Quant - WG1934262-1 PEST22 Run: 06/14/24 06:04 1413
CC Summary - PEST22 Run: 06/14/24 13:39 1425
CC Quant - WG1934262-3 PEST22 Run: 06/14/24 13:39 1427
CC Summary - PEST22 Run: 06/14/24 17:59 1446
CC Quant - WG1934262-4 PEST22 Run: 06/14/24 17:59 1448
RT Shift Summary 1468
Form 10 - Organics 1469
Herbicides Raw QC Data 1470
Laboratory Method Bl (WG1933705-1) Analyzed: 06/14/24 06:32 Chan. A&B 1471
Laboratory Control S (WG1933705-2) Analyzed: 06/14/24 06:51 Chan. A&B 1476
LCS Duplicate (WG1933705-3) Analyzed: 06/14/24 07:09 Chan. A&B 1502
Herbicides Calculations 1528
ICAL Sequence for PEST22 on 12-APR-2024 00:00 ICAL21040 1529
Instrument PEST22 Run Date 06/14/24 Run ID R1840985 1530
QC Batch WG1933705 1531
Organic ELN-Workgroup:WG1933705 1532
GC PCB Analysis 1534
Aroclor QC Summary 1535
Form 2 - Organics 1536
Form 3 - Organics 1537
Form 4 - Organics 1538
Form 8 - Organics 1539
MDL Study - PCBs 1540
Aroclor Sample Data 1542
Form 1 - Organics 1543
MW-11S (L2432633-01) Analyzed: 06/15/24 10:42 1548
MW-11D (L2432633-02) Analyzed: 06/15/24 10:50 1554
MW-13S (L2432633-03) Analyzed: 06/15/24 10:59 1559
MW-13D (L2432633-04) Analyzed: 06/15/24 11:07 1564
Aroclor Standards Data 1570
Initial Calibration 1571
Form 6 - Organics 1572
ICAL for PEST2 on 05/08/24 ICAL21102 1576
Initial Calibration Summary - Cal Date: 05/08/24 00:00 1576
1242/1268 L4 (250ug/L) Injected on: 05/06/24 20:49 1580

Table of Contents

1232/1262 L4 (250ug/L) Injected on: 05/06/24 20:59 1586
1248 L4 (250ug/L) Injected on: 05/06/24 21:08 1591
1221/1254 L4 (250ug/L) Injected on: 05/06/24 21:18 1597
1016/1260 L2 (50ug/L) Injected on: 05/06/24 21:36 1608
1016/1260 L3 (100ug/L) Injected on: 05/06/24 21:46 1625
1016/1260 L4 (250ug/L) Injected on: 05/06/24 21:55 1634
1016/1260 L5 (500ug/L) Injected on: 05/06/24 22:04 1639
1016/1260 L6 (1000ug/L) Injected on: 05/06/24 22:14 1647
1242/1268 ICV Summary Form Injected on: 05/06/24 22:23 1665
1242/1268 ICV Quant Report Injected on: 05/06/24 22:23 1669
1232/1262 ICV Summary Form Injected on: 05/06/24 22:33 1682
1232/1262 ICV Quant Report Injected on: 05/06/24 22:33 1686
1248 ICV Summary Form Injected on: 05/06/24 22:42 1693
1248 ICV Quant Report Injected on: 05/06/24 22:42 1697
1221/1254 ICV Summary Form Injected on: 05/06/24 22:52 1702
1221/1254 ICV Quant Report Injected on: 05/06/24 22:52 1706
1016/1260 L1 (10ug/L) Injected on: 05/07/24 15:31 1718
1016/1260 ICV Summary Form Injected on: 05/07/24 15:41 1746
1016/1260 ICV Quant Report Injected on: 05/07/24 15:41 1750
Continuing Calibration 1769
Form 7 - Organics 1770
CC Summary - PEST2 Run: 06/14/24 07:26 1774
CC Quant - WG1934325-1 PEST2 Run: 06/14/24 07:26 1776
CC Summary - PEST2 Run: 06/15/24 08:00 1785
CC Quant - WG1934764-1 PEST2 Run: 06/15/24 08:00 1787
RT Shift Summary 1802
Form 10 - Organics 1803
Aroclor Raw QC Data 1804
Laboratory Method Bl (WG1934357-1) Analyzed: 06/14/24 16:06 Chan. A&B 1805
Laboratory Control S (WG1934357-2) Analyzed: 06/14/24 16:14 Chan. A&B 1816
LCS Duplicate (WG1934357-3) Analyzed: 06/14/24 16:23 Chan. A&B 1828
PCB Calculations 1845
ICAL Sequence for PEST2 on 08-MAY-2024 00:00 ICAL21102 1846
Instrument PEST2 Run Date 06/14/24 Run ID R1841130 1847
Instrument PEST2 Run Date 06/15/24 Run ID R1841459 1848
QC Batch WG1934357 1849
Organic ELN-Workgroup:WG1934357 1850
GC Pesticide Analysis 1853
Pesticides QC Summary 1854
Form 2 - Organics 1855
Form 3 - Organics 1856
Form 4 - Organics 1857
Form 8 - Organics 1858
MDL Study - Pesticides 1859
Pesticides Sample Data 1861
Form 1 - Organics 1862
MW-11S (L2432633-01) Analyzed: 06/15/24 16:19 1867
MW-11D (L2432633-02) Analyzed: 06/15/24 16:31 1880
MW-13S (L2432633-03) Analyzed: 06/15/24 16:43 1893
MW-13D (L2432633-04) Analyzed: 06/15/24 16:55 1906

Table of Contents

Pesticides Standards Data 1919
Initial Calibration 1920
Form 6 - Organics 1921
ICAL for PEST11 on 06/14/24 ICAL21196 1925
Initial Calibration Summary - Cal Date: 06/14/24 00:00 1925
Degradation Standard Injected on: 06/13/24 13:56 1930
Pesticides L1 (0.5ug/L) Injected on: 06/13/24 14:08 1935
Pesticides L2 (1.0ug/L) Injected on: 06/13/24 14:20 1939
Pesticides L3 (2.0ug/L) Injected on: 06/13/24 14:32 1961
Pesticides L4 (3.0ug/L) Injected on: 06/13/24 14:44 1972
Pesticides L5 (4.0ug/L) Injected on: 06/13/24 14:56 1984
Pesticides L7 (10.0ug/L) Injected on: 06/13/24 15:08 1995
Pesticides L8 (50.0ug/L) Injected on: 06/13/24 15:20 1999
Pesticides L9 (100ug/L) Injected on: 06/13/24 15:32 2003
Pesticides L10 (200ug/L) Injected on: 06/13/24 15:44 2007
Pesticides L11 (400ug/L) Injected on: 06/13/24 15:56 2011
Initial Calibration Verification 2015
ICV Summary Form Injected on: 06/13/24 16:08 2016
ICV Quant Report Injected on: 06/13/24 16:08 2019
Chlordane L3 (10ug/L) Injected on: 06/13/24 16:20 2023
Chlordane L4 (20ug/L) Injected on: 06/13/24 16:32 2028
Chlordane L5 (100ug/L) Injected on: 06/13/24 16:44 2035
Chlordane L7 (500ug/L) Injected on: 06/13/24 16:56 2039
Chlordane L8 (1000ug/L) Injected on: 06/13/24 17:08 2043
Chlordane L9 (2000ug/L) Injected on: 06/13/24 17:20 2047
Chlordane L10 (5000ug/L)- Injected on: 06/13/24 17:32 2051
Initial Calibration Verification 2055
ICV Summary Form Injected on: 06/13/24 17:44 2056
ICV Quant Report Injected on: 06/13/24 17:44 2059
Toxaphene L3 (20.0ug/L) Injected on: 06/13/24 17:56 2063
Toxaphene L4 (100ug/L) Injected on: 06/13/24 18:08 2067
Toxaphene L7 (1000ug/L) Injected on: 06/13/24 18:20 2071
Toxaphene L8 (2000ug/L) Injected on: 06/13/24 18:32 2075
Toxaphene L9 (5000ug/L) Injected on: 06/13/24 18:44 2079
Initial Calibration Verification 2083
ICV Summary Form Injected on: 06/13/24 18:56 2084
ICV Quant Report Injected on: 06/13/24 18:56 2087
Correlation Data Summary 2091
Continuing Calibration 2092
Form 7 - Organics 2093
CC Summary - PEST11 Run: 06/15/24 07:58 2101
CC Quant - WG1934790-1 PEST11 Run: 06/15/24 07:58 2104
CC Summary - PEST11 Run: 06/15/24 08:10 2151
CC Quant - WG1934790-2 PEST11 Run: 06/15/24 08:10 2154
CC Summary - PEST11 Run: 06/15/24 08:22 2159
CC Quant - WG1934790-3 PEST11 Run: 06/15/24 08:22 2162
CC Summary - PEST11 Run: 06/15/24 15:31 2167
CC Quant - WG1934790-4 PEST11 Run: 06/15/24 15:31 2170
Continuing Calibration Degradation Check 2182
Form 15 - Organics 2183

Table of Contents

DEG Quant for PEST11 injected on 06/15/24 07:46 2184
RT Shift Summary 2201
Form 10 - Organics 2202
Pesticides Raw QC Data 2203
Laboratory Method Bl (WG1934673-1) Analyzed: 06/15/24 12:44 Chan. A&B 2204
Laboratory Control S (WG1934673-2) Analyzed: 06/15/24 12:56 Chan. A&B 2217
LCS Duplicate (WG1934673-3) Analyzed: 06/15/24 13:08 Chan. A&B 2264
Pesticides Calculations 2313
ICAL Sequence for PEST11 on 14-JUN-2024 00:00 ICAL21196 2314
Instrument PEST11 Run Date 06/15/24 Run ID R1841430 2315
QC Batch WG1934673 2317
Organic ELN-Workgroup:WG1934673 2318
Metals Analysis 2320
Inorganic Data (ICP Analysis) 2321
Form 1 - Inorganics 2322
Form 2A - Inorganics 2342
Form 3 - Inorganics 2376
Form 4A - Inorganics 2405
Form 5A - Inorganics 2411
Form 6 - Inorganics 2415
Form 7 - Inorganics 2419
Form 8 - Inorganics 2423
Form 10 - Inorganics 2424
Form 11 - Inorganics 2443
Form 12 - Inorganics 2444
Form 13 - Inorganics 2450
MDL Study - Metals by ICP 2462
Run Date 06/14/24 Run ID R1841066 2464
Run Date 06/15/24 Run ID R1841447 2753
Run Date 06/16/24 Run ID R1841612 2989
Run Date 06/17/24 Run ID R1841928 3093
Run Date 06/17/24 Run ID R1842119 3247
Run Date 06/18/24 Run ID R1842282 3335
ICP True Value Summary Form 3414
ICP Calculations 3429
Instrument TRACE8 Run Date 06/14/24 Run ID R1841066 3430
Instrument TRACE8 Run Date 06/15/24 Run ID R1841447 3435
Instrument TRACE5 Run Date 06/16/24 Run ID R1841612 3439
Instrument TRACE8 Run Date 06/17/24 Run ID R1841928 3441
Instrument TRACE6 Run Date 06/17/24 Run ID R1842119 3444
Instrument TRACE8 Run Date 06/18/24 Run ID R1842282 3446
Metals ELN-Workgroup:WG1934502 3448
Metals ELN-Workgroup:WG1934555 3451
Inorganic Data (Mercury Analysis) 3453
Form 1 - Inorganics 3454
Form 2A - Inorganics 3467
Form 3 - Inorganics 3471
Form 5A - Inorganics 3475
Form 6 - Inorganics 3478
Form 7 - Inorganics 3481

Table of Contents

Form 12 - Inorganics 3483
Form 13 - Inorganics 3486
MDL Study - Mercury by 245.1 3489
MDL Study - Mercury by 7470A 3490
MDL Study - Mercury by 7471B 3491
Run Date 06/17/24 Run ID R1841855 3492
Run Date 06/18/24 Run ID R1842390 3496
Run Date 06/18/24 Run ID R1842375 3499
Hg True Value Summary Form 3502
HG Calculations 3516
Instrument NIC3 Run Date 06/17/24 Run ID R1841855 3518
Instrument NIC3 Run Date 06/18/24 Run ID R1842390 3521
Instrument NIC2 Run Date 06/18/24 Run ID R1842375 3523
Metals ELN-Workgroup:WG1934557 3525
Metals ELN-Workgroup:WG1934503 3527
Wet Chemistry Analysis 3529
Total Nitrogen Calculation 3530
Results 3531
Form 1 - Inorganics 3532
Sample Raw Data 3536
Wet Chemistry Raw Data 3537
Total Nitrogen Calculations 3539
TKN Analysis 3540
Results 3541
Form 1 - Inorganics 3542
Sample Raw Data 3550
Wet Chemistry Raw Data 3551
WG1935750_rawdata 3564
240619_NH3TKN_rawdataA 3564
240619_NH3TKN_rawdataA1 3566
240619_NH3TKN_rawdataB 3568
Quality Control 3570
Form 5A - Inorganics 3571
Form 6 - Inorganics 3573
Form 7 - Inorganics 3575
MDL Study - Total Kjeldahl Nitrogen 3577
TKN Calculations 3579
Sequence Logs 3580
Instrument LACHAT Run Date 06/16/24 Run ID R1841602 3581
Instrument LACHAT Run Date 06/19/24 Run ID R1842939 3584
Sample Preparation 3585
Prep Log 3586
Nitrate-Nitrite Analysis 3588
Results 3589
Form 1 - Inorganics 3590
Sample Raw Data 3596
Wet Chemistry Raw Data 3597
240613-1 3597
Quality Control 3624
Form 5A - Inorganics 3625

Table of Contents

Form 6 - Inorganics 3626
Form 7 - Inorganics 3627
MDL Study - Nitrate and Nitrite 3628
Nitrate Nitrite Calculations 3630
Sequence Logs 3631
Instrument LACHAT Run Date 06/13/24 Run ID R1840413 3632
Sheet1 3632
Total Dissolved Solids Analysis 3635
Results 3636
Form 1 - Inorganics 3637
Sample Raw Data 3644
Wet Chemistry Raw Data 3645
Quality Control 3647
Form 6 - Inorganics 3648
Form 7 - Inorganics 3650
MDL Study - Total Dissolved Solids 3651
TDS Calculations 3652
Sulfate Analysis 3653
Results 3654
Form 1 - Inorganics 3655
Sample Raw Data 3661
Wet Chemistry Raw Data 3662
Quality Control 3663
Form 5A - Inorganics 3664
Form 6 - Inorganics 3665
Form 7 - Inorganics 3666
MDL Study - Sulfate 3667
Sulfate Calculations 3669
Alkalinity Analysis 3670
Results 3671
Form 1 - Inorganics 3672
Sample Raw Data 3678
Wet Chemistry Raw Data 3679
240618_CAL.pdf 3679
240618_LCS 3680
240618_ALK1 3681
Quality Control 3686
Form 6 - Inorganics 3687
MDL Study - Alkalinity 3688
Alkalinity Calculations 3689
Sequence Logs 3690
Instrument TITR5 Run Date 06/18/24 Run ID R1842407 3691
Chloride Analysis 3692
Results 3693
Form 1 - Inorganics 3694
Sample Raw Data 3700
Wet Chemistry Raw Data 3701
Quality Control 3714
Form 5A - Inorganics 3715
Form 6 - Inorganics 3716

Table of Contents

Form 7 - Inorganics 3717
MDL Study - Chloride 3718
Chloride Calculations 3720
Sequence Logs 3721
Instrument LACHAT Run Date 06/12/24 Run ID R1840260 3722
Fluoride Analysis 3723
Results 3724
Form 1 - Inorganics 3725
Sample Raw Data 3731
Wet Chemistry Raw Data 3732
Quality Control 3733
Form 5A - Inorganics 3734
Form 6 - Inorganics 3735
Form 7 - Inorganics 3736
MDL Study - Fluoride 3737
Fluoride Calculations 3739
Sample Preparation 3740
Prep Log 3741
Phosphates Analysis 3743
Results 3744
Form 1 - Inorganics 3745
Sample Raw Data 3751
Wet Chemistry Raw Data 3752
Quality Control 3754
Form 5A - Inorganics 3755
Form 6 - Inorganics 3756
Form 7 - Inorganics 3757
MDL Study - Total Phosphorus 3758
MDL Study - Orthophosphate 3760
Total Phosphorus Calculation 3762
Wet Chemistry By IC Methods 3763
Results 3764
Form 1 - Inorganics 3765
Sample Raw Data 3771
Wet Chemistry Raw Data 3772
Quality Control 3867
Form 5A - Inorganics 3868
Form 6 - Inorganics 3869
Form 7 - Inorganics 3870
MDL Study - Ion Chromatography 3871
IC Calculations 3872
Alpha Analytical Report 3873
Subcontracted Data Documents 3873
Subcontracted Data 3874
Subcontracted Data Deliverable Package 3905

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2432633
Report Date: 06/25/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432633-01	MW-11S	WATER	416 MILLER PLACE-YAPHANK ROAD	06/11/24 10:50	06/11/24
L2432633-02	MW-11D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/11/24 10:52	06/11/24
L2432633-03	MW-13S	WATER	416 MILLER PLACE-YAPHANK ROAD	06/11/24 12:23	06/11/24
L2432633-04	MW-13D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/11/24 12:35	06/11/24
L2432633-05	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	06/11/24 00:00	06/11/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

June 25, 2024: This final report includes the results of all requested analyses.

June 19, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analyses of Sulfide, Ammonium and Iodide were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2432633-01, -02, -03, and -04: Sample containers for 1,4 Dioxane by 8270E-SIM analysis were received, but not listed on the chain of custody. At the client's request, the analysis was performed.

L2432633-01, -02, -03, and -04: Sample containers for 504/8011 analysis were received, but not listed on the chain of custody. At the client's request, the analysis was not performed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 06/25/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	
	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L2432633

Received : 11-JUN-2024
Reviewer : Craig Sloma-Green

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.1	
B	Absent/	Ice	3.0	
C	Absent/	Ice	2.8	
D	Absent/	Ice	5.1	

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **YES**
L2432633-01D (HOLD-504/8011) was received in extra container.
L2432633-01E (HOLD-504/8011) was received in extra container.
L2432633-01R (HOLD-1,4DIOX) was received in extra container.
L2432633-01S (HOLD-1,4DIOX) was received in extra container.
L2432633-02D (HOLD-504/8011) was received in extra container.
L2432633-02E (HOLD-504/8011) was received in extra container.
L2432633-02R (HOLD-1,4DIOX) was received in extra container.
L2432633-02S (HOLD-1,4DIOX) was received in extra container.
L2432633-03D (HOLD-504/8011) was received in extra container.
L2432633-03E (HOLD-504/8011) was received in extra container.
L2432633-03R (HOLD-1,4DIOX) was received in extra container.
L2432633-03S (HOLD-1,4DIOX) was received in extra container.
L2432633-04D (HOLD-504/8011) was received in extra container.
L2432633-04E (HOLD-504/8011) was received in extra container.
L2432633-04R (HOLD-1,4DIOX) was received in extra container.
L2432633-04S (HOLD-1,4DIOX) was received in extra container.

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

Sample Delivery Group Summary

Alpha Job Number : L2432633

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Received : 11-JUN-2024
Reviewer : Craig Sloma-Green

6) Are samples properly preserved for requested analysis? **YES**

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:35 pm

Login Number: L2432633

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 11JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected
L2432633-01	MW-11S	S0	1	11JUN24 10:50

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam 1ZE306540199087261 123.03 USD 1ZE306540196508874 123.03 USD HERB-8151: Report list built NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX ASP-B Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,ARCHIVE,ASP-B,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT, SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-LEVEL5,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI, MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2432633-02	MW-11D	S0	1	11JUN24 10:52

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:35 pm

Login Number: L2432633

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 11JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,ARCHIVE,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011, NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI, CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2432633-03 MW-13S 1 S0 11JUN24 12:23

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:35 pm

Login Number: L2432633

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 11JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected
L2432633-04	MW-13D	S0	1	11JUN24 12:35

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2432633-05	TRIP BLANK	S0	1	11JUN24 00:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

NYTCL-8260

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432633

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables

- [ ] ASP-A
- [x] ASP-B
- [ ] EQuIS (1 File)
- [ ] EQuIS (4 File)
- [ ] Other

Regulatory Requirement

- [ ] NY TOGS
- [ ] NY Part 375
- [ ] AWQ Standards
- [ ] NY CP-51
- [ ] NY Restricted Use
- [ ] Other
- [ ] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information

- [ ] Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
NJ [ ] NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

LAB FILTER DISS. TAL METALS FOR MW-11S & MW-11D

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-LVI	TAL600/TAL-2007S	Br-300	Cl-4500	No3/No2-4500-PPB	TOTALNITROGEN	TDS-2540	Sample Specific Comments	Total Bottles
32633-01	MW-11S	6/11/24	1050	AQ	PP	X	X	X	X	X	X	X	X	LAB FILTER	26
-02	MW-11D	6/11/24	1052	AQ	JM	X	X	X	X	X	X	X	X	LAB FILTER	26
-03	MW-13S	6/11/24	1223	AQ	JM	X	X	X	X	X	X	X	X		26
-04	MW-13D	6/11/24	1235	AQ	PP	X	X	X	X	X	X	X	X		26
-05	TRIP BLANK	6/11/24		AQ	LAB	X									2

Sample Filtration
- [x] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	P	P	P	A	A	P
Preservative	B	A	C	A	A	D	D	A

Relinquished By:	Date/Time	Received By:	Date/Time
	6/11/24 1336		6/11/24 1337
	6/11/24 1950	Anthony Green	JUN 12 2024 0052
Anthony Green	6/12/24 0305		6/12/24 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432633

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

[x] Standard — Due Date:
[ ] Rush (only if pre approved) — # of Days:

Deliverables

[ ] ASP-A [x] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[ ] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ [ ] NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

[x] Done
[ ] Lab to do

Preservation
[ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500/F-4500	TPO4-4500	Alk-Co3-2320/Alk-HC03-23	SUB-SULFIDE	SUB-IODIDE	SUB-Ammonium	TCL PCBs-8082A (LVI)	TCL Pesticides/Herb	Sample Specific Comments	Total Bottles
32633-01	MW-11S	6/11/24	1050	AQ	PP	X	X	X	X	X	X	X	X		26
-02	MW-11D	6/11/24	1052	AQ	JM	X	X	X	X	X	X	X	X		26
-03	MW-13S	6/11/24	1223	AQ	JM	X	X	X	X	X	X	X	X		26
-04	MW-13D	6/11/24	1235	AQ	PP	X	X	X	X	X	X	X	X		26

Container Type: P A P P P P A A
Preservative: A D A K A D A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	6/11/24 1330	[illegible] Price	6/11/24 1337
[illegible] Price	6-11-24 1950	Anthony Green	JUN 12 2024 0552
Anthony Green	6/12/24 0305	[illegible]	6/12/24 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-11S (L2432633-01)	103	102	113	99	0
MW-11D (L2432633-02)	102	103	115	99	0
MW-13S (L2432633-03)	102	102	112	98	0
MW-13D (L2432633-04)	103	103	116	98	0
TRIP BLANK (L2432633-05)	100	103	114	97	0
WG1935361-3LCS	103	106	113	96	0
WG1935361-4LCSD	105	106	111	95	0
WG1935361-5BLANK	102	103	114	96	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935361-3 **Analysis Date** : 06/14/24 18:16	**File ID**	: VG240614N01
LCSD Sample ID	: WG1935361-4 **Analysis Date** : 06/14/24 18:40	**File ID**	: VG240614N02

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.4	94		10	10	100	6	70-130	20
1,1-Dichloroethane	10	10	100		10	11	110	10	70-130	20
Chloroform	10	9.5	95		10	9.8	98	3	70-130	20
Carbon tetrachloride	10	9.6	96		10	9.6	96	0	63-132	20
1,2-Dichloropropane	10	10	100		10	11	110	10	70-130	20
Dibromochloromethane	10	8.8	88		10	9.7	97	10	63-130	20
1,1,2-Trichloroethane	10	9.4	94		10	10	100	6	70-130	20
Tetrachloroethene	10	9.6	96		10	10	100	4	70-130	20
Chlorobenzene	10	9.3	93		10	10	100	7	75-130	20
Trichlorofluoromethane	10	9.1	91		10	8.9	89	2	62-150	20
1,2-Dichloroethane	10	9.2	92		10	10	100	8	70-130	20
1,1,1-Trichloroethane	10	9.7	97		10	9.9	99	2	67-130	20
Bromodichloromethane	10	8.8	88		10	9.8	98	11	67-130	20
trans-1,3-Dichloropropene	10	9.4	94		10	11	110	16	70-130	20
cis-1,3-Dichloropropene	10	8.8	88		10	9.8	98	11	70-130	20
Bromoform	10	8.0	80		10	8.9	89	11	54-136	20
1,1,2,2-Tetrachloroethane	10	11	110		10	13	130	17	67-130	20
Benzene	10	9.6	96		10	10	100	4	70-130	20
Toluene	10	9.9	99		10	11	110	11	70-130	20
Ethylbenzene	10	9.6	96		10	10	100	4	70-130	20
Chloromethane	10	9.5	95		10	9.5	95	0	64-130	20
Bromomethane	10	1.7	17	Q	10	1.9	19	Q	11	39-139	20
Vinyl chloride	10	10	100		10	9.3	93	7	55-140	20
Chloroethane	10	7.6	76		10	6.3	63	19	55-138	20
1,1-Dichloroethene	10	9.7	97		10	9.6	96	1	61-145	20
trans-1,2-Dichloroethene	10	9.3	93		10	9.5	95	2	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2432633
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1935361-3 **Analysis Date** : 06/14/24 18:16 **File ID** : VG240614N01
LCSD Sample ID : WG1935361-4 **Analysis Date** : 06/14/24 18:40 **File ID** : VG240614N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	8.7	87	10	8.6	86	1	70-130	20
1,2-Dichlorobenzene	10	9.2	92	10	9.9	99	7	70-130	20
1,3-Dichlorobenzene	10	9.4	94	10	9.9	99	5	70-130	20
1,4-Dichlorobenzene	10	9.2	92	10	9.9	99	7	70-130	20
Methyl tert butyl ether	10	8.0	80	10	9.5	95	17	63-130	20
p/m-Xylene	20	18	90	20	19	95	5	70-130	20
o-Xylene	20	17	85	20	18	90	6	70-130	20
cis-1,2-Dichloroethene	10	9.0	90	10	9.4	94	4	70-130	20
Styrene	20	18	90	20	19	95	5	70-130	20
Dichlorodifluoromethane	10	8.0	80	10	7.5	75	6	36-147	20
Acetone	10	8.9	89	10	10	100	12	58-148	20
Carbon disulfide	10	9.8	98	10	10	100	2	51-130	20
2-Butanone	10	9.8	98	10	11	110	12	63-138	20
4-Methyl-2-pentanone	10	9.6	96	10	11	110	14	59-130	20
2-Hexanone	10	10	100	10	12	120	18	57-130	20
Bromochloromethane	10	8.7	87	10	9.0	90	3	70-130	20
1,2-Dibromoethane	10	9.2	92	10	10	100	8	70-130	20
1,2-Dibromo-3-chloropropane	10	8.2	82	10	9.4	94	14	41-144	20
Isopropylbenzene	10	9.2	92	10	9.7	97	5	70-130	20
1,2,3-Trichlorobenzene	10	7.7	77	10	9.2	92	18	70-130	20
1,2,4-Trichlorobenzene	10	8.1	81	10	9.2	92	13	70-130	20
Methyl Acetate	10	9.5	95	10	11	110	15	70-130	20
Cyclohexane	10	11	110	10	10	100	10	70-130	20
Freon-113	10	9.5	95	10	9.2	92	3	70-130	20
Methyl cyclohexane	10	9.5	95	10	8.7	87	9	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935361-5	**Lab File ID**	: VG240614N05
Instrument ID	: GONZO		
Matrix	: WATER	**Analysis Date**	: 06/14/24 19:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1935361-3LCS	WG1935361-3	06/14/24 18:16
WG1935361-4LCSD	WG1935361-4	06/14/24 18:40
TRIP BLANK	L2432633-05	06/14/24 21:04
MW-13D	L2432633-04	06/14/24 21:28
MW-13S	L2432633-03	06/14/24 21:52
MW-11D	L2432633-02	06/14/24 22:16
MW-11S	L2432633-01	06/14/24 22:40

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GONZO	**Analysis Date**	: 05/09/24 16:44
Tune Standard	: WG1919586-1	**Tune File ID**	: VG240509ABF2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 80.0% of mass 95	49
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.7 (.9)1
174	Greater than 50.0% of mass 95	82.8
175	5.0 - 9.0% of mass 174	6.7 (8.1)1
176	Greater than 95.0% but less than 101% of mass	81.7 (98.7)1
177	5.0 - 9.0% of mass 176	5.3 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1827283-1	VG240509A03	05/09/24 17:50
STD0.5PPB	R1827283-2	VG240509A05	05/09/24 18:37
STD2PPB	R1827283-3	VG240509A07	05/09/24 19:25
STD10PPB	R1827283-4	VG240509A08	05/09/24 19:49
STD30PPB	R1827283-5	VG240509A09	05/09/24 20:13
STD80PPB	R1827283-6	VG240509A10	05/09/24 20:37
STD120PPB	R1827283-7	VG240509A11	05/09/24 21:01
STD200PPB	R1827283-8	VG240509A12	05/09/24 21:24
Correlation Data Summary	R1827283-9	VG240509A17	05/09/24 23:24
ICV Quant Report	R1827283-9	VG240509A17	05/09/24 23:24

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GONZO	**Analysis Date**	: 06/14/24 17:58
Tune Standard	: WG1935361-1	**Tune File ID**	: VG240614NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 80.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1)1
174	Greater than 50.0% of mass 95	73.4
175	5.0 - 9.0% of mass 174	5.2 (7.2)1
176	Greater than 95.0% but less than 101% of mass	71.7 (97.8)1
177	5.0 - 9.0% of mass 176	4.6 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935361-2CCAL	WG1935361-2	VG240614N01	06/14/24 18:16
WG1935361-3LCS	WG1935361-3	VG240614N01	06/14/24 18:16
WG1935361-4LCSD	WG1935361-4	VG240614N02	06/14/24 18:40
WG1935361-5BLANK	WG1935361-5	VG240614N05	06/14/24 19:52
TRIP BLANK	L2432633-05	VG240614N08	06/14/24 21:04
MW-13D	L2432633-04	VG240614N09	06/14/24 21:28
MW-13S	L2432633-03	VG240614N10	06/14/24 21:52
MW-11D	L2432633-02	VG240614N11	06/14/24 22:16
MW-11S	L2432633-01	VG240614N12	06/14/24 22:40

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GONZO	**Analysis Date**	: 06/14/24 18:16:00
Sample No	: WG1935361-2	**Lab File ID**	: VG240614N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1935361-2	638207	6.09	463801	9.65	250819	12.33
Upper Limit	1276414	6.59	927602	10.15	501638	12.83
Lower Limit	319104	5.59	231901	9.15	125410	11.83
Sample ID						
WG1935361-3 LCS	638207	6.09	463801	9.65	250819	12.33
WG1935361-4 LCSD	602590	6.09	433579	9.64	234823	12.33
WG1935361-5 BLANK	568731	6.09	409984	9.65	207069	12.33
TRIP BLANK	555328	6.09	399241	9.64	198157	12.33
MW-13D	550214	6.09	401215	9.64	199936	12.33
MW-13S	547826	6.10	400605	9.64	199691	12.33
MW-11D	530005	6.09	381270	9.64	189245	12.33
MW-11S	521609	6.09	380014	9.64	188086	12.33

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

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File: PM14094-1
Page: 1

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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File: PM14094-1
Page: 2

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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File: PM14095-1
Page: 1

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

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File: PM14095-1
Page: 2

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 22:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 22:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 22:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 22:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 22:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 22:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-05	**Date Collected**	: 06/11/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:04
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-05	**Date Collected**	: 06/11/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:04
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-05	**Date Collected**	: 06/11/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 21:04
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240614N08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935361-5	**Date Collected**	: NA
Client ID	: WG1935361-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/14/24 19:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: VG240614N05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935361-5	**Date Collected**	: NA
Client ID	: WG1935361-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/14/24 19:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: VG240614N05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935361-5	**Date Collected**	: NA
Client ID	: WG1935361-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/14/24 19:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: VG240614N05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N08.D
Acq On : 14 Jun 2024 9:04 pm
Operator : GONZO:PID
Sample : L2432633-05,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 13:16:23 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	555328	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 87.01%			
59) Chlorobenzene-d5	9.637	117	399241	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 86.08%			
79) 1,4-Dichlorobenzene-d4	12.327	152	198157	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 79.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	137728	9.684	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.84%			
43) 1,2-Dichloroethane-d4	5.812	65	170933	10.018	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.18%			
60) Toluene-d8	7.793	98	503888	10.257	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.57%			
83) 4-Bromofluorobenzene	11.126	95	182250	11.437	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.512	85	76	N.D.		
3) Chloromethane	1.877	50	604	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	2.363	64	69	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.047	76	691	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.586	84	701	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.746	43	358	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N08.D
Acq On : 14 Jun 2024 9:04 pm
Operator : GONZO:PID
Sample : L2432633-05,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 13:16:23 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	5.296	43	165	N.D.		
41)	Benzene	5.691	78	902	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D. d		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D. d		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.843	92	2992	0.110	ug/L	94
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	9.348	43	70	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.694	91	362	N.D.		
76)	p/m Xylene	0.000		0	N.D. d		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	14.647	180	77	N.D.		

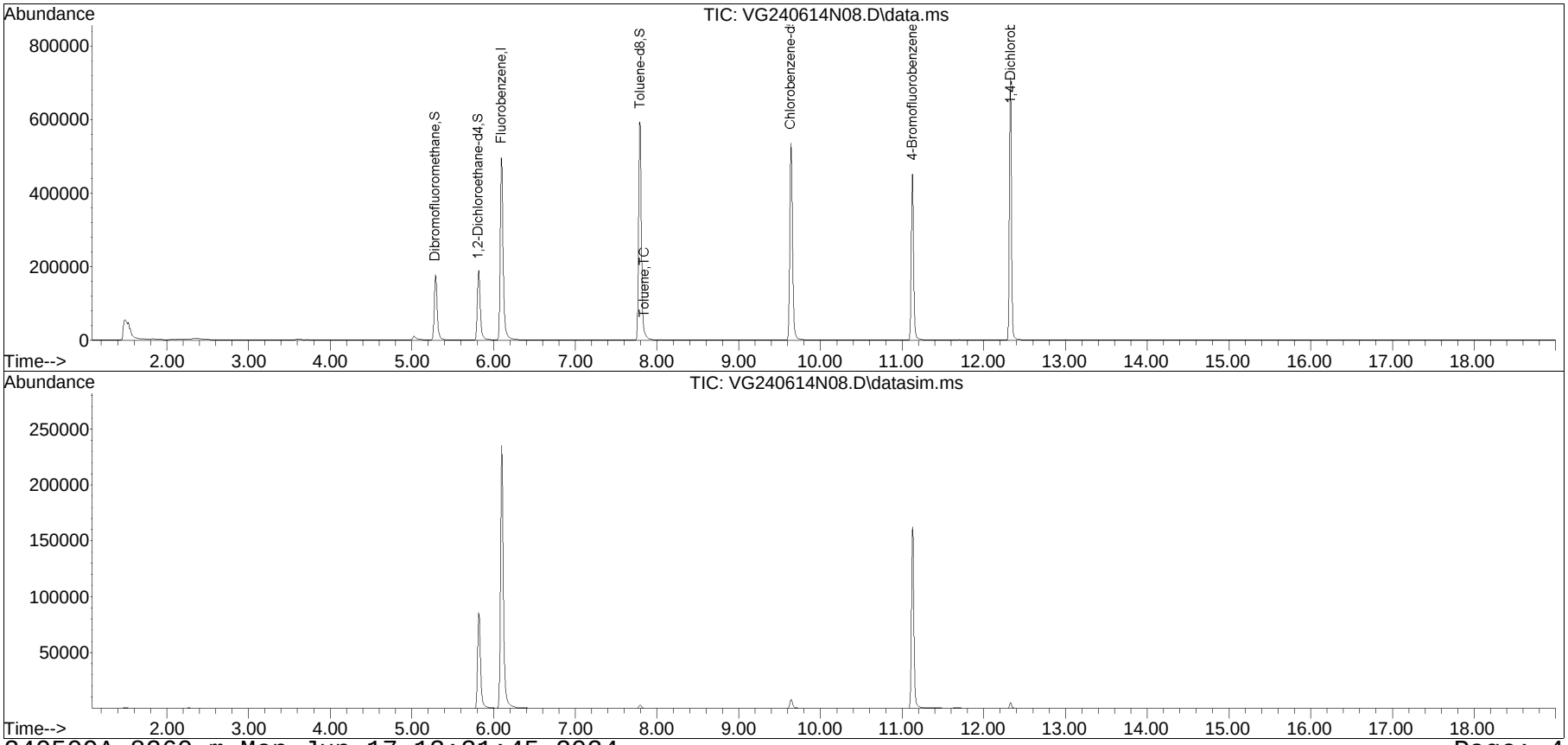
(#) = qualifier out of range (m) = manual integration (+) = signals summed

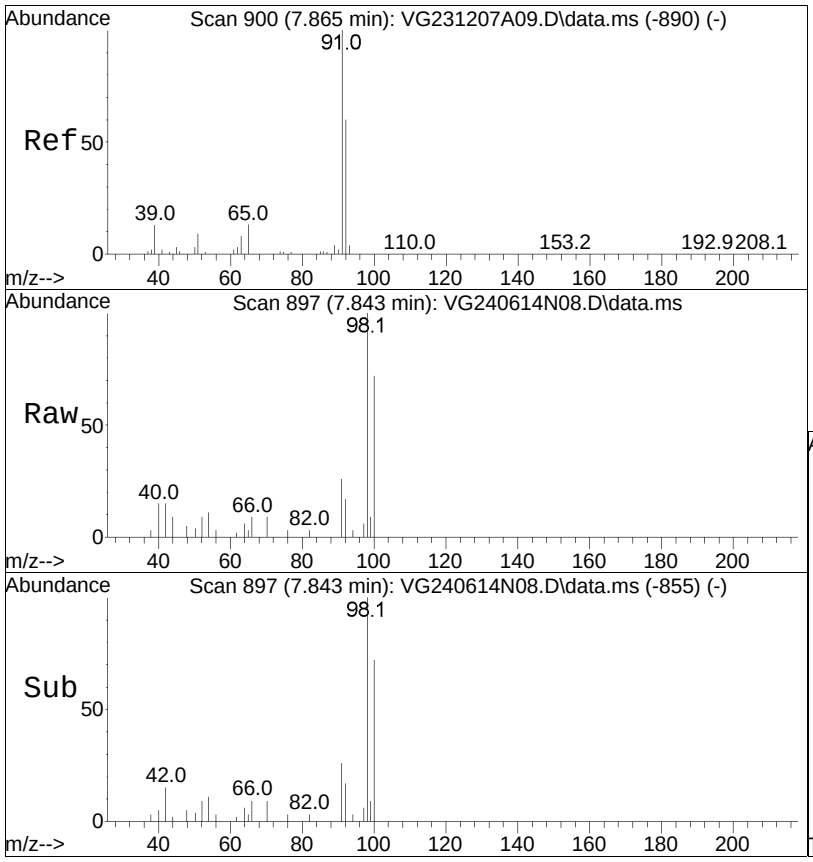
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N08.D
Acq On : 14 Jun 2024 9:04 pm
Operator : GONZO:PID
Sample : L2432633-05,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 13:16:23 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

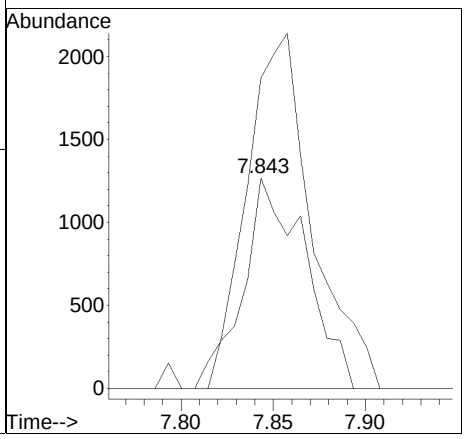




#61
Toluene
Concen: 0.11 ug/L
RT: 7.843 min Scan# 897
Delta R.T. 0.000 min
Lab File: VG240614N08.D
Acq: 14 Jun 2024 9:04 pm

Tgt Ion: 92 Resp: 2992

Ion	Ratio	Lower	Upper
92	100		
91	176.2	134.8	202.2



Manual Integration Report

Data Path	: K:\Gonzo\2024\240614N\	QMethod	: G_240509A_8260.m
Data File	: VG240614N08.D	Operator	: GONZO:PID
Date Inj'd	: 6/14/2024 9:04 pm	Instrument	: Gonzo
Sample	: L2432633-05,31,10,10,,A	Quant Date	: 6/17/2024 1:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N09.D
Acq On : 14 Jun 2024 9:28 pm
Operator : GONZO:PID
Sample : L2432633-04,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 17 13:16:37 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	550214	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 86.21%			
59) Chlorobenzene-d5	9.637	117	401215	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 86.51%			
79) 1,4-Dichlorobenzene-d4	12.327	152	199936	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 79.71%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.289	113	137447	9.754	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.54%			
43) 1,2-Dichloroethane-d4	5.813	65	174181	10.303	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.03%			
60) Toluene-d8	7.786	98	507671	10.283	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.83%			
83) 4-Bromofluorobenzene	11.126	95	186719	11.613	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.475	85	753	N.D.		
3) Chloromethane	1.870	50	300	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.063	76	515	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	430	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.716	43	104	N.D.		
20) Methyl tert-butyl ether	3.830	73	1920	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.901	96	78	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.114	83	4946	0.234	ug/L	95
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N09.D
Acq On : 14 Jun 2024 9:28 pm
Operator : GONZO:PID
Sample : L2432633-04,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 17 13:16:37 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.851	92	553	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	8.309	166	66	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	9.197	43	92	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.645	91	883	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	11.463	83	94	N.D.		
100)	1,3-Dichlorobenzene	12.261	146	76	N.D.		
101)	1,4-Dichlorobenzene	12.261	146	76	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	14.647	180	81	N.D.		

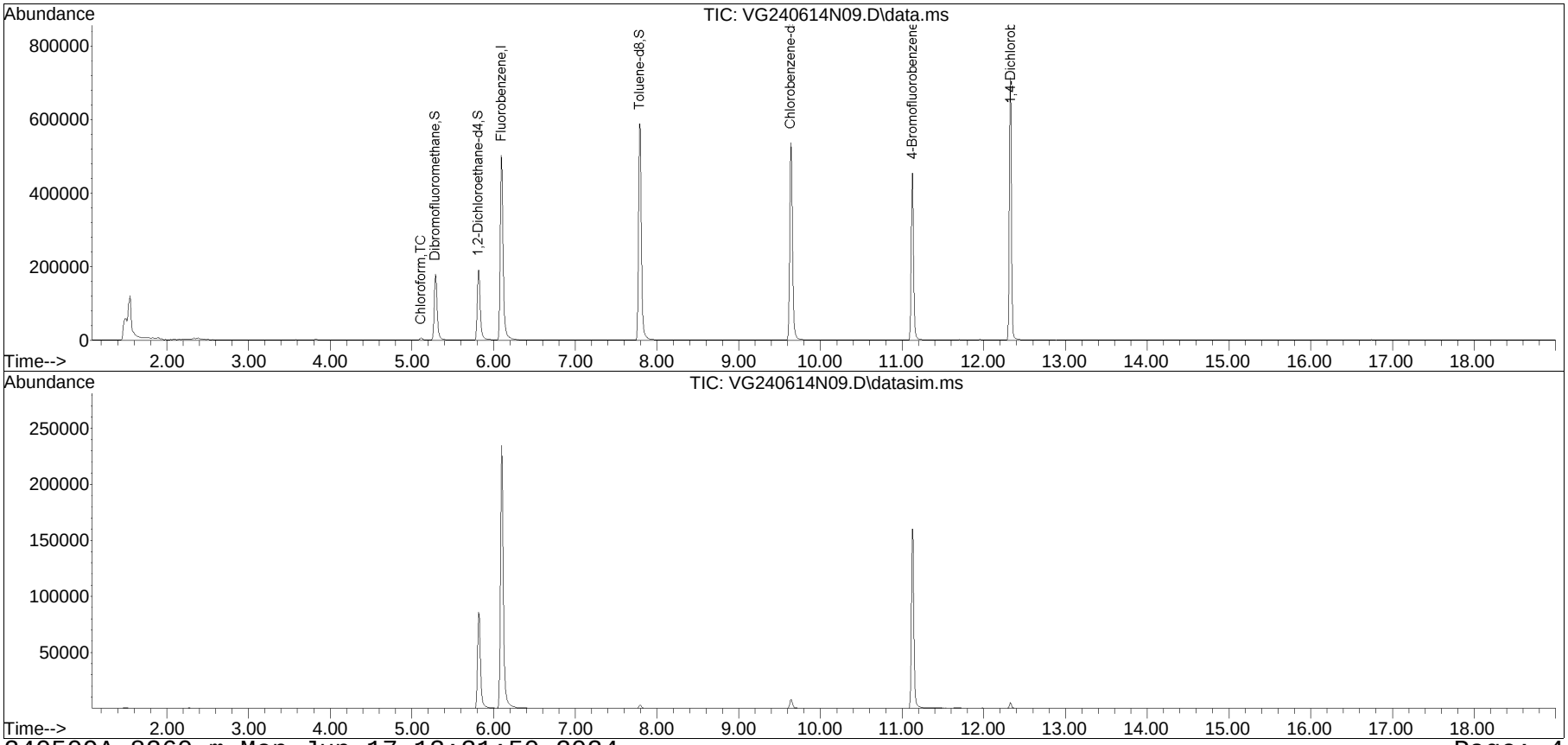
(#) = qualifier out of range (m) = manual integration (+) = signals summed

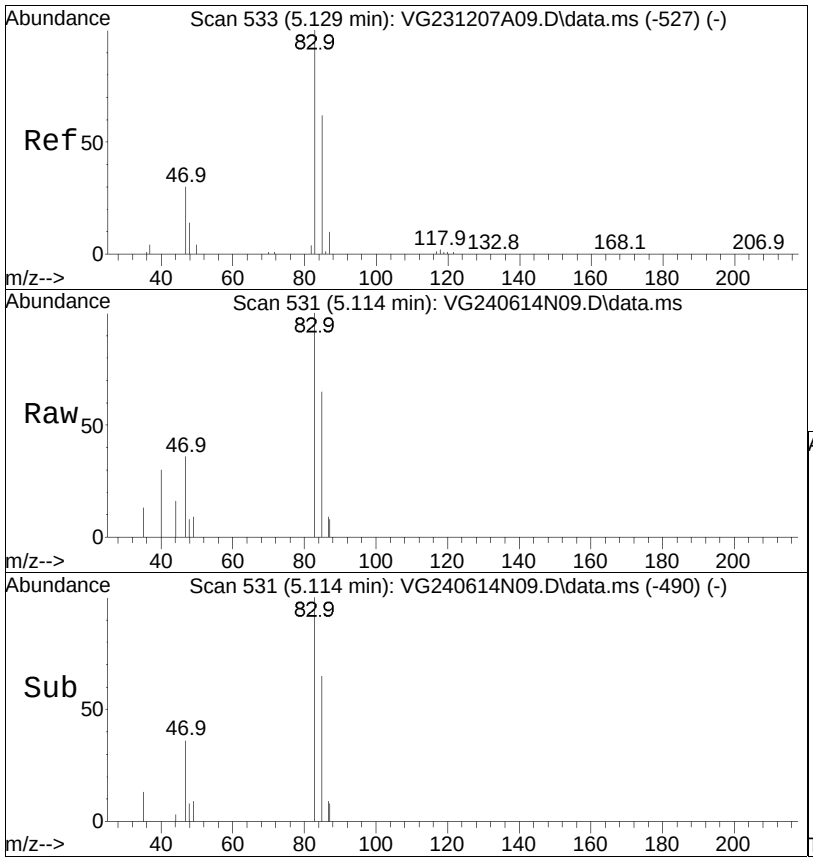
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N09.D
Acq On : 14 Jun 2024 9:28 pm
Operator : GONZO:PID
Sample : L2432633-04,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 17 13:16:37 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

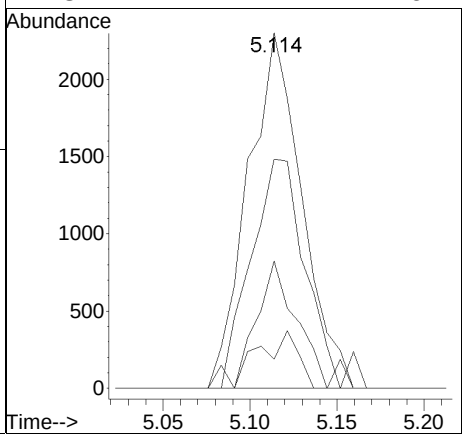




#32
Chloroform
Concen: 0.23 ug/L
RT: 5.114 min Scan# 531
Delta R.T. 0.008 min
Lab File: VG240614N09.D
Acq: 14 Jun 2024 9:28 pm

Tgt Ion: 83 Resp: 4946

Ion	Ratio	Lower	Upper
83	100		
85	66.6	41.4	86.0
47	29.3	15.1	31.3
48	11.7	7.7	16.1



Manual Integration Report

Data Path	: K:\Gonzo\2024\240614N\	QMethod	: G_240509A_8260.m
Data File	: VG240614N09.D	Operator	: GONZO:PID
Date Inj'd	: 6/14/2024 9:28 pm	Instrument	: Gonzo
Sample	: L2432633-04,31,10,10,,A	Quant Date	: 6/17/2024 1:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N10.D
Acq On : 14 Jun 2024 9:52 pm
Operator : GONZO:PID
Sample : L2432633-03,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 17 13:16:53 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	547826	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 85.84%			
59) Chlorobenzene-d5	9.637	117	400605	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 86.37%			
79) 1,4-Dichlorobenzene-d4	12.327	152	199691	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 79.62%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	137407	9.794	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.94%			
43) 1,2-Dichloroethane-d4	5.820	65	171977	10.217	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.17%			
60) Toluene-d8	7.786	98	500389	10.151	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.51%			
83) 4-Bromofluorobenzene	11.126	95	179285	11.164	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.520	85	319	N.D.		
3) Chloromethane	1.877	50	238	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.055	76	881	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	414	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.761	43	299	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N10.D
Acq On : 14 Jun 2024 9:52 pm
Operator : GONZO:PID
Sample : L2432633-03,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 17 13:16:53 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	5.691	78	2028	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	7.786	75	80	N.D.		
61)	Toluene	7.843	92	115	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.662	112	81	N.D.		
74)	Ethylbenzene	9.637	91	797	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

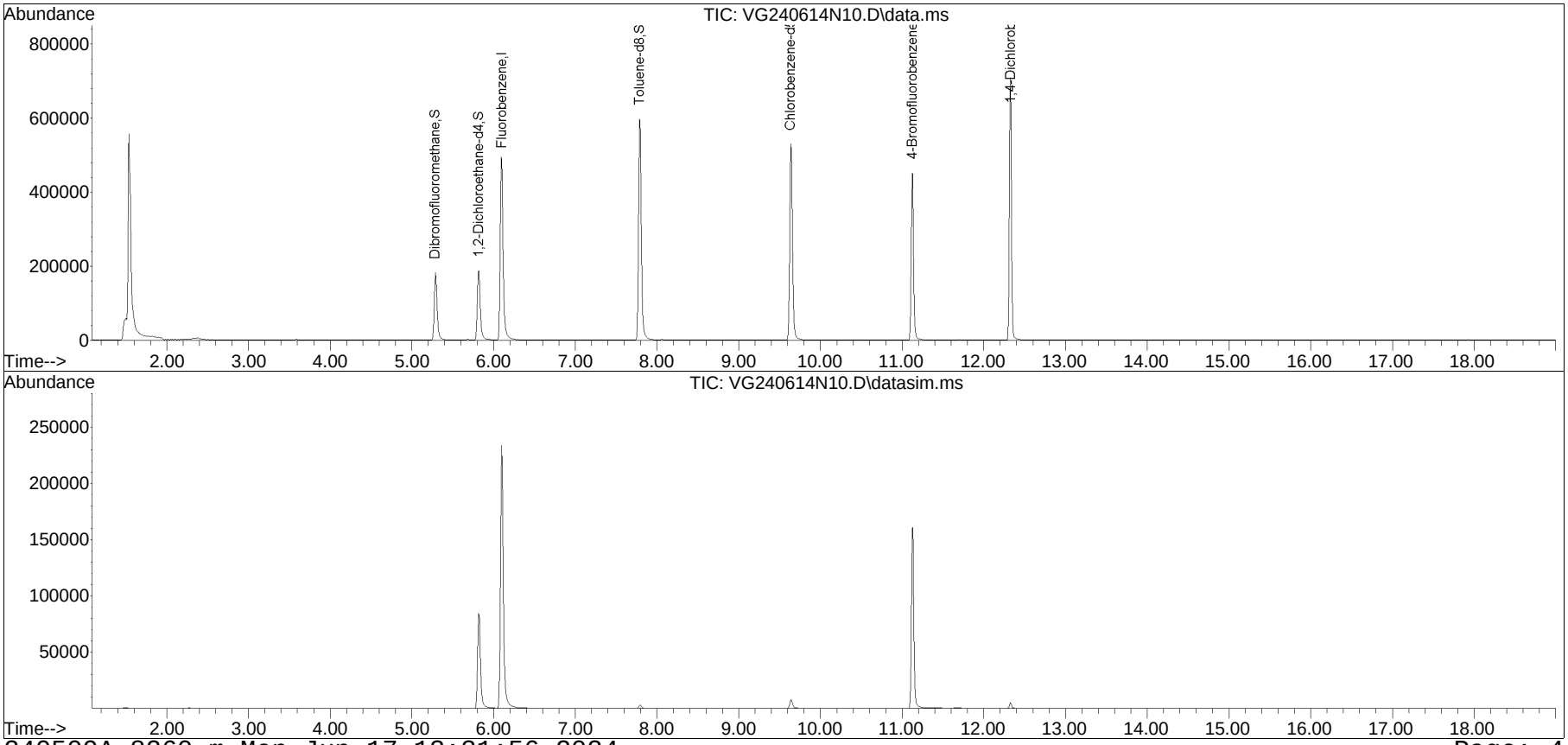
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N10.D
Acq On : 14 Jun 2024 9:52 pm
Operator : GONZO:PID
Sample : L2432633-03,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 17 13:16:53 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\Gonzo\2024\240614N\	QMethod	: G_240509A_8260.m
Data File	: VG240614N10.D	Operator	: GONZO:PID
Date Inj'd	: 6/14/2024 9:52 pm	Instrument	: Gonzo
Sample	: L2432633-03,31,10,10,,A	Quant Date	: 6/17/2024 1:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N11.D
Acq On : 14 Jun 2024 10:16 pm
Operator : GONZO:PID
Sample : L2432633-02,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 13:17:09 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	530005	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 83.05%			
59) Chlorobenzene-d5	9.637	117	381270	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 82.21%			
79) 1,4-Dichlorobenzene-d4	12.327	152	189245	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 75.45%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	134232	9.889	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.89%			
43) 1,2-Dichloroethane-d4	5.813	65	166894	10.248	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.48%			
60) Toluene-d8	7.786	98	484497	10.327	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.27%			
83) 4-Bromofluorobenzene	11.126	95	175161	11.510	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.520	85	93	N.D.		
3) Chloromethane	1.885	50	165	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	2.288	64	72	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.055	76	462	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	632	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	3.815	96	72	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	3.822	73	1005	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.901	96	75	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N11.D
Acq On : 14 Jun 2024 10:16 pm
Operator : GONZO:PID
Sample : L2432633-02,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 13:17:09 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	5.433	43	80	N.D.		
41)	Benzene	5.691	78	94	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.858	92	899	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.645	91	841	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	11.504	83	86	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

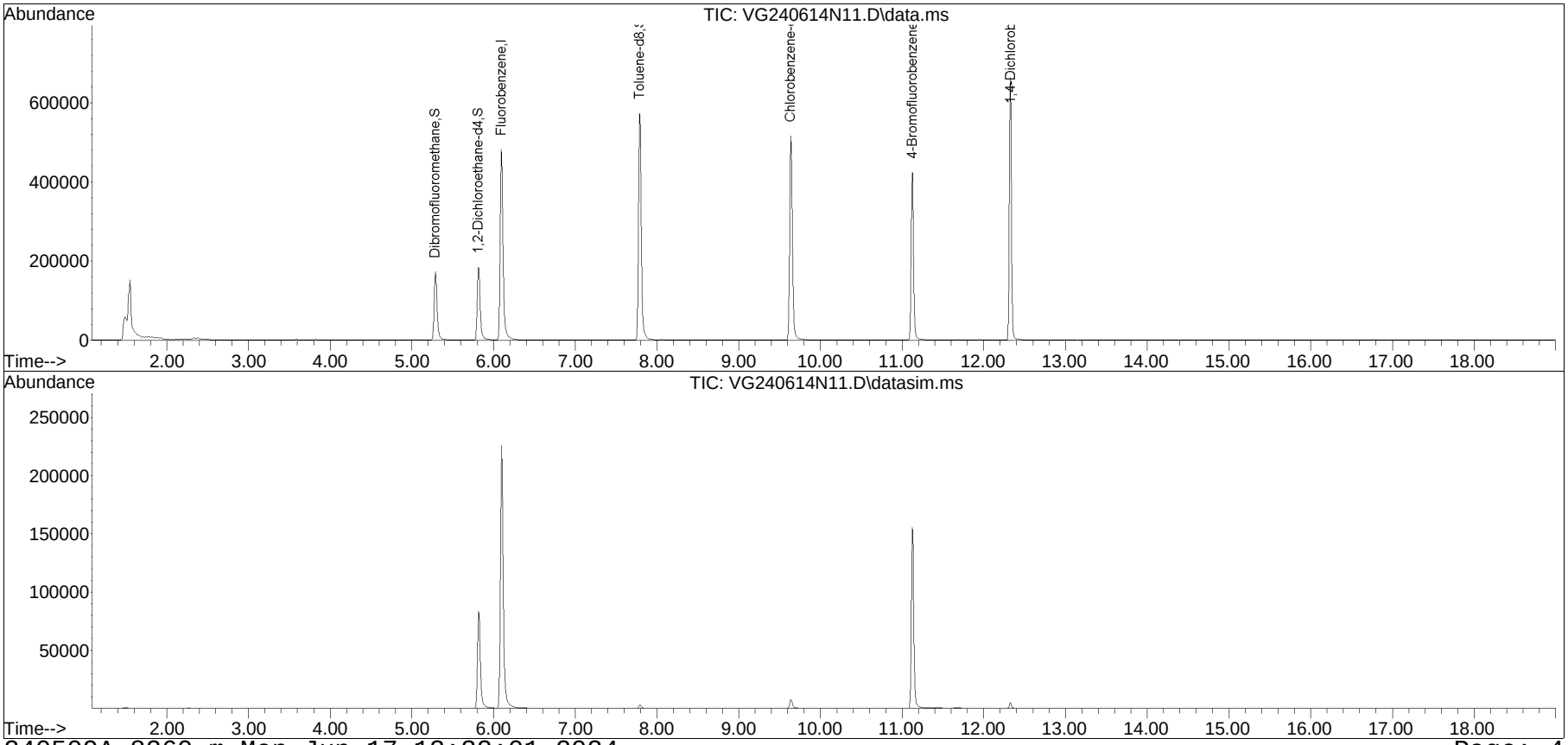
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N11.D
Acq On : 14 Jun 2024 10:16 pm
Operator : GONZO:PID
Sample : L2432633-02,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 13:17:09 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\Gonzo\2024\240614N\	QMethod	: G_240509A_8260.m
Data File	: VG240614N11.D	Operator	: GONZO:PID
Date Inj'd	: 6/14/2024 10:16 pm	Instrument	: Gonzo
Sample	: L2432633-02,31,10,10,,A	Quant Date	: 6/17/2024 1:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N12.D
Acq On : 14 Jun 2024 10:40 pm
Operator : GONZO:PID
Sample : L2432633-01,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 17 13:17:17 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	521609	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 81.73%			
59) Chlorobenzene-d5	9.637	117	380014	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 81.93%			
79) 1,4-Dichlorobenzene-d4	12.327	152	188086	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 74.99%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.289	113	131913	9.875	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.75%			
43) 1,2-Dichloroethane-d4	5.813	65	165447	10.323	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.23%			
60) Toluene-d8	7.787	98	477337	10.208	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.08%			
83) 4-Bromofluorobenzene	11.126	95	171180	11.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	329	N.D.		
3) Chloromethane	1.878	50	249	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	389	Below Cal #		74
6) Chloroethane	2.326	64	87	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.063	76	210	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	472	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.747	43	71	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.917	96	78	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N12.D
Acq On : 14 Jun 2024 10:40 pm
Operator : GONZO:PID
Sample : L2432633-01,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 17 13:17:17 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.137	97	69	N.D.		
39) 2-Butanone	5.441	43	160	N.D.		
41) Benzene	5.691	78	3060	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	7.808	75	65	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.309	166	71	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.637	91	587	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	12.846	146	79	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

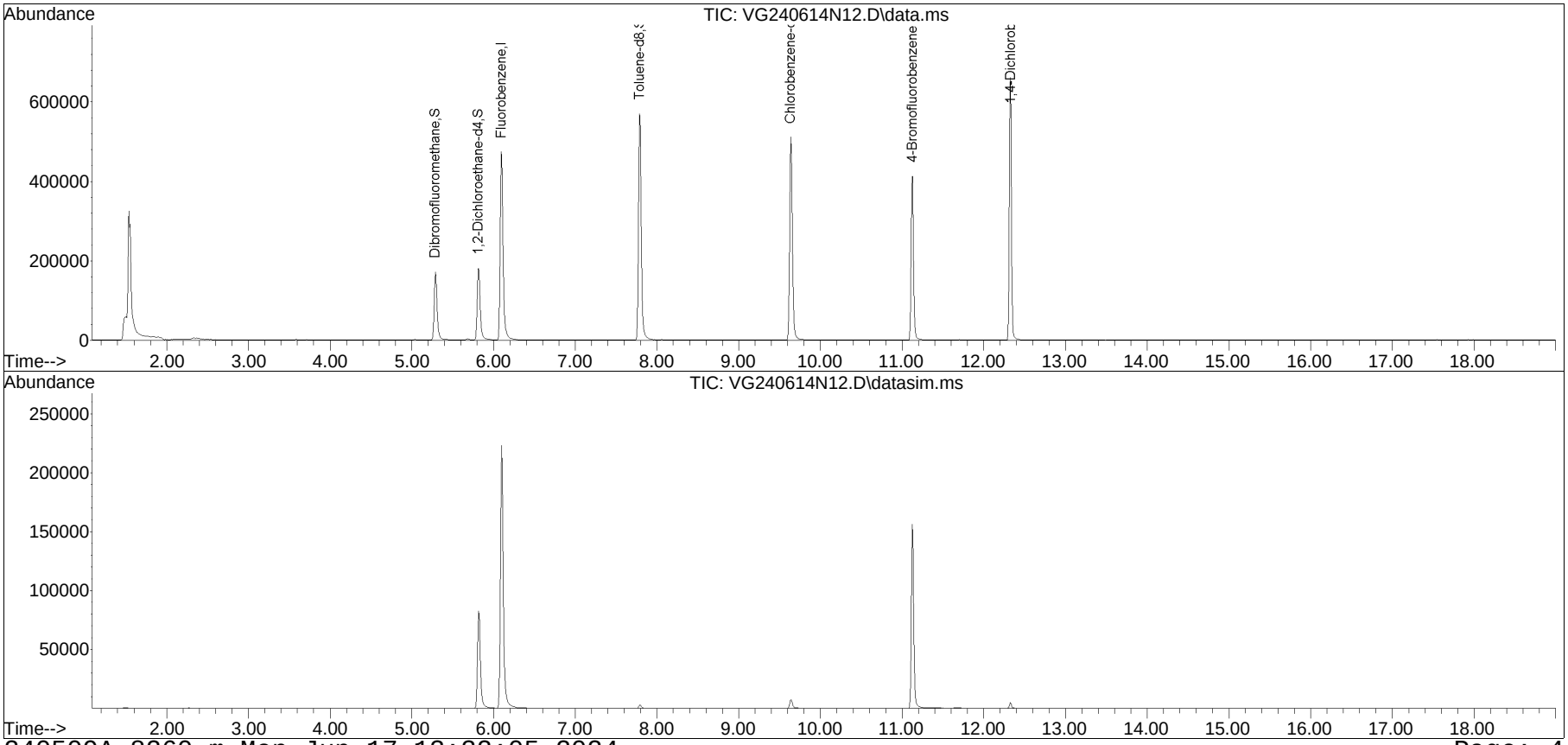
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N12.D
Acq On : 14 Jun 2024 10:40 pm
Operator : GONZO:PID
Sample : L2432633-01,31,10,10,,A
Misc : WG1935361,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 17 13:17:17 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\Gonzo\2024\240614N\	QMethod	: G_240509A_8260.m
Data File	: VG240614N12.D	Operator	: GONZO:PID
Date Inj'd	: 6/14/2024 10:40 pm	Instrument	: Gonzo
Sample	: L2432633-01,31,10,10,,A	Quant Date	: 6/17/2024 1:05 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21111**
Calibration dates	**: 05/09/24 17:50 05/09/24 21:24**		

Calibration Files
L11 =VG240509A03.D L1 =VG240509A05.D L2 =VG240509A07.D L3 =VG240509A08.D L4 =VG240509A09.D
L6 =VG240509A10.D L8 =VG240509A11.D L10 =VG240509A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo			0.192	0.259	0.271	0.280	0.264	0.257	0.254	12.37
3)	TP	Chloromethane		0.245	0.251	0.250	0.248	0.250	0.257	0.251	0.250	1.44
4)	TC	Vinyl chloride	0.243	0.155	0.229	0.268	0.263	0.276	0.291	0.291	0.252	17.79
5)	TP	Bromomethane		0.322	0.251	0.207	0.190	0.190	0.209	0.215	*L	0.9974
6)	TP	Chloroethane		0.157	0.215	0.196	0.192	0.156	0.130		0.174	18.13
7)	TP	Trichlorofluor			0.262	0.338	0.352	0.377	0.382	0.380	0.349	13.22
8)	TP	Ethyl ether		0.088	0.098	0.094	0.092	0.096	0.103	0.106	0.097	6.50
10)	TC	1,1-Dichloroet		0.110	0.154	0.177	0.183	0.197	0.206	0.210	0.177	19.92
11)	TP	Carbon disulfide		0.445	0.490	0.539	0.555	0.593	0.637	0.661	0.560	13.79
12)	TP	Freon-113			0.137	0.190	0.209	0.225	0.220	0.225	0.201	16.94
13)	TP	Iodomethane		0.213	0.199	0.206	0.247	0.276	0.292	0.292	0.246	16.63
14)	TP	Acrolein		0.024	0.024	0.030	0.031	0.032	0.033	0.034	0.030	13.61
15)	TP	Methylene chlo		0.207	0.220	0.204	0.208	0.210	0.226	0.230	0.215	4.78
17)	TP	Acetone		0.075	0.056	0.050	0.049	0.050	0.054	0.054	0.055	16.38
18)	TP	trans-1,2-Dich		0.159	0.188	0.191	0.199	0.207	0.224	0.230	0.200	11.86
19)	TP	Methyl acetate		0.150	0.110	0.099	0.104	0.107	0.114	0.119	0.115	14.78
20)	TP	Methyl tert butyl ether		0.422	0.467	0.490	0.518	0.546	0.598	0.617	0.523	13.39
21)	TP	tert-Butyl alc		0.015	0.014	0.015	0.015	0.017	0.019	0.019	0.016	12.46
22)	TP	Diisopropyl ether		0.537	0.615	0.655	0.703	0.739	0.813	0.837	0.700	15.31
23)	TP	1,1-Dichloroet		0.296	0.392	0.387	0.399	0.417	0.448	0.443	0.398	12.77
24)	TP	Halothane		0.108	0.143	0.157	0.163	0.173	0.181	0.185	0.158	16.75
25)	TP	Acrylonitrile		0.034	0.052	0.053	0.055	0.058	0.062	0.064	0.054	18.02
26)	TP	Ethyl tert-but		0.509	0.565	0.598	0.647	0.700	0.776	0.815	0.658	16.95
27)	TP	Vinyl acetate		0.249	0.255	0.260	0.265	0.258	0.263	0.271	0.260	2.80
28)	TP	cis-1,2-Dichlo		0.221	0.217	0.214	0.225	0.234	0.254	0.261	0.232	7.96
29)	TP	2,2-Dichloropr		0.210	0.258	0.284	0.306	0.329	0.340	0.339	0.295	16.35
30)	TP	Bromochloromet		0.084	0.105	0.102	0.103	0.106	0.114	0.119	0.105	10.47
31)	TP	Cyclohexane			0.254	0.336	0.402	0.448	0.431	0.450	*L	0.9988
32)	TC	Chloroform		0.322	0.359	0.367	0.387	0.397	0.421	0.434	0.384	9.97
33)	TP	Ethyl acetate		0.139	0.136	0.159	0.171	0.177	0.186	0.187	0.165	12.71
34)	TP	Carbon tetrachloride	0.248	0.181	0.308	0.297	0.322	0.343	0.348	0.345	0.299	19.40
35)	TP	Tetrahydrofuran		0.049	0.050	0.052	0.046	0.048	0.051	0.050	0.049	3.40
36)	S	Dibromofluoromethane	0.254	0.256	0.255	0.252	0.259	0.255	0.255	0.263	0.256	1.38
37)	TP	1,1,1-Trichlor		0.203	0.300	0.331	0.349	0.367	0.376	0.376	0.329	18.80
39)	TP	2-Butanone			0.045	0.077	0.076	0.077	0.084	0.081	0.073	19.61

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21111**
Calibration dates	**: 05/09/24 17:50 05/09/24 21:24**		

Calibration Files
L11 =VG240509A03.D L1 =VG240509A05.D L2 =VG240509A07.D L3 =VG240509A08.D L4 =VG240509A09.D
L6 =VG240509A10.D L8 =VG240509A11.D L10 =VG240509A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.174	0.228	0.268	0.287	0.310	0.313	0.313	0.270	19.48
41) TP	Benzene	0.740	0.648	0.782	0.832	0.865	0.904	0.978	1.017	0.846	14.48
42) TP	Tertiary-Amyl Methyl Ether		0.405	0.445	0.492	0.538	0.586	0.645	0.682	0.542	18.89
43) S	1,2-Dichloroethane-d4	0.288	0.297	0.300	0.312	0.306	0.315	0.311	0.329	0.307	4.01
44) TP	1,2-Dichloroet		0.281	0.293	0.289	0.301	0.307	0.329	0.334	0.305	6.64
47) TP	Methyl cyclohe			0.219	0.264	0.342	0.387	0.360	0.389	*L	0.9975
48) TP	Trichloroethene	0.251	0.208	0.230	0.235	0.247	0.266	0.291	0.304	0.254	12.61
50) TP	Dibromomethane		0.120	0.127	0.120	0.124	0.127	0.136	0.137	0.127	5.54
51) TC	1,2-Dichloropr		0.182	0.217	0.215	0.222	0.228	0.242		0.218	9.25
53) TP	2-Chloroethyl		0.074	0.092	0.098	0.111	0.119	0.129	0.131	0.108	19.59
54) TP	Bromodichlorom		0.259	0.290	0.284	0.293	0.304	0.325	0.334	0.298#	8.45
57) TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	6.07
58) TP	cis-1,3-Dichlo		0.262	0.297	0.303	0.326	0.346	0.376	0.389	0.328	13.76
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.251	1.272	1.253	1.276	1.254	1.206	1.194	1.138	1.230	3.86
61) TC	Toluene		0.533	0.654	0.666	0.681	0.706	0.767	0.751	0.680	11.39
62) TP	4-Methyl-2-pen		0.059	0.065	0.071	0.078	0.081	0.090	0.089	0.076	15.50
63) TP	Tetrachloroethene		0.191	0.240	0.258	0.282	0.289	0.301	0.294	0.265	14.77
65) TP	trans-1,3-Dich		0.306	0.336	0.354	0.371	0.383	0.415	0.411	0.368	10.74
67) TP	Ethyl methacry			0.180	0.233	0.260	0.280	0.314	0.313	0.263	19.49
68) TP	1,1,2-Trichlor		0.187	0.188	0.177	0.185	0.187	0.206	0.205	0.191#	5.67
69) TP	Chlorodibromom		0.238	0.280	0.271	0.284	0.293	0.314	0.304	0.283	8.72
70) TP	1,3-Dichloropr		0.348	0.371	0.360	0.367	0.371	0.394	0.375	0.369	3.80
71) TP	1,2-Dibromoethane		0.195	0.220	0.217	0.220	0.219	0.234	0.221	0.218	5.32
72) TP	2-Hexanone		0.085	0.108	0.119	0.136	0.144	0.154	0.143	0.127	19.29
73) TP	Chlorobenzene		0.585	0.742	0.737	0.754	0.794	0.889	0.873	0.768	13.22
74) TC	Ethylbenzene		0.978	1.110	1.216	1.339	1.456	1.604	1.564	1.324	17.75
75) TP	1,1,1,2-Tetrac		0.220	0.259	0.265	0.280	0.292	0.316	0.315	0.278	12.23
76) TP	p/m Xylene		0.339	0.440	0.478	0.535	0.597	0.654	0.641	*Q	0.9982
77) TP	o Xylene		0.348	0.427	0.470	0.527	0.595	0.644	0.621	*Q	0.9978
78) TP	Styrene		0.512	0.691	0.805	0.961	1.083	1.167		*Q	0.9997
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.298	0.300	0.297	0.322	0.346	0.370	0.351	0.326	9.05
82) TP	Isopropylbenzene		1.383	1.812	1.970	2.243	2.465	2.601	2.461	*L	0.9979
83) S	4-Bromofluorobenzene	0.843	0.832	0.849	0.813	0.801	0.763	0.778	0.755	0.804	4.52
84) TP	Bromobenzene		0.567	0.604	0.559	0.559	0.571	0.627	0.608	0.585	4.71

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21111**
Calibration dates	**: 05/09/24 17:50 05/09/24 21:24**		

Calibration Files
L11 =VG240509A03.D L1 =VG240509A05.D L2 =VG240509A07.D L3 =VG240509A08.D L4 =VG240509A09.D
L6 =VG240509A10.D L8 =VG240509A11.D L10 =VG240509A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		1.759	2.218	2.325	2.640	2.880	3.023		2.474	18.90
86) TP	1,4-Dichlorobu		0.567	0.693	0.679	0.700	0.724	0.768	0.726	0.694	9.07
87) TP	1,1,2,2-Tetrac		0.465	0.422	0.440	0.431	0.424	0.452	0.443	0.440	3.48
88) TP	4-Ethyltoluene			1.780	1.966	2.169	2.358	2.542	2.393	2.201	13.02
89) TP	2-Chlorotoluene		1.153	1.469	1.517	1.625	1.698	1.830	1.748	1.577	14.30
90) TP	1,3,5-Trimethy		1.299	1.694	1.788	1.991	2.103	2.258	2.156	1.898	17.47
91) TP	1,2,3-Trichlor		0.397	0.392	0.397	0.421	0.430	0.460	0.432	0.418	5.97
92) TP	trans-1,4-Dich		0.131	0.130	0.140	0.150	0.150	0.159	0.153	0.145	7.78
93) TP	4-Chlorotoluene		1.333	1.570	1.604	1.675	1.746	1.896	1.827	1.664	11.21
94) TP	tert-Butylbenzene		0.967	1.262	1.368	1.566	1.699	1.805	1.722	*Q	0.9983
97) TP	1,2,4-Trimethy		1.222	1.611	1.737	1.944	2.071	2.235	2.134	1.851	19.12
98) TP	sec-Butylbenzene		1.286	1.706	1.893	2.274	2.528	2.580		*Q	0.9991
99) TP	p-Isopropyltol		1.012	1.491	1.684	2.025	2.218	2.306		*Q	0.9994
100) TP	1,3-Dichlorobe		0.921	1.049	1.053	1.104	1.155	1.248	1.215	1.106	10.09
101) TP	1,4-Dichlorobe		1.050	1.136	1.083	1.112	1.146	1.258	1.224	1.144	6.48
102) TP	p-Diethylbenzene			0.878	0.954	1.117	1.248	1.330		1.105	17.25
103) TP	n-Butylbenzene		0.892	1.213	1.355	1.626	1.765	1.813	1.719	*Q	0.9982
104) TP	1,2-Dichlorobe		0.899	0.998	1.005	1.019	1.063	1.151	1.138	1.039	8.43
105) TP	1,2,4,5-Tetram			1.150	1.345	1.493	1.707	1.921	1.882	1.583	19.39
106) TP	1,2-Dibromo-3-		0.076	0.077	0.077	0.073	0.077	0.087	0.085	0.079	6.35
107) TP	1,3,5-Trichlor		0.493	0.635	0.609	0.637	0.676	0.755	0.733	0.648	13.43
108) TP	Hexachlorobuta		0.153	0.162	0.157	0.186	0.191	0.202	0.195	0.178	11.29
109) TP	1,2,4-Trichlor		0.497	0.512	0.522	0.524	0.542	0.613	0.604	0.545	8.40
110) TP	Naphthalene		0.942	0.963	1.116	1.111	1.161	1.339	1.298	1.133	13.32
111) TP	1,2,3-Trichlor		0.431	0.434	0.435	0.431	0.441	0.492	0.471	0.448	5.36

Response Factor Report Gonzo

Method Path : K:\Gonzo\2024\240509AICAL\
Method File : G_240509A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri May 10 11:02:54 2024
Response Via : Initial Calibration

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L6 =VG240509A10.D L8 =VG240509A11.D L10 =VG240509A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.192	0.259	0.271	0.280	0.264	0.257	0.254		12.37
3)	TP	Chloromethane	0.245	0.251	0.250	0.248	0.250	0.257	0.251	0.250		1.44
4)	TC	Vinyl chloride	0.243	0.155	0.229	0.268	0.263	0.276	0.291	0.291	0.252	17.79
5)	TP	Bromomethane		0.322	0.251	0.207	0.190	0.190	0.209	0.215	*L	0.9974
6)	TP	Chloroethane		0.157	0.215	0.196	0.192	0.156	0.130		0.174	18.13
7)	TP	Trichlorofluor...			0.262	0.338	0.352	0.377	0.382	0.380	0.349	13.22
8)	TP	Ethyl ether		0.088	0.098	0.094	0.092	0.096	0.103	0.106	0.097	6.50
10)	TC	1,1-Dichloroet...		0.110	0.154	0.177	0.183	0.197	0.206	0.210	0.177	19.92
11)	TP	Carbon disulfide		0.445	0.490	0.539	0.555	0.593	0.637	0.661	0.560	13.79
12)	TP	Freon-113			0.137	0.190	0.209	0.225	0.220	0.225	0.201	16.94
13)	TP	Iodomethane		0.213	0.199	0.206	0.247	0.276	0.292	0.292	0.246	16.63
14)	TP	Acrolein		0.024	0.024	0.030	0.031	0.032	0.033	0.034	0.030	13.61
15)	TP	Methylene chlo...		0.207	0.220	0.204	0.208	0.210	0.226	0.230	0.215	4.78
17)	TP	Acetone		0.075	0.056	0.050	0.049	0.050	0.054	0.054	0.055	16.38
18)	TP	trans-1,2-Dich...		0.159	0.188	0.191	0.199	0.207	0.224	0.230	0.200	11.86
19)	TP	Methyl acetate		0.150	0.110	0.099	0.104	0.107	0.114	0.119	0.115	14.78
20)	TP	Methyl tert-bu...		0.422	0.467	0.490	0.518	0.546	0.598	0.617	0.523	13.39
21)	TP	tert-Butyl alc...		0.015	0.014	0.015	0.015	0.017	0.019	0.019	0.016	12.46
22)	TP	Diisopropyl ether		0.537	0.615	0.655	0.703	0.739	0.813	0.837	0.700	15.31
23)	TP	1,1-Dichloroet...		0.296	0.392	0.387	0.399	0.417	0.448	0.443	0.398	12.77
24)	TP	Halothane		0.108	0.143	0.157	0.163	0.173	0.181	0.185	0.158	16.75
25)	TP	Acrylonitrile		0.034	0.052	0.053	0.055	0.058	0.062	0.064	0.054	18.02
26)	TP	Ethyl tert-but...		0.509	0.565	0.598	0.647	0.700	0.776	0.815	0.658	16.95
27)	TP	Vinyl acetate		0.249	0.255	0.260	0.265	0.258	0.263	0.271	0.260	2.80
28)	TP	cis-1,2-Dichlo...		0.221	0.217	0.214	0.225	0.234	0.254	0.261	0.232	7.96
29)	TP	2,2-Dichloropr...		0.210	0.258	0.284	0.306	0.329	0.340	0.339	0.295	16.35
30)	TP	Bromochloromet...		0.084	0.105	0.102	0.103	0.106	0.114	0.119	0.105	10.47
31)	TP	Cyclohexane			0.254	0.336	0.402	0.448	0.431	0.450	*L	0.9988
32)	TC	Chloroform		0.322	0.359	0.367	0.387	0.397	0.421	0.434	0.384	9.97
33)	TP	Ethyl acetate		0.139	0.136	0.159	0.171	0.177	0.186	0.187	0.165	12.71

Method Path : K:\Gonzo\2024\240509AICAL\
Method File : G_240509A_8260.m
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Response Via : Initial Calibration

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		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.248	0.181	0.308	0.297	0.322	0.343	0.348	0.345	0.299	19.40
35)	TP	Tetrahydrofuran		0.049	0.050	0.052	0.046	0.048	0.051	0.050	0.049	3.40
36)	S	Dibromofluorom...	0.254	0.256	0.255	0.252	0.259	0.255	0.255	0.263	0.256	1.38
37)	TP	1,1,1-Trichlor...		0.203	0.300	0.331	0.349	0.367	0.376	0.376	0.329	18.80
39)	TP	2-Butanone			0.045	0.077	0.076	0.077	0.084	0.081	0.073	19.61
40)	TP	1,1-Dichloropr...		0.174	0.228	0.268	0.287	0.310	0.313	0.313	0.270	19.48
41)	TP	Benzene	0.740	0.648	0.782	0.832	0.865	0.904	0.978	1.017	0.846	14.48
42)	TP	tert-Amyl meth...		0.405	0.445	0.492	0.538	0.586	0.645	0.682	0.542	18.89
43)	S	1,2-Dichloroet...	0.288	0.297	0.300	0.312	0.306	0.315	0.311	0.329	0.307	4.01
44)	TP	1,2-Dichloroet...		0.281	0.293	0.289	0.301	0.307	0.329	0.334	0.305	6.64
47)	TP	Methyl cyclohe...			0.219	0.264	0.342	0.387	0.360	0.389	*L	0.9975
48)	TP	Trichloroethene	0.251	0.208	0.230	0.235	0.247	0.266	0.291	0.304	0.254	12.61
50)	TP	Dibromomethane		0.120	0.127	0.120	0.124	0.127	0.136	0.137	0.127	5.54
51)	TC	1,2-Dichloropr...		0.182	0.217	0.215	0.222	0.228	0.242		0.218	9.25
53)	TP	2-Chloroethyl ...		0.074	0.092	0.098	0.111	0.119	0.129	0.131	0.108	19.59
54)	TP	Bromodichlorom...		0.259	0.290	0.284	0.293	0.304	0.325	0.334	0.298#	8.45
57)	TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	6.07
58)	TP	cis-1,3-Dichlo...		0.262	0.297	0.303	0.326	0.346	0.376	0.389	0.328	13.76
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.251	1.272	1.253	1.276	1.254	1.206	1.194	1.138	1.230	3.86
61)	TC	Toluene		0.533	0.654	0.666	0.681	0.706	0.767	0.751	0.680	11.39
62)	TP	4-Methyl-2-pen...		0.059	0.065	0.071	0.078	0.081	0.090	0.089	0.076	15.50
63)	TP	Tetrachloroethene		0.191	0.240	0.258	0.282	0.289	0.301	0.294	0.265	14.77
65)	TP	trans-1,3-Dich...		0.306	0.336	0.354	0.371	0.383	0.415	0.411	0.368	10.74
67)	TP	Ethyl methacry...			0.180	0.233	0.260	0.280	0.314	0.313	0.263	19.49
68)	TP	1,1,2-Trichlor...		0.187	0.188	0.177	0.185	0.187	0.206	0.205	0.191#	5.67
69)	TP	Chlorodibromom...		0.238	0.280	0.271	0.284	0.293	0.314	0.304	0.283	8.72
70)	TP	1,3-Dichloropr...		0.348	0.371	0.360	0.367	0.371	0.394	0.375	0.369	3.80
71)	TP	1,2-Dibromoethane		0.195	0.220	0.217	0.220	0.219	0.234	0.221	0.218	5.32
72)	TP	2-Hexanone		0.085	0.108	0.119	0.136	0.144	0.154	0.143	0.127	19.29
73)	TP	Chlorobenzene		0.585	0.742	0.737	0.754	0.794	0.889	0.873	0.768	13.22

Method Path : K:\Gonzo\2024\240509AICAL\
Method File : G_240509A_8260.m
Title : VOLATILES BY GC/MS
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L6 =VG240509A10.D L8 =VG240509A11.D L10 =VG240509A12.D

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC	Ethylbenzene		0.978	1.110	1.216	1.339	1.456	1.604	1.564	1.324	17.75	
75)	TP	1,1,1,2-Tetrac...		0.220	0.259	0.265	0.280	0.292	0.316	0.315	0.278	12.23	
76)	TP	p/m Xylene		0.339	0.440	0.478	0.535	0.597	0.654	0.641	*Q	0.9982	
77)	TP	o Xylene		0.348	0.427	0.470	0.527	0.595	0.644	0.621	*Q	0.9978	
78)	TP	Styrene		0.512	0.691	0.805	0.961	1.083	1.167		*Q	0.9997	
79)	I	1,4-Dichlorobenzene-d4		----------ISTD----------									
80)	TP	Bromoform		0.298	0.300	0.297	0.322	0.346	0.370	0.351	0.326	9.05	
82)	TP	Isopropylbenzene		1.383	1.812	1.970	2.243	2.465	2.601	2.461	*L	0.9979	
83)	S	4-Bromofluorob...	0.843	0.832	0.849	0.813	0.801	0.763	0.778	0.755	0.804	4.52	
84)	TP	Bromobenzene		0.567	0.604	0.559	0.559	0.571	0.627	0.608	0.585	4.71	
85)	TP	n-Propylbenzene		1.759	2.218	2.325	2.640	2.880	3.023		2.474	18.90	
86)	TP	1,4-Dichlorobu...		0.567	0.693	0.679	0.700	0.724	0.768	0.726	0.694	9.07	
87)	TP	1,1,2,2-Tetrac...		0.465	0.422	0.440	0.431	0.424	0.452	0.443	0.440	3.48	
88)	TP	4-Ethyltoluene			1.780	1.966	2.169	2.358	2.542	2.393	2.201	13.02	
89)	TP	2-Chlorotoluene		1.153	1.469	1.517	1.625	1.698	1.830	1.748	1.577	14.30	
90)	TP	1,3,5-Trimethy...		1.299	1.694	1.788	1.991	2.103	2.258	2.156	1.898	17.47	
91)	TP	1,2,3-Trichlor...		0.397	0.392	0.397	0.421	0.430	0.460	0.432	0.418	5.97	
92)	TP	trans-1,4-Dich...		0.131	0.130	0.140	0.150	0.150	0.159	0.153	0.145	7.78	
93)	TP	4-Chlorotoluene		1.333	1.570	1.604	1.675	1.746	1.896	1.827	1.664	11.21	
94)	TP	tert-Butylbenzene		0.967	1.262	1.368	1.566	1.699	1.805	1.722	*Q	0.9983	
97)	TP	1,2,4-Trimethy...		1.222	1.611	1.737	1.944	2.071	2.235	2.134	1.851	19.12	
98)	TP	sec-Butylbenzene		1.286	1.706	1.893	2.274	2.528	2.580		*Q	0.9991	
99)	TP	p-Isopropyltol...		1.012	1.491	1.684	2.025	2.218	2.306		*Q	0.9994	
100)	TP	1,3-Dichlorobe...		0.921	1.049	1.053	1.104	1.155	1.248	1.215	1.106	10.09	
101)	TP	1,4-Dichlorobe...		1.050	1.136	1.083	1.112	1.146	1.258	1.224	1.144	6.48	
102)	TP	p-Diethylbenzene			0.878	0.954	1.117	1.248	1.330		1.105	17.25	
103)	TP	n-Butylbenzene		0.892	1.213	1.355	1.626	1.765	1.813	1.719	*Q	0.9982	
104)	TP	1,2-Dichlorobe...		0.899	0.998	1.005	1.019	1.063	1.151	1.138	1.039	8.43	
105)	TP	1,2,4,5-Tetram...			1.150	1.345	1.493	1.707	1.921	1.882	1.583	19.39	
106)	TP	1,2-Dibromo-3-...		0.076	0.077	0.077	0.073	0.077	0.087	0.085	0.079	6.35	
107)	TP	1,3,5-Trichlor...		0.493	0.635	0.609	0.637	0.676	0.755	0.733	0.648	13.43	

Method Path : K:\Gonzo\2024\240509AICAL\
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L6 =VG240509A10.D L8 =VG240509A11.D L10 =VG240509A12.D

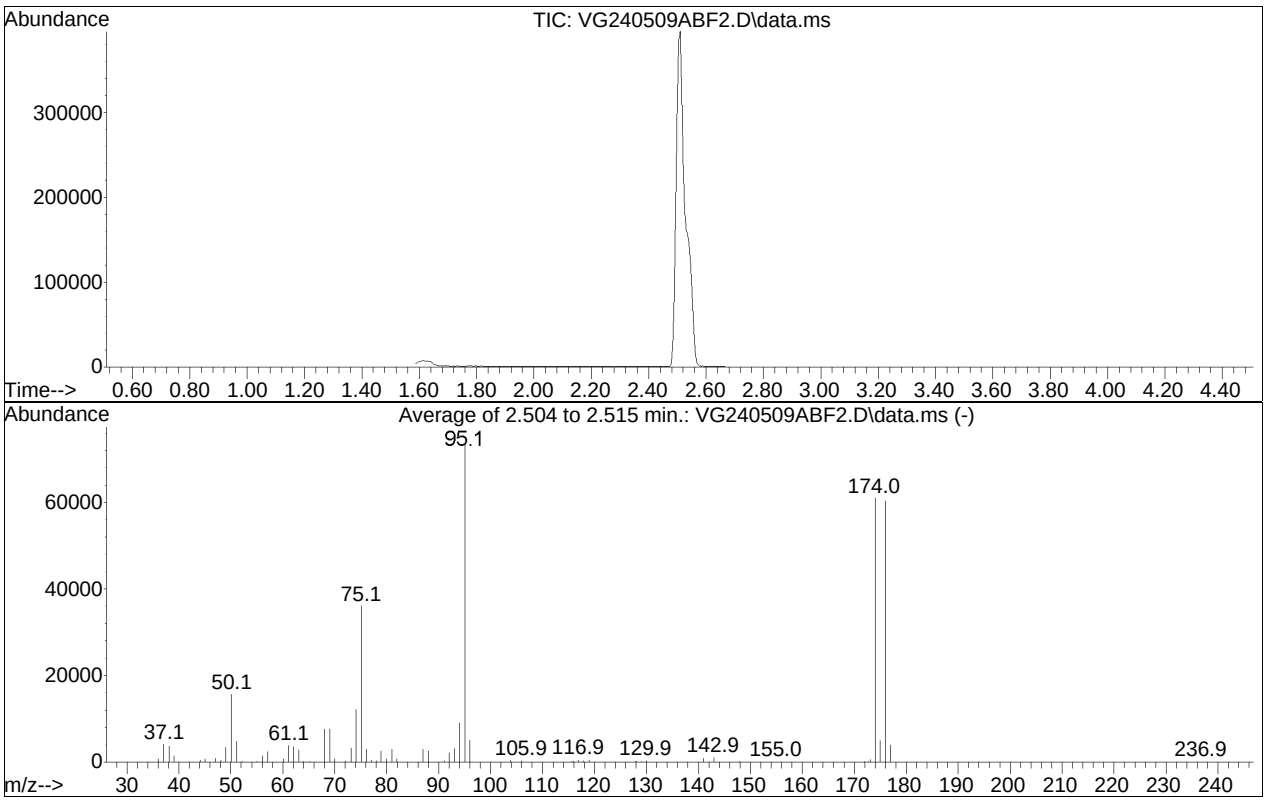
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.153	0.162	0.157	0.186	0.191	0.202	0.195	0.178	11.29	
109)	TP 1,2,4-Trichlor...	0.497	0.512	0.522	0.524	0.542	0.613	0.604	0.545	8.40	
110)	TP Naphthalene	0.942	0.963	1.116	1.111	1.161	1.339	1.298	1.133	13.32	
111)	TP 1,2,3-Trichlor...	0.431	0.434	0.435	0.431	0.441	0.492	0.471	0.448	5.36	

(#) = Out of Range

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509ABF2.D
Acq On : 9 May 2024 4:44 pm
Operator : GONZO:PID
Sample : WG1919586-1
Misc : WG1919586
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri May 10 11:02:54 2024



AutoFind: Scans 176, 177, 178; Background Corrected with Scan 168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	15626	PASS
75	95	30	60	49.0	36179	PASS
95	95	100	100	100.0	73800	PASS
96	95	5	9	6.9	5068	PASS
173	174	0.00	2	0.9	551	PASS
174	95	50	100	82.8	61093	PASS
175	174	5	9	8.1	4972	PASS
176	174	95	101	98.7	60272	PASS
177	176	5	9	6.5	3923	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A03.D
Acq On : 9 May 2024 5:50 pm
Operator : GONZO:PID
Sample : I8260STD0.19PPB
Misc : WG1919586,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 10:47:19 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	473952	10.000	ug/L	0.00
Standard Area 1 = 481966			Recovery = 98.34%			
59) Chlorobenzene-d5	9.637	117	365019	10.000	ug/L	0.00
Standard Area 1 = 376675			Recovery = 96.91%			
79) 1,4-Dichlorobenzene-d4	12.319	152	197390	10.000	ug/L	0.00
Standard Area 1 = 214818			Recovery = 91.89%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.289	113	120180	9.901	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.01%			
43) 1,2-Dichloroethane-d4	5.813	65	136608	9.381	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.81%			
60) Toluene-d8	7.786	98	456715	10.169	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.69%			
83) 4-Bromofluorobenzene	11.118	95	166344	10.479	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.79%			
Target Compounds						Qvalue
4) Vinyl chloride	1.946	62	2188	0.183	ug/L	90
34) Carbon tetrachloride	5.243	117	2230	0.157	ug/L	93
41) Benzene	5.684	78	6666	0.166	ug/L #	85
48) Trichloroethene	6.276	95	2264	0.188	ug/L	86

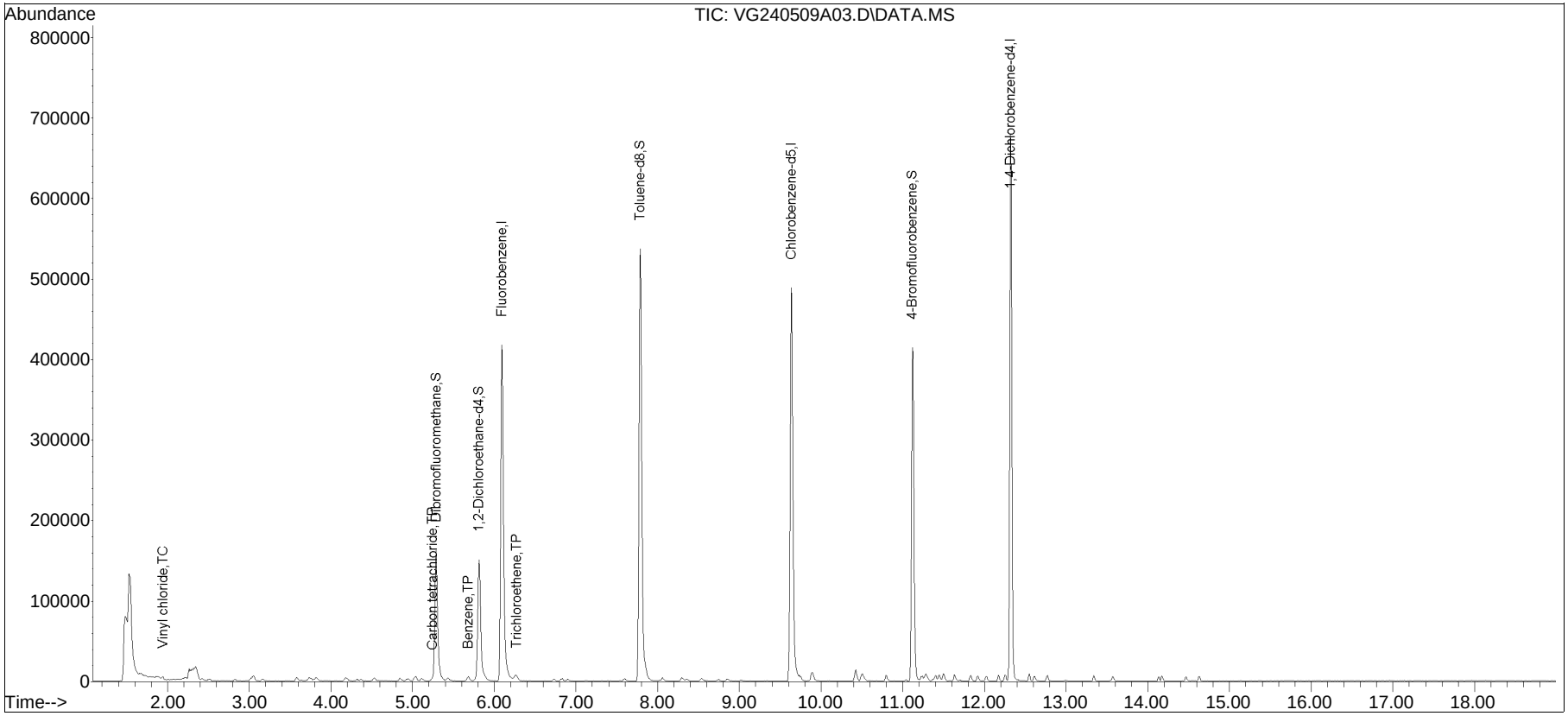
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A03.D
Acq On : 9 May 2024 5:50 pm
Operator : GONZO:PID
Sample : I8260STD0.19PPB
Misc : WG1919586,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 10:47:19 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product8.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240509AICAL\	QMethod	: G_240509A_8260.m
Data File	: VG240509A03.D	Operator	: GONZO:PID
Date Inj'd	: 5/9/2024 5:50 pm	Instrument	: Gonzo
Sample	: I8260STD0.19PPB	Quant Date	: 5/10/2024 10:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A05.D
Acq On : 9 May 2024 6:37 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1919586,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 10:47:25 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.094	96	463955	10.000 ug/L	0.00
Standard Area 1 = 481966			Recovery = 96.26%		
59) Chlorobenzene-d5	9.637	117	357539	10.000 ug/L	0.00
Standard Area 1 = 376675			Recovery = 94.92%		
79) 1,4-Dichlorobenzene-d4	12.319	152	194029	10.000 ug/L	0.00
Standard Area 1 = 214818			Recovery = 90.32%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.288	113	118729	9.992 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%		
43) 1,2-Dichloroethane-d4	5.813	65	137913	9.674 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.74%		
60) Toluene-d8	7.786	98	454802	10.338 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.38%		
83) 4-Bromofluorobenzene	11.126	95	161466	10.348 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.48%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.672	85	2736	0.252 ug/L	96
3) Chloromethane	1.892	50	5676	0.489 ug/L #	91
4) Vinyl chloride	1.946	62	3597	0.308 ug/L	91
5) Bromomethane	2.265	94	7480	0.712 ug/L	88
6) Chloroethane	2.363	64	3649	0.482 ug/L	79
7) Trichlorofluoromethane	2.515	101	4009	0.267 ug/L	93
8) Ethyl ether	2.827	74	2040	0.455 ug/L #	79
10) 1,1-Dichloroethene	3.017	96	2549	0.311 ug/L	91
11) Carbon disulfide	3.055	76	10326	0.398 ug/L	97
12) Freon-113	3.047	101	2006	0.234 ug/L #	1
13) Iodomethane	3.169	142	4935	0.432 ug/L	97
14) Acrolein	3.374	56	557	0.402 ug/L #	35
15) Methylene chloride	3.587	84	4791	0.480 ug/L	80
17) Acetone	3.655	43	1741	0.678 ug/L #	57
18) trans-1,2-Dichloroethene	3.738	96	3699	0.399 ug/L	92
19) Methyl acetate	3.754	43	3485	0.655 ug/L #	88
20) Methyl tert-butyl ether	3.822	73	9792	0.404 ug/L #	55
21) tert-Butyl alcohol	3.921	59	1732	2.316 ug/L #	81
22) Diisopropyl ether	4.187	45	12455	0.384 ug/L #	88
23) 1,1-Dichloroethane	4.323	63	6867	0.372 ug/L	99
24) Halothane	4.369	117	2499	0.340 ug/L	99

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A05.D
Acq On : 9 May 2024 6:37 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1919586,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 10:47:25 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.422	53	798	0.318	ug/L	#	73
26) Ethyl tert-butyl ether	4.529	59	11818	0.387	ug/L	#	68
27) Vinyl acetate	4.574	43	5767M3	0.478	ug/L		
28) cis-1,2-Dichloroethene	4.848	96	5122	0.475	ug/L		90
29) 2,2-Dichloropropane	4.939	77	4873	0.356	ug/L		91
30) Bromochloromethane	5.045	128	1960	0.403	ug/L	#	58
31) Cyclohexane	5.030	56	3998	0.242	ug/L		83
32) Chloroform	5.114	83	7465	0.419	ug/L	#	92
33) Ethyl acetate	5.243	43	3218	0.421	ug/L	#	69
34) Carbon tetrachloride	5.228	117	4210	0.303	ug/L		91
35) Tetrahydrofuran	5.281	42	1135	0.495	ug/L	#	44
37) 1,1,1-Trichloroethane	5.303	97	4709	0.309	ug/L	#	87
39) 2-Butanone	0.000		0	N.D.	d		
40) 1,1-Dichloropropene	5.433	75	4029	0.321	ug/L		99
41) Benzene	5.676	78	15031	0.383	ug/L		92
42) tert-Amyl methyl ether	5.767	73	9388	0.373	ug/L	#	83
44) 1,2-Dichloroethane	5.881	62	6511	0.460	ug/L		88
47) Methyl cyclohexane	6.261	83	3886	0.275	ug/L	#	74
48) Trichloroethene	6.268	95	4822	0.409	ug/L		91
50) Dibromomethane	6.732	93	2777	0.470	ug/L		94
51) 1,2-Dichloropropane	6.815	63	4219	0.409	ug/L		94
53) 2-Chloroethyl vinyl ether	7.543	63	1708	0.342	ug/L	#	27
54) Bromodichloromethane	6.899	83	6006	0.434	ug/L	#	96
57) 1,4-Dioxane	7.106	88	8591	98.708	ug/L		91
58) cis-1,3-Dichloropropene	7.593	75	6076	0.399	ug/L		94
61) Toluene	7.843	92	9520	0.392	ug/L		99
62) 4-Methyl-2-pentanone	8.295	58	1054	0.388	ug/L	#	30
63) Tetrachloroethene	8.295	166	3413	0.360	ug/L		91
65) trans-1,3-Dichloropropene	8.352	75	5466	0.415	ug/L		91
67) Ethyl methacrylate	8.531	69	2790	0.314	ug/L	#	67
68) 1,1,2-Trichloroethane	8.531	83	3351	0.491	ug/L		95
69) Chlorodibromomethane	8.739	129	4250	0.420	ug/L		93
70) 1,3-Dichloropropane	8.853	76	6213	0.470	ug/L		94
71) 1,2-Dibromoethane	9.018	107	3481	0.447	ug/L		100
72) 2-Hexanone	9.319	43	1511	0.333	ug/L	#	72
73) Chlorobenzene	9.653	112	10450	0.381	ug/L	#	67
74) Ethylbenzene	9.703	91	17482	0.369	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.744	131	3926	0.395	ug/L	#	62
76) p/m Xylene	9.892	106	12126	0.644	ug/L		99
77) o Xylene	10.418	106	12445	0.671	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A05.D
Acq On : 9 May 2024 6:37 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1919586,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 10:47:25 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.492	104	18290	0.580	ug/L		100
80) Bromoform	10.517	173	2892	0.457	ug/L		99
82) Isopropylbenzene	10.797	105	13413	0.324	ug/L		96
84) Bromobenzene	11.233	156	5497	0.484	ug/L		92
85) n-Propylbenzene	11.274	91	17060	0.353	ug/L		96
86) 1,4-Dichlorobutane	11.299	55	5504	0.409	ug/L		92
87) 1,1,2,2-Tetrachloroethane	11.373	83	4511	0.529	ug/L		83
88) 4-Ethyltoluene	11.406	105	12953	0.321	ug/L		100
89) 2-Chlorotoluene	11.447	91	11184M6	0.365	ug/L		
90) 1,3,5-Trimethylbenzene	11.496	105	12598	0.342	ug/L		95
91) 1,2,3-Trichloropropane	11.504	75	3848	0.474	ug/L		96
92) trans-1,4-Dichloro-2-b...	11.562	53	1270	0.452	ug/L	#	88
93) 4-Chlorotoluene	11.628	91	12935	0.401	ug/L		98
94) tert-Butylbenzene	11.833	119	9377	0.326	ug/L		98
97) 1,2,4-Trimethylbenzene	11.916	105	11854	0.330	ug/L		96
98) sec-Butylbenzene	12.023	105	12480	0.308	ug/L		95
99) p-Isopropyltoluene	12.171	119	9814	0.275	ug/L		96
100) 1,3-Dichlorobenzene	12.253	146	8932	0.416	ug/L		97
101) 1,4-Dichlorobenzene	12.335	146	10187	0.459	ug/L	#	85
102) p-Diethylbenzene	12.541	119	6025	0.293	ug/L		97
103) n-Butylbenzene	12.607	91	8653	0.301	ug/L		95
104) 1,2-Dichlorobenzene	12.763	146	8718	0.432	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.339	119	8265	0.288	ug/L	#	91
106) 1,2-Dibromo-3-chloropr...	13.544	155	737	0.482	ug/L		97
107) 1,3,5-Trichlorobenzene	13.569	180	4778	0.380	ug/L		91
108) Hexachlorobutadiene	14.137	225	1485	0.430	ug/L		91
109) 1,2,4-Trichlorobenzene	14.170	180	4818	0.456	ug/L	#	95
110) Naphthalene	14.466	128	9135	0.416	ug/L		100
111) 1,2,3-Trichlorobenzene	14.630	180	4185	0.482	ug/L		92

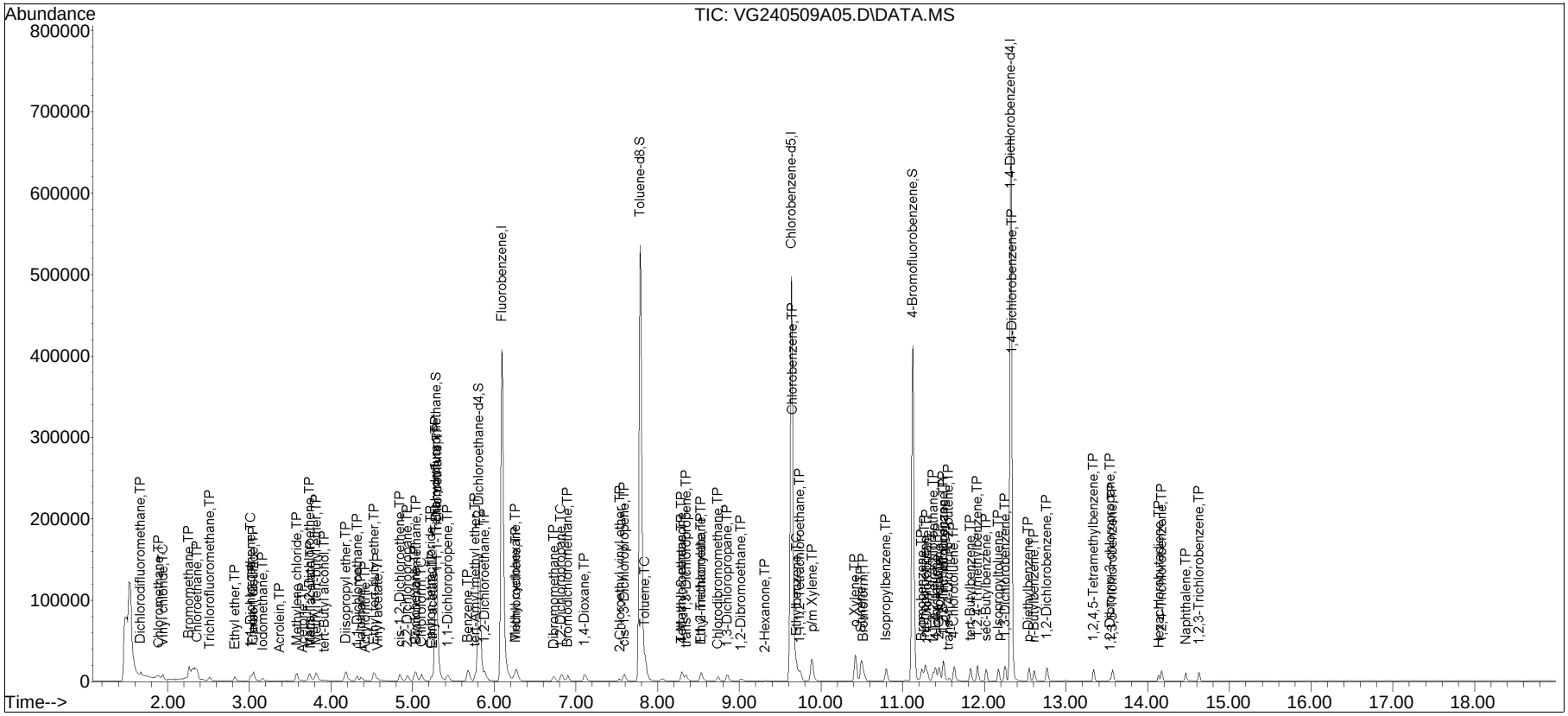
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A05.D
Acq On : 9 May 2024 6:37 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1919586,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 10:47:25 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

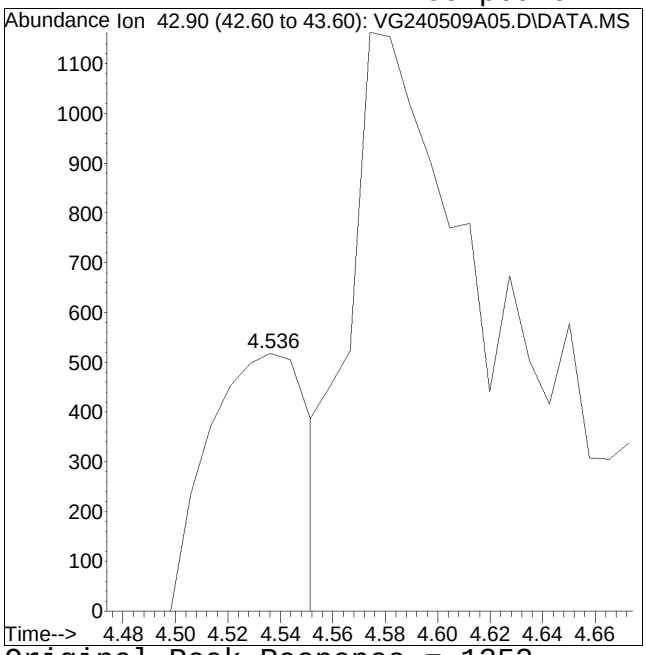
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•

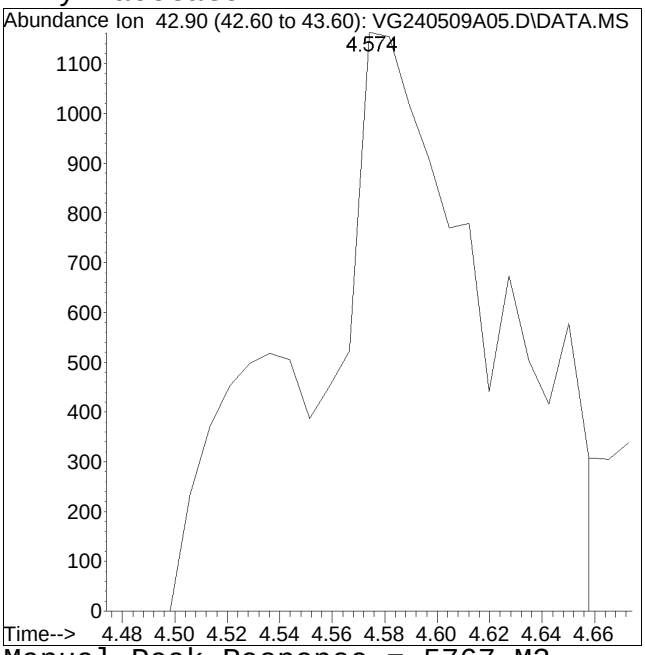


Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A05.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 6:37 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 5/10/2024 10:47 am

Compound #27: Vinyl acetate





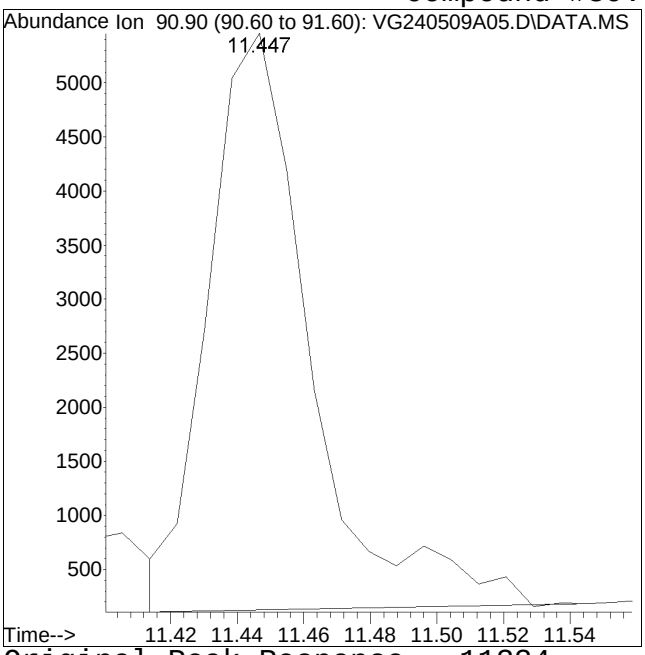
Original Peak Response = 1352 Manual Peak Response = 5767 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

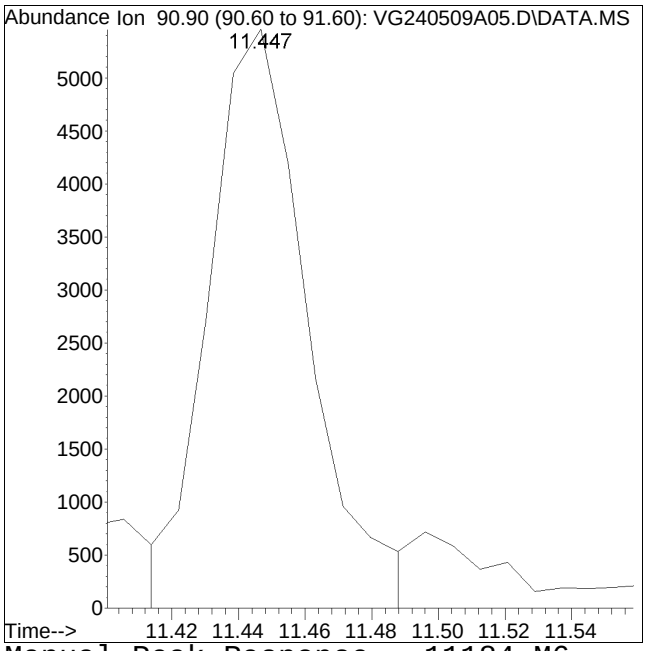
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A05.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 6:37 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 5/10/2024 10:47 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 11334



Manual Peak Response = 11184 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A07.D
Acq On : 9 May 2024 7:25 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1919586,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 10:47:33 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.094	96	468243	10.000 ug/L	0.00
Standard Area 1 = 481966			Recovery = 97.15%		
59) Chlorobenzene-d5	9.637	117	365499	10.000 ug/L	0.00
Standard Area 1 = 376675			Recovery = 97.03%		
79) 1,4-Dichlorobenzene-d4	12.319	152	197747	10.000 ug/L	0.00
Standard Area 1 = 214818			Recovery = 92.05%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.289	113	119460	9.962 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.62%		
43) 1,2-Dichloroethane-d4	5.813	65	140691	9.779 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.79%		
60) Toluene-d8	7.786	98	458024	10.184 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.84%		
83) 4-Bromofluorobenzene	11.118	95	167937	10.561 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.61%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.672	85	17999	1.639 ug/L	97
3) Chloromethane	1.885	50	23477	2.004 ug/L	95
4) Vinyl chloride	1.946	62	21407	1.814 ug/L	97
5) Bromomethane	2.257	94	23487	2.216 ug/L	97
6) Chloroethane	2.364	64	20090	2.631 ug/L	92
7) Trichlorofluoromethane	2.516	101	24506	1.618 ug/L	93
8) Ethyl ether	2.820	74	9216	2.036 ug/L #	89
10) 1,1-Dichloroethene	3.017	96	14379	1.738 ug/L	86
11) Carbon disulfide	3.047	76	45849	1.749 ug/L	100
12) Freon-113	3.055	101	12839	1.485 ug/L #	45
13) Iodomethane	3.161	142	18592	1.612 ug/L	99
14) Acrolein	3.359	56	2284	1.635 ug/L	89
15) Methylene chloride	3.579	84	20642	2.049 ug/L	81
17) Acetone	3.632	43	5220	2.013 ug/L	98
18) trans-1,2-Dichloroethene	3.731	96	17604	1.881 ug/L	90
19) Methyl acetate	3.754	43	10263	1.912 ug/L	95
20) Methyl tert-butyl ether	3.822	73	43777	1.789 ug/L #	84
21) tert-Butyl alcohol	3.914	59	6680	8.852 ug/L	99
22) Diisopropyl ether	4.172	45	57598	1.758 ug/L	90
23) 1,1-Dichloroethane	4.316	63	36676	1.970 ug/L	98
24) Halothane	4.369	117	13406	1.807 ug/L	99

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A07.D
Acq On : 9 May 2024 7:25 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1919586,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 10:47:33 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.385	53	4829	1.910	ug/L		94
26) Ethyl tert-butyl ether	4.529	59	52866	1.715	ug/L		87
27) Vinyl acetate	4.559	43	23861M6	1.958	ug/L		
28) cis-1,2-Dichloroethene	4.840	96	20303	1.866	ug/L		95
29) 2,2-Dichloropropane	4.939	77	24154	1.747	ug/L		94
30) Bromochloromethane	5.038	128	9867	2.009	ug/L	#	78
31) Cyclohexane	5.030	56	23773	1.425	ug/L		77
32) Chloroform	5.106	83	33644	1.872	ug/L	#	90
33) Ethyl acetate	5.228	43	12774	1.654	ug/L		97
34) Carbon tetrachloride	5.235	117	28867	2.061	ug/L		82
35) Tetrahydrofuran	5.258	42	4665	2.016	ug/L	#	74
37) 1,1,1-Trichloroethane	5.304	97	28130	1.826	ug/L		93
39) 2-Butanone	5.418	43	4170	1.218	ug/L		93
40) 1,1-Dichloropropene	5.425	75	21349	1.686	ug/L		99
41) Benzene	5.676	78	73269	1.850	ug/L	#	93
42) tert-Amyl methyl ether	5.775	73	41694	1.643	ug/L	#	84
44) 1,2-Dichloroethane	5.881	62	27403	1.920	ug/L		89
47) Methyl cyclohexane	6.253	83	20538	1.442	ug/L	#	81
48) Trichloroethene	6.276	95	21516	1.808	ug/L		99
50) Dibromomethane	6.725	93	11879	1.994	ug/L		96
51) 1,2-Dichloropropane	6.816	63	20350	1.955	ug/L		99
53) 2-Chloroethyl vinyl ether	7.521	63	8569	1.702	ug/L	#	95
54) Bromodichloromethane	6.899	83	27161	1.944	ug/L		98
57) 1,4-Dioxane	7.106	88	34500	392.763	ug/L	#	85
58) cis-1,3-Dichloropropene	7.586	75	27774	1.807	ug/L	#	88
61) Toluene	7.844	92	47812	1.924	ug/L		99
62) 4-Methyl-2-pentanone	8.288	58	4739	1.704	ug/L		93
63) Tetrachloroethene	8.295	166	17549	1.812	ug/L		94
65) trans-1,3-Dichloropropene	8.338	75	24580	1.827	ug/L		91
67) Ethyl methacrylate	8.531	69	13188	1.454	ug/L	#	64
68) 1,1,2-Trichloroethane	8.524	83	13734	1.969	ug/L		96
69) Chlorodibromomethane	8.739	129	20468	1.976	ug/L		98
70) 1,3-Dichloropropane	8.847	76	27102	2.008	ug/L		99
71) 1,2-Dibromoethane	9.018	107	16097	2.020	ug/L		100
72) 2-Hexanone	9.305	43	7871	1.696	ug/L	#	80
73) Chlorobenzene	9.662	112	54276	1.934	ug/L		95
74) Ethylbenzene	9.695	91	81114	1.676	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.744	131	18966	1.865	ug/L		95
76) p/m Xylene	9.876	106	64321	3.343	ug/L		99
77) o Xylene	10.419	106	62385	3.290	ug/L		98

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A07.D
Acq On : 9 May 2024 7:25 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1919586,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 10:47:33 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.485	104	101046	3.133	ug/L	95
80)	Bromoform	10.517	173	11865	1.839	ug/L	97
82)	Isopropylbenzene	10.797	105	71656	1.698	ug/L	97
84)	Bromobenzene	11.233	156	23883	2.065	ug/L	98
85)	n-Propylbenzene	11.266	91	87730	1.781	ug/L	99
86)	1,4-Dichlorobutane	11.299	55	27411	1.998	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.365	83	16705	1.921	ug/L	97
88)	4-Ethyltoluene	11.398	105	70417	1.714	ug/L	98
89)	2-Chlorotoluene	11.439	91	58110M6	1.863	ug/L	
90)	1,3,5-Trimethylbenzene	11.488	105	67000	1.785	ug/L	98
91)	1,2,3-Trichloropropane	11.505	75	15487M6	1.872	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.562	53	5146M6	1.799	ug/L	
93)	4-Chlorotoluene	11.628	91	62085	1.886	ug/L	99
94)	tert-Butylbenzene	11.825	119	49895	1.700	ug/L	97
97)	1,2,4-Trimethylbenzene	11.908	105	63700	1.741	ug/L	99
98)	sec-Butylbenzene	12.015	105	67457	1.635	ug/L	99
99)	p-Isopropyltoluene	12.171	119	58960	1.618	ug/L	96
100)	1,3-Dichlorobenzene	12.245	146	41496	1.897	ug/L	99
101)	1,4-Dichlorobenzene	12.335	146	44912	1.985	ug/L	95
102)	p-Diethylbenzene	12.541	119	34737	1.656	ug/L	94
103)	n-Butylbenzene	12.607	91	47991	1.636	ug/L	98
104)	1,2-Dichlorobenzene	12.763	146	39490	1.922	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.339	119	45489	1.556	ug/L	94
106)	1,2-Dibromo-3-chloropr...	13.553	155	3052	1.959	ug/L	95
107)	1,3,5-Trichlorobenzene	13.561	180	25132	1.961	ug/L	99
108)	Hexachlorobutadiene	14.137	225	6415	1.823	ug/L	91
109)	1,2,4-Trichlorobenzene	14.162	180	20231	1.878	ug/L	98
110)	Naphthalene	14.458	128	38102	1.701	ug/L	100
111)	1,2,3-Trichlorobenzene	14.622	180	17152	1.937	ug/L	97

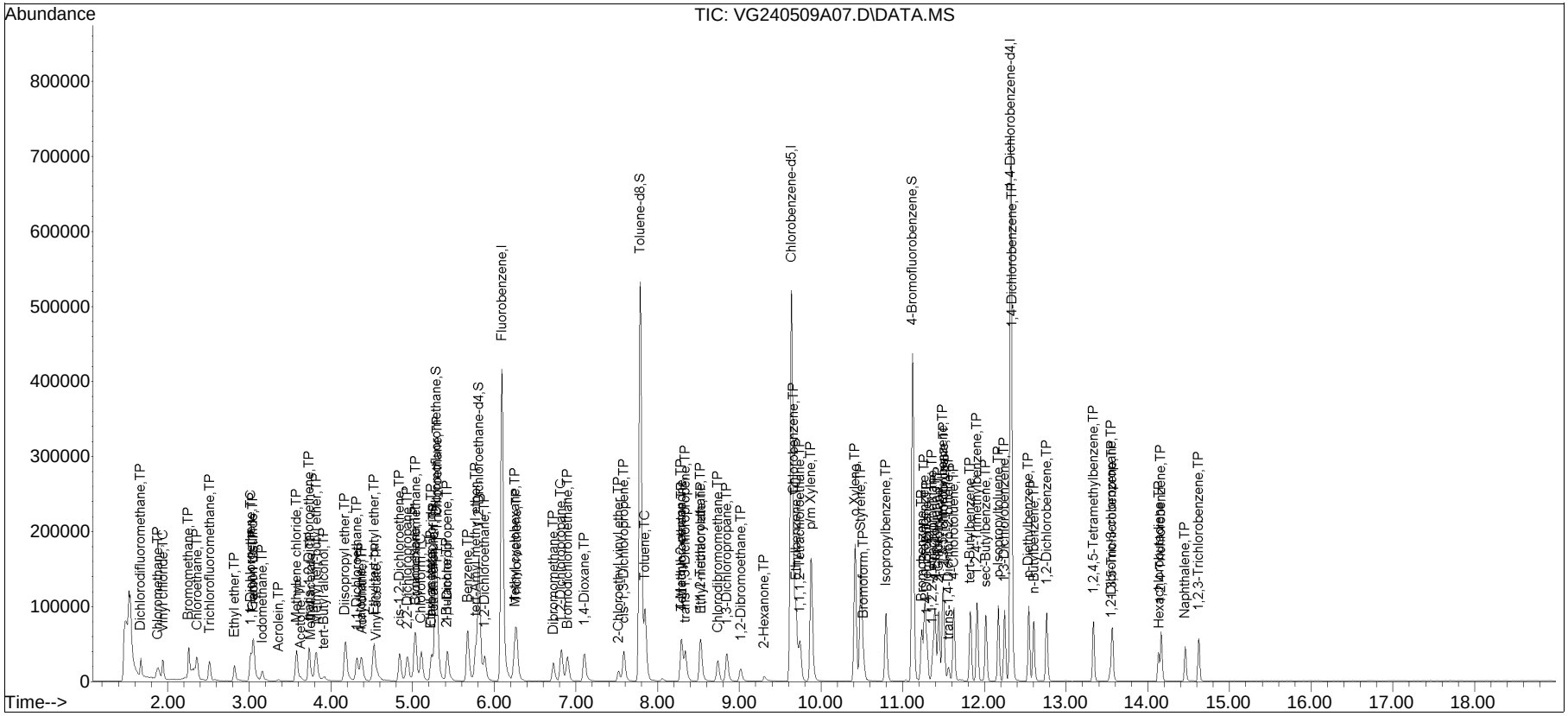
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A07.D
Acq On : 9 May 2024 7:25 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1919586,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 10:47:33 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

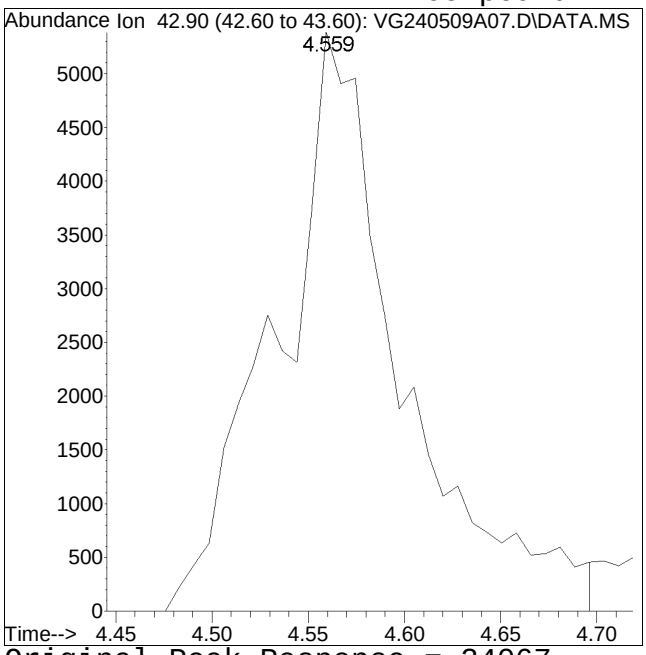
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



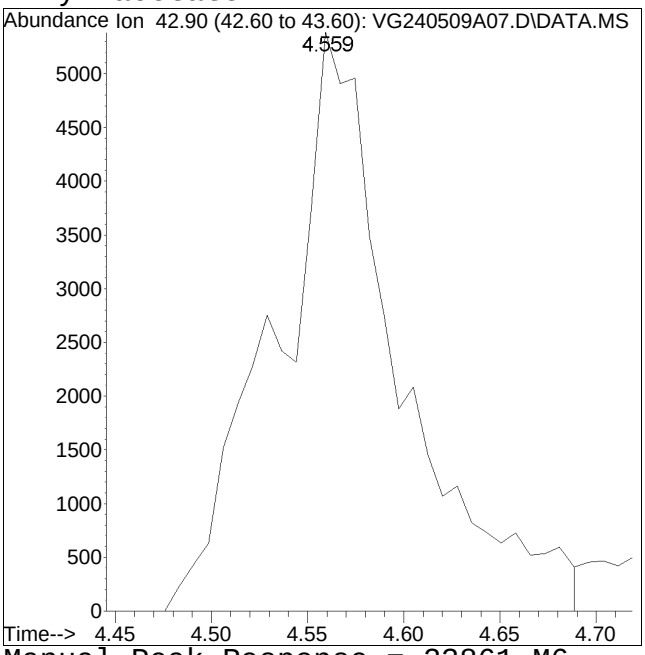
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A07.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 7:25 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 5/10/2024 10:47 am

Compound #27: Vinyl acetate



Original Peak Response = 24067



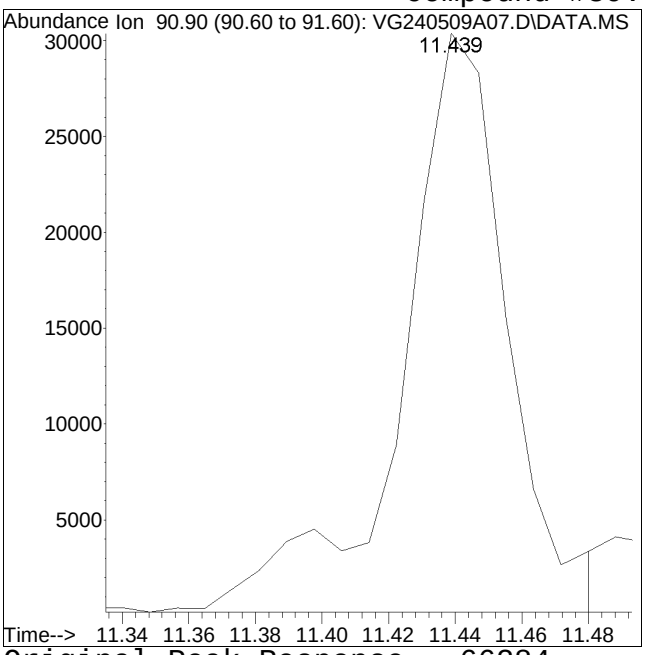
Manual Peak Response = 23861 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

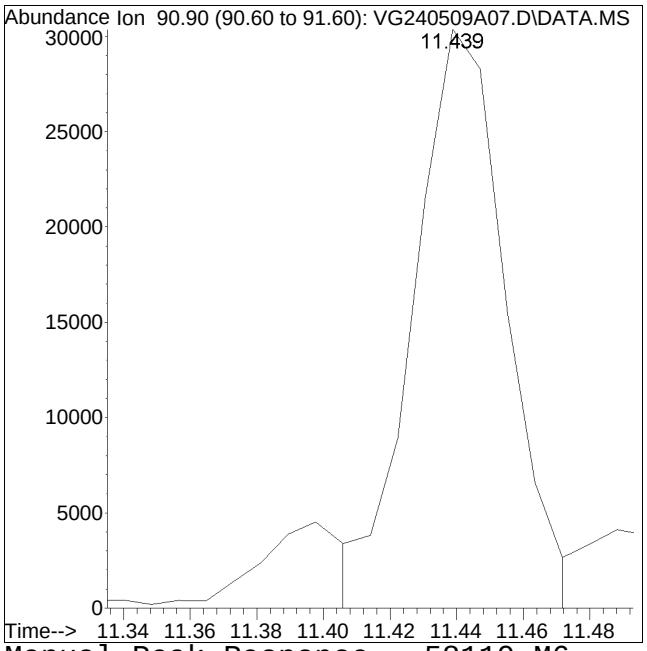
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A07.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 7:25 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 5/10/2024 10:47 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 66284



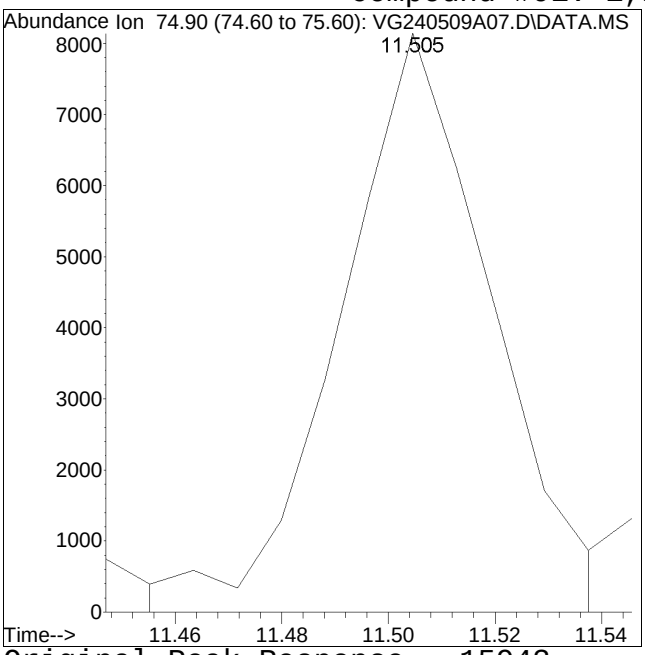
Manual Peak Response = 58110 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

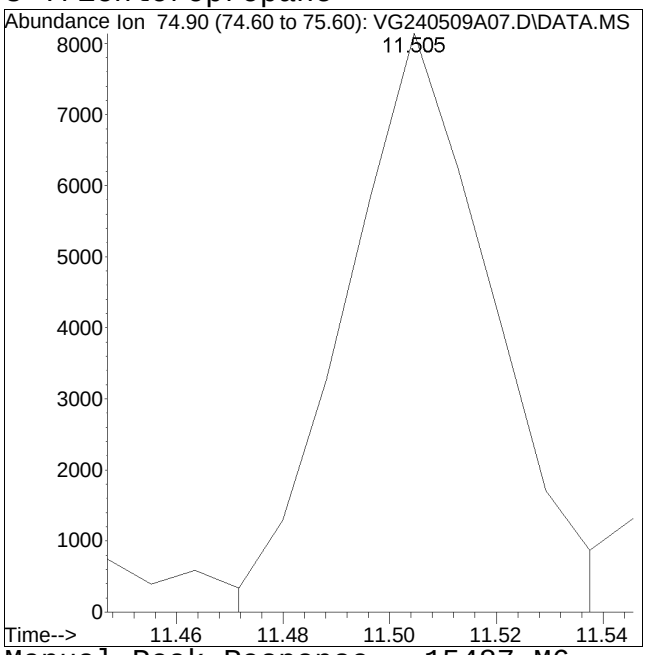
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A07.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 7:25 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 5/10/2024 10:47 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 15943



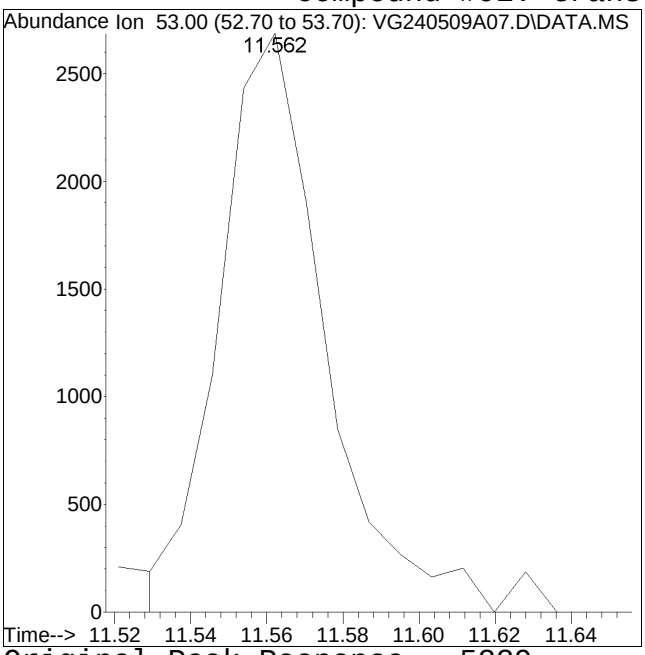
Manual Peak Response = 15487 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

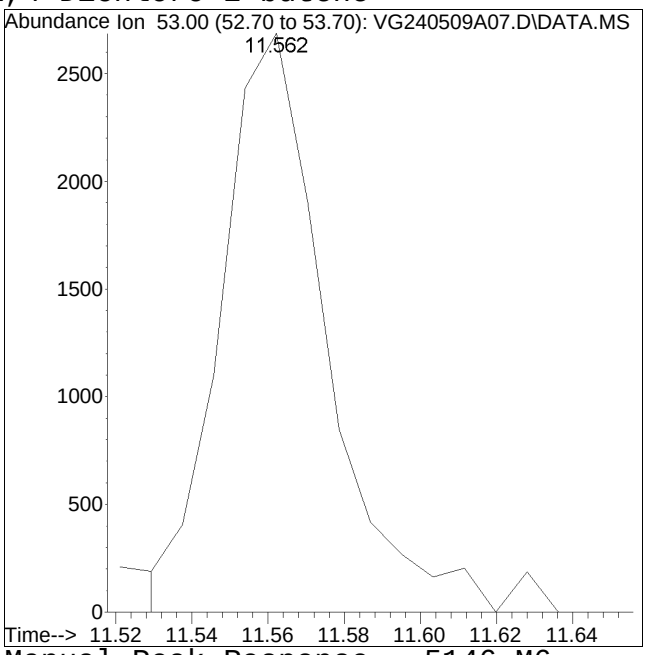
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A07.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 7:25 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 5/10/2024 10:47 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 5239



Manual Peak Response = 5146 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A08.D
Acq On : 9 May 2024 7:49 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 10:47:39 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.094	96	481966	10.000 ug/L	0.00
Standard Area 1 = 481966			Recovery = 100.00%		
59) Chlorobenzene-d5	9.637	117	376675	10.000 ug/L	0.00
Standard Area 1 = 376675			Recovery = 100.00%		
79) 1,4-Dichlorobenzene-d4	12.319	152	214818	10.000 ug/L	0.00
Standard Area 1 = 214818			Recovery = 100.00%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.288	113	121491	9.843 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.43%		
43) 1,2-Dichloroethane-d4	5.813	65	150190	10.142 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.42%		
60) Toluene-d8	7.786	98	480471	10.366 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.66%		
83) 4-Bromofluorobenzene	11.118	95	174724	10.114 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.14%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.672	85	124801	11.043 ug/L	97
3) Chloromethane	1.885	50	120648	10.007 ug/L	100
4) Vinyl chloride	1.946	62	129191	10.634 ug/L	98
5) Bromomethane	2.265	94	99909	9.156 ug/L	99
6) Chloroethane	2.363	64	94601	12.036 ug/L	97
7) Trichlorofluoromethane	2.515	101	162829	10.446 ug/L	98
8) Ethyl ether	2.819	74	45342	9.733 ug/L	83
10) 1,1-Dichloroethene	3.017	96	85268	10.013 ug/L	85
11) Carbon disulfide	3.047	76	259619	9.624 ug/L	100
12) Freon-113	3.055	101	91401	10.273 ug/L #	77
13) Iodomethane	3.161	142	99431	8.374 ug/L	96
14) Acrolein	3.351	56	14672	10.205 ug/L	95
15) Methylene chloride	3.579	84	98498	9.497 ug/L	84
17) Acetone	3.625	43	24038	9.006 ug/L	98
18) trans-1,2-Dichloroethene	3.731	96	92203	9.574 ug/L	89
19) Methyl acetate	3.739	43	47954	8.678 ug/L	94
20) Methyl tert-butyl ether	3.822	73	235978	9.367 ug/L	89
21) tert-Butyl alcohol	3.913	59	35413	45.592 ug/L	91
22) Diisopropyl ether	4.179	45	315494	9.356 ug/L	96
23) 1,1-Dichloroethane	4.316	63	186650	9.742 ug/L	99
24) Halothane	4.369	117	75523	9.888 ug/L	100

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A08.D
Acq On : 9 May 2024 7:49 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 10:47:39 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.377	53	25666	9.861	ug/L		95
26) Ethyl tert-butyl ether	4.529	59	288070	9.078	ug/L		87
27) Vinyl acetate	4.551	43	125476	10.004	ug/L		96
28) cis-1,2-Dichloroethene	4.840	96	103341	9.229	ug/L		90
29) 2,2-Dichloropropane	4.939	77	137019	9.629	ug/L		93
30) Bromochloromethane	5.038	128	49055	9.704	ug/L	#	82
31) Cyclohexane	5.030	56	161924	9.431	ug/L		77
32) Chloroform	5.106	83	177111	9.573	ug/L		95
33) Ethyl acetate	5.212	43	76624	9.641	ug/L		98
34) Carbon tetrachloride	5.235	117	143050	9.924	ug/L		98
35) Tetrahydrofuran	5.258	42	24833	10.426	ug/L	#	80
37) 1,1,1-Trichloroethane	5.304	97	159669	10.070	ug/L		95
39) 2-Butanone	5.402	43	37148	10.544	ug/L	#	78
40) 1,1-Dichloropropene	5.425	75	129083	9.905	ug/L		100
41) Benzene	5.676	78	400872	9.834	ug/L		95
42) tert-Amyl methyl ether	5.775	73	237290	9.084	ug/L	#	91
44) 1,2-Dichloroethane	5.881	62	139328	9.482	ug/L		98
47) Methyl cyclohexane	6.253	83	127350	8.687	ug/L	#	80
48) Trichloroethene	6.276	95	113342	9.251	ug/L		100
50) Dibromomethane	6.724	93	57718	9.413	ug/L		94
51) 1,2-Dichloropropane	6.815	63	103863	9.692	ug/L		99
53) 2-Chloroethyl vinyl ether	7.514	63	47016	9.070	ug/L		96
54) Bromodichloromethane	6.891	83	137039	9.527	ug/L		99
57) 1,4-Dioxane	7.098	88	41558	459.644	ug/L	#	81
58) cis-1,3-Dichloropropene	7.586	75	146201	9.240	ug/L		91
61) Toluene	7.843	92	250999	9.801	ug/L		100
62) 4-Methyl-2-pentanone	8.280	58	26733	9.329	ug/L		94
63) Tetrachloroethene	8.295	166	96997	9.718	ug/L		94
65) trans-1,3-Dichloropropene	8.338	75	133495	9.630	ug/L		99
67) Ethyl methacrylate	8.517	69	87668	9.380	ug/L		89
68) 1,1,2-Trichloroethane	8.524	83	66639	9.272	ug/L		100
69) Chlorodibromomethane	8.739	129	102229	9.579	ug/L		98
70) 1,3-Dichloropropane	8.846	76	135730	9.756	ug/L		99
71) 1,2-Dibromoethane	9.011	107	81892	9.974	ug/L		99
72) 2-Hexanone	9.298	43	44914	9.392	ug/L		99
73) Chlorobenzene	9.662	112	277756	9.604	ug/L		99
74) Ethylbenzene	9.686	91	458004	9.185	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.744	131	99809	9.524	ug/L		95
76) p/m Xylene	9.875	106	360477	18.178	ug/L		97
77) o Xylene	10.418	106	354046	18.116	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A08.D
Acq On : 9 May 2024 7:49 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 10:47:39 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.484	104	606721	18.252	ug/L		96
80) Bromoform	10.517	173	63868	9.114	ug/L		98
82) Isopropylbenzene	10.789	105	423223	9.234	ug/L		99
84) Bromobenzene	11.233	156	119998	9.550	ug/L		98
85) n-Propylbenzene	11.266	91	499546	9.337	ug/L		99
86) 1,4-Dichlorobutane	11.290	55	145770	9.778	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.364	83	94588	10.015	ug/L		98
88) 4-Ethyltoluene	11.389	105	422267	9.462	ug/L		99
89) 2-Chlorotoluene	11.438	91	325949M1	9.621	ug/L		
90) 1,3,5-Trimethylbenzene	11.488	105	383997	9.417	ug/L		98
91) 1,2,3-Trichloropropane	11.504	75	85290M1	9.490	ug/L		
92) trans-1,4-Dichloro-2-b...	11.554	53	29968	9.643	ug/L	#	91
93) 4-Chlorotoluene	11.619	91	344554	9.637	ug/L		99
94) tert-Butylbenzene	11.825	119	293776	9.217	ug/L		97
97) 1,2,4-Trimethylbenzene	11.907	105	373108	9.386	ug/L		100
98) sec-Butylbenzene	12.014	105	406598	9.071	ug/L		98
99) p-Isopropyltoluene	12.171	119	361839	9.142	ug/L		98
100) 1,3-Dichlorobenzene	12.245	146	226165	9.515	ug/L		98
101) 1,4-Dichlorobenzene	12.335	146	232587	9.464	ug/L		99
102) p-Diethylbenzene	12.541	119	204868	8.992	ug/L		96
103) n-Butylbenzene	12.598	91	291168	9.137	ug/L		97
104) 1,2-Dichlorobenzene	12.763	146	215872	9.672	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.331	119	288883	9.095	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.536	155	16466	9.728	ug/L		99
107) 1,3,5-Trichlorobenzene	13.561	180	130752	9.389	ug/L		97
108) Hexachlorobutadiene	14.128	225	33631	8.795	ug/L		97
109) 1,2,4-Trichlorobenzene	14.161	180	112115	9.581	ug/L		99
110) Naphthalene	14.458	128	239652	9.849	ug/L		100
111) 1,2,3-Trichlorobenzene	14.622	180	93356	9.703	ug/L		98

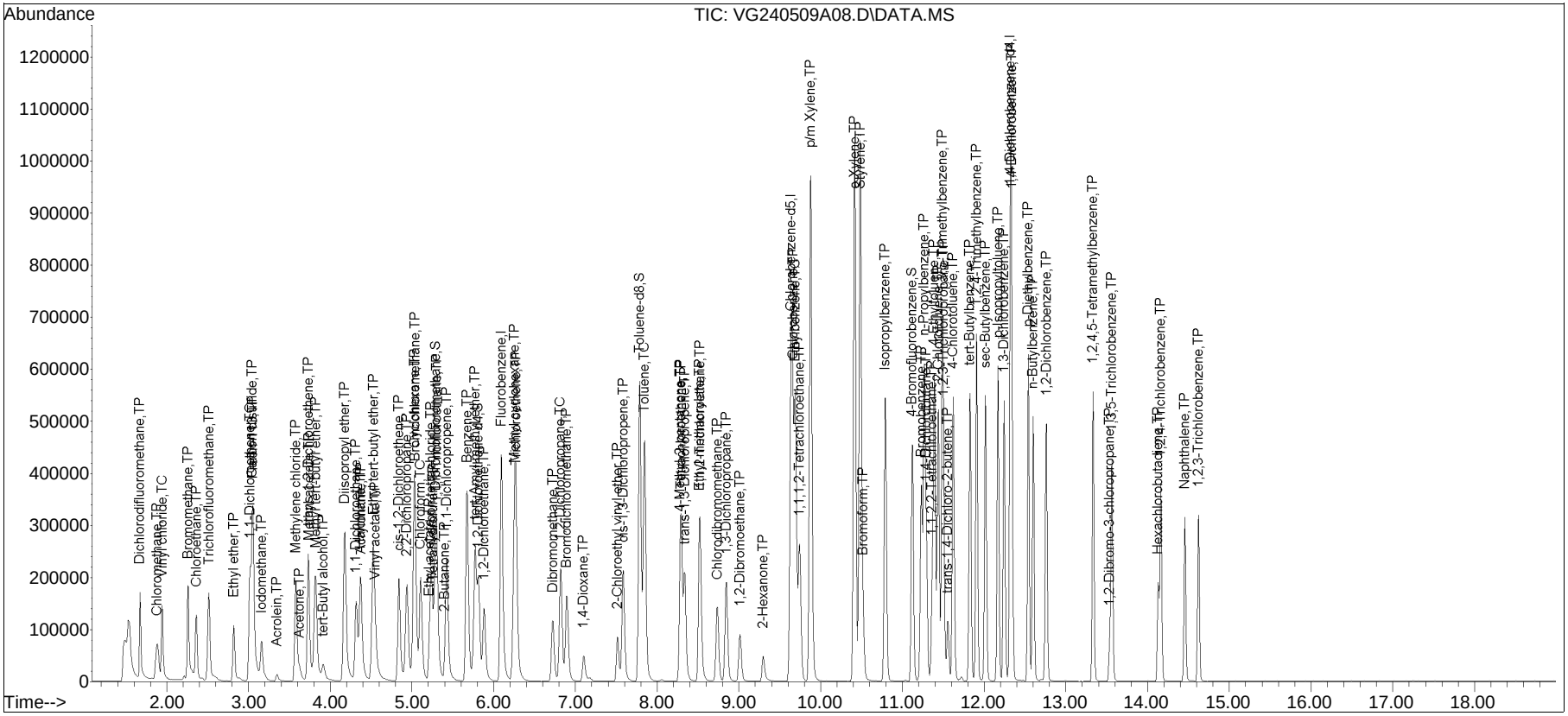
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A08.D
Acq On : 9 May 2024 7:49 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 10:47:39 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

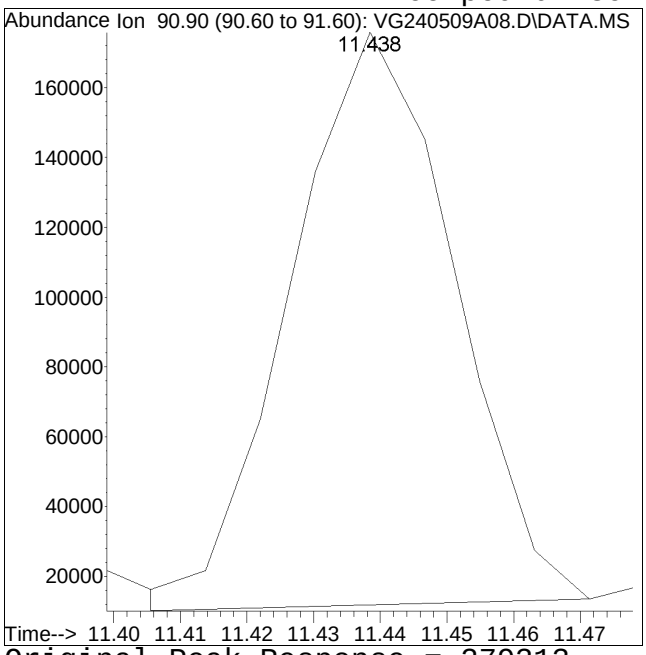
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•

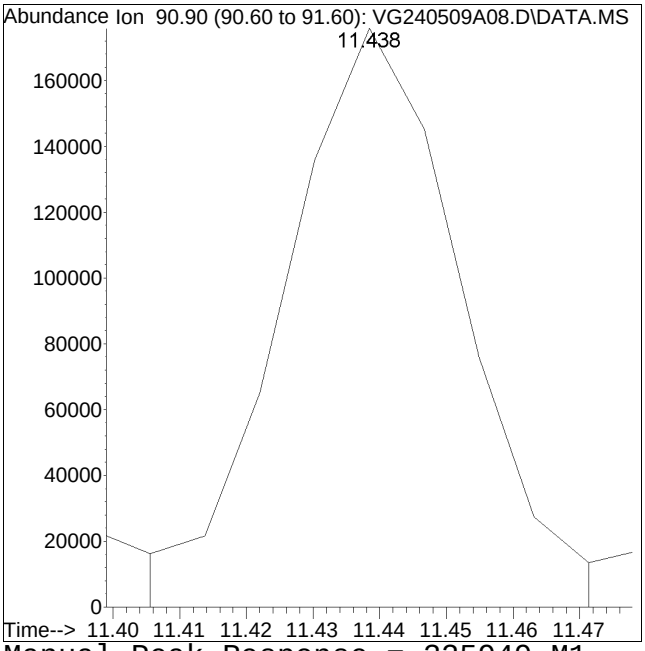


Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A08.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 7:49 pm Instrument : Gonzo
Sample : I8260STD10PPB Quant Date : 5/10/2024 10:47 am

Compound #89: 2-Chlorotoluene



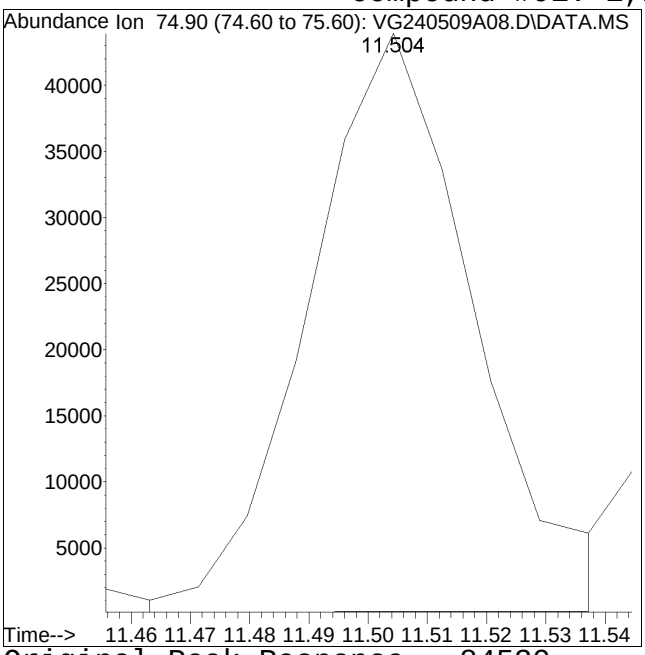


Original Peak Response = 279313 Manual Peak Response = 325949 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

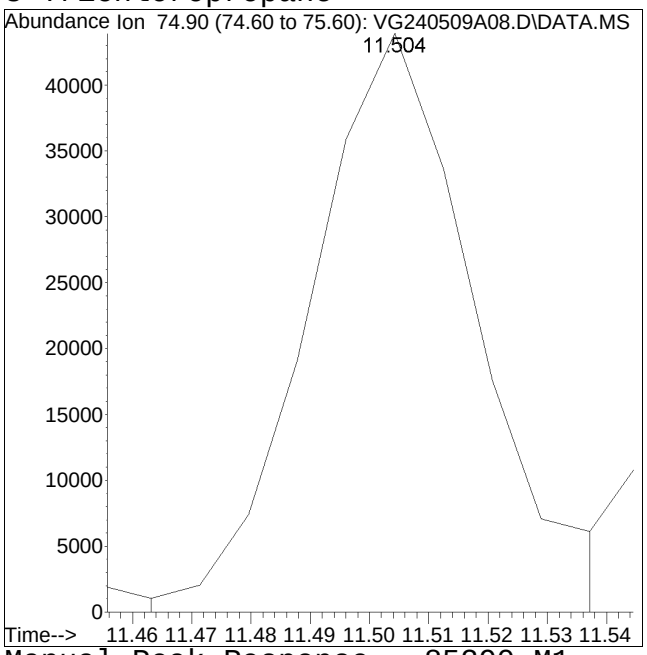
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A08.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 7:49 pm Instrument : Gonzo
Sample : I8260STD10PPB Quant Date : 5/10/2024 10:47 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 84530



Manual Peak Response = 85290 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A09.D
Acq On : 9 May 2024 8:13 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1919586,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 10 10:47:46 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.094	96	520307	10.000 ug/L	0.00
Standard Area 1 = 481966			Recovery = 107.96%		
59) Chlorobenzene-d5	9.637	117	415874	10.000 ug/L	0.00
Standard Area 1 = 376675			Recovery = 110.41%		
79) 1,4-Dichlorobenzene-d4	12.327	152	256953	10.000 ug/L	0.00
Standard Area 1 = 214818			Recovery = 119.61%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.288	113	134712	10.110 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.10%		
43) 1,2-Dichloroethane-d4	5.813	65	159049	9.949 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.49%		
60) Toluene-d8	7.786	98	521623	10.194 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.94%		
83) 4-Bromofluorobenzene	11.118	95	205744	9.957 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.57%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.680	85	422643	34.643 ug/L	98
3) Chloromethane	1.885	50	387381	29.762 ug/L	99
4) Vinyl chloride	1.946	62	410685	31.312 ug/L	99
5) Bromomethane	2.265	94	297115	25.222 ug/L	98
6) Chloroethane	2.363	64	298951	35.232 ug/L	96
7) Trichlorofluoromethane	2.515	101	550012	32.685 ug/L	100
8) Ethyl ether	2.819	74	142891	28.414 ug/L	79
10) 1,1-Dichloroethene	3.017	96	285913	31.100 ug/L	84
11) Carbon disulfide	3.055	76	865533	29.719 ug/L	100
12) Freon-113	3.055	101	326167	33.957 ug/L	84
13) Iodomethane	3.161	142	385420	30.069 ug/L	96
14) Acrolein	3.343	56	48156	31.027 ug/L	100
15) Methylene chloride	3.579	84	324977	29.025 ug/L	84
17) Acetone	3.625	43	76516	26.555 ug/L	96
18) trans-1,2-Dichloroethene	3.731	96	311375	29.948 ug/L	89
19) Methyl acetate	3.739	43	161773	27.118 ug/L	93
20) Methyl tert-butyl ether	3.822	73	809298	29.757 ug/L	90
21) tert-Butyl alcohol	3.913	59	113939	135.881 ug/L	90
22) Diisopropyl ether	4.179	45	1097086	30.137 ug/L	97
23) 1,1-Dichloroethane	4.316	63	623094	30.127 ug/L	99
24) Halothane	4.369	117	254597	30.877 ug/L	99

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A09.D
Acq On : 9 May 2024 8:13 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1919586,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 10 10:47:46 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.377	53	86183	30.671	ug/L		98
26) Ethyl tert-butyl ether	4.529	59	1009824	29.477	ug/L		86
27) Vinyl acetate	4.551	43	413712	30.554	ug/L		96
28) cis-1,2-Dichloroethene	4.840	96	351545	29.082	ug/L		91
29) 2,2-Dichloropropane	4.939	77	477604	31.092	ug/L		95
30) Bromochloromethane	5.038	128	161009	29.502	ug/L	#	83
31) Cyclohexane	5.030	56	627173	33.838	ug/L		84
32) Chloroform	5.106	83	603507	30.215	ug/L		97
33) Ethyl acetate	5.212	43	266181	31.025	ug/L		97
34) Carbon tetrachloride	5.235	117	502802	32.311	ug/L		98
35) Tetrahydrofuran	5.258	42	72457M6	28.180	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	545439	31.864	ug/L		95
39) 2-Butanone	5.402	43	117958	31.013	ug/L	#	82
40) 1,1-Dichloropropene	5.425	75	448440	31.875	ug/L		99
41) Benzene	5.676	78	1350396	30.686	ug/L		94
42) tert-Amyl methyl ether	5.775	73	839823	29.781	ug/L		93
44) 1,2-Dichloroethane	5.881	62	470485	29.659	ug/L		99
47) Methyl cyclohexane	6.253	83	534227	33.758	ug/L	#	80
48) Trichloroethene	6.276	95	386234	29.201	ug/L		99
50) Dibromomethane	6.724	93	194034	29.311	ug/L		94
51) 1,2-Dichloropropane	6.823	63	346204	29.926	ug/L		98
53) 2-Chloroethyl vinyl ether	7.514	63	173740	31.047	ug/L		97
54) Bromodichloromethane	6.899	83	458026	29.495	ug/L		100
57) 1,4-Dioxane	7.106	88	57209	586.121	ug/L	#	86
58) cis-1,3-Dichloropropene	7.586	75	508370	29.763	ug/L		92
61) Toluene	7.843	92	850178	30.069	ug/L		97
62) 4-Methyl-2-pentanone	8.280	58	97217	30.729	ug/L		97
63) Tetrachloroethene	8.295	166	351963	31.941	ug/L		95
65) trans-1,3-Dichloropropene	8.338	75	462315	30.207	ug/L		99
67) Ethyl methacrylate	8.517	69	324647	31.460	ug/L		95
68) 1,1,2-Trichloroethane	8.524	83	231059	29.118	ug/L		97
69) Chlorodibromomethane	8.732	129	354528	30.087	ug/L		99
70) 1,3-Dichloropropane	8.846	76	458374	29.842	ug/L		99
71) 1,2-Dibromoethane	9.011	107	274220	30.250	ug/L		99
72) 2-Hexanone	9.290	43	169992	32.198	ug/L		98
73) Chlorobenzene	9.662	112	941014	29.470	ug/L		98
74) Ethylbenzene	9.694	91	1670721	30.347	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.744	131	349418	30.201	ug/L		97
76) p/m Xylene	9.875	106	1335271	60.988	ug/L		95
77) o Xylene	10.418	106	1314308	60.913	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A09.D
Acq On : 9 May 2024 8:13 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1919586,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 10 10:47:46 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.484	104	2398281	65.347	ug/L		96
80) Bromoform	10.517	173	247864	29.569	ug/L		99
82) Isopropylbenzene	10.789	105	1729399	31.546	ug/L		100
84) Bromobenzene	11.233	156	430838	28.665	ug/L		99
85) n-Propylbenzene	11.266	91	2035128	31.803	ug/L		99
86) 1,4-Dichlorobutane	11.290	55	539826	30.274	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.364	83	332464	29.429	ug/L		99
88) 4-Ethyltoluene	11.389	105	1671617	31.314	ug/L		100
89) 2-Chlorotoluene	11.438	91	1252523M6	30.909	ug/L		
90) 1,3,5-Trimethylbenzene	11.488	105	1534475	31.459	ug/L		99
91) 1,2,3-Trichloropropane	11.504	75	324149M4	30.154	ug/L		
92) trans-1,4-Dichloro-2-b...	11.554	53	115800	31.151	ug/L	#	93
93) 4-Chlorotoluene	11.619	91	1291322	30.194	ug/L		99
94) tert-Butylbenzene	11.825	119	1206927	31.656	ug/L		96
97) 1,2,4-Trimethylbenzene	11.907	105	1498470	31.513	ug/L		99
98) sec-Butylbenzene	12.014	105	1753183	32.698	ug/L		98
99) p-Isopropyltoluene	12.171	119	1561050	32.971	ug/L		98
100) 1,3-Dichlorobenzene	12.245	146	851247	29.941	ug/L		99
101) 1,4-Dichlorobenzene	12.335	146	857491	29.169	ug/L		98
102) p-Diethylbenzene	12.541	119	860833	31.589	ug/L		98
103) n-Butylbenzene	12.598	91	1253308	32.882	ug/L		98
104) 1,2-Dichlorobenzene	12.763	146	785296	29.414	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.331	119	1151219	30.300	ug/L		95
106) 1,2-Dibromo-3-chloropr...	13.536	155	56235	27.777	ug/L		95
107) 1,3,5-Trichlorobenzene	13.561	180	490838	29.467	ug/L		97
108) Hexachlorobutadiene	14.128	225	143389	31.351	ug/L		99
109) 1,2,4-Trichlorobenzene	14.161	180	404005	28.863	ug/L		99
110) Naphthalene	14.458	128	856123	29.414	ug/L		100
111) 1,2,3-Trichlorobenzene	14.622	180	332469	28.889	ug/L		98

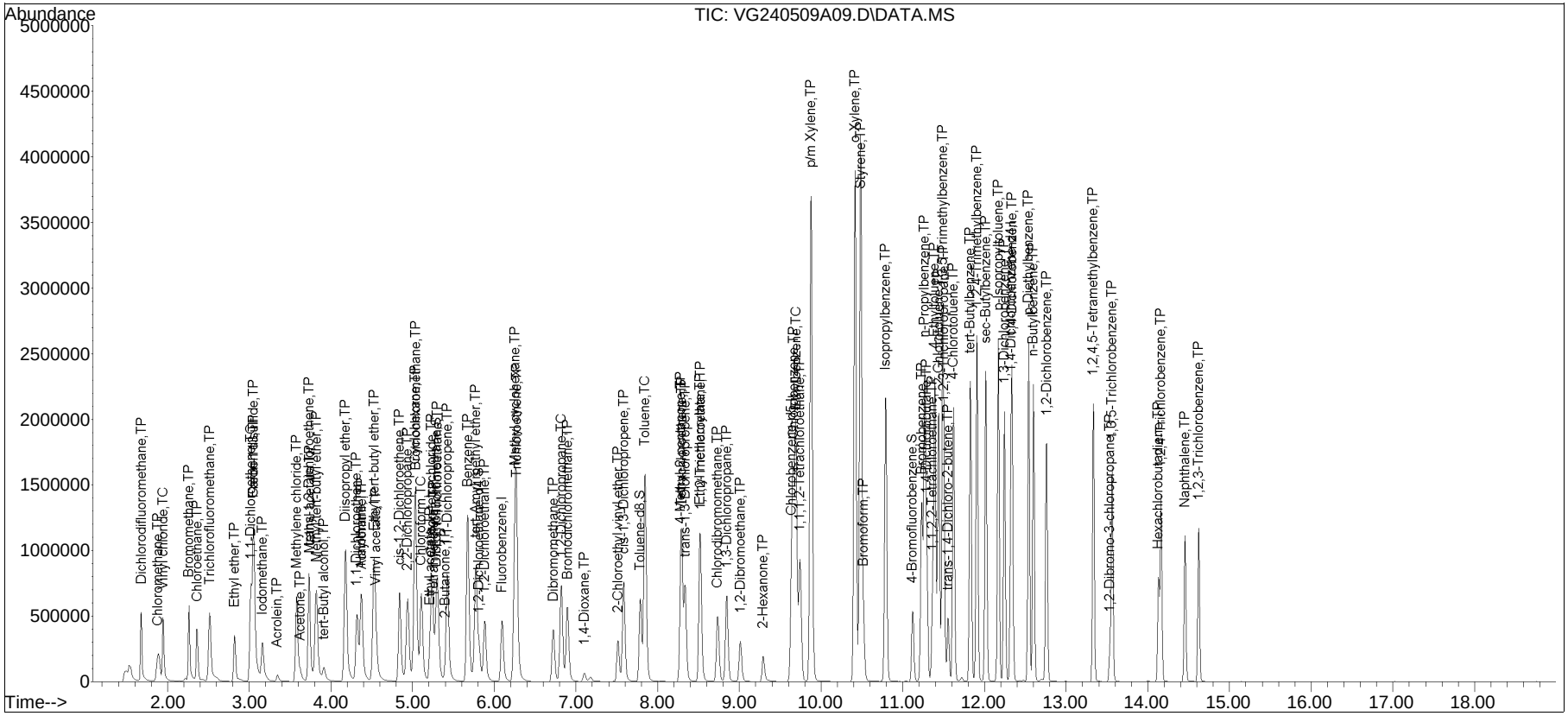
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A09.D
Acq On : 9 May 2024 8:13 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1919586,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 10 10:47:46 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

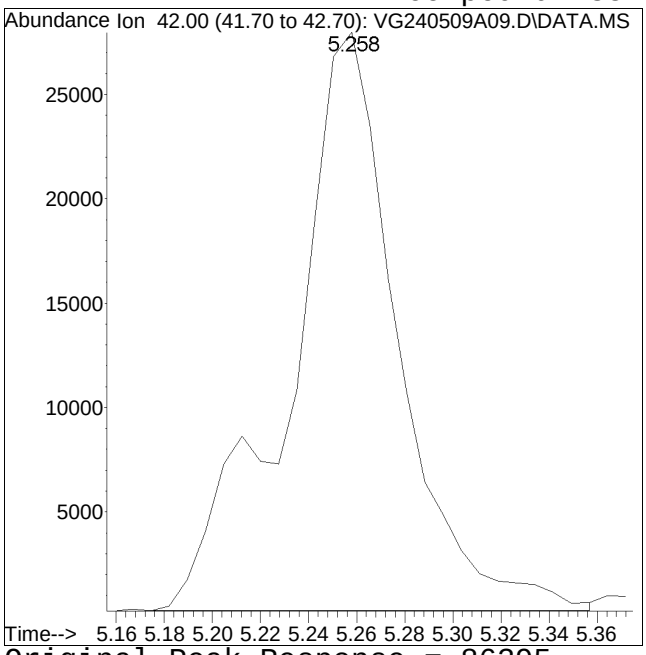
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



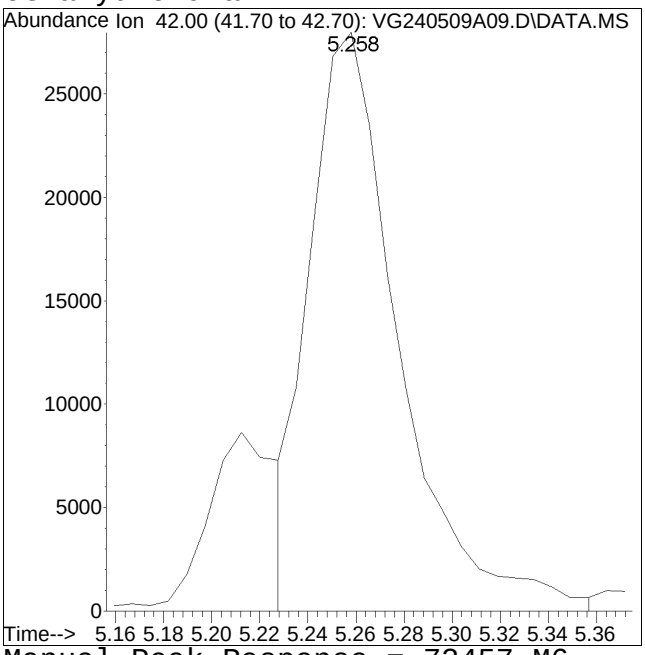
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A09.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 8:13 pm Instrument : Gonzo
Sample : I8260STD30PPB Quant Date : 5/10/2024 10:47 am

Compound #35: Tetrahydrofuran



Original Peak Response = 86395



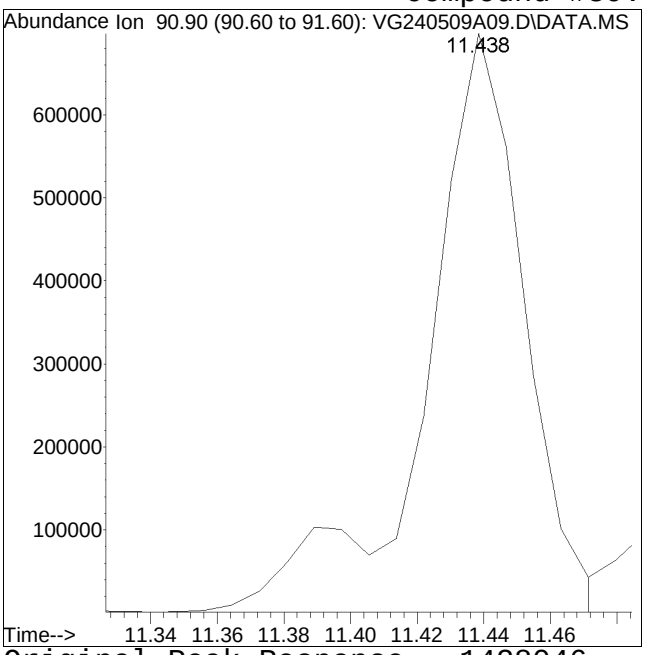
Manual Peak Response = 72457 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

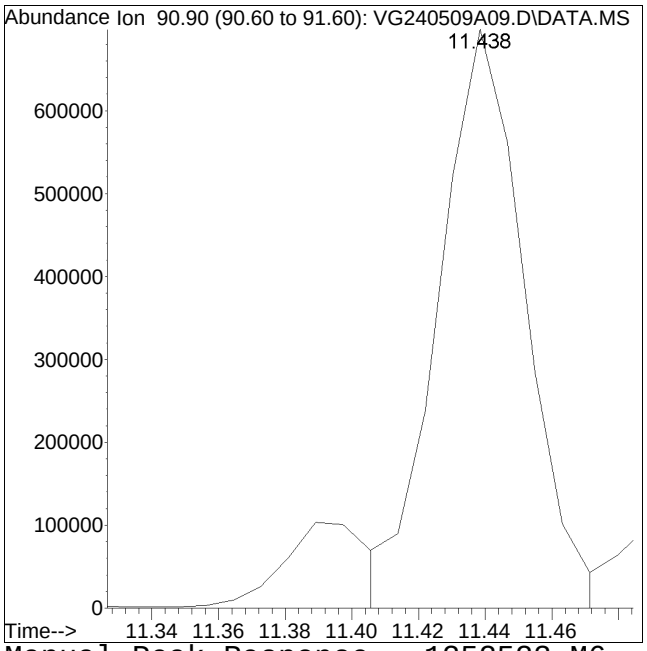
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A09.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 8:13 pm Instrument : Gonzo
Sample : I8260STD30PPB Quant Date : 5/10/2024 10:47 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1428046



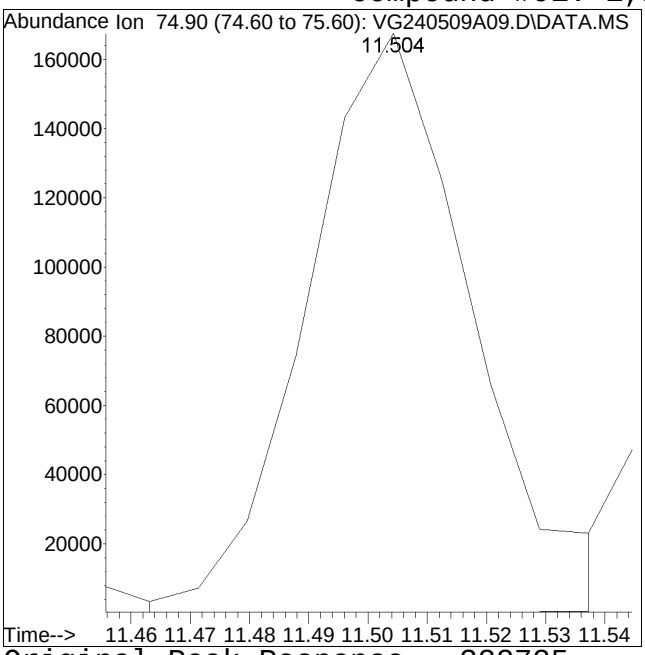
Manual Peak Response = 1252523 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

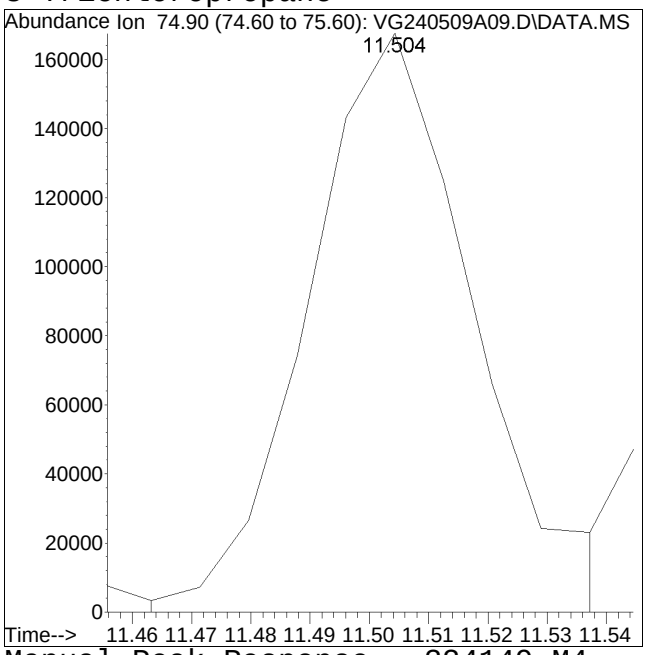
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A09.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 8:13 pm Instrument : Gonzo
Sample : I8260STD30PPB Quant Date : 5/10/2024 10:47 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 322725



Manual Peak Response = 324149 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A10.D
Acq On : 9 May 2024 8:37 pm
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1919586,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 10:47:53 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	563866	10.000	ug/L	0.00
Standard Area 1 = 481966			Recovery = 116.99%			
59) Chlorobenzene-d5	9.637	117	469597	10.000	ug/L	0.00
Standard Area 1 = 376675			Recovery = 124.67%			
79) 1,4-Dichlorobenzene-d4	12.327	152	297125	10.000	ug/L	0.00
Standard Area 1 = 214818			Recovery = 138.31%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	143779	9.956	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.56%			
43) 1,2-Dichloroethane-d4	5.813	65	177515	10.246	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.46%			
60) Toluene-d8	7.786	98	566204	9.799	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.99%			
83) 4-Bromofluorobenzene	11.118	95	226599	9.483	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	1265113	95.688	ug/L	97
3) Chloromethane	1.885	50	1126067	79.831	ug/L	99
4) Vinyl chloride	1.946	62	1247029	87.733	ug/L	100
5) Bromomethane	2.265	94	857665	67.183	ug/L	98
6) Chloroethane	2.363	64	703633	76.518	ug/L	96
7) Trichlorofluoromethane	2.515	101	1702287	93.344	ug/L	99
8) Ethyl ether	2.819	74	431777	79.225	ug/L	83
10) 1,1-Dichloroethene	3.017	96	890381	89.369	ug/L	85
11) Carbon disulfide	3.047	76	2674890	84.751	ug/L	100
12) Freon-113	3.055	101	1015659	97.571	ug/L	85
13) Iodomethane	3.161	142	1243486	89.519	ug/L	96
14) Acrolein	3.344	56	142671	84.821	ug/L	99
15) Methylene chloride	3.579	84	949035	78.215	ug/L	83
17) Acetone	3.617	43	223806	71.671	ug/L	96
18) trans-1,2-Dichloroethene	3.731	96	932825	82.789	ug/L	88
19) Methyl acetate	3.739	43	481230	74.436	ug/L	94
20) Methyl tert-butyl ether	3.822	73	2464462	83.615	ug/L	91
21) tert-Butyl alcohol	3.913	59	376260	414.054	ug/L	97
22) Diisopropyl ether	4.179	45	3331426	84.446	ug/L	97
23) 1,1-Dichloroethane	4.316	63	1882988	84.010	ug/L	99
24) Halothane	4.369	117	782487	87.568	ug/L	100

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A10.D
Acq On : 9 May 2024 8:37 pm
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1919586,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 10:47:53 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.369	53	260328	85.489	ug/L		98
26) Ethyl tert-butyl ether	4.529	59	3157198	85.039	ug/L	#	83
27) Vinyl acetate	4.551	43	1165970	79.459	ug/L	#	95
28) cis-1,2-Dichloroethene	4.840	96	1055278	80.554	ug/L		92
29) 2,2-Dichloropropane	4.939	77	1483899	89.139	ug/L		96
30) Bromochloromethane	5.038	128	478262	80.864	ug/L	#	84
31) Cyclohexane	5.030	56	2021296	100.631	ug/L		83
32) Chloroform	5.106	83	1791351	82.757	ug/L		98
33) Ethyl acetate	5.205	43	796854	85.703	ug/L		96
34) Carbon tetrachloride	5.235	117	1549450	91.879	ug/L		98
35) Tetrahydrofuran	5.250	42	218480M6	78.407	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	1656670	89.306	ug/L		96
39) 2-Butanone	5.395	43	345142	83.734	ug/L	#	81
40) 1,1-Dichloropropene	5.425	75	1396438	91.590	ug/L		99
41) Benzene	5.676	78	4077630	85.502	ug/L		94
42) tert-Amyl methyl ether	5.775	73	2645652	86.571	ug/L		95
44) 1,2-Dichloroethane	5.881	62	1384689	80.547	ug/L		99
47) Methyl cyclohexane	6.253	83	1744993	101.748	ug/L	#	81
48) Trichloroethene	6.268	95	1201568	83.827	ug/L		99
50) Dibromomethane	6.717	93	571962	79.727	ug/L		93
51) 1,2-Dichloropropane	6.815	63	1030146	82.168	ug/L		98
53) 2-Chloroethyl vinyl ether	7.514	63	535789	88.347	ug/L		97
54) Bromodichloromethane	6.891	83	1371883	81.519	ug/L		99
57) 1,4-Dioxane	7.106	88	82092	776.082	ug/L	#	85
58) cis-1,3-Dichloropropene	7.586	75	1561231	84.343	ug/L		92
61) Toluene	7.843	92	2653532	83.114	ug/L		97
62) 4-Methyl-2-pentanone	8.280	58	303583	84.981	ug/L		97
63) Tetrachloroethene	8.295	166	1085756	87.260	ug/L		95
65) trans-1,3-Dichloropropene	8.338	75	1438259	83.223	ug/L		100
67) Ethyl methacrylate	8.517	69	1052065	90.288	ug/L		98
68) 1,1,2-Trichloroethane	8.524	83	702160	78.363	ug/L		99
69) Chlorodibromomethane	8.732	129	1099529	82.637	ug/L		99
70) 1,3-Dichloropropane	8.846	76	1393405	80.339	ug/L		99
71) 1,2-Dibromoethane	9.011	107	823584	80.459	ug/L		100
72) 2-Hexanone	9.290	43	542121	90.935	ug/L		99
73) Chlorobenzene	9.662	112	2983008	82.731	ug/L		98
74) Ethylbenzene	9.695	91	5468331	87.963	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.744	131	1098288	84.067	ug/L		97
76) p/m Xylene	9.876	106	4488497	181.556	ug/L		95
77) o Xylene	10.418	106	4467860	183.379	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A10.D
Acq On : 9 May 2024 8:37 pm
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1919586,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 10:47:53 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.484	104	8136675	196.339	ug/L		98
80)	Bromoform	10.517	173	822093	84.812	ug/L		99
82)	Isopropylbenzene	10.789	105	5859029	92.424	ug/L		99
84)	Bromobenzene	11.233	156	1358378	78.157	ug/L		100
85)	n-Propylbenzene	11.266	91	6846670	92.526	ug/L		99
86)	1,4-Dichlorobutane	11.290	55	1720684	83.451	ug/L		100
87)	1,1,2,2-Tetrachloroethane	11.364	83	1007974	77.162	ug/L		98
88)	4-Ethyltoluene	11.397	105	5606121	90.818	ug/L		99
89)	2-Chlorotoluene	11.439	91	4035488M6	86.120	ug/L		
90)	1,3,5-Trimethylbenzene	11.488	105	4997713	88.609	ug/L		99
91)	1,2,3-Trichloropropane	11.504	75	1022748	82.278	ug/L		99
92)	trans-1,4-Dichloro-2-b...	11.554	53	357416	83.148	ug/L	#	95
93)	4-Chlorotoluene	11.620	91	4150287	83.923	ug/L		99
94)	tert-Butylbenzene	11.825	119	4038196	91.595	ug/L		97
97)	1,2,4-Trimethylbenzene	11.907	105	4922978	89.535	ug/L		99
98)	sec-Butylbenzene	12.014	105	6008611	96.915	ug/L		98
99)	p-Isopropyltoluene	12.171	119	5273133	96.317	ug/L		98
100)	1,3-Dichlorobenzene	12.245	146	2745883	83.524	ug/L		98
101)	1,4-Dichlorobenzene	12.335	146	2723718	80.125	ug/L		99
102)	p-Diethylbenzene	12.541	119	2967154	94.160	ug/L		97
103)	n-Butylbenzene	12.598	91	4194387	95.165	ug/L		99
104)	1,2-Dichlorobenzene	12.763	146	2525761	81.814	ug/L		98
105)	1,2,4,5-Tetramethylben...	13.331	119	4058216	92.372	ug/L		95
106)	1,2-Dibromo-3-chloropr...	13.536	155	183716	78.476	ug/L		95
107)	1,3,5-Trichlorobenzene	13.561	180	1608036	83.486	ug/L		97
108)	Hexachlorobutadiene	14.129	225	454927	86.017	ug/L		99
109)	1,2,4-Trichlorobenzene	14.161	180	1287843	79.568	ug/L		100
110)	Naphthalene	14.458	128	2759833	82.001	ug/L		100
111)	1,2,3-Trichlorobenzene	14.622	180	1048640	78.798	ug/L		98

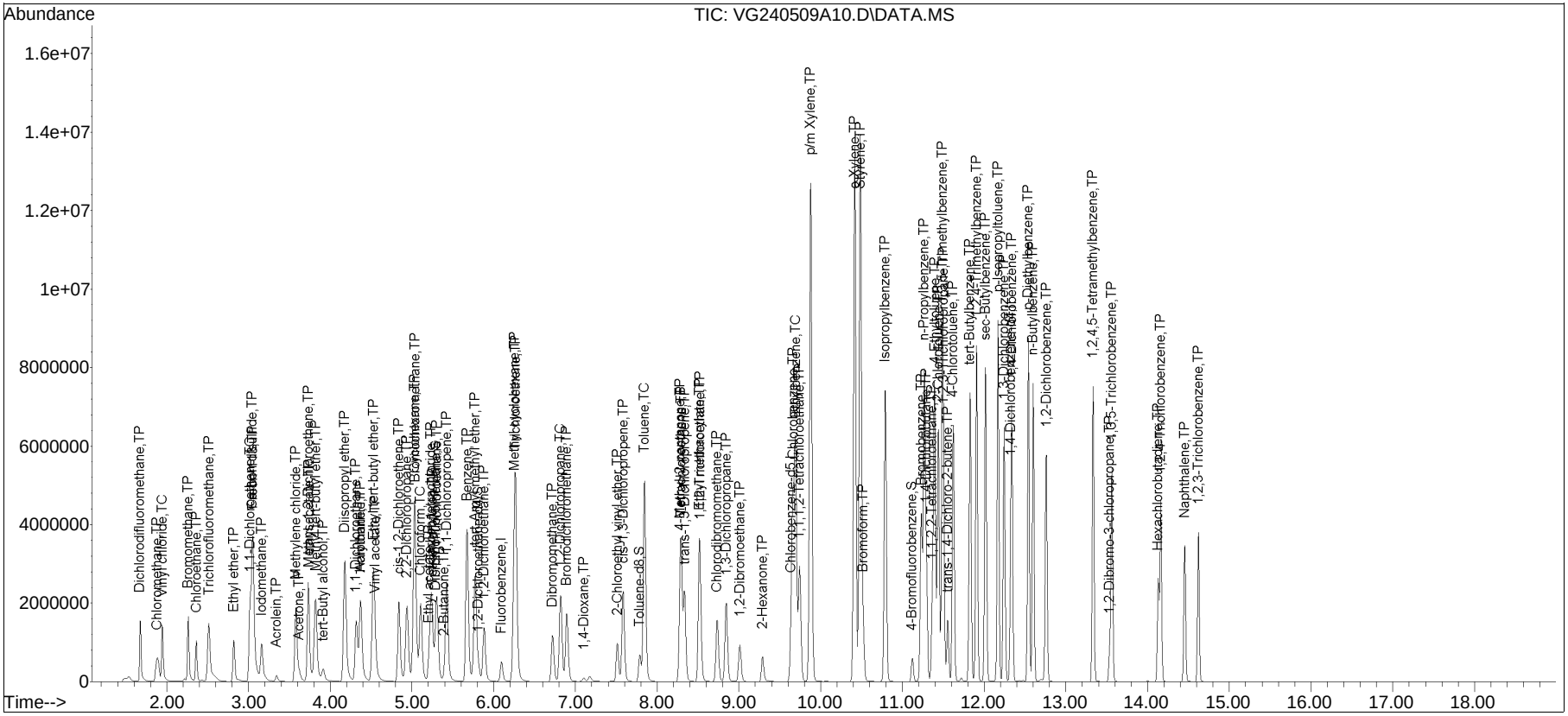
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A10.D
Acq On : 9 May 2024 8:37 pm
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1919586,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 10:47:53 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

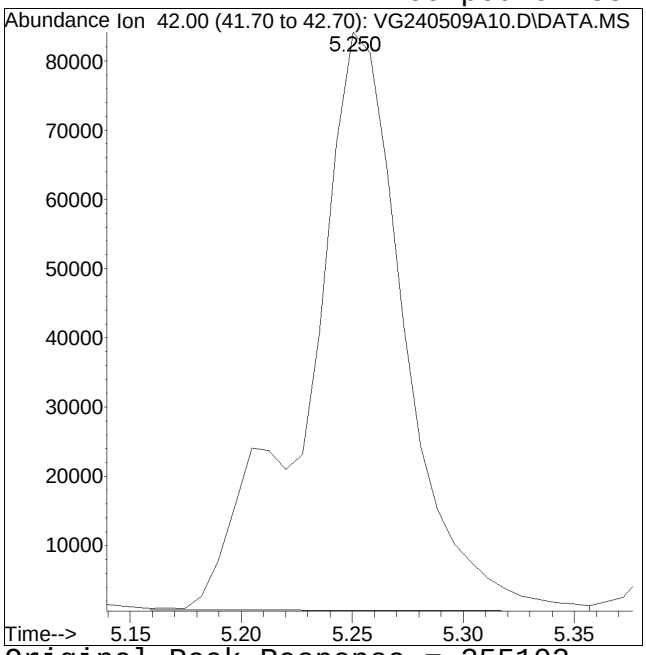
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



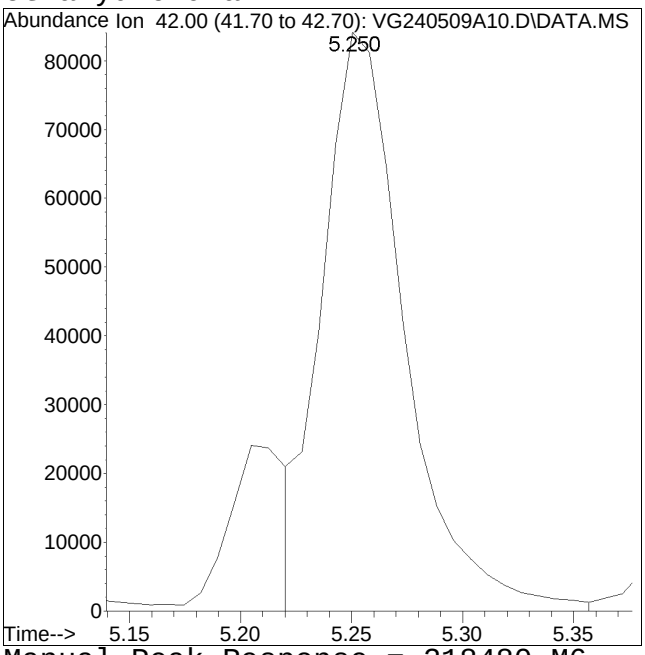
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A10.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 8:37 pm Instrument : Gonzo
Sample : I8260STD80PPB Quant Date : 5/10/2024 10:47 am

Compound #35: Tetrahydrofuran



Original Peak Response = 255102



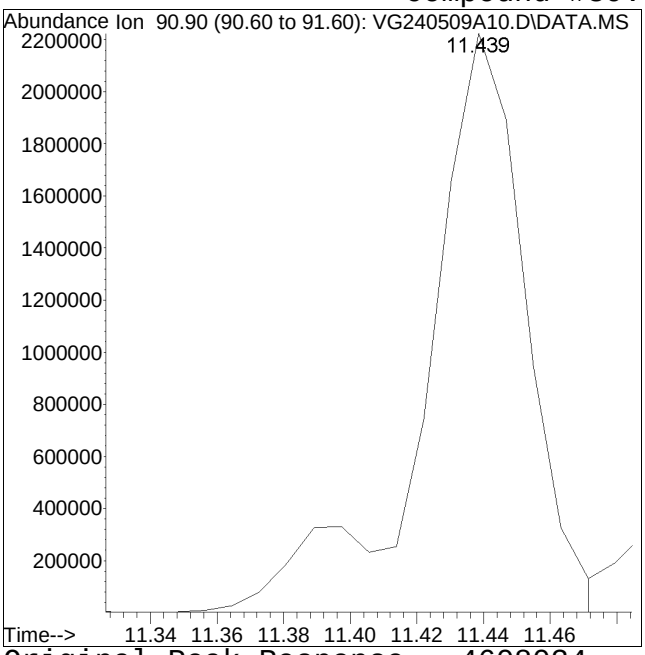
Manual Peak Response = 218480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

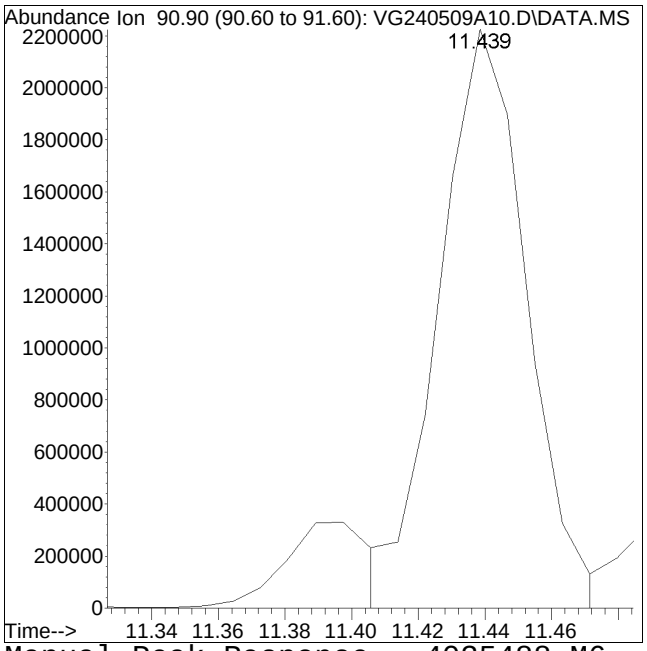
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A10.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 8:37 pm Instrument : Gonzo
Sample : I8260STD80PPB Quant Date : 5/10/2024 10:47 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 4608034



Manual Peak Response = 4035488 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A11.D
Acq On : 9 May 2024 9:01 pm
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1919586,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 10 10:48:01 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	562835	10.000	ug/L	0.00
Standard Area 1 = 481966			Recovery = 116.78%			
59) Chlorobenzene-d5	9.637	117	473309	10.000	ug/L	0.00
Standard Area 1 = 376675			Recovery = 125.65%			
79) 1,4-Dichlorobenzene-d4	12.327	152	298023	10.000	ug/L	0.00
Standard Area 1 = 214818			Recovery = 138.73%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.289	113	143455	9.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
43) 1,2-Dichloroethane-d4	5.813	65	175240	10.133	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.33%			
60) Toluene-d8	7.786	98	565036	9.702	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.02%			
83) 4-Bromofluorobenzene	11.126	95	231831	9.673	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	1783673	135.157	ug/L	98
3) Chloromethane	1.885	50	1733532	123.121	ug/L	98
4) Vinyl chloride	1.946	62	1968225	138.726	ug/L	99
5) Bromomethane	2.265	94	1410546	110.693	ug/L	99
6) Chloroethane	2.356	64	877560	95.607	ug/L	96
7) Trichlorofluoromethane	2.508	101	2581497	141.815	ug/L	99
8) Ethyl ether	2.820	74	697437	128.205	ug/L	82
10) 1,1-Dichloroethene	3.017	96	1392498	140.023	ug/L	84
11) Carbon disulfide	3.047	76	4299892	136.486	ug/L	100
12) Freon-113	3.055	101	1484117	142.835	ug/L #	73
13) Iodomethane	3.161	142	1973904	142.363	ug/L	96
14) Acrolein	3.344	56	225972	134.591	ug/L	98
15) Methylene chloride	3.579	84	1529674	126.300	ug/L	84
17) Acetone	3.617	43	366692	117.644	ug/L	96
18) trans-1,2-Dichloroethene	3.731	96	1512458	134.479	ug/L	88
19) Methyl acetate	3.731	43	771164	119.502	ug/L	94
20) Methyl tert-butyl ether	3.822	73	4038829	137.281	ug/L	91
21) tert-Butyl alcohol	3.914	59	626650	690.858	ug/L	98
22) Diisopropyl ether	4.179	45	5490020	139.418	ug/L	97
23) 1,1-Dichloroethane	4.316	63	3027338	135.312	ug/L	99
24) Halothane	4.369	117	1219915	136.771	ug/L	99

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A11.D
Acq On : 9 May 2024 9:01 pm
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1919586,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 10 10:48:01 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.369	53	418260	137.603	ug/L		97
26) Ethyl tert-butyl ether	4.529	59	5238973	141.371	ug/L	#	81
27) Vinyl acetate	4.544	43	1777825	121.378	ug/L	#	95
28) cis-1,2-Dichloroethene	4.840	96	1713216	131.018	ug/L		91
29) 2,2-Dichloropropane	4.939	77	2296345	138.196	ug/L		97
30) Bromochloromethane	5.038	128	770482	130.511	ug/L	#	85
31) Cyclohexane	5.030	56	2913062	145.293	ug/L		79
32) Chloroform	5.106	83	2843257	131.594	ug/L		96
33) Ethyl acetate	5.205	43	1253156	135.026	ug/L		97
34) Carbon tetrachloride	5.235	117	2347378	139.449	ug/L		99
35) Tetrahydrofuran	5.251	42	342488M6	123.136	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	2537820	137.057	ug/L		96
39) 2-Butanone	5.395	43	563969	137.074	ug/L	#	81
40) 1,1-Dichloropropene	5.425	75	2114852	138.964	ug/L		99
41) Benzene	5.676	78	6602634	138.701	ug/L		95
42) tert-Amyl methyl ether	5.775	73	4358414	142.877	ug/L		96
44) 1,2-Dichloroethane	5.881	62	2221726	129.474	ug/L		99
47) Methyl cyclohexane	6.253	83	2432439	142.092	ug/L	#	81
48) Trichloroethene	6.269	95	1968219	137.563	ug/L		99
50) Dibromomethane	6.717	93	917970	128.192	ug/L		93
51) 1,2-Dichloropropane	6.816	63	1637414	130.845	ug/L		98
53) 2-Chloroethyl vinyl ether	7.514	63	870567	143.812	ug/L		96
54) Bromodichloromethane	6.892	83	2194252	130.623	ug/L		99
57) 1,4-Dioxane	7.099	88	136124	1289.248	ug/L		87
58) cis-1,3-Dichloropropene	7.586	75	2537521	137.336	ug/L		92
61) Toluene	7.844	92	4357310	135.409	ug/L		97
62) 4-Methyl-2-pentanone	8.281	58	513546	142.629	ug/L		96
63) Tetrachloroethene	8.295	166	1711141	136.442	ug/L		94
65) trans-1,3-Dichloropropene	8.338	75	2358398	135.396	ug/L		99
67) Ethyl methacrylate	8.517	69	1785597	152.038	ug/L		99
68) 1,1,2-Trichloroethane	8.524	83	1171197	129.684	ug/L		99
69) Chlorodibromomethane	8.739	129	1782099	132.887	ug/L		99
70) 1,3-Dichloropropane	8.847	76	2235098	127.858	ug/L		99
71) 1,2-Dibromoethane	9.011	107	1327416	128.663	ug/L		100
72) 2-Hexanone	9.291	43	874628	145.559	ug/L		100
73) Chlorobenzene	9.662	112	5050101	138.962	ug/L		98
74) Ethylbenzene	9.695	91	9111694	145.420	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.744	131	1792882	136.158	ug/L		97
76) p/m Xylene	9.884	106	7432950	298.299	ug/L		96
77) o Xylene	10.419	106	7320224	298.095	ug/L		95

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A11.D
Acq On : 9 May 2024 9:01 pm
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1919586,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 10 10:48:01 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.485	104	13256356	317.368	ug/L		99
80) Bromoform	10.517	173	1321727	135.947	ug/L		99
82) Isopropylbenzene	10.789	105	9301140	146.281	ug/L		99
84) Bromobenzene	11.233	156	2243180	128.677	ug/L		98
85) n-Propylbenzene	11.266	91	10812451	145.680	ug/L		99
86) 1,4-Dichlorobutane	11.299	55	2748095	132.878	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.365	83	1615278	123.279	ug/L		98
88) 4-Ethyltoluene	11.398	105	9090053	146.813	ug/L		98
89) 2-Chlorotoluene	11.439	91	6543777M6	139.228	ug/L		
90) 1,3,5-Trimethylbenzene	11.496	105	8076868	142.770	ug/L		99
91) 1,2,3-Trichloropropane	11.505	75	1646296M1	132.042	ug/L		
92) trans-1,4-Dichloro-2-b...	11.554	53	568861	131.939	ug/L	#	96
93) 4-Chlorotoluene	11.620	91	6780188	136.690	ug/L		99
94) tert-Butylbenzene	11.834	119	6453651	145.941	ug/L		97
97) 1,2,4-Trimethylbenzene	11.908	105	7992848	144.928	ug/L		99
98) sec-Butylbenzene	12.023	105	9228168	148.395	ug/L		98
99) p-Isopropyltoluene	12.171	119	8245599	150.157	ug/L		98
100) 1,3-Dichlorobenzene	12.245	146	4463519	135.363	ug/L		98
101) 1,4-Dichlorobenzene	12.344	146	4497699	131.912	ug/L		98
102) p-Diethylbenzene	12.541	119	4755817	150.468	ug/L		97
103) n-Butylbenzene	12.599	91	6485328	146.701	ug/L		99
104) 1,2-Dichlorobenzene	12.763	146	4117377	132.968	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.331	119	6869532	155.891	ug/L		95
106) 1,2-Dibromo-3-chloropr...	13.536	155	309828	131.947	ug/L		96
107) 1,3,5-Trichlorobenzene	13.561	180	2701377	139.827	ug/L		98
108) Hexachlorobutadiene	14.129	225	720675	135.854	ug/L		99
109) 1,2,4-Trichlorobenzene	14.162	180	2191711	135.004	ug/L		99
110) Naphthalene	14.458	128	4787295	141.814	ug/L		100
111) 1,2,3-Trichlorobenzene	14.622	180	1759419	131.810	ug/L		99

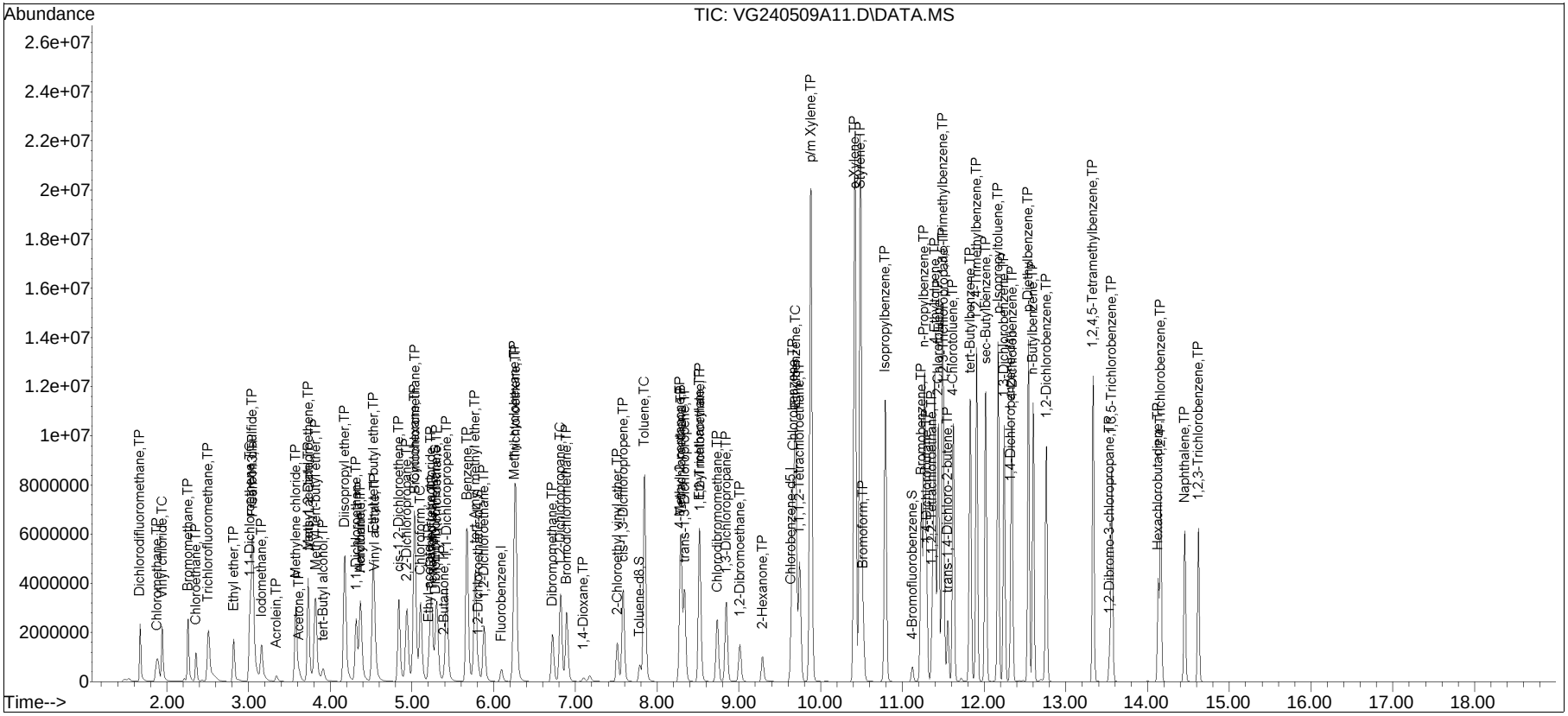
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A11.D
Acq On : 9 May 2024 9:01 pm
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1919586,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 10 10:48:01 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

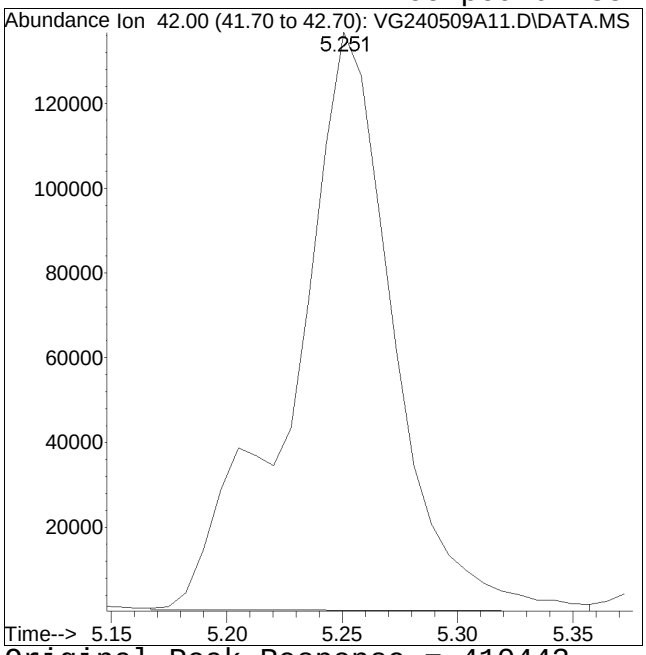
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



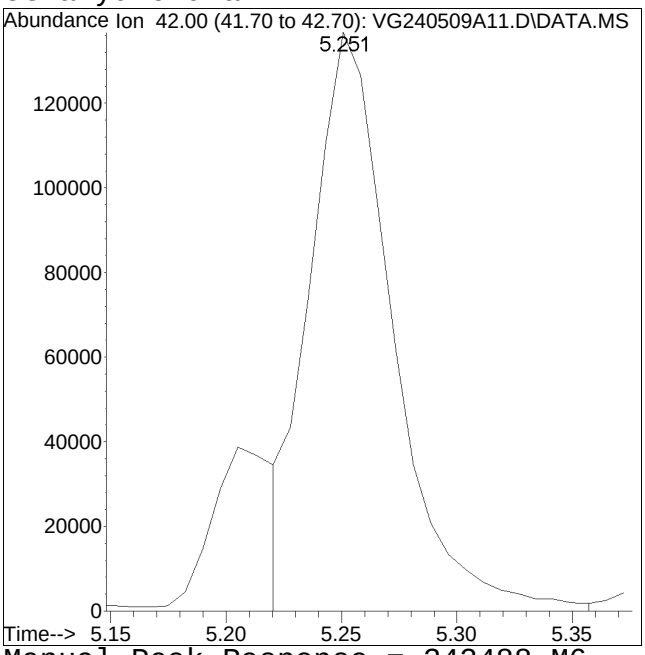
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A11.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 9:01 pm Instrument : Gonzo
Sample : I8260STD120PPB Quant Date : 5/10/2024 10:47 am

Compound #35: Tetrahydrofuran



Original Peak Response = 410443



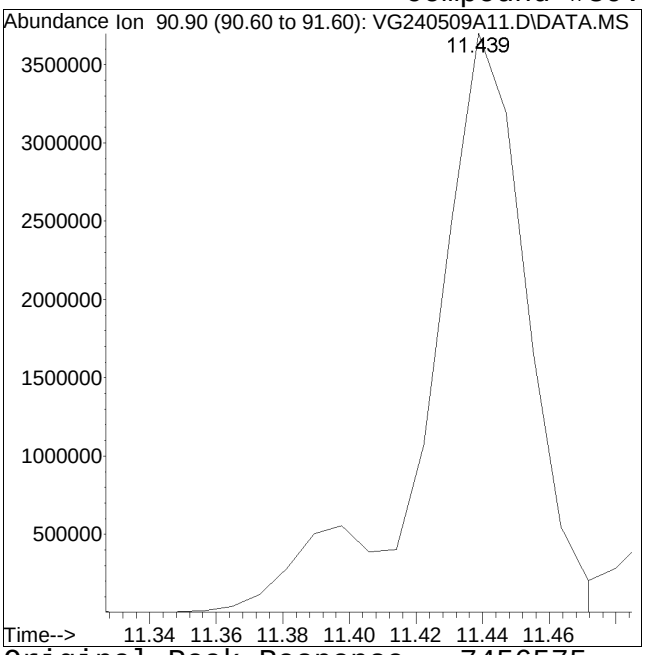
Manual Peak Response = 342488 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

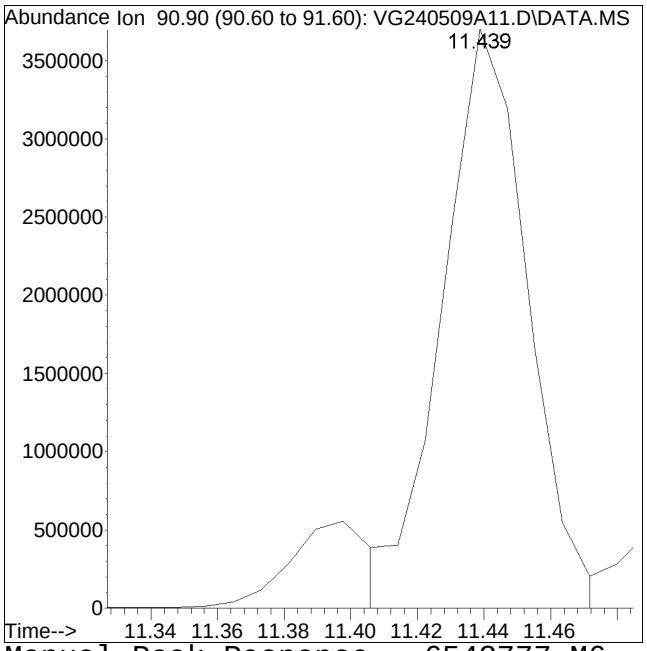
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A11.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 9:01 pm Instrument : Gonzo
Sample : I8260STD120PPB Quant Date : 5/10/2024 10:47 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 7456575



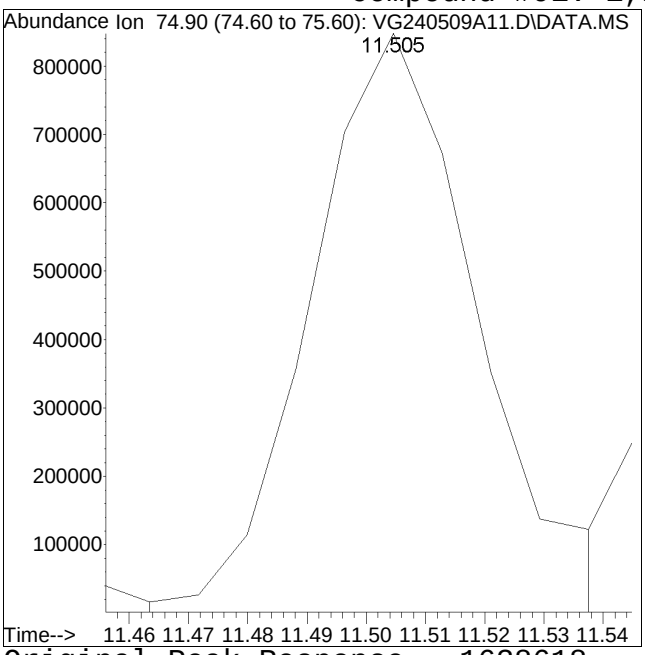
Manual Peak Response = 6543777 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

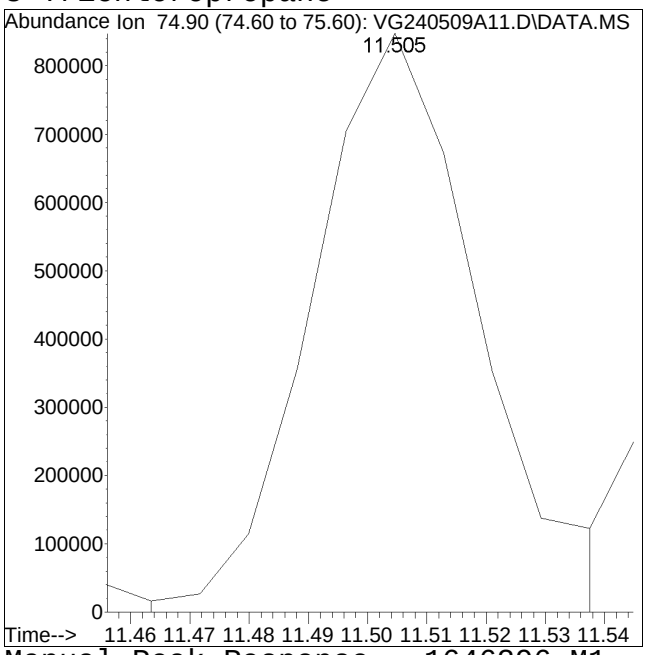
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A11.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 9:01 pm Instrument : Gonzo
Sample : I8260STD120PPB Quant Date : 5/10/2024 10:47 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1638618



Manual Peak Response = 1646296 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A12.D
Acq On : 9 May 2024 9:24 pm
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1919586,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 10 10:48:08 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	573446	10.000	ug/L	0.00
Standard Area 1 = 481966			Recovery = 118.98%			
59) Chlorobenzene-d5	9.645	117	515315	10.000	ug/L	0.00
Standard Area 1 = 376675			Recovery = 136.81%			
79) 1,4-Dichlorobenzene-d4	12.327	152	326012	10.000	ug/L	0.00
Standard Area 1 = 214818			Recovery = 151.76%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	151036	10.284	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.84%			
43) 1,2-Dichloroethane-d4	5.813	65	188454	10.696	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.96%			
60) Toluene-d8	7.786	98	586406	9.248	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.48%			
83) 4-Bromofluorobenzene	11.126	95	246033	9.384	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	2946683	219.152	ug/L	98
3) Chloromethane	1.885	50	2878138	200.633	ug/L	99
4) Vinyl chloride	1.946	62	3337358	230.874	ug/L	99
5) Bromomethane	2.257	94	2465452	189.898	ug/L	98
6) Chloroethane	2.356	64	1101405	117.773	ug/L	98
7) Trichlorofluoromethane	2.500	101	4354310	234.778	ug/L	99
8) Ethyl ether	2.819	74	1211413	218.565	ug/L	84
10) 1,1-Dichloroethene	3.017	96	2405786	237.439	ug/L	84
11) Carbon disulfide	3.047	76	7577279	236.066	ug/L	99
12) Freon-113	3.047	101	2582766	243.972	ug/L #	72
13) Iodomethane	3.161	142	3349288	237.089	ug/L	96
14) Acrolein	3.343	56	390324	228.179	ug/L	99
15) Methylene chloride	3.579	84	2636972	213.697	ug/L	85
17) Acetone	3.617	43	620078	195.255	ug/L	96
18) trans-1,2-Dichloroethene	3.731	96	2635835	230.026	ug/L	87
19) Methyl acetate	3.731	43	1362122	207.172	ug/L	95
20) Methyl tert-butyl ether	3.822	73	7076472	236.081	ug/L	92
21) tert-Butyl alcohol	3.913	59	1094144	1183.932	ug/L	95
22) Diisopropyl ether	4.179	45	9596281	239.186	ug/L	97
23) 1,1-Dichloroethane	4.324	63	5078084	222.774	ug/L	99
24) Halothane	4.369	117	2116455	232.897	ug/L	99

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A12.D
Acq On : 9 May 2024 9:24 pm
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1919586,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 10 10:48:08 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.369	53	733645	236.896	ug/L		97
26) Ethyl tert-butyl ether	4.529	59	9344684	247.495	ug/L	#	81
27) Vinyl acetate	4.544	43	3109992	208.401	ug/L		96
28) cis-1,2-Dichloroethene	4.840	96	2998779	225.087	ug/L		92
29) 2,2-Dichloropropane	4.939	77	3892678	229.929	ug/L		98
30) Bromochloromethane	5.038	128	1368758	227.562	ug/L	#	87
31) Cyclohexane	5.030	56	5163462	252.770	ug/L		79
32) Chloroform	5.106	83	4976732	226.075	ug/L		97
33) Ethyl acetate	5.205	43	2149671	227.339	ug/L		97
34) Carbon tetrachloride	5.235	117	3960254	230.911	ug/L		99
35) Tetrahydrofuran	5.250	42	574534M6	202.742	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	4310187	228.467	ug/L		97
39) 2-Butanone	5.395	43	933729	222.746	ug/L	#	81
40) 1,1-Dichloropropene	5.425	75	3593191	231.734	ug/L		99
41) Benzene	5.676	78	11666750	240.547	ug/L		95
42) tert-Amyl methyl ether	5.775	73	7819535	251.595	ug/L		97
44) 1,2-Dichloroethane	5.881	62	3835862	219.403	ug/L		99
47) Methyl cyclohexane	6.253	83	4458856	255.646	ug/L	#	83
48) Trichloroethene	6.268	95	3489441	239.372	ug/L		99
50) Dibromomethane	6.717	93	1574434	215.796	ug/L		93
51) 1,2-Dichloropropane	6.823	63	2857213	224.093	ug/L		98
53) 2-Chloroethyl vinyl ether	7.514	63	1504954	244.008	ug/L		96
54) Bromodichloromethane	6.891	83	3824935	223.484	ug/L		99
57) 1,4-Dioxane	7.106	88	234595	2180.766	ug/L		90
58) cis-1,3-Dichloropropene	7.586	75	4457135	236.766	ug/L		94
61) Toluene	7.843	92	7742023	220.982	ug/L		97
62) 4-Methyl-2-pentanone	8.280	58	913137	232.935	ug/L		95
63) Tetrachloroethene	8.295	166	3028870	221.828	ug/L		95
65) trans-1,3-Dichloropropene	8.338	75	4236526	223.394	ug/L		98
67) Ethyl methacrylate	8.517	69	3226745	252.351	ug/L		99
68) 1,1,2-Trichloroethane	8.524	83	2113940	214.991	ug/L		98
69) Chlorodibromomethane	8.739	129	3129255	214.320	ug/L		99
70) 1,3-Dichloropropane	8.846	76	3863929	203.017	ug/L		100
71) 1,2-Dibromoethane	9.011	107	2275238	202.557	ug/L		99
72) 2-Hexanone	9.290	43	1470493	224.776	ug/L		98
73) Chlorobenzene	9.662	112	8996212	227.367	ug/L		99
74) Ethylbenzene	9.694	91	16122646	236.338	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.744	131	3249685	226.675	ug/L		97
76) p/m Xylene	9.884	106	13207528	486.838	ug/L		79
77) o Xylene	10.418	106	12806008	478.979	ug/L		78

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A12.D
Acq On : 9 May 2024 9:24 pm
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1919586,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 10 10:48:08 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.484	104	19754689	434.392	ug/L		88
80)	Bromoform	10.525	173	2289990	215.316	ug/L		100
82)	Isopropylbenzene	10.797	105	16046679	230.702	ug/L		99
84)	Bromobenzene	11.233	156	3963591	207.846	ug/L		99
85)	n-Propylbenzene	11.266	91	16868001	207.757	ug/L		96
86)	1,4-Dichlorobutane	11.299	55	4734005	209.251	ug/L		97
87)	1,1,2,2-Tetrachloroethane	11.373	83	2887643	201.466	ug/L		98
88)	4-Ethyltoluene	11.397	105	15601156	230.342	ug/L		100
89)	2-Chlorotoluene	11.438	91	11395480M6	221.640	ug/L		
90)	1,3,5-Trimethylbenzene	11.496	105	14057928	227.160	ug/L		100
91)	1,2,3-Trichloropropane	11.504	75	2817457	206.576	ug/L		98
92)	trans-1,4-Dichloro-2-b...	11.554	53	994460	210.849	ug/L	#	98
93)	4-Chlorotoluene	11.628	91	11910068	219.495	ug/L		99
94)	tert-Butylbenzene	11.833	119	11226775	232.083	ug/L		98
97)	1,2,4-Trimethylbenzene	11.907	105	13917076	230.683	ug/L		99
98)	sec-Butylbenzene	12.014	105	15251495	224.199	ug/L		100
99)	p-Isopropyltoluene	12.171	119	14097668	234.686	ug/L		98
100)	1,3-Dichlorobenzene	12.245	146	7920857	219.588	ug/L		98
101)	1,4-Dichlorobenzene	12.343	146	7982683	214.023	ug/L		98
102)	p-Diethylbenzene	12.549	119	8319895	240.631	ug/L		97
103)	n-Butylbenzene	12.607	91	11207998	231.763	ug/L		99
104)	1,2-Dichlorobenzene	12.763	146	7423170	219.146	ug/L		98
105)	1,2,4,5-Tetramethylben...	13.339	119	12270265	254.545	ug/L		95
106)	1,2-Dibromo-3-chloropr...	13.536	155	553360	215.428	ug/L		96
107)	1,3,5-Trichlorobenzene	13.569	180	4776346	226.005	ug/L		98
108)	Hexachlorobutadiene	14.137	225	1273082	219.384	ug/L		99
109)	1,2,4-Trichlorobenzene	14.161	180	3940526	221.888	ug/L		98
110)	Naphthalene	14.458	128	8464030	229.204	ug/L		100
111)	1,2,3-Trichlorobenzene	14.622	180	3072021	210.387	ug/L		98

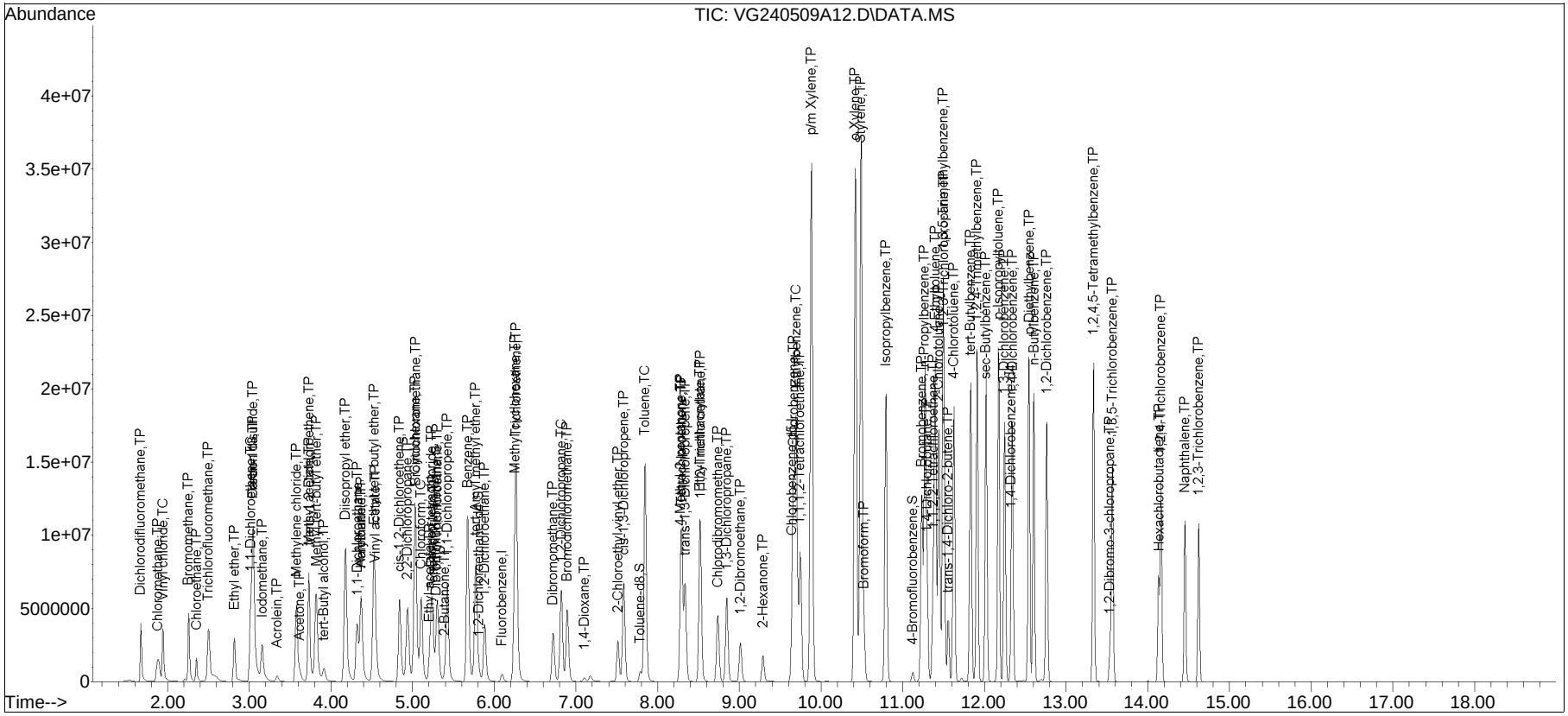
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A12.D
Acq On : 9 May 2024 9:24 pm
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1919586,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 10 10:48:08 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 10:43:31 2024
Response via : Initial Calibration

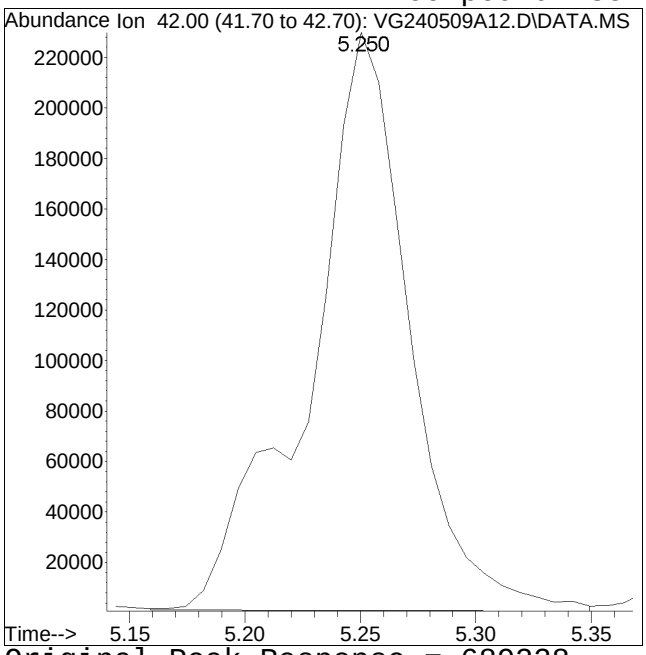
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



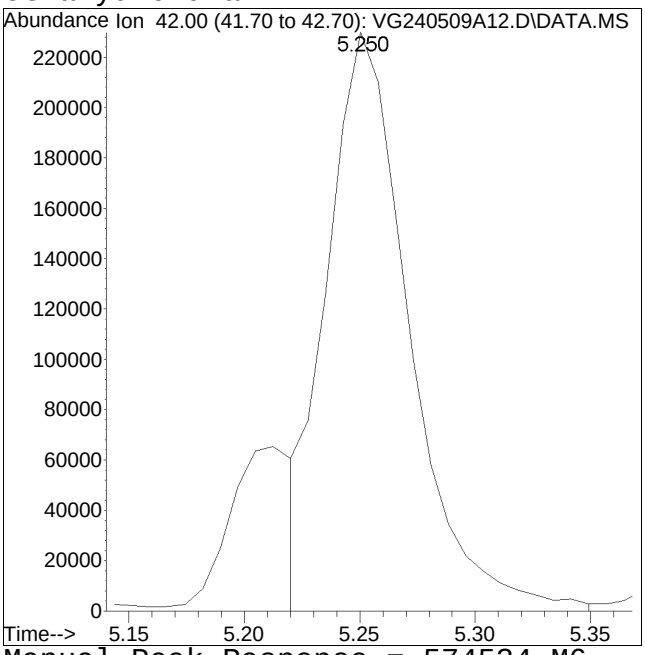
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A12.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 9:24 pm Instrument : Gonzo
Sample : I8260STD200PPB Quant Date : 5/10/2024 10:48 am

Compound #35: Tetrahydrofuran



Original Peak Response = 689228



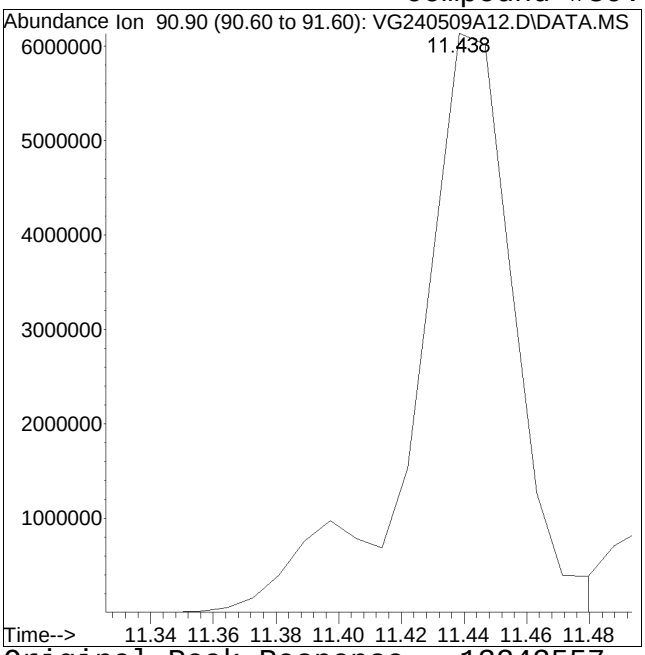
Manual Peak Response = 574534 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

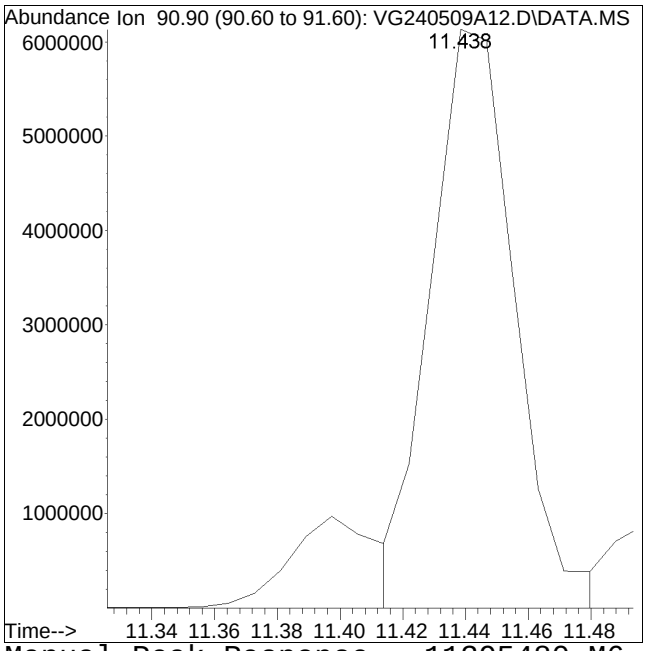
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A12.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 9:24 pm Instrument : Gonzo
Sample : I8260STD200PPB Quant Date : 5/10/2024 10:48 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 13243557



Manual Peak Response = 11395480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL (Sig #1); WG,ICAL (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.00
2	TP	Dichlorodifluoromethane	0.254	0.311	-22.4#	126	0.00
3	TP	Chloromethane	0.250	0.295	-18.0	124	0.00
4	TC	Vinyl chloride	0.252	0.287	-13.9	113	0.00
5	TP	Bromomethane	* 10.000	11.229	-12.3	120	0.00
6	TP	Chloroethane	0.174	0.196	-12.6	105	0.00
7	TP	Trichlorofluoromethane	0.349	0.324	7.2	101	0.00
8	TP	Ethyl ether	0.097	0.130	-34.0#	146	0.00
10	TC	1,1-Dichloroethene	0.177	0.185	-4.5	110	0.00
11	TP	Carbon disulfide	0.560	0.329	41.3#	64	0.00
12	TP	Freon-113	0.201	0.199	1.0	110	0.00
13	TP	Iodomethane	0.246	0.206	16.3	105	0.00
14	TP	Acrolein	0.030	0.020	33.3#	71	0.00
15	TP	Methylene chloride	0.215	0.208	3.3	107	0.00
17	TP	Acetone	0.055	0.039	29.1#	83	0.00
18	TP	trans-1,2-Dichloroethene	0.200	0.203	-1.5	111	0.00
19	TP	Methyl acetate	0.115	0.091	20.9#	96	0.00
20	TP	Methyl tert-butyl ether	0.523	0.590	-12.8	127	0.00
21	TP	tert-Butyl alcohol	0.016	0.017	-6.3	123	0.00
22	TP	Diisopropyl ether	0.700	0.764	-9.1	123	0.00
23	TP	1,1-Dichloroethane	0.398	0.391	1.8	106	0.00
24	TP	Halothane	0.158	0.160	-1.3	107	0.00
25	TP	Acrylonitrile	0.054	0.051	5.6	100	0.00
26	TP	Ethyl tert-butyl ether	0.658	0.710	-7.9	125	0.00
27	TP	Vinyl acetate	0.260	0.178	31.5#	72	0.00
28	TP	cis-1,2-Dichloroethene	0.232	0.222	4.3	109	0.00
29	TP	2,2-Dichloropropane	0.295	0.260	11.9	96	0.00
30	TP	Bromochloromethane	0.105	0.103	1.9	106	0.00
31	TP	Cyclohexane	* 10.000	8.988	10.1	109	0.00
32	TC	Chloroform	0.384	0.377	1.8	108	0.00
33	TP	Ethyl acetate	0.165	0.155	6.1	103	0.00
34	TP	Carbon tetrachloride	0.299	0.316	-5.7	112	0.00
35	TP	Tetrahydrofuran	0.049	0.059	-20.4#	121	0.00
36	S	Dibromofluoromethane	0.256	0.249	2.7	104	0.00
37	TP	1,1,1-Trichloroethane	0.329	0.339	-3.0	108	0.00
39	TP	2-Butanone	0.073	0.065	11.0	89	0.00
40	TP	1,1-Dichloropropene	0.270	0.284	-5.2	112	0.00
41	TP	Benzene	0.846	0.817	3.4	103	0.00
42	TP	tert-Amyl methyl ether	0.542	0.585	-7.9	125	0.00

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL (Sig #1); WG,ICAL (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.307	0.296	3.6	100	0.00
44	TP	1,2-Dichloroethane	0.305	0.285	6.6	104	0.00
47	TP	Methyl cyclohexane	* 10.000	9.266	7.3	121	0.00
48	TP	Trichloroethene	0.254	0.259	-2.0	116	0.00
50	TP	Dibromomethane	0.127	0.123	3.1	108	0.00
51	TC	1,2-Dichloropropane	0.218	0.220	-0.9	107	0.00
53	TP	2-Chloroethyl vinyl ether	0.108	0.106	1.9	115	0.00
54	TP	Bromodichloromethane	0.298	0.281#	5.7	104	0.00
57	TP	1,4-Dioxane	0.00188	0.00186#	1.1	114	0.00
58	TP	cis-1,3-Dichloropropene	0.328	0.316	3.7	110	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
60	S	Toluene-d8	1.230	1.272	-3.4	104	0.00
61	TC	Toluene	0.680	0.678	0.3	106	0.00
62	TP	4-Methyl-2-pentanone	0.076	0.070	7.9	102	0.00
63	TP	Tetrachloroethene	0.265	0.292	-10.2	119	0.00
65	TP	trans-1,3-Dichloropropene	0.368	0.358	2.7	106	0.00
67	TP	Ethyl methacrylate	0.263	0.320	-21.7#	144	0.00
68	TP	1,1,2-Trichloroethane	0.191	0.180#	5.8	106	0.00
69	TP	Chlorodibromomethane	0.283	0.276	2.5	106	0.00
70	TP	1,3-Dichloropropane	0.369	0.367	0.5	106	0.00
71	TP	1,2-Dibromoethane	0.218	0.219	-0.5	105	0.00
72	TP	2-Hexanone	0.127	0.112	11.8	98	0.00
73	TP	Chlorobenzene	0.768	0.768	0.0	109	0.00
74	TC	Ethylbenzene	1.324	1.273	3.9	109	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.278	0.272	2.2	107	0.00
76	TP	p/m Xylene	* 20.000	18.254	8.7	110	0.00
77	TP	o Xylene	* 20.000	19.460	2.7	119	0.00
78	TP	Styrene	* 20.000	20.804	-4.0	119	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
80	TP	Bromoform	0.326	0.307	5.8	109	0.00
82	TP	Isopropylbenzene	* 10.000	8.534	14.7	109	0.00
83	S	4-Bromofluorobenzene	0.804	0.799	0.6	104	0.00
84	TP	Bromobenzene	0.585	0.577	1.4	109	0.00
85	TP	n-Propylbenzene	2.474	2.553	-3.2	116	0.00
86	TP	1,4-Dichlorobutane	0.694	0.867	-24.9#	135	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.440	0.382	13.2	92	0.00
88	TP	4-Ethyltoluene	2.201	2.557	-16.2	137	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL (Sig #1); WG,ICAL (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene		1.577	1.534	2.7	107	0.00
90 TP	1,3,5-Trimethylbenzene		1.898	1.849	2.6	109	0.00
91 TP	1,2,3-Trichloropropane		0.418	0.391	6.5	104	0.00
92 TP	trans-1,4-Dichloro-2-butene		0.145	0.167	-15.2	126	0.00
93 TP	4-Chlorotoluene		1.664	1.615	2.9	106	0.00
94 TP	tert-Butylbenzene	*	10.000	9.650	3.5	120	0.00
97 TP	1,2,4-Trimethylbenzene		1.851	1.868	-0.9	114	0.00
98 TP	sec-Butylbenzene	*	10.000	10.131	-1.3	121	0.00
99 TP	p-Isopropyltoluene	*	10.000	10.086	-0.9	119	0.00
100 TP	1,3-Dichlorobenzene		1.106	1.095	1.0	110	0.00
101 TP	1,4-Dichlorobenzene		1.144	1.126	1.6	110	0.00
102 TP	p-Diethylbenzene		1.105	1.227	-11.0	136	0.00
103 TP	n-Butylbenzene	*	10.000	9.484	5.2	123	0.00
104 TP	1,2-Dichlorobenzene		1.039	1.031	0.8	108	0.00
105 TP	1,2,4,5-Tetramethylbenzene		1.583	1.754	-10.8	138	0.00
106 TP	1,2-Dibromo-3-chloropropane		0.079	0.075	5.1	103	0.00
107 TP	1,3,5-Trichlorobenzene		0.648	0.640	1.2	111	0.00
108 TP	Hexachlorobutadiene		0.178	0.190	-6.7	128	0.00
109 TP	1,2,4-Trichlorobenzene		0.545	0.542	0.6	110	0.00
110 TP	Naphthalene		1.133	1.085	4.2	103	0.00
111 TP	1,2,3-Trichlorobenzene		0.448	0.452	-0.9	110	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	506922	10.000	ug/L	0.00
Standard Area 1 = 481966			Recovery = 105.18%			
59) Chlorobenzene-d5	9.637	117	393837	10.000	ug/L	0.00
Standard Area 1 = 376675			Recovery = 104.56%			
79) 1,4-Dichlorobenzene-d4	12.327	152	226849	10.000	ug/L	0.00
Standard Area 1 = 214818			Recovery = 105.60%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	126072	9.711	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.11%			
43) 1,2-Dichloroethane-d4	5.813	65	149807	9.618	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.18%			
60) Toluene-d8	7.786	98	500906	10.336	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.36%			
83) 4-Bromofluorobenzene	11.118	95	181333	9.940	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	157521	12.239	ug/L	98
3) Chloromethane	1.885	50	149403	11.781	ug/L	98
4) Vinyl chloride	1.946	62	145350	11.375	ug/L	99
5) Bromomethane	2.265	94	120164	11.229	ug/L	100
6) Chloroethane	2.364	64	99380	11.250	ug/L	95
7) Trichlorofluoromethane	2.515	101	164484	9.310	ug/L	93
8) Ethyl ether	2.827	74	66033	13.477	ug/L	87
10) 1,1-Dichloroethene	3.024	96	93586	10.449	ug/L	88
11) Carbon disulfide	3.055	76	166641	5.873	ug/L	99
12) Freon-113	3.055	101	100708	9.886	ug/L #	69
13) Iodomethane	3.161	142	104277	8.350	ug/L	98
14) Acrolein	3.351	56	10356	6.848	ug/L	96
15) Methylene chloride	3.579	84	105682	9.688	ug/L	87
17) Acetone	3.632	43	19950	7.106	ug/L	91
18) trans-1,2-Dichloroethene	3.731	96	102673	10.136	ug/L	93
19) Methyl acetate	3.739	43	46032	7.920	ug/L	95
20) Methyl tert-butyl ether	3.822	73	299325	11.296	ug/L	92
21) tert-Butyl alcohol	3.921	59	43624	53.399	ug/L	88
22) Diisopropyl ether	4.179	45	387500	10.926	ug/L	98
23) 1,1-Dichloroethane	4.324	63	198154	9.834	ug/L	99
24) Halothane	4.377	117	81062	10.091	ug/L	100

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.377	53	25739	9.402	ug/L		98
26) Ethyl tert-butyl ether	4.529	59	359892	10.783	ug/L	#	76
27) Vinyl acetate	4.559	43	90179	6.836	ug/L	#	92
28) cis-1,2-Dichloroethene	4.840	96	112430	9.546	ug/L		93
29) 2,2-Dichloropropane	4.939	77	131744	8.803	ug/L		95
30) Bromochloromethane	5.038	128	52228	9.823	ug/L		92
31) Cyclohexane	5.030	56	175926	8.988	ug/L		80
32) Chloroform	5.106	83	191171	9.824	ug/L		98
33) Ethyl acetate	5.220	43	78799	9.427	ug/L		98
34) Carbon tetrachloride	5.235	117	160050	10.557	ug/L		96
35) Tetrahydrofuran	5.258	42	30007M6	11.978	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	171872	10.306	ug/L		95
39) 2-Butanone	5.410	43	33067	8.923	ug/L		90
40) 1,1-Dichloropropene	5.425	75	144097	10.513	ug/L		99
41) Benzene	5.676	78	414359	9.664	ug/L		96
42) tert-Amyl methyl ether	5.775	73	296425	10.789	ug/L		93
44) 1,2-Dichloroethane	5.889	62	144600	9.356	ug/L		99
47) Methyl cyclohexane	6.253	83	154008	9.266	ug/L		84
48) Trichloroethene	6.276	95	131179	10.180	ug/L		98
50) Dibromomethane	6.724	93	62493	9.690	ug/L		95
51) 1,2-Dichloropropane	6.823	63	111457	10.091	ug/L		98
53) 2-Chloroethyl vinyl ether	7.514	63	53911	9.888	ug/L		96
54) Bromodichloromethane	6.899	83	142520	9.420	ug/L		99
57) 1,4-Dioxane	7.098	88	47183	496.166	ug/L		92
58) cis-1,3-Dichloropropene	7.586	75	160370	9.637	ug/L		92
61) Toluene	7.843	92	267062	9.974	ug/L		98
62) 4-Methyl-2-pentanone	8.288	58	27386	9.141	ug/L		97
63) Tetrachloroethene	8.295	166	115032	11.023	ug/L		97
65) trans-1,3-Dichloropropene	8.338	75	140845	9.718	ug/L		95
67) Ethyl methacrylate	8.517	69	125943	12.137	ug/L		95
68) 1,1,2-Trichloroethane	8.524	83	70809	9.423	ug/L		100
69) Chlorodibromomethane	8.739	129	108559	9.728	ug/L		98
70) 1,3-Dichloropropane	8.846	76	144450	9.931	ug/L		99
71) 1,2-Dibromoethane	9.011	107	86091	10.028	ug/L		99
72) 2-Hexanone	9.298	43	44117	8.824	ug/L		98
73) Chlorobenzene	9.662	112	302487	10.003	ug/L		99
74) Ethylbenzene	9.695	91	501413	9.617	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.744	131	107069	9.772	ug/L		97
76) p/m Xylene	9.876	106	396027	18.254	ug/L		98
77) o Xylene	10.418	106	422846	19.460	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240509AICAL\VG240509A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.484	104	719432	20.804	ug/L		98
80)	Bromoform	10.517	173	69615	9.407	ug/L		99
82)	Isopropylbenzene	10.797	105	460005	8.534	ug/L		99
84)	Bromobenzene	11.233	156	130946	9.868	ug/L		98
85)	n-Propylbenzene	11.266	91	579242	10.320	ug/L		99
86)	1,4-Dichlorobutane	11.299	55	196703	12.495	ug/L		98
87)	1,1,2,2-Tetrachloroethane	11.365	83	86618	8.685	ug/L		99
88)	4-Ethyltoluene	11.397	105	580047	11.616	ug/L		100
89)	2-Chlorotoluene	11.439	91	348096M6	9.730	ug/L		
90)	1,3,5-Trimethylbenzene	11.488	105	419473	9.741	ug/L		100
91)	1,2,3-Trichloropropane	11.504	75	88656M4	9.342	ug/L		
92)	trans-1,4-Dichloro-2-b...	11.554	53	37831	11.527	ug/L	#	95
93)	4-Chlorotoluene	11.620	91	366332	9.702	ug/L		98
94)	tert-Butylbenzene	11.825	119	352238	9.650	ug/L		98
97)	1,2,4-Trimethylbenzene	11.907	105	423839	10.096	ug/L		99
98)	sec-Butylbenzene	12.014	105	491288	10.131	ug/L		99
99)	p-Isopropyltoluene	12.171	119	429828	10.086	ug/L		98
100)	1,3-Dichlorobenzene	12.245	146	248329	9.894	ug/L		97
101)	1,4-Dichlorobenzene	12.335	146	255543	9.846	ug/L		99
102)	p-Diethylbenzene	12.541	119	278367	11.101	ug/L		98
103)	n-Butylbenzene	12.598	91	357385	9.484	ug/L		98
104)	1,2-Dichlorobenzene	12.763	146	233796	9.919	ug/L		98
105)	1,2,4,5-Tetramethylben...	13.339	119	397782	11.077	ug/L		95
106)	1,2-Dibromo-3-chloropr...	13.544	155	16920	9.467	ug/L		98
107)	1,3,5-Trichlorobenzene	13.561	180	145204	9.874	ug/L		99
108)	Hexachlorobutadiene	14.137	225	43126	10.680	ug/L		98
109)	1,2,4-Trichlorobenzene	14.161	180	123028	9.956	ug/L		97
110)	Naphthalene	14.458	128	246124	9.578	ug/L		100
111)	1,2,3-Trichlorobenzene	14.622	180	102569	10.095	ug/L		98

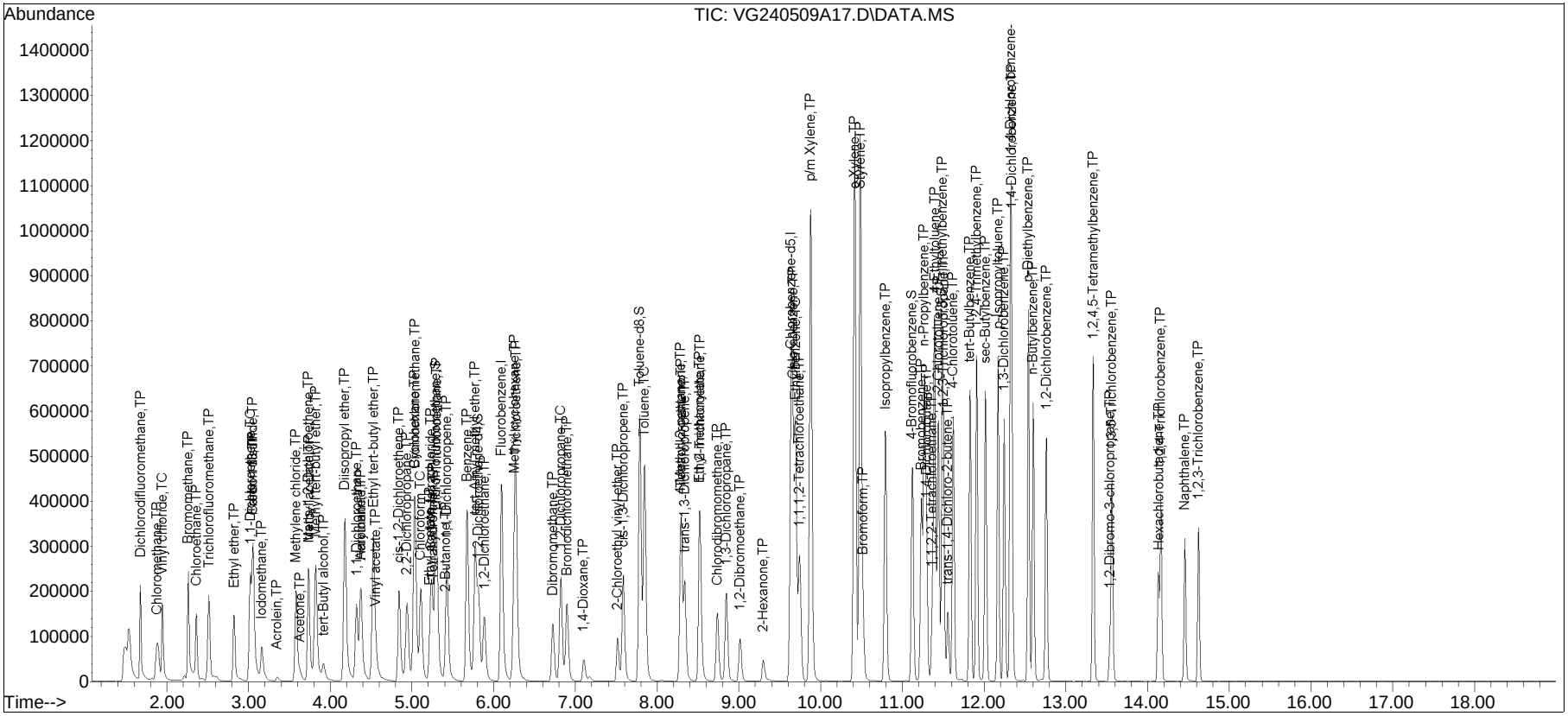
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240509AICAL\
Data File : VG240509A17.D
Acq On : 9 May 2024 11:24 pm
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1919586,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 11:04:54 2024
Quant Method : K:\Gonzo\2024\240509AICAL\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

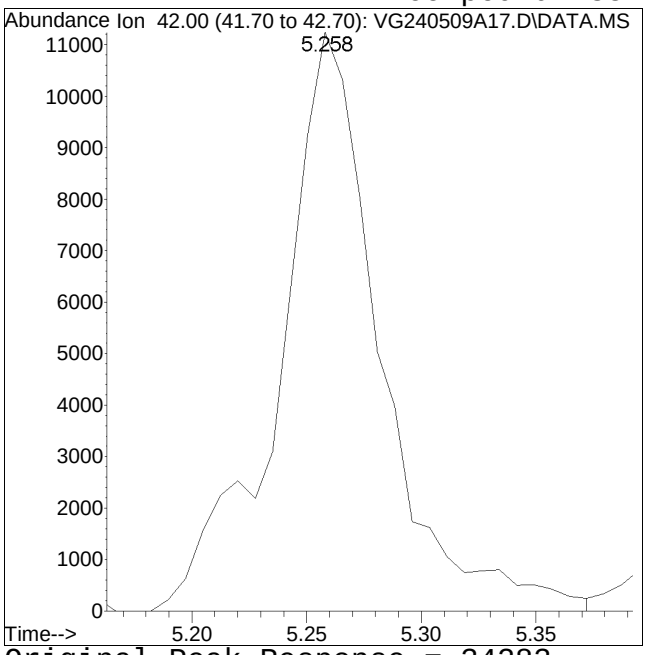
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



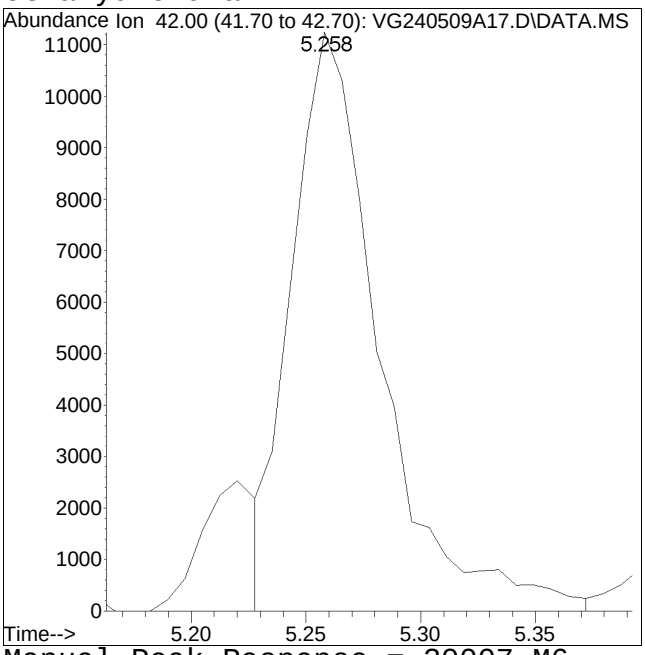
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A17.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 11:24 pm Instrument : Gonzo
Sample : C8260STD10PPB Quant Date : 5/10/2024 11:04 am

Compound #35: Tetrahydrofuran



Original Peak Response = 34283



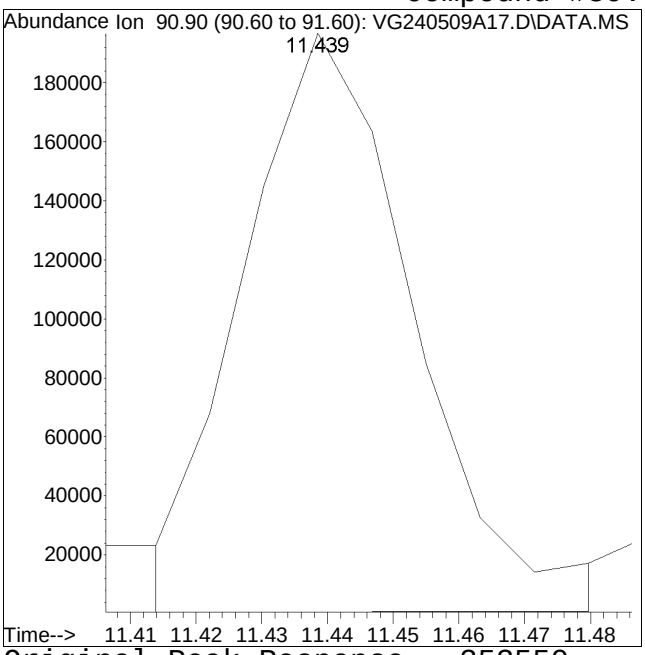
Manual Peak Response = 30007 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

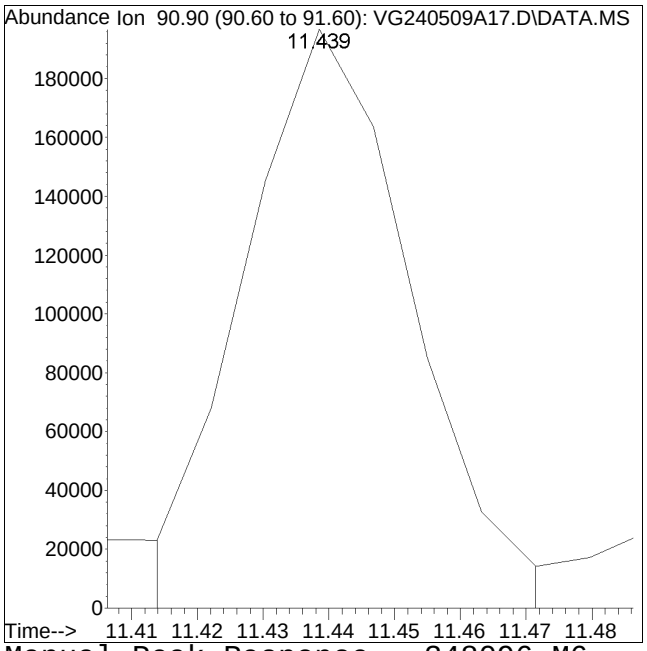
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A17.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 11:24 pm Instrument : Gonzo
Sample : C8260STD10PPB Quant Date : 5/10/2024 11:04 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 353550



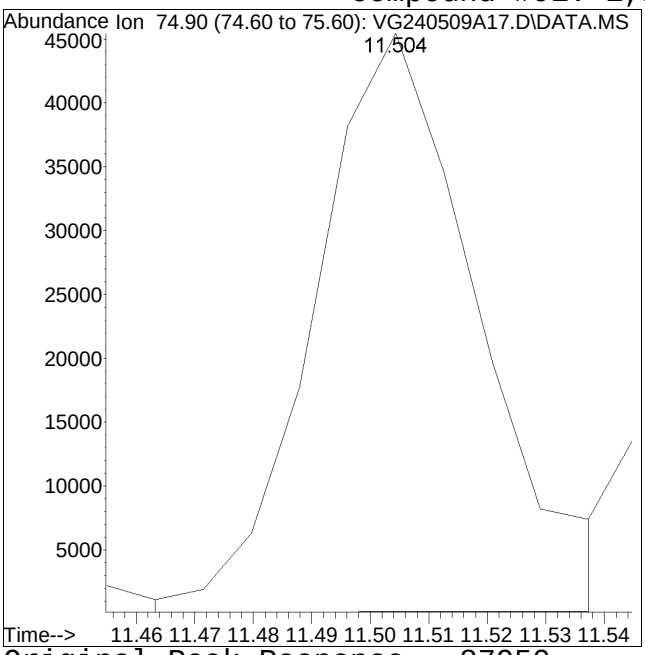
Manual Peak Response = 348096 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

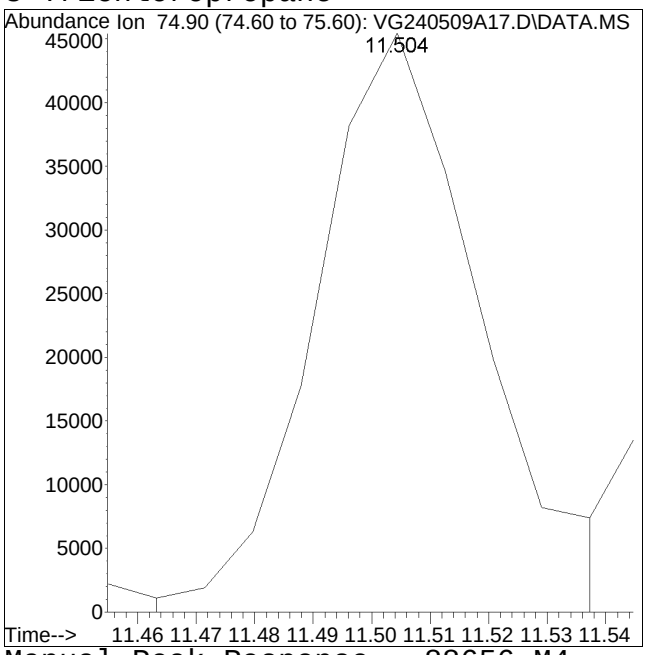
Manual Integration Report

Data Path : K:\Gonzo\2024\240509AICAL\QMethod : G_240509A_8260.m
Data File : VG240509A17.D Operator : GONZO:PID
Date Inj'd : 5/9/2024 11:24 pm Instrument : Gonzo
Sample : C8260STD10PPB Quant Date : 5/10/2024 11:04 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 87950



Manual Peak Response = 88656 M4

M4 = Poor automated baseline construction.

Evaluate Relative Error Report Gonzo

Method Path : K:\Gonzo\2024\240509AICAL\
Method File : G_240509A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri May 10 11:02:54 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
5	TP Bromomethane	L	ug/L	10.0	9.787	-2.1	0.50	0.526	5.2
31	TP Cyclohexane	L	ug/L	10.0	8.739	-12.6	2.00	2.332	16.6
47	TP Methyl cyclohexane	L	ug/L	10.0	8.226	-17.7	2.00	2.435	21.8
76	TP p/m Xylene	Q	ug/L	20.0	17.408	-13.0	1.00	1.226	22.6
77	TP o Xylene	Q	ug/L	20.0	17.129	-14.4	1.00	1.262	26.2
78	TP Styrene	Q	ug/L	20.0	18.467	-7.7	1.00	1.131	13.1
82	TP Isopropylbenzene	L	ug/L	10.0	8.302	-17.0	0.50	0.650	30.0
94	TP tert-Butylbenzene	Q	ug/L	10.0	8.541	-14.6	0.50	0.619	23.8
98	TP sec-Butylbenzene	Q	ug/L	10.0	8.908	-10.9	0.50	0.579	15.8
99	TP p-Isopropyltoluene	Q	ug/L	10.0	9.017	-9.8	0.50	0.569	13.8
103	TP n-Butylbenzene	Q	ug/L	10.0	8.214	-17.9	0.50	0.644	28.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
5	TP Bromomethane	Linear	0.997372	0.000000	0.206426	0.00525904
31	TP Cyclohexane	Linear	0.998802	0.000000	0.445136	-0.0530352
47	TP Methyl cyclohexane	Linear	0.997494	0.000000	0.380535	-0.0487975
76	TP p/m Xylene	Quadratic	0.998187	0.002182	0.566366	-0.0355376
77	TP o Xylene	Quadratic	0.997829	0.001693	0.567338	-0.0368074
78	TP Styrene	Quadratic	0.999678	0.012478	0.875158	-0.047999
82	TP Isopropylbenzene	Linear	0.997943	0.000000	2.48425	-0.0923223
94	TP tert-Butylbenzene	Quadratic	0.998305	0.004737	1.66106	-0.0545422
98	TP sec-Butylbenzene	Quadratic	0.999147	0.038135	2.15907	-0.0607312
99	TP p-Isopropyltoluene	Quadratic	0.999432	0.035768	1.8998	-0.0576556
103	TP n-Butylbenzene	Quadratic	0.998208	0.001074	1.73065	-0.0668816

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: GONZO	**Calibration Date**	: 06/14/24 18:16	
Lab File ID	: VG240614N01	**Init. Calib. Date(s)**	: 05/09/24	05/09/24
Sample No	: WG1935361-2	**Init. Calib. Times**	: 17:50	21:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	132	0
Dichlorodifluoromethane	0.254	0.204	-	19.7	20	104	0
Chloromethane	0.25	0.238	-	4.8	20	126	0
Vinyl chloride	0.252	0.255	-	-1.2	20	126	0
Bromomethane	10	1.696	-	83*	20	26	0
Chloroethane	0.174	0.133	-	23.6*	20	89	0
Trichlorofluoromethane	0.349	0.318	-	8.9	20	125	0
Ethyl ether	0.097	0.084	-	13.4	20	118	0
1,1-Dichloroethene	0.177	0.171	-	3.4	20	128	0
Carbon disulfide	0.56	0.551	-	1.6	20	135	0
Freon-113	0.201	0.191	-	5	20	133	0
Acrolein	0.03	0.026	-	13.3	20	113	0
Methylene chloride	0.215	0.203	-	5.6	20	132	0
Acetone	0.055	0.049	-	10.9	20	131	0
trans-1,2-Dichloroethene	0.2	0.186	-	7	20	128	0
Methyl acetate	0.115	0.109	-	5.2	20	145	0
Methyl tert-butyl ether	0.523	0.417	-	20.3*	20	113	0
tert-Butyl alcohol	0.016	0.013	-	18.8	20	121	0
Diisopropyl ether	0.7	0.728	-	-4	20	147	0
1,1-Dichloroethane	0.398	0.413	-	-3.8	20	141	0
Halothane	0.158	0.148	-	6.3	20	125	0
Acrylonitrile	0.054	0.057	-	-5.6	20	142	0
Ethyl tert-butyl ether	0.658	0.584	-	11.2	20	129	0
Vinyl acetate	0.26	0.379	-	-45.8*	20	193	0
cis-1,2-Dichloroethene	0.232	0.209	-	9.9	20	129	0
2,2-Dichloropropane	0.295	0.298	-	-1	20	139	0
Bromochloromethane	0.105	0.091*	-	13.3	20	119	0
Cyclohexane	10	10.803	-	-8	20	169	0
Chloroform	0.384	0.366	-	4.7	20	132	0
Ethyl acetate	0.165	0.167	-	-1.2	20	139	0
Carbon tetrachloride	0.299	0.286	-	4.3	20	128	0
Tetrahydrofuran	0.049	0.047	-	4.1	20	121	0
Dibromofluoromethane	0.256	0.246	-	3.9	20	129	0
1,1,1-Trichloroethane	0.329	0.319	-	3	20	128	0
2-Butanone	0.073	0.072	-	1.4	20	124	0
1,1-Dichloropropene	0.27	0.272	-	-0.7	20	135	0
Benzene	0.846	0.815	-	3.7	20	130	0
tert-Amyl methyl ether	0.542	0.439	-	19	20	118	0
1,2-Dichloroethane-d4	0.307	0.316	-	-2.9	20	134	0
1,2-Dichloroethane	0.305	0.28	-	8.2	20	128	0
Methyl cyclohexane	10	9.549	-	4.5	20	158	0
Trichloroethene	0.254	0.22	-	13.4	20	124	0
Dibromomethane	0.127	0.109	-	14.2	20	121	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GONZO	**Calibration Date**	: 06/14/24 18:16		
Lab File ID	: VG240614N01	**Init. Calib. Date(s)**	: 05/09/24	05/09/24	
Sample No	: WG1935361-2	**Init. Calib. Times**	: 17:50	21:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.218	0.225	-	-3.2	20	138	0
Bromodichloromethane	0.298	0.263*	-	11.7	20	122	0
1,4-Dioxane	0.00188	0.00146*	-	22.3*	20	112	0
cis-1,3-Dichloropropene	0.328	0.288*	-	12.2	20	126	0
Chlorobenzene-d5	1	1	-	0	20	123	0
Toluene-d8	1.23	1.303	-	-5.9	20	126	0
Toluene	0.68	0.675	-	0.7	20	125	0
4-Methyl-2-pentanone	0.076	0.073	-	3.9	20	126	0
Tetrachloroethene	0.265	0.256	-	3.4	20	122	0
trans-1,3-Dichloropropene	0.368	0.348	-	5.4	20	121	0
Ethyl methacrylate	0.263	0.221	-	16	20	117	0
1,1,2-Trichloroethane	0.191	0.179*	-	6.3	20	124	0
Chlorodibromomethane	0.283	0.25	-	11.7	20	113	0
1,3-Dichloropropane	0.369	0.368	-	0.3	20	126	0
1,2-Dibromoethane	0.218	0.201	-	7.8	20	114	0
2-Hexanone	0.127	0.129	-	-1.6	20	133	0
Chlorobenzene	0.768	0.715	-	6.9	20	119	0
Ethylbenzene	1.324	1.275	-	3.7	20	129	0
1,1,1,2-Tetrachloroethane	0.278	0.247	-	11.2	20	115	0
p/m Xylene	20	17.919	-	10.4	20	127	0
o Xylene	20	16.898	-	15.5	20	121	0
Styrene	20	18.281	-	8.6	20	122	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
Bromoform	0.326	0.263	-	19.3	20	103	0
Isopropylbenzene	10	9.229	-	7.7	20	130	0
4-Bromofluorobenzene	0.804	0.91	-	-13.2	20	131	0
Bromobenzene	0.585	0.542	-	7.4	20	113	0
n-Propylbenzene	2.474	2.744	-	-10.9	20	138	0
1,4-Dichlorobutane	0.694	0.803	-	-15.7	20	138	0
1,1,2,2-Tetrachloroethane	0.44	0.471	-	-7	20	125	0
4-Ethyltoluene	2.201	2.19	-	0.5	20	130	0
2-Chlorotoluene	1.577	1.695	-	-7.5	20	130	0
1,3,5-Trimethylbenzene	1.898	1.951	-	-2.8	20	127	0
1,2,3-Trichloropropane	0.418	0.407	-	2.6	20	120	0
trans-1,4-Dichloro-2-buten	0.145	0.098	-	32.4*	20	82	0
4-Chlorotoluene	1.664	1.735	-	-4.3	20	126	0
tert-Butylbenzene	10	9.543	-	4.6	20	131	0
1,2,4-Trimethylbenzene	1.851	1.894	-	-2.3	20	127	0
sec-Butylbenzene	10	10.555	-	-5.5	20	139	0
p-Isopropyltoluene	10	10.069	-	-0.7	20	131	0
1,3-Dichlorobenzene	1.106	1.04	-	6	20	115	0
1,4-Dichlorobenzene	1.144	1.05	-	8.2	20	113	0
p-Diethylbenzene	1.105	1.021	-	7.6	20	125	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GONZO	**Calibration Date**	: 06/14/24 18:16		
Lab File ID	: VG240614N01	**Init. Calib. Date(s)**	: 05/09/24	05/09/24	
Sample No	: WG1935361-2	**Init. Calib. Times**	: 17:50	21:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	10	9.628	-	3.7	20	138	0
1,2-Dichlorobenzene	1.039	0.955	-	8.1	20	111	0
1,2,4,5-Tetramethylbenzene	1.583	1.209	-	23.6*	20	105	0
1,2-Dibromo-3-chloropropan	0.079	0.065	-	17.7	20	99	0
1,3,5-Trichlorobenzene	0.648	0.594	-	8.3	20	114	0
Hexachlorobutadiene	0.178	0.173	-	2.8	20	129	0
1,2,4-Trichlorobenzene	0.545	0.443	-	18.7	20	99	0
Naphthalene	1.133	0.756	-	33.3*	20	79	0
1,2,3-Trichlorobenzene	0.448	0.343*	-	23.4*	20	92	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	132	0.00
2	TP	Dichlorodifluoromethane	0.254	0.204	19.7	104	0.00
3	TP	Chloromethane	0.250	0.238	4.8	126	0.00
4	TC	Vinyl chloride	0.252	0.255	-1.2	126	0.00
5	TP	Bromomethane	* 10.000	1.696	83.0#	26#	0.00
6	TP	Chloroethane	0.174	0.133	23.6#	89	0.00
7	TP	Trichlorofluoromethane	0.349	0.318	8.9	125	0.00
8	TP	Ethyl ether	0.097	0.084	13.4	118	0.00
10	TC	1,1-Dichloroethene	0.177	0.171	3.4	128	0.00
11	TP	Carbon disulfide	0.560	0.551	1.6	135	0.00
12	TP	Freon-113	0.201	0.191	5.0	133	0.00
14	TP	Acrolein	0.030	0.026	13.3	113	0.00
15	TP	Methylene chloride	0.215	0.203	5.6	132	0.00
17	TP	Acetone	0.055	0.049	10.9	131	0.00
18	TP	trans-1,2-Dichloroethene	0.200	0.186	7.0	128	0.00
19	TP	Methyl acetate	0.115	0.109	5.2	145	0.00
20	TP	Methyl tert-butyl ether	0.523	0.417	20.3#	113	0.00
21	TP	tert-Butyl alcohol	0.016	0.013	18.8	121	0.00
22	TP	Diisopropyl ether	0.700	0.728	-4.0	147	0.00
23	TP	1,1-Dichloroethane	0.398	0.413	-3.8	141	0.00
24	TP	Halothane	0.158	0.148	6.3	125	0.00
25	TP	Acrylonitrile	0.054	0.057	-5.6	142	0.00
26	TP	Ethyl tert-butyl ether	0.658	0.584	11.2	129	0.00
27	TP	Vinyl acetate	0.260	0.379	-45.8#	193	0.00
28	TP	cis-1,2-Dichloroethene	0.232	0.209	9.9	129	0.00
29	TP	2,2-Dichloropropane	0.295	0.298	-1.0	139	0.00
30	TP	Bromochloromethane	0.105	0.091#	13.3	119	0.00
31	TP	Cyclohexane	* 10.000	10.803	-8.0	169	0.00
32	TC	Chloroform	0.384	0.366	4.7	132	0.00
33	TP	Ethyl acetate	0.165	0.167	-1.2	139	0.00
34	TP	Carbon tetrachloride	0.299	0.286	4.3	128	0.00
35	TP	Tetrahydrofuran	0.049	0.047	4.1	121	0.00
36	S	Dibromofluoromethane	0.256	0.246	3.9	129	0.00
37	TP	1,1,1-Trichloroethane	0.329	0.319	3.0	128	0.00
39	TP	2-Butanone	0.073	0.072	1.4	124	0.00
40	TP	1,1-Dichloropropene	0.270	0.272	-0.7	135	0.00
41	TP	Benzene	0.846	0.815	3.7	130	0.00
42	TP	tert-Amyl methyl ether	0.542	0.439	19.0	118	0.00
43	S	1,2-Dichloroethane-d4	0.307	0.316	-2.9	134	0.00

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.305	0.280	8.2	128	0.00
47	TP	Methyl cyclohexane	* 10.000	9.549	4.5	158	0.00
48	TP	Trichloroethene	0.254	0.220	13.4	124	0.00
50	TP	Dibromomethane	0.127	0.109	14.2	121	0.00
51	TC	1,2-Dichloropropane	0.218	0.225	-3.2	138	0.00
54	TP	Bromodichloromethane	0.298	0.263#	11.7	122	0.00
57	TP	1,4-Dioxane	0.00188	0.00146#	22.3#	112	0.00
58	TP	cis-1,3-Dichloropropene	0.328	0.288#	12.2	126	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
60	S	Toluene-d8	1.230	1.303	-5.9	126	0.00
61	TC	Toluene	0.680	0.675	0.7	125	0.00
62	TP	4-Methyl-2-pentanone	0.076	0.073	3.9	126	0.00
63	TP	Tetrachloroethene	0.265	0.256	3.4	122	0.00
65	TP	trans-1,3-Dichloropropene	0.368	0.348	5.4	121	0.00
67	TP	Ethyl methacrylate	0.263	0.221	16.0	117	0.00
68	TP	1,1,2-Trichloroethane	0.191	0.179#	6.3	124	0.00
69	TP	Chlorodibromomethane	0.283	0.250	11.7	113	0.00
70	TP	1,3-Dichloropropane	0.369	0.368	0.3	126	0.00
71	TP	1,2-Dibromoethane	0.218	0.201	7.8	114	0.00
72	TP	2-Hexanone	0.127	0.129	-1.6	133	0.00
73	TP	Chlorobenzene	0.768	0.715	6.9	119	0.00
74	TC	Ethylbenzene	1.324	1.275	3.7	129	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.278	0.247	11.2	115	0.00
76	TP	p/m Xylene	* 20.000	17.919	10.4	127	0.00
77	TP	o Xylene	* 20.000	16.898	15.5	121	0.00
78	TP	Styrene	* 20.000	18.281	8.6	122	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
80	TP	Bromoform	0.326	0.263	19.3	103	0.00
82	TP	Isopropylbenzene	* 10.000	9.229	7.7	130	0.00
83	S	4-Bromofluorobenzene	0.804	0.910	-13.2	131	0.00
84	TP	Bromobenzene	0.585	0.542	7.4	113	0.00
85	TP	n-Propylbenzene	2.474	2.744	-10.9	138	0.00
86	TP	1,4-Dichlorobutane	0.694	0.803	-15.7	138	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.440	0.471	-7.0	125	0.00
88	TP	4-Ethyltoluene	2.201	2.190	0.5	130	0.00
89	TP	2-Chlorotoluene	1.577	1.695	-7.5	130	0.00
90	TP	1,3,5-Trimethylbenzene	1.898	1.951	-2.8	127	0.00

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane		0.418	0.407	2.6	120	0.00
92 TP	trans-1,4-Dichloro-2-butene		0.145	0.098	32.4#	82	0.00
93 TP	4-Chlorotoluene		1.664	1.735	-4.3	126	0.00
94 TP	tert-Butylbenzene	*	10.000	9.543	4.6	131	0.00
97 TP	1,2,4-Trimethylbenzene		1.851	1.894	-2.3	127	0.00
98 TP	sec-Butylbenzene	*	10.000	10.555	-5.5	139	0.00
99 TP	p-Isopropyltoluene	*	10.000	10.069	-0.7	131	0.00
100 TP	1,3-Dichlorobenzene		1.106	1.040	6.0	115	0.00
101 TP	1,4-Dichlorobenzene		1.144	1.050	8.2	113	0.00
102 TP	p-Diethylbenzene		1.105	1.021	7.6	125	0.00
103 TP	n-Butylbenzene	*	10.000	9.628	3.7	138	0.00
104 TP	1,2-Dichlorobenzene		1.039	0.955	8.1	111	0.00
105 TP	1,2,4,5-Tetramethylbenzene		1.583	1.209	23.6#	105	0.00
106 TP	1,2-Dibromo-3-chloropropane		0.079	0.065	17.7	99	0.00
107 TP	1,3,5-Trichlorobenzene		0.648	0.594	8.3	114	0.00
108 TP	Hexachlorobutadiene		0.178	0.173	2.8	129	0.00
109 TP	1,2,4-Trichlorobenzene		0.545	0.443	18.7	99	0.00
110 TP	Naphthalene		1.133	0.756	33.3#	79	0.00
111 TP	1,2,3-Trichlorobenzene		0.448	0.343#	23.4#	92	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 6 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	638207	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 100.00%			
59) Chlorobenzene-d5	9.645	117	463801	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.327	152	250819	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	156838	9.596	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.96%			
43) 1,2-Dichloroethane-d4	5.820	65	201792	10.291	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.91%			
60) Toluene-d8	7.793	98	604162	10.587	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.87%			
83) 4-Bromofluorobenzene	11.126	95	228268	11.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	129942	8.019	ug/L	98
3) Chloromethane	1.885	50	152109	9.527	ug/L	99
4) Vinyl chloride	1.953	62	162448	10.098	ug/L	99
5) Bromomethane	2.265	94	25706	1.696	ug/L	97
6) Chloroethane	2.371	64	84568	7.604	ug/L	90
7) Trichlorofluoromethane	2.523	101	203076	9.130	ug/L	98
8) Ethyl ether	2.827	74	53691	8.704	ug/L #	66
10) 1,1-Dichloroethene	3.025	96	109137	9.678	ug/L #	74
11) Carbon disulfide	3.055	76	351547	9.841	ug/L	99
12) Freon-113	3.062	101	121730	9.491	ug/L #	72
14) Acrolein	3.359	56	16513	8.674	ug/L	94
15) Methylene chloride	3.587	84	129557	9.434	ug/L #	68
17) Acetone	3.632	43	31456	8.900	ug/L	98
18) trans-1,2-Dichloroethene	3.739	96	118407	9.285	ug/L	80
19) Methyl acetate	3.746	43	69531	9.502	ug/L #	89
20) Methyl tert-butyl ether	3.822	73	266094	7.976	ug/L #	80
21) tert-Butyl alcohol	3.921	59	42773	41.587	ug/L #	86
22) Diisopropyl ether	4.179	45	464885	10.411	ug/L	94
23) 1,1-Dichloroethane	4.324	63	263435	10.384	ug/L	98
24) Halothane	4.377	117	94730	9.366	ug/L	99
25) Acrylonitrile	4.377	53	36332	10.541	ug/L	96

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.529	59	372660	8.868	ug/L		91
27) Vinyl acetate	4.559	43	242086	14.576	ug/L	#	94
28) cis-1,2-Dichloroethene	4.848	96	133353	8.994	ug/L		85
29) 2,2-Dichloropropane	4.947	77	190148	10.092	ug/L		91
30) Bromochloromethane	5.045	128	58332	8.714	ug/L	#	63
31) Cyclohexane	5.030	56	273059	10.803	ug/L		68
32) Chloroform	5.114	83	233767	9.542	ug/L		96
33) Ethyl acetate	5.220	43	106708	10.140	ug/L		97
34) Carbon tetrachloride	5.243	117	182619	9.567	ug/L		100
35) Tetrahydrofuran	5.266	42	29993M6	9.510	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	203589	9.696	ug/L		93
39) 2-Butanone	5.410	43	45887	9.836	ug/L	#	76
40) 1,1-Dichloropropene	5.433	75	173900	10.077	ug/L		97
41) Benzene	5.676	78	519984	9.633	ug/L	#	91
42) tert-Amyl methyl ether	5.775	73	280140	8.099	ug/L	#	85
44) 1,2-Dichloroethane	5.889	62	178442	9.171	ug/L		98
47) Methyl cyclohexane	6.253	83	200769	9.549	ug/L	#	61
48) Trichloroethene	6.276	95	140671	8.671	ug/L		93
50) Dibromomethane	6.724	93	69809	8.597	ug/L		89
51) 1,2-Dichloropropane	6.823	63	143394	10.312	ug/L		96
54) Bromodichloromethane	6.899	83	167816	8.810	ug/L		98
57) 1,4-Dioxane	7.106	88	46744	390.434	ug/L	#	71
58) cis-1,3-Dichloropropene	7.586	75	183848	8.775	ug/L	#	89
61) Toluene	7.851	92	313069	9.928	ug/L		98
62) 4-Methyl-2-pentanone	8.288	58	33813	9.584	ug/L	#	86
63) Tetrachloroethene	8.295	166	118578	9.649	ug/L		93
65) trans-1,3-Dichloropropene	8.338	75	161447	9.459	ug/L		97
67) Ethyl methacrylate	8.517	69	102307	8.372	ug/L		89
68) 1,1,2-Trichloroethane	8.524	83	82849	9.362	ug/L		96
69) Chlorodibromomethane	8.739	129	115912	8.820	ug/L		99
70) 1,3-Dichloropropane	8.846	76	170624	9.961	ug/L		99
71) 1,2-Dibromoethane	9.018	107	93243	9.223	ug/L		99
72) 2-Hexanone	9.298	43	59683	10.136	ug/L		93
73) Chlorobenzene	9.662	112	331710	9.315	ug/L		94
74) Ethylbenzene	9.695	91	591225	9.629	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.744	131	114712	8.890	ug/L		97
76) p/m Xylene	9.884	106	457454	17.919	ug/L		93
77) o Xylene	10.419	106	429823	16.898	ug/L		92
78) Styrene	10.484	104	739099	18.281	ug/L		95
80) Bromoform	10.517	173	65943	8.059	ug/L		99

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Isopropylbenzene	10.797	105	551894	9.229	ug/L		98
84) Bromobenzene	11.233	156	135878	9.261	ug/L		98
85) n-Propylbenzene	11.274	91	688357	11.092	ug/L		97
86) 1,4-Dichlorobutane	11.299	55	201451	11.574	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.365	83	118079	10.708	ug/L		99
88) 4-Ethyltoluene	11.397	105	549196	9.947	ug/L		97
89) 2-Chlorotoluene	11.439	91	425038M6	10.745	ug/L		
90) 1,3,5-Trimethylbenzene	11.496	105	489261	10.276	ug/L		98
91) 1,2,3-Trichloropropane	11.504	75	102014	9.722	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.554	53	24469	6.743	ug/L	#	86
93) 4-Chlorotoluene	11.628	91	435200	10.425	ug/L		96
94) tert-Butylbenzene	11.833	119	384980	9.543	ug/L		94
97) 1,2,4-Trimethylbenzene	11.907	105	475065	10.235	ug/L		95
98) sec-Butylbenzene	12.023	105	567020	10.555	ug/L		96
99) p-Isopropyltoluene	12.171	119	474427	10.069	ug/L		97
100) 1,3-Dichlorobenzene	12.245	146	260839	9.399	ug/L		97
101) 1,4-Dichlorobenzene	12.343	146	263399	9.179	ug/L		96
102) p-Diethylbenzene	12.541	119	256000	9.234	ug/L		96
103) n-Butylbenzene	12.598	91	401419	9.628	ug/L		97
104) 1,2-Dichlorobenzene	12.763	146	239529	9.191	ug/L		96
105) 1,2,4,5-Tetramethylben...	13.339	119	303179	7.636	ug/L		93
106) 1,2-Dibromo-3-chloropr...	13.545	155	16322	8.259	ug/L		98
107) 1,3,5-Trichlorobenzene	13.569	180	149030	9.166	ug/L		97
108) Hexachlorobutadiene	14.137	225	43400	9.721	ug/L		97
109) 1,2,4-Trichlorobenzene	14.162	180	111059	8.128	ug/L		99
110) Naphthalene	14.458	128	189572	6.673	ug/L		100
111) 1,2,3-Trichlorobenzene	14.622	180	86064	7.661	ug/L		96

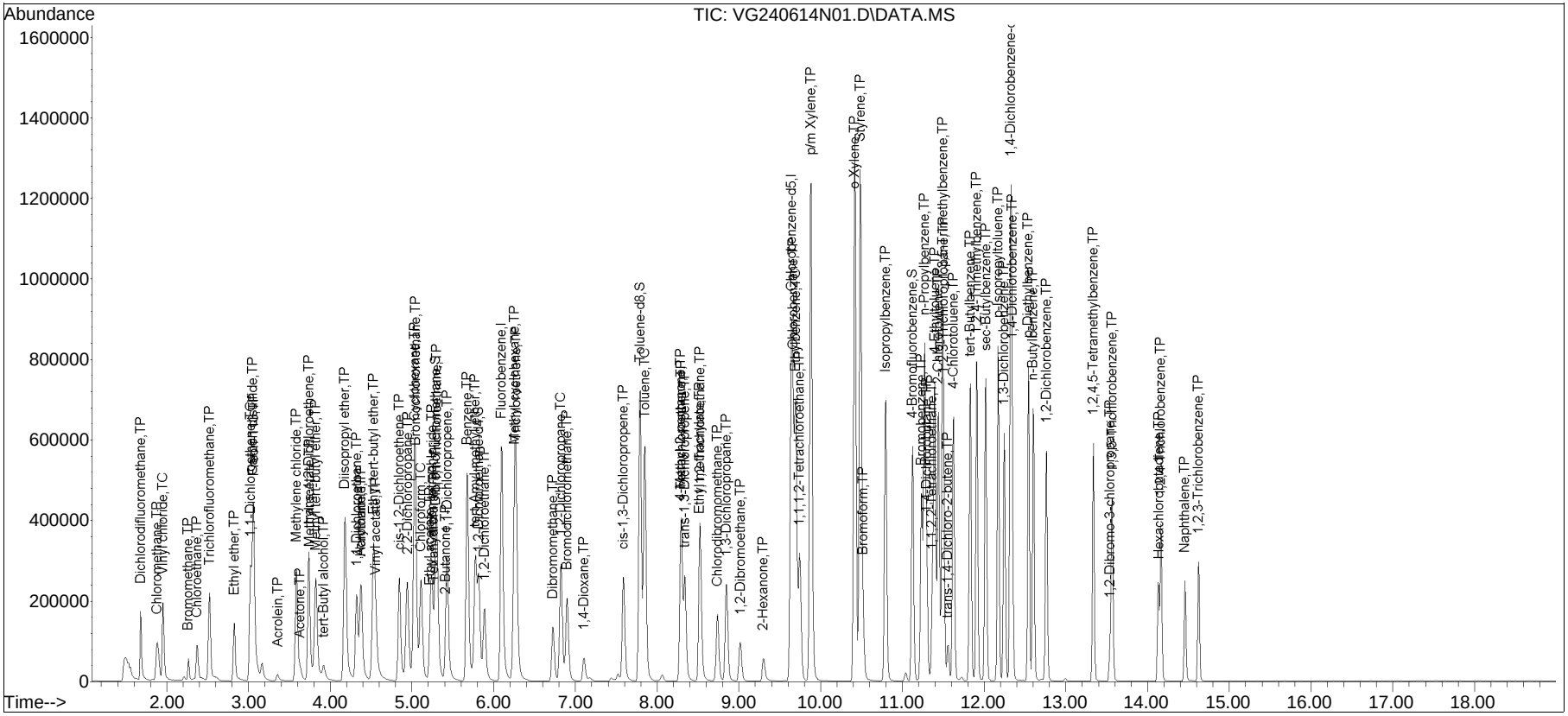
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-2
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

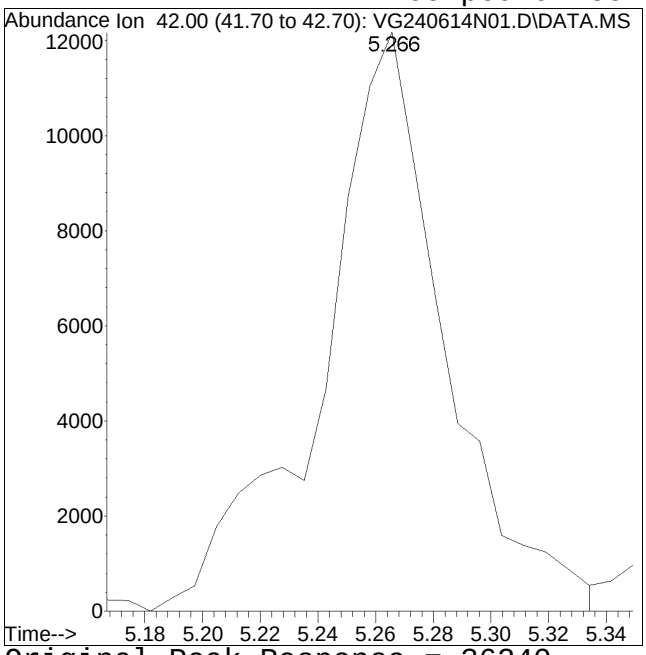


Manual Integration Report

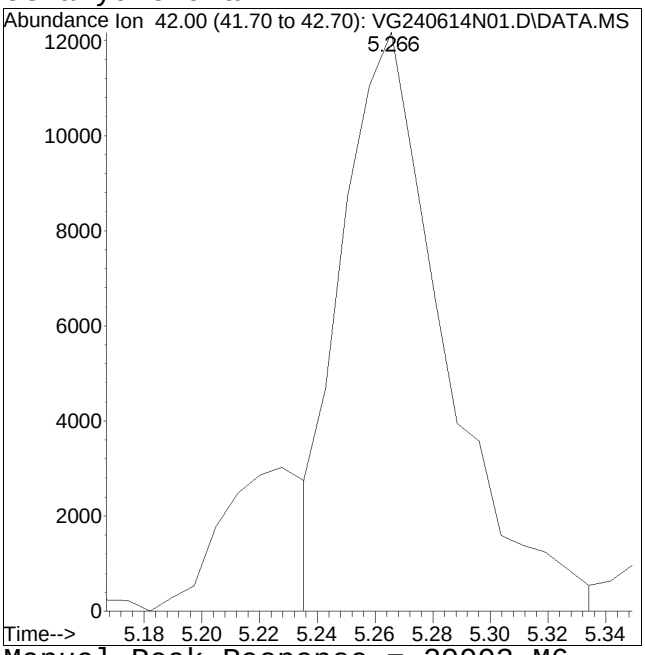
Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Date Inj'd : 6/14/2024 6:16 pm
Sample : WG1935361-2

QMethod : G_240509A_8260.m
Operator : GONZO:LAC
Instrument : Gonzo
Quant Date : 6/14/2024 7:06 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 36240



Manual Peak Response = 29993 M6

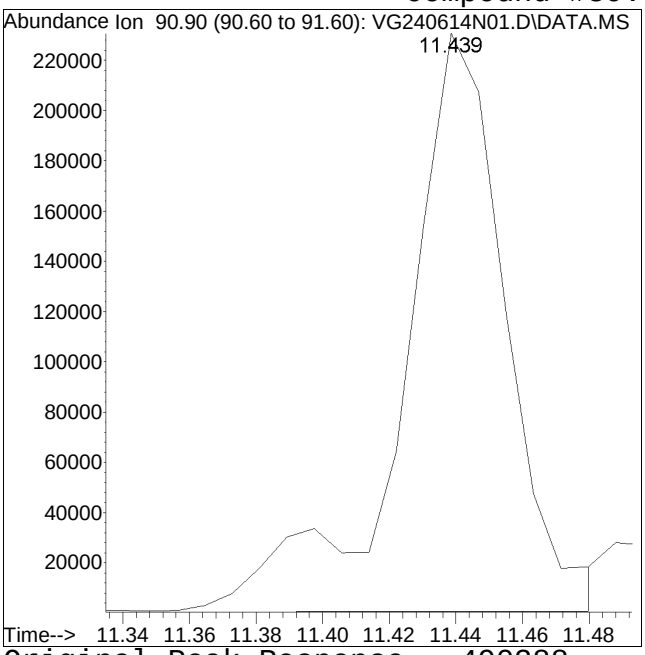
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

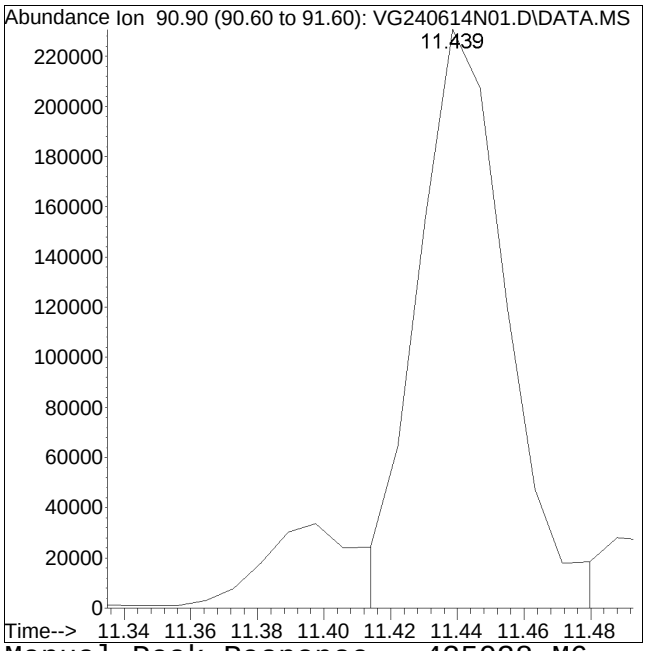
Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Date Inj'd : 6/14/2024 6:16 pm
Sample : WG1935361-2

QMethod : G_240509A_8260.m
Operator : GONZO:LAC
Instrument : Gonzo
Quant Date : 6/14/2024 7:06 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 490388



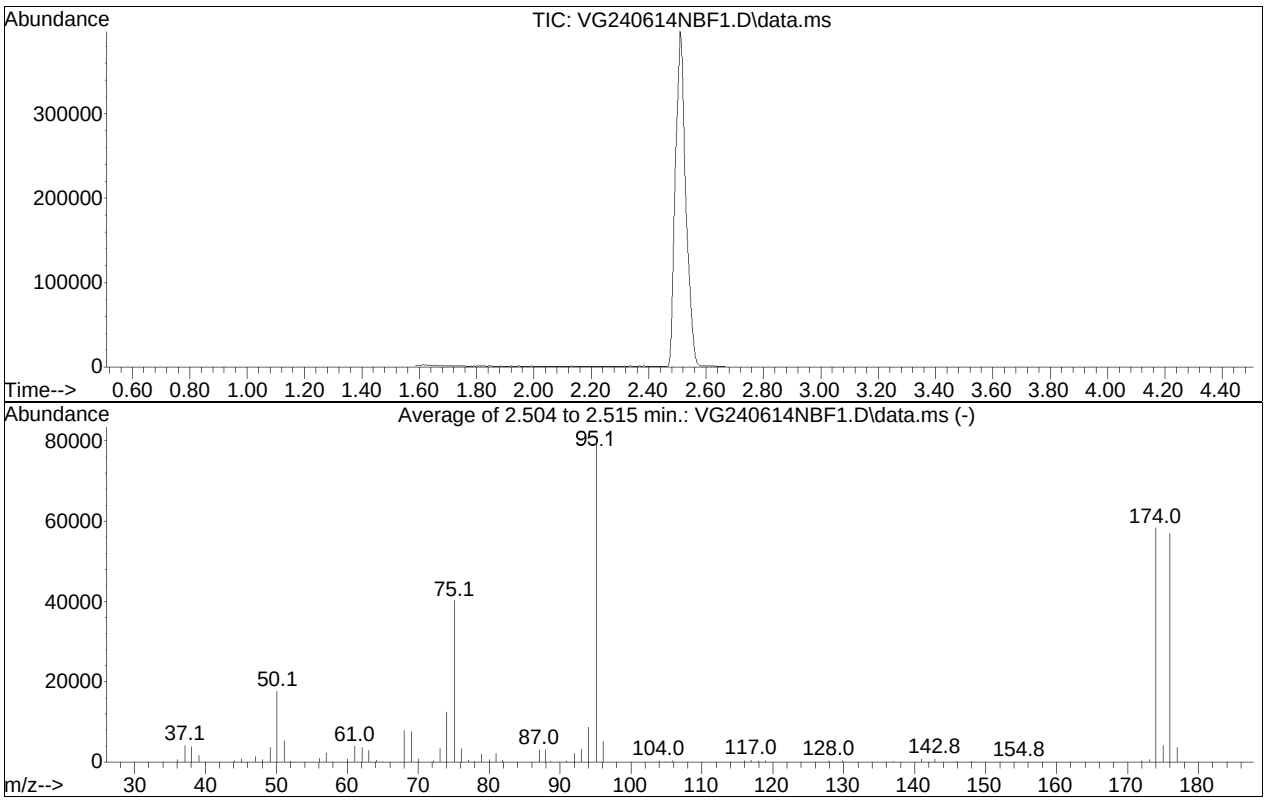
Manual Peak Response = 425038 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614NBF1.D
Acq On : 14 Jun 2024 5:58 pm
Operator : GONZO:LAC
Sample : WG1935361-1
Misc : WG1935361
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri May 10 11:02:54 2024



AutoFind: Scans 176, 177, 178; Background Corrected with Scan 167

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	17653	PASS
75	95	30	60	50.6	40243	PASS
95	95	100	100	100.0	79568	PASS
96	95	5	9	6.6	5272	PASS
173	174	0.00	2	1.0	584	PASS
174	95	50	100	73.4	58376	PASS
175	174	5	9	7.2	4174	PASS
176	174	95	101	97.8	57075	PASS
177	176	5	9	6.4	3656	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N05.D
Acq On : 14 Jun 2024 7:52 pm
Operator : GONZO:LAC
Sample : WG1935361-5,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 21:01:29 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	568731	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 89.11%			
59) Chlorobenzene-d5	9.646	117	409984	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 88.40%			
79) 1,4-Dichlorobenzene-d4	12.327	152	207069	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 82.56%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.289	113	139185	9.556	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.56%			
43) 1,2-Dichloroethane-d4	5.821	65	177738	10.171	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.71%			
60) Toluene-d8	7.794	98	518653	10.281	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.81%			
83) 4-Bromofluorobenzene	11.126	95	190204	11.422	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.490	85	516	N.D.		
3) Chloromethane	1.885	50	836	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	761	Below Cal		93
6) Chloroethane	2.197	64	80	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.063	76	1512	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	1874	0.153	ug/L	72
17) Acetone	3.648	43	926	0.294	ug/L #	64
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.731	43	93	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N05.D
Acq On : 14 Jun 2024 7:52 pm
Operator : GONZO:LAC
Sample : WG1935361-5,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 21:01:29 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	5.327	43	77	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.844	92	215	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.662	112	98	N.D.		
74)	Ethylbenzene	9.646	91	1045	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.253	146	207	N.D.		
101)	1,4-Dichlorobenzene	12.336	146	604	N.D.		
104)	1,2-Dichlorobenzene	12.796	146	189	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	14.203	180	536	N.D.		
111)	1,2,3-Trichlorobenzene	14.639	180	812	0.088	ug/L #	72

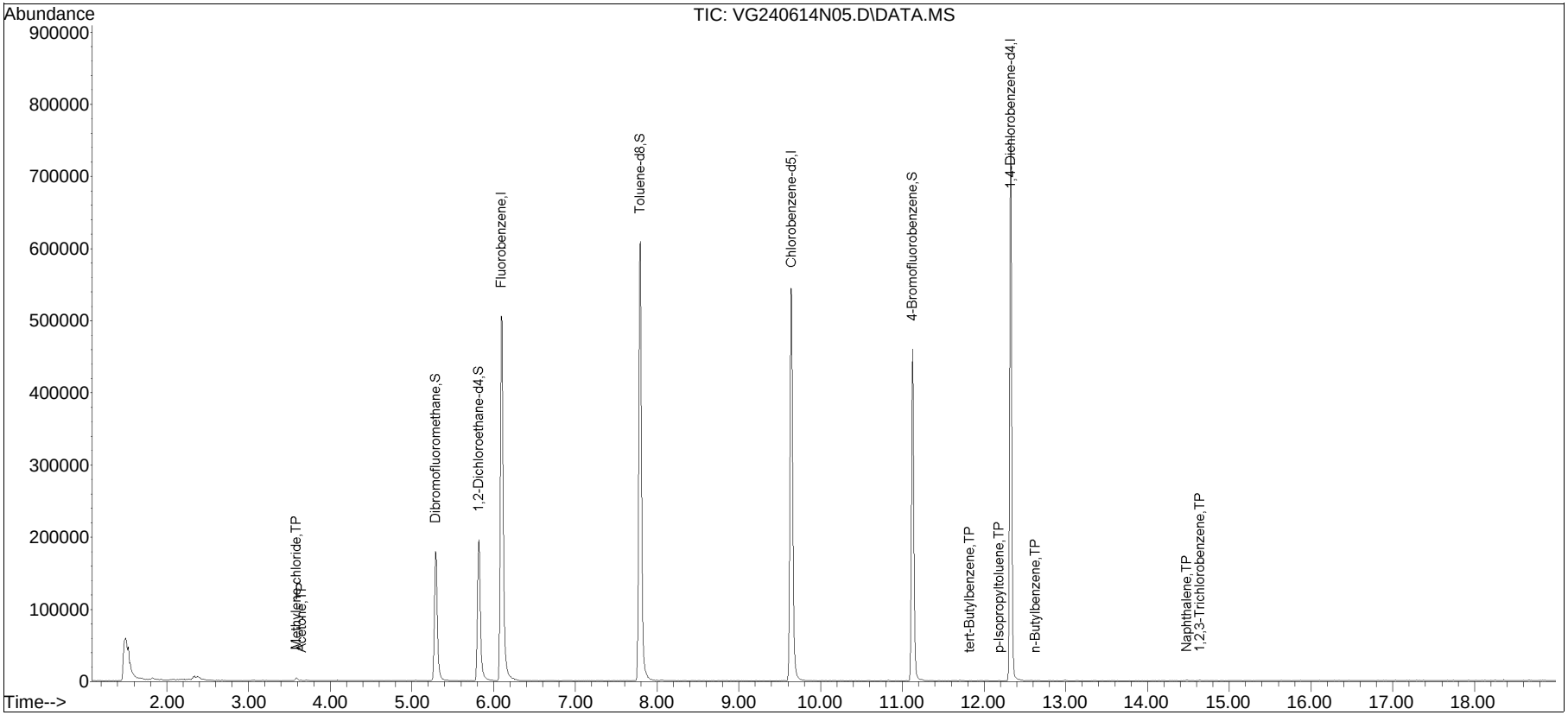
(#) = qualifier out of range (m) = manual integration (+) = signals summed

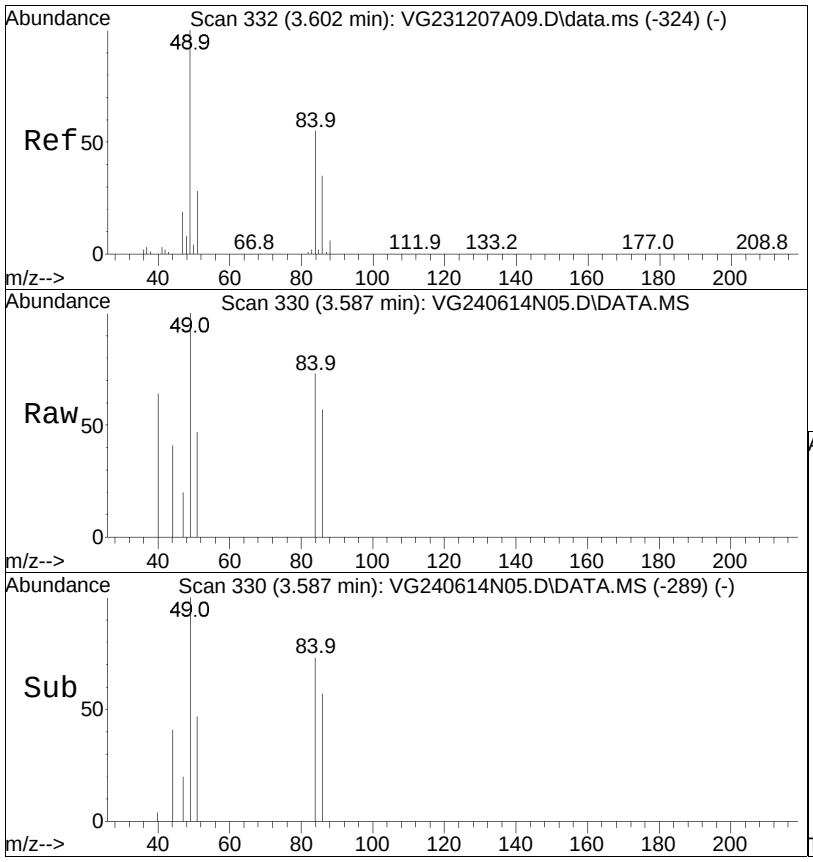
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N05.D
Acq On : 14 Jun 2024 7:52 pm
Operator : GONZO:LAC
Sample : WG1935361-5,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 21:01:29 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

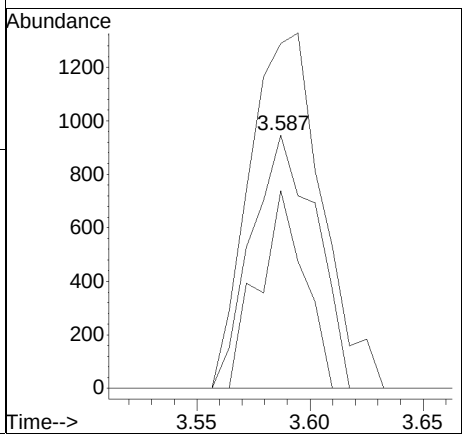


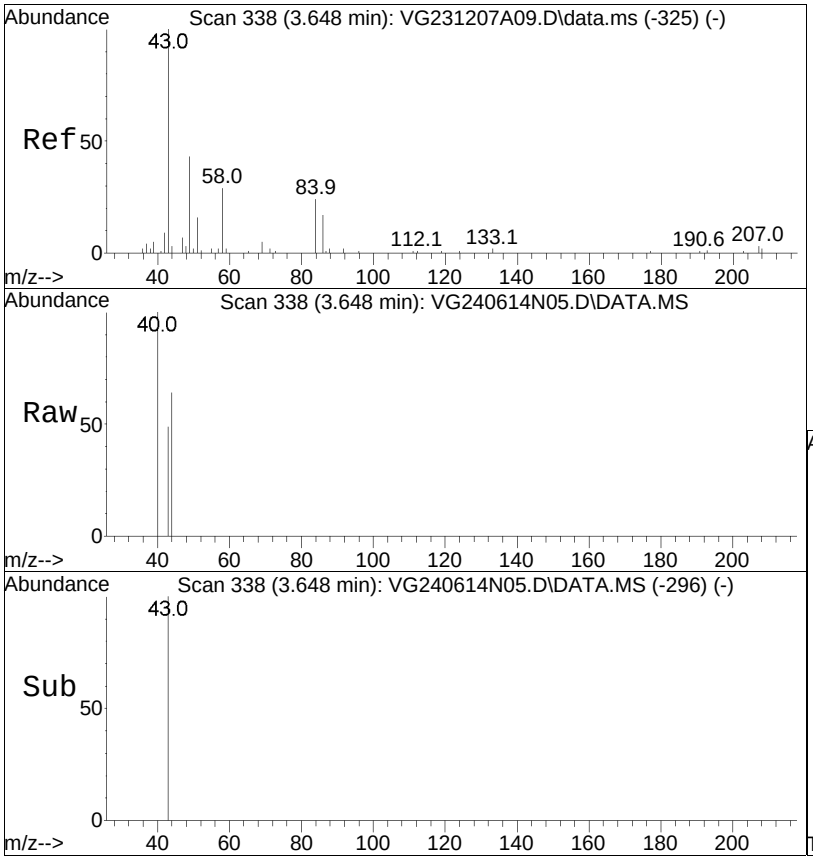


#15
Methylene chloride
Concen: 0.15 ug/L
RT: 3.587 min Scan# 330
Delta R.T. 0.008 min
Lab File: VG240614N05.D
Acq: 14 Jun 2024 7:52 pm

Tgt Ion: 84 Resp: 1874

Ion	Ratio	Lower	Upper
84	100		
86	55.7	41.1	85.5
49	158.1	76.2	158.2

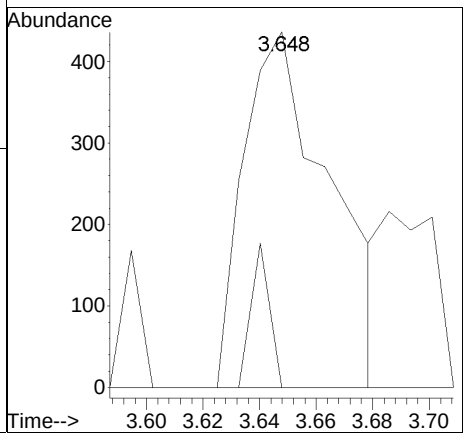


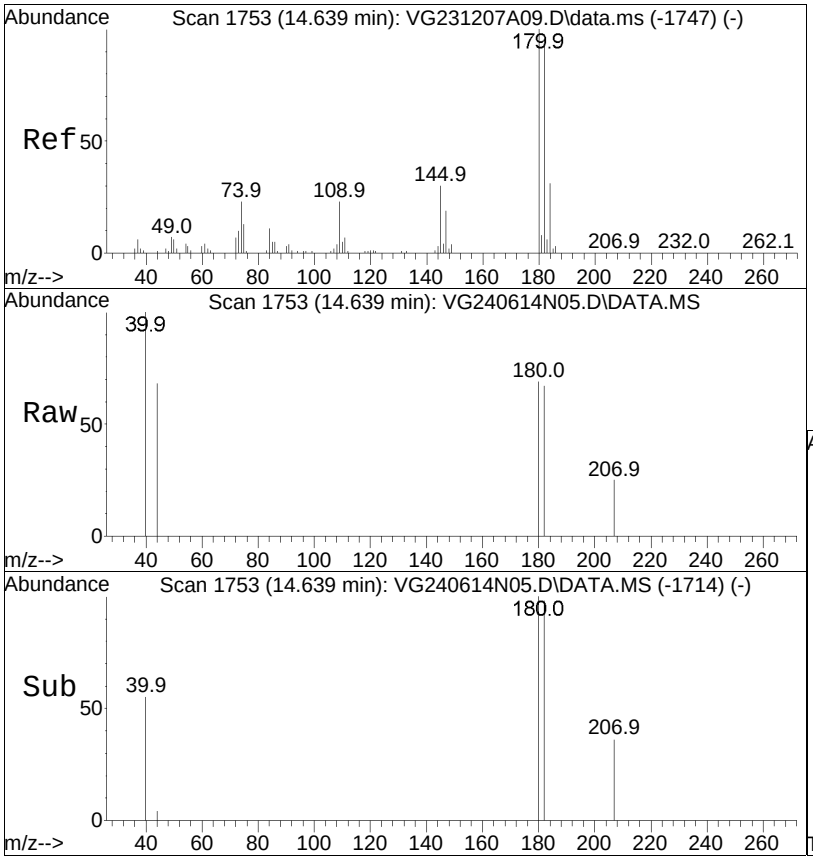


#17
Acetone
Concen: 0.29 ug/L
RT: 3.648 min Scan# 338
Delta R.T. 0.023 min
Lab File: VG240614N05.D
Acq: 14 Jun 2024 7:52 pm

Tgt Ion: 43 Resp: 926

Ion	Ratio	Lower	Upper
43	100		
58	8.7	22.2	33.4#

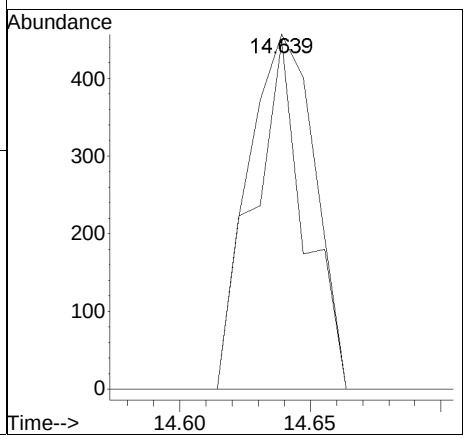




#111
1,2,3-Trichlorobenzene
Concen: 0.09 ug/L
RT: 14.639 min Scan# 1753
Delta R.T. 0.017 min
Lab File: VG240614N05.D
Acq: 14 Jun 2024 7:52 pm

Tgt Ion:180 Resp: 812

Ion	Ratio	Lower	Upper
180	100		
182	76.7	77.0	115.4#
145	0.0	24.1	36.1#



Manual Integration Report

Data Path	: K:\Gonzo\2024\240614N\	QMethod	: G_240509A_8260.m
Data File	: VG240614N05.D	Operator	: GONZO:LAC
Date Inj'd	: 6/14/2024 7:52 pm	Instrument	: Gonzo
Sample	: WG1935361-5,31,10,10	Quant Date	: 6/14/2024 9:01 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-3,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	638207	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 100.00%			
59) Chlorobenzene-d5	9.645	117	463801	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.327	152	250819	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	156838	9.596	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.96%			
43) 1,2-Dichloroethane-d4	5.820	65	201792	10.291	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.91%			
60) Toluene-d8	7.793	98	604162	10.587	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.87%			
83) 4-Bromofluorobenzene	11.126	95	228268	11.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	129942	8.019	ug/L	98
3) Chloromethane	1.885	50	152109	9.527	ug/L	99
4) Vinyl chloride	1.953	62	162448	10.098	ug/L	99
5) Bromomethane	2.265	94	25706	1.696	ug/L	97
6) Chloroethane	2.371	64	84568	7.604	ug/L	90
7) Trichlorofluoromethane	2.523	101	203076	9.130	ug/L	98
10) 1,1-Dichloroethene	3.025	96	109137	9.678	ug/L #	74
11) Carbon disulfide	3.055	76	351547	9.841	ug/L	99
12) Freon-113	3.062	101	121730	9.491	ug/L #	72
15) Methylene chloride	3.587	84	129557	9.434	ug/L #	68
17) Acetone	3.632	43	31456	8.900	ug/L	98
18) trans-1,2-Dichloroethene	3.739	96	118407	9.285	ug/L	80
19) Methyl acetate	3.746	43	69531	9.502	ug/L #	89
20) Methyl tert-butyl ether	3.822	73	266094	7.976	ug/L #	80
23) 1,1-Dichloroethane	4.324	63	263435	10.384	ug/L	98
28) cis-1,2-Dichloroethene	4.848	96	133353	8.994	ug/L	85
30) Bromochloromethane	5.045	128	58332	8.714	ug/L #	63
31) Cyclohexane	5.030	56	273059	10.803	ug/L	68
32) Chloroform	5.114	83	233767	9.542	ug/L	96
34) Carbon tetrachloride	5.243	117	182619	9.567	ug/L	100

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-3,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.304	97	203589	9.696	ug/L		93
39) 2-Butanone	5.410	43	45887	9.836	ug/L	#	76
41) Benzene	5.676	78	519984	9.633	ug/L	#	91
44) 1,2-Dichloroethane	5.889	62	178442	9.171	ug/L		98
47) Methyl cyclohexane	6.253	83	200769	9.549	ug/L	#	61
48) Trichloroethene	6.276	95	140671	8.671	ug/L		93
51) 1,2-Dichloropropane	6.823	63	143394	10.312	ug/L		96
54) Bromodichloromethane	6.899	83	167816	8.810	ug/L		98
58) cis-1,3-Dichloropropene	7.586	75	183848	8.775	ug/L	#	89
61) Toluene	7.851	92	313069	9.928	ug/L		98
62) 4-Methyl-2-pentanone	8.288	58	33813	9.584	ug/L	#	86
63) Tetrachloroethene	8.295	166	118578	9.649	ug/L		93
65) trans-1,3-Dichloropropene	8.338	75	161447	9.459	ug/L		97
68) 1,1,2-Trichloroethane	8.524	83	82849	9.362	ug/L		96
69) Chlorodibromomethane	8.739	129	115912	8.820	ug/L		99
71) 1,2-Dibromoethane	9.018	107	93243	9.223	ug/L		99
72) 2-Hexanone	9.298	43	59683	10.136	ug/L		93
73) Chlorobenzene	9.662	112	331710	9.315	ug/L		94
74) Ethylbenzene	9.695	91	591225	9.629	ug/L		97
76) p/m Xylene	9.884	106	457454	17.919	ug/L		93
77) o Xylene	10.419	106	429823	16.898	ug/L		92
78) Styrene	10.484	104	739099	18.281	ug/L		95
80) Bromoform	10.517	173	65943	8.059	ug/L		99
82) Isopropylbenzene	10.797	105	551894	9.229	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.365	83	118079	10.708	ug/L		99
100) 1,3-Dichlorobenzene	12.245	146	260839	9.399	ug/L		97
101) 1,4-Dichlorobenzene	12.343	146	263399	9.179	ug/L		96
104) 1,2-Dichlorobenzene	12.763	146	239529	9.191	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.545	155	16322	8.259	ug/L		98
109) 1,2,4-Trichlorobenzene	14.162	180	111059	8.128	ug/L		99
111) 1,2,3-Trichlorobenzene	14.622	180	86064	7.661	ug/L		96

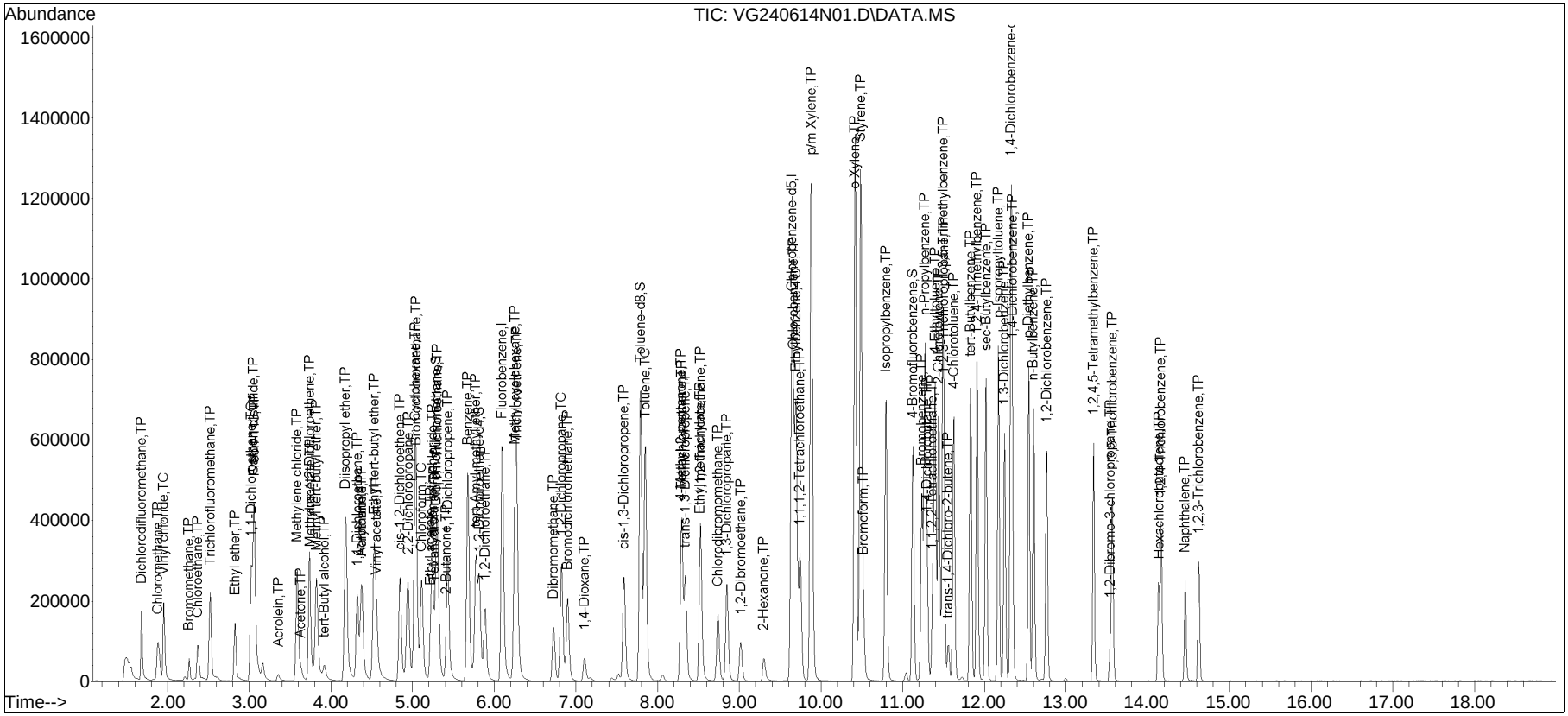
(#) = qualifier out of range (m) = manual integration (+) = signals summed

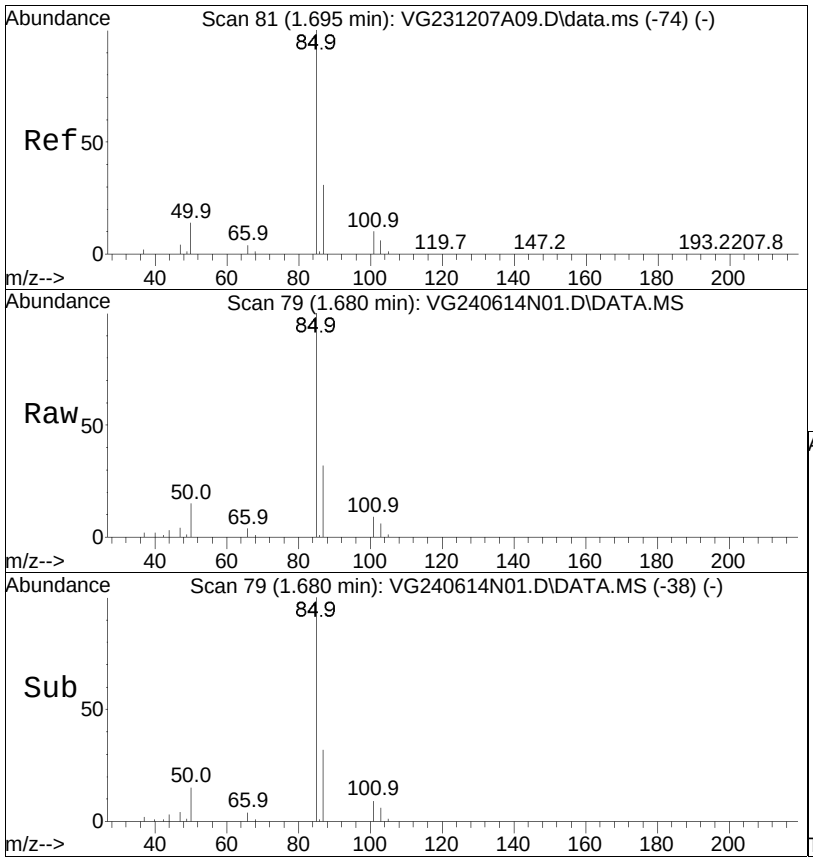
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N01.D
Acq On : 14 Jun 2024 6:16 pm
Operator : GONZO:LAC
Sample : WG1935361-3,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 19:06:59 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

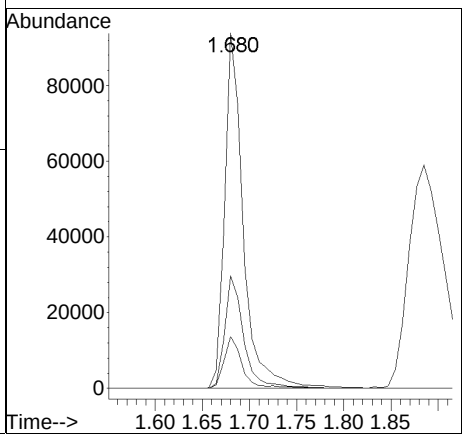


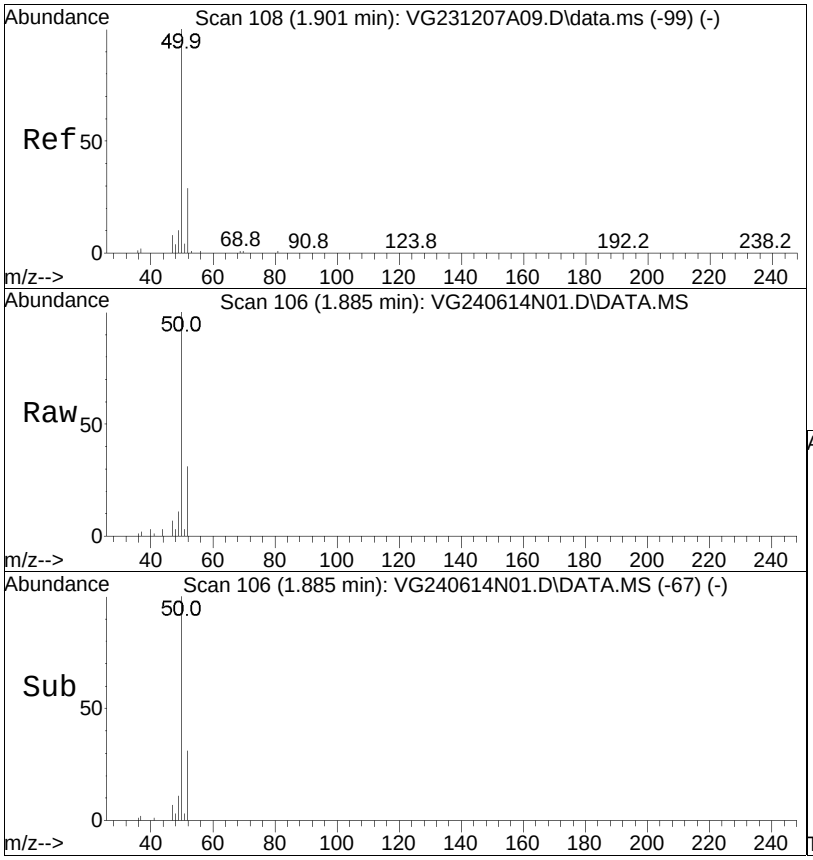


#2
Dichlorodifluoromethane
Concen: 8.02 ug/L
RT: 1.680 min Scan# 79
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 85 Resp: 129942

Ion	Ratio	Lower	Upper
85	100		
87	32.1	20.7	42.9
50	14.3	7.5	15.5

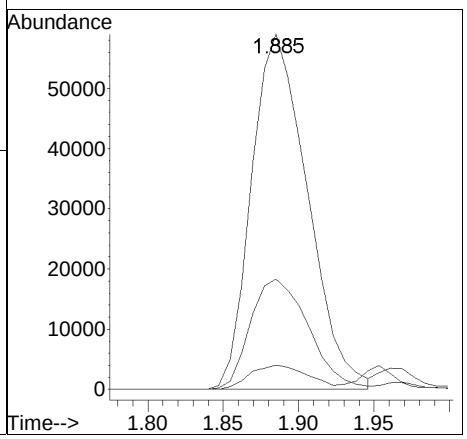


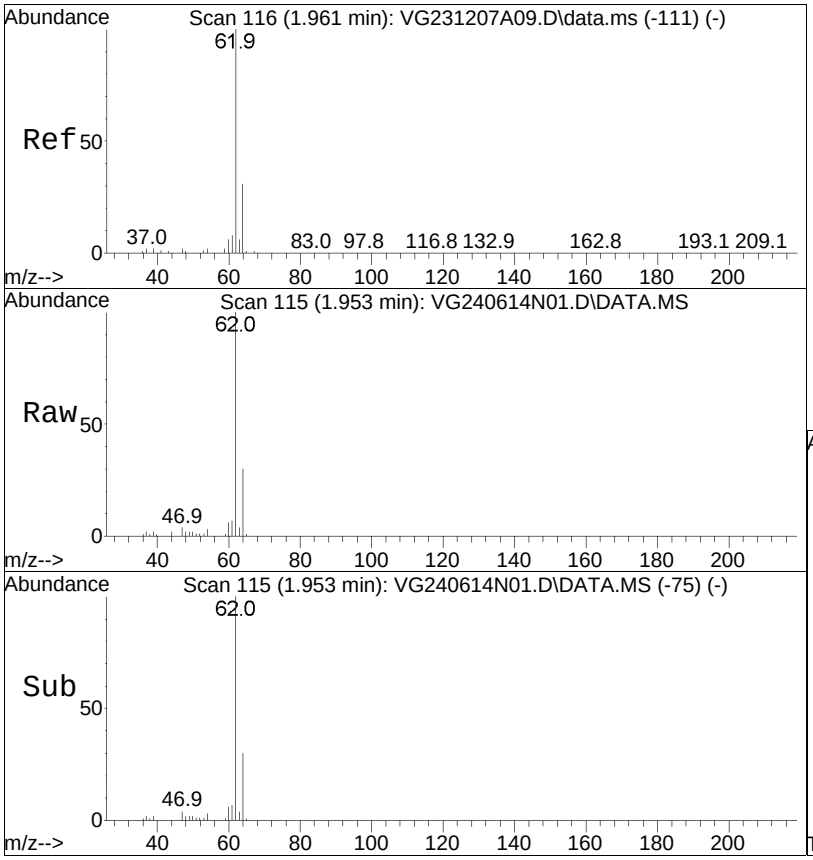


#3
Chloromethane
Concen: 9.53 ug/L
RT: 1.885 min Scan# 106
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 50 Resp: 152109

Ion	Ratio	Lower	Upper
50	100		
52	32.3	11.7	51.7
47	7.1	0.0	28.0

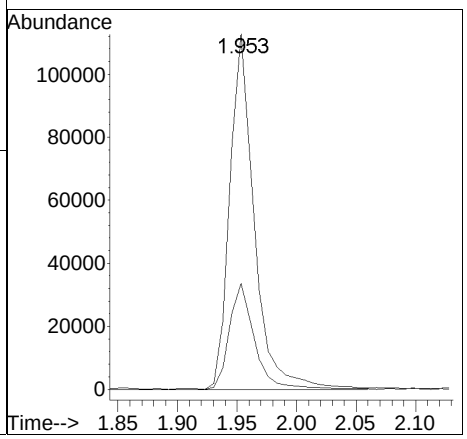


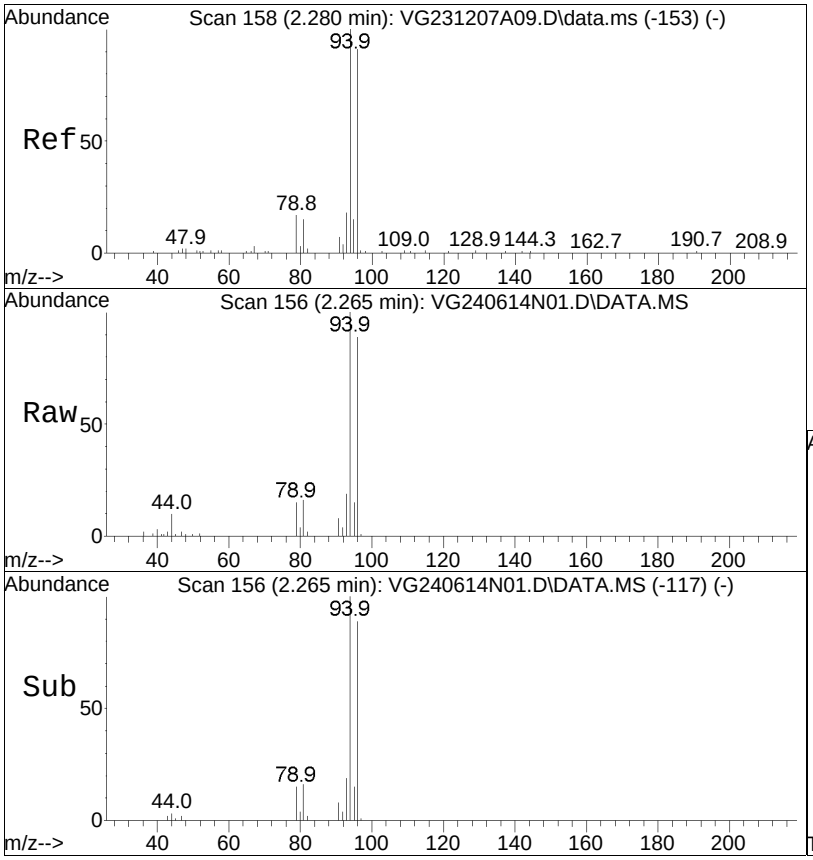


#4
Vinyl chloride
Concen: 10.10 ug/L
RT: 1.953 min Scan# 115
Delta R.T. 0.007 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 62 Resp: 162448

Ion	Ratio	Lower	Upper
62	100		
64	30.9	11.3	51.3

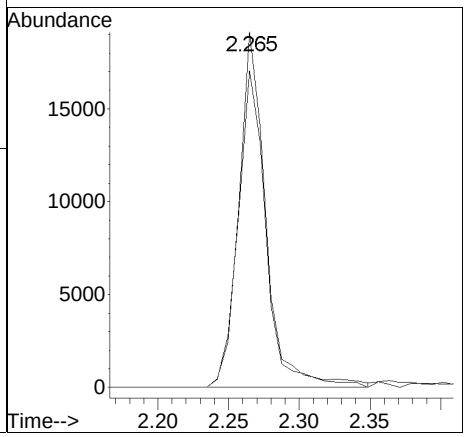


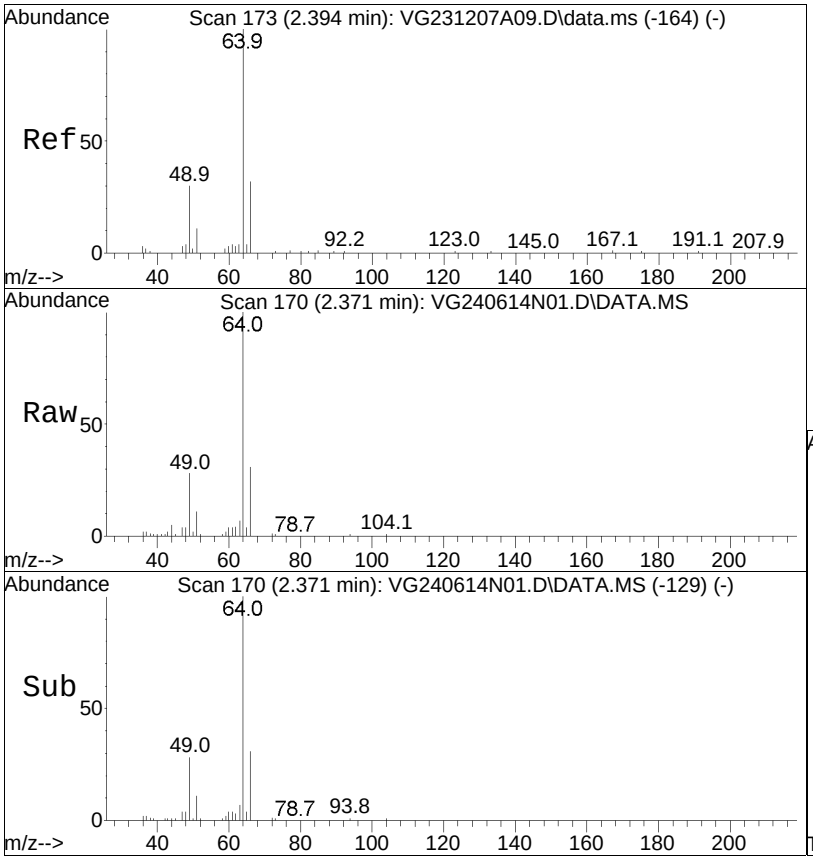


#5
Bromomethane
Concen: 1.70 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 94 Resp: 25706

Ion	Ratio	Lower	Upper
94	100		
96	92.1	75.2	115.2

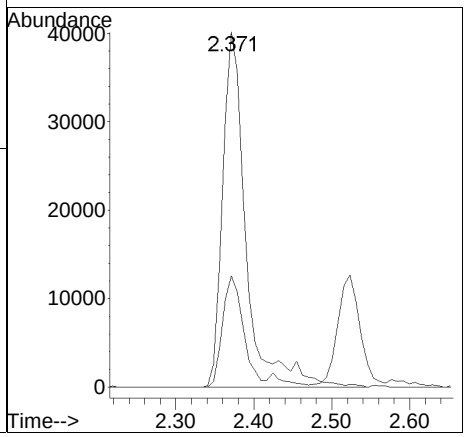


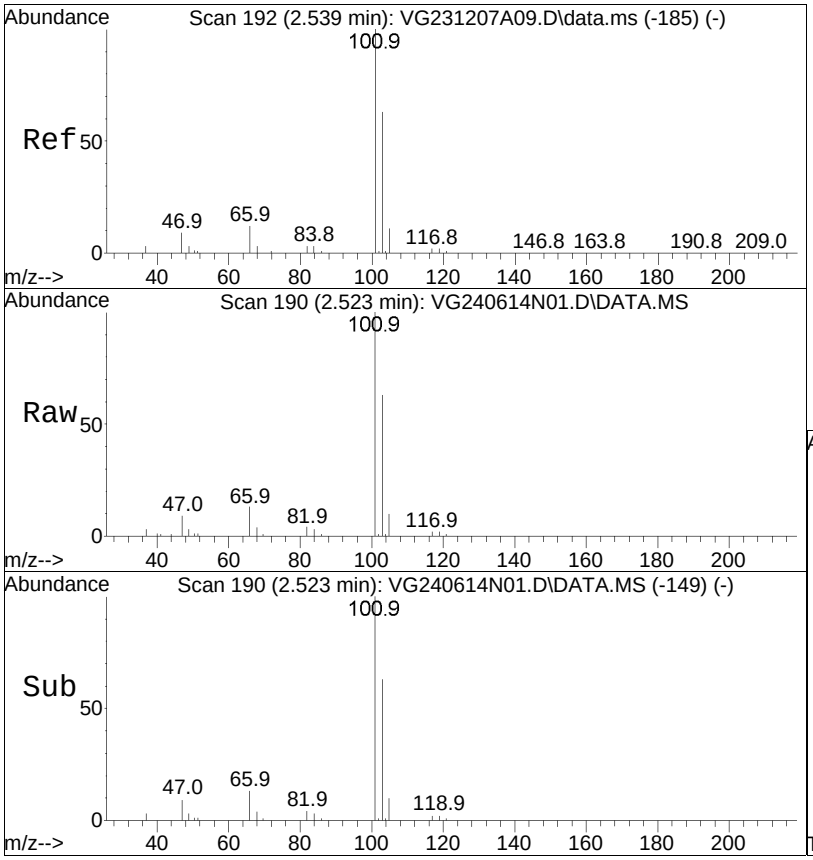


#6
Chloroethane
Concen: 7.60 ug/L
RT: 2.371 min Scan# 170
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 64 Resp: 84568

Ion	Ratio	Lower	Upper
64	100		
66	27.9	13.7	53.7

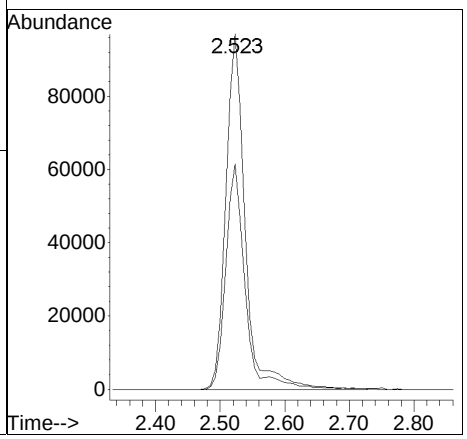


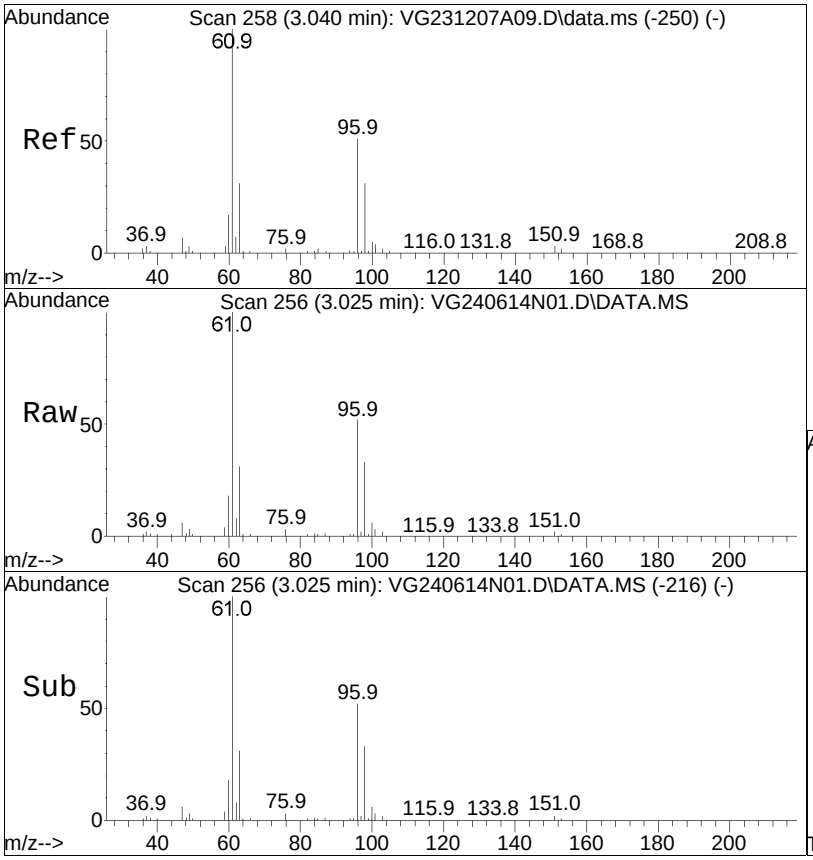


#7
Trichlorofluoromethane
Concen: 9.13 ug/L
RT: 2.523 min Scan# 190
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:101 Resp: 203076

Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.2	78.2

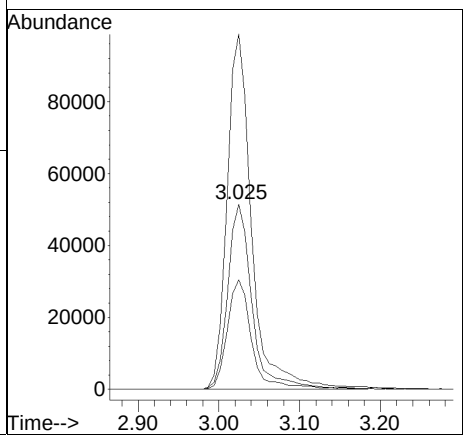


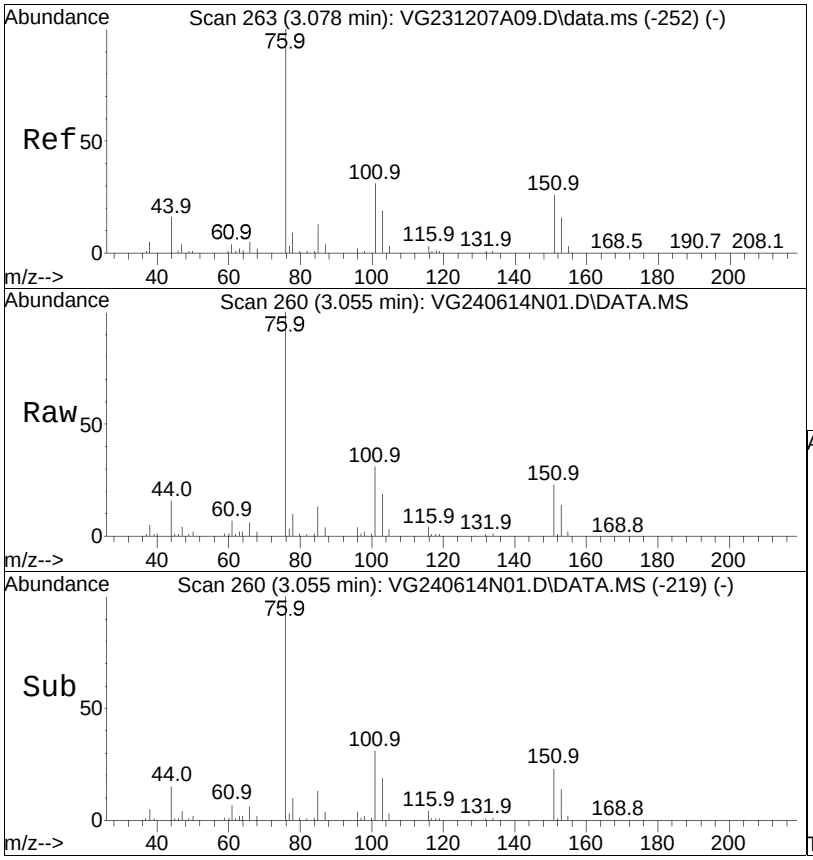


#10
1,1-Dichloroethene
Concen: 9.68 ug/L
RT: 3.025 min Scan# 256
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 96 Resp: 109137

Ion	Ratio	Lower	Upper
96	100		
61	194.6	124.2	186.4#
63	58.9	40.0	60.0

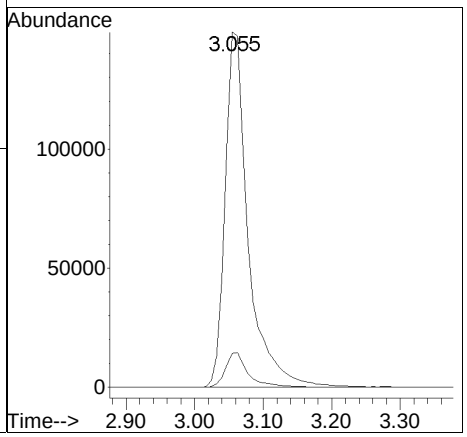


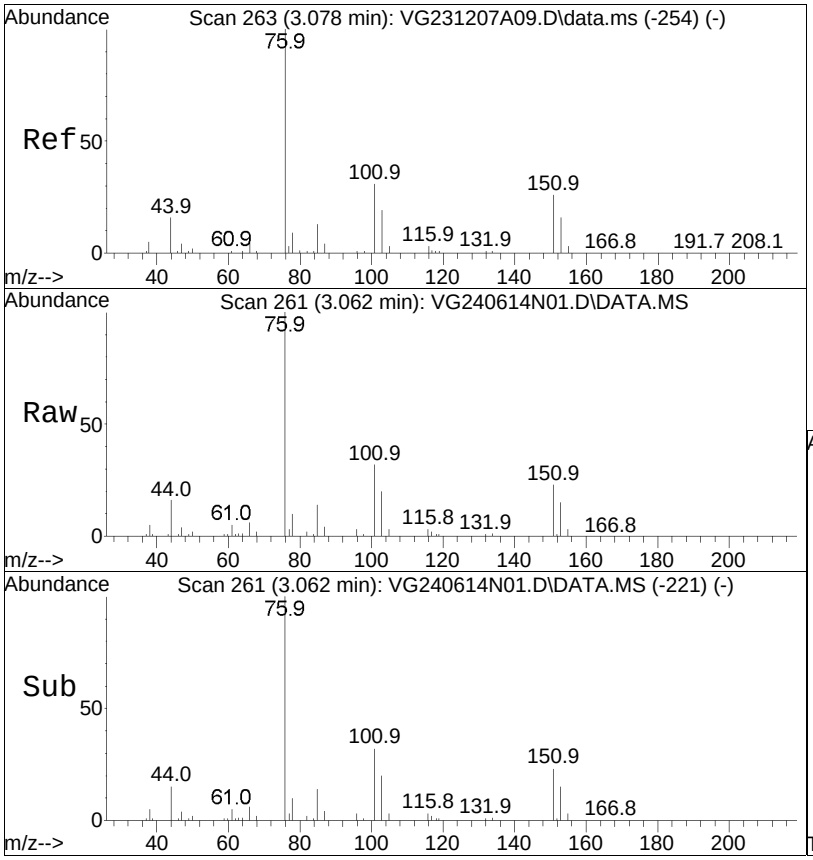


#11
Carbon disulfide
Concen: 9.84 ug/L
RT: 3.055 min Scan# 260
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 76 Resp: 351547

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.6	13.6

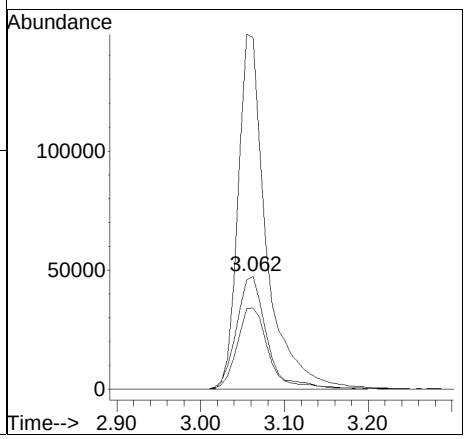


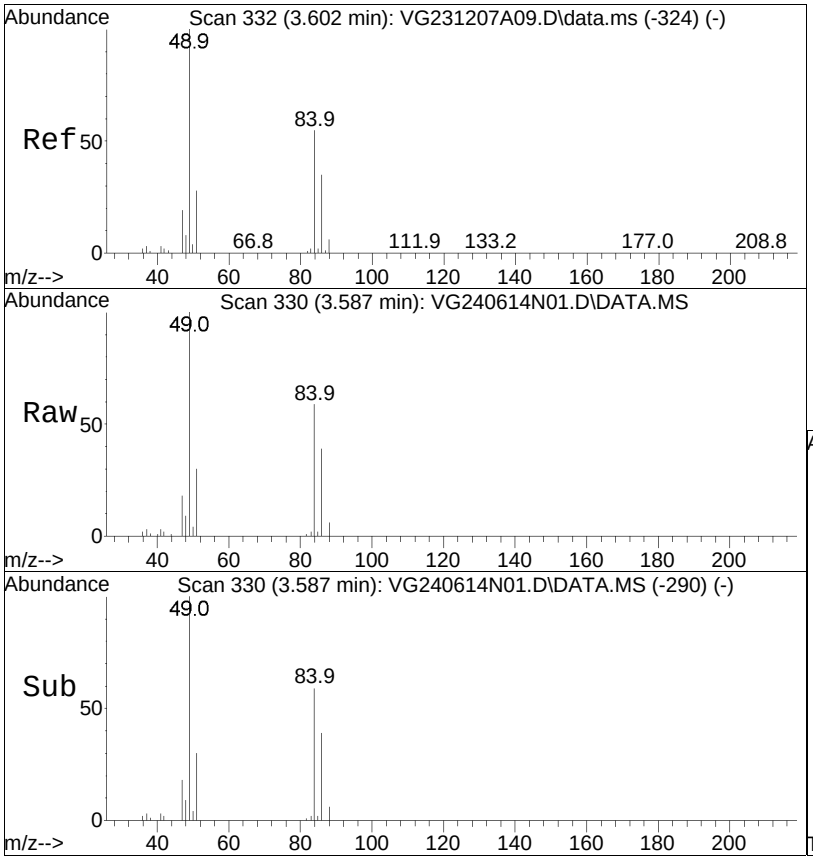


#12
Freon-113
Concen: 9.49 ug/L
RT: 3.062 min Scan# 261
Delta R.T. 0.007 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:101 Resp: 121730

Ion	Ratio	Lower	Upper
101	100		
151	75.1	68.2	102.2
76	288.8	186.0	279.0#

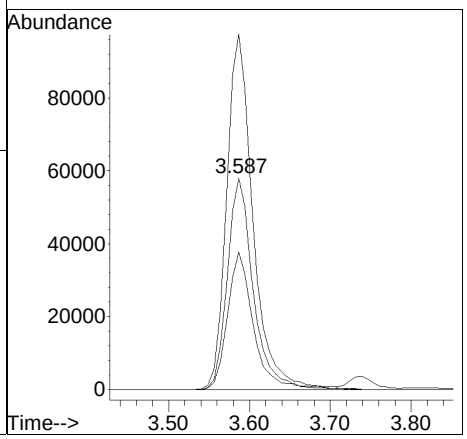


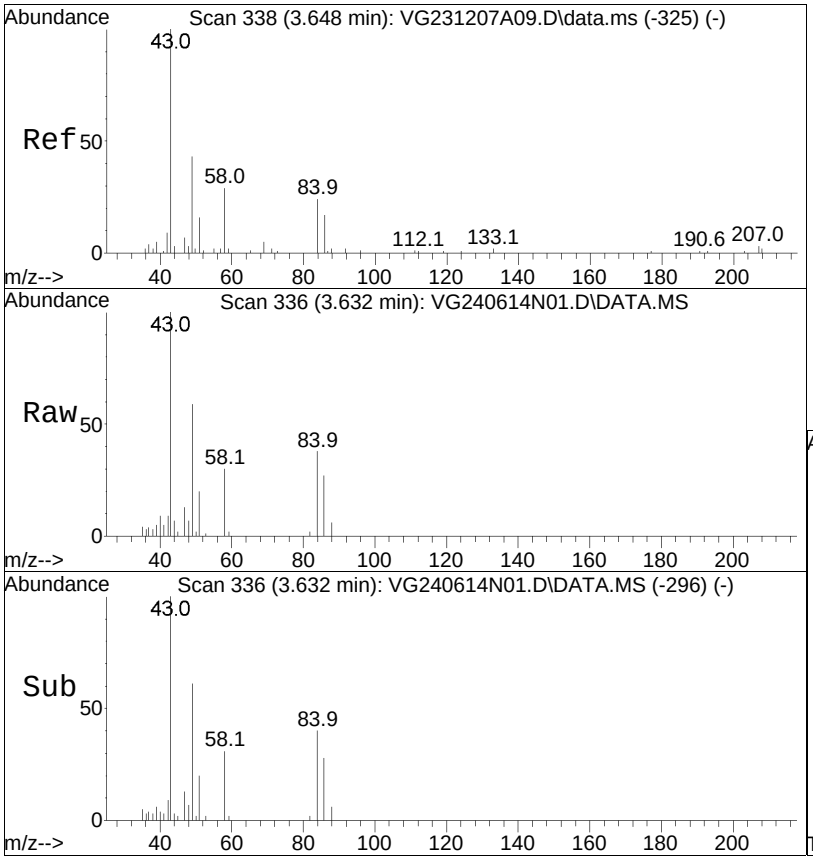


#15
Methylene chloride
Concen: 9.43 ug/L
RT: 3.587 min Scan# 330
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 84 Resp: 129557

Ion	Ratio	Lower	Upper
84	100		
86	64.6	41.1	85.5
49	169.5	76.2	158.2#

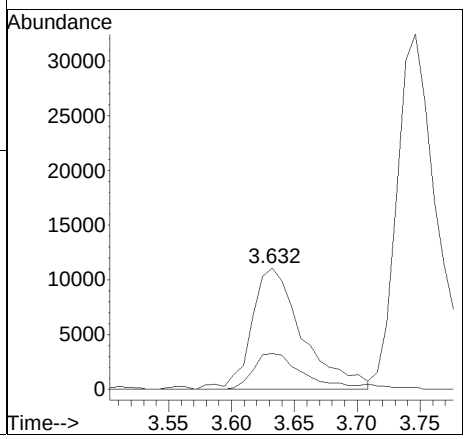


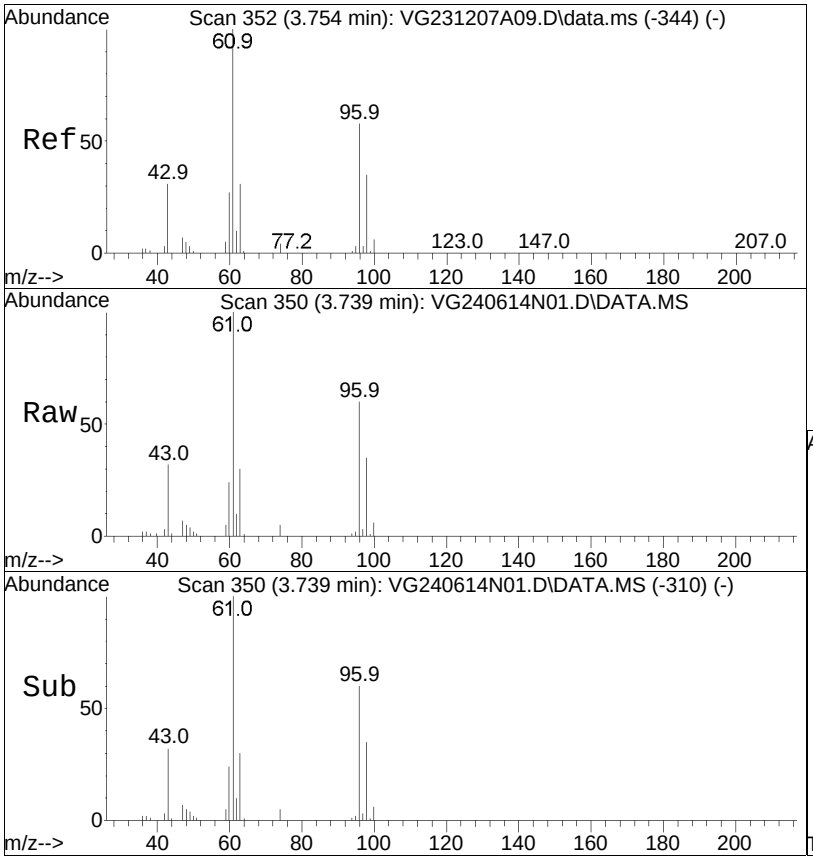


#17
Acetone
Concen: 8.90 ug/L
RT: 3.632 min Scan# 336
Delta R.T. 0.007 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 43 Resp: 31456

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.2	33.4

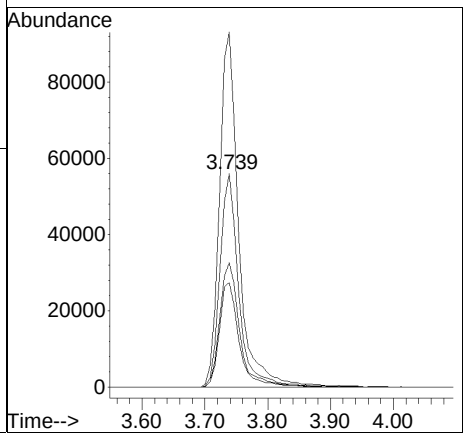


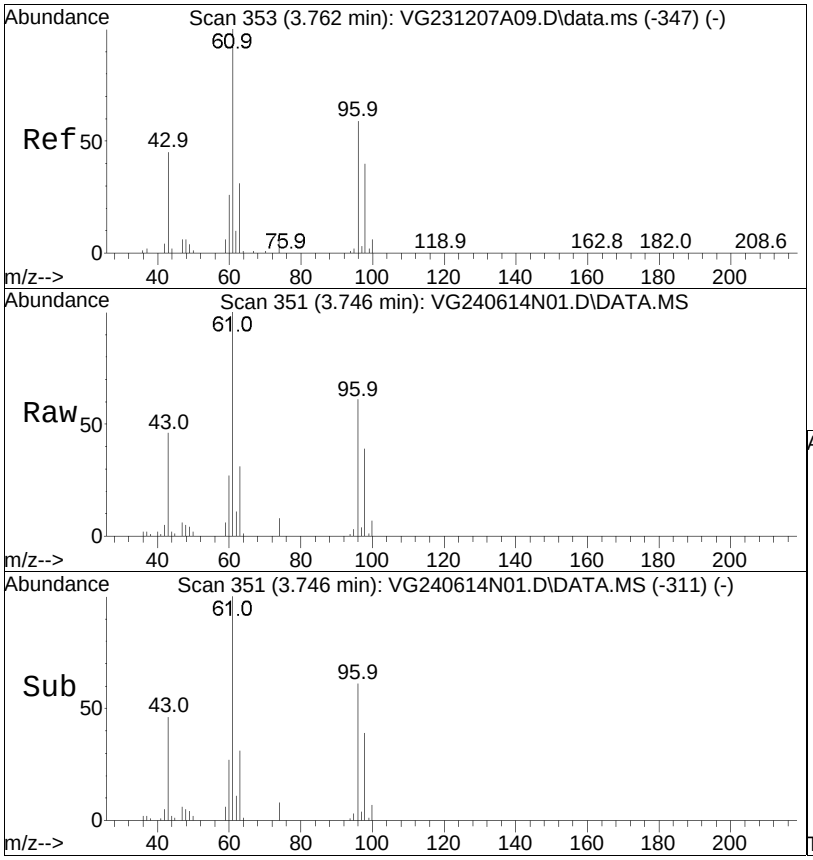


#18
trans-1,2-Dichloroethene
Concen: 9.28 ug/L
RT: 3.739 min Scan# 350
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 96 Resp: 118407

Ion	Ratio	Lower	Upper
96	100		
61	168.1	85.7	178.1
98	61.5	40.2	83.4
63	51.5	28.0	58.2

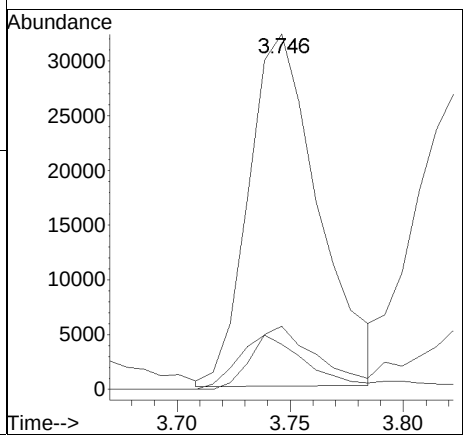


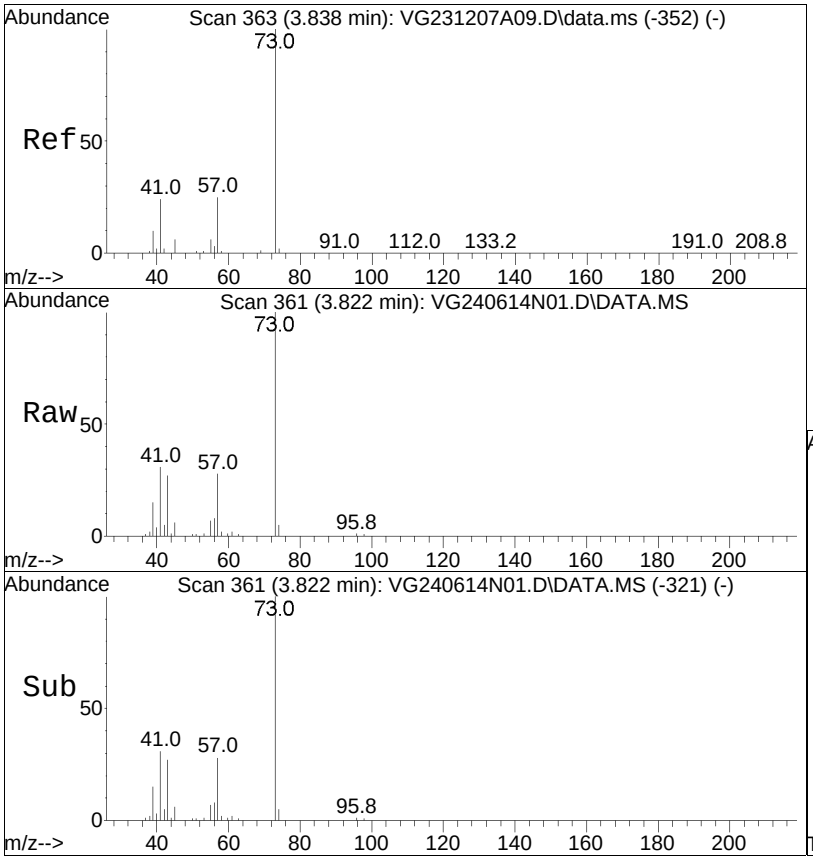


#19
Methyl acetate
Concen: 9.50 ug/L
RT: 3.746 min Scan# 351
Delta R.T. 0.007 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 43 Resp: 69531

Ion	Ratio	Lower	Upper
43	100		
74	16.7	19.3	28.9#
59	15.0	13.9	20.9

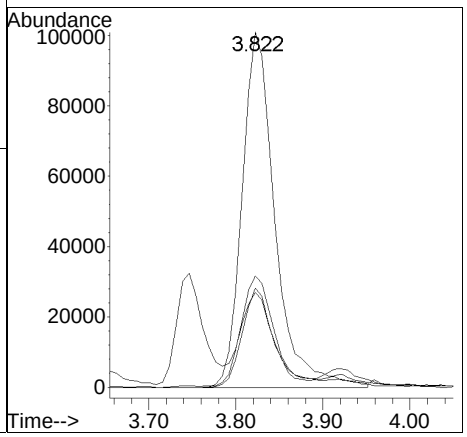


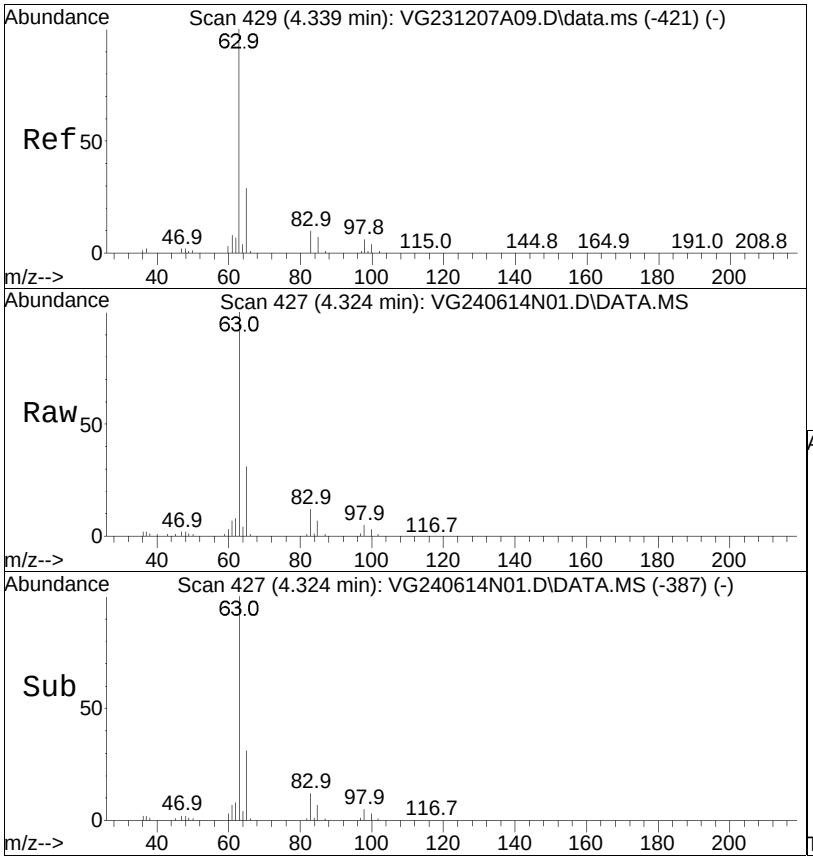


#20
Methyl tert-butyl ether
Concen: 7.98 ug/L
RT: 3.822 min Scan# 361
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 73 Resp: 266094

Ion	Ratio	Lower	Upper
73	100		
57	27.0	12.5	26.1#
43	27.6	13.0	27.0#
41	31.1	12.5	26.1#

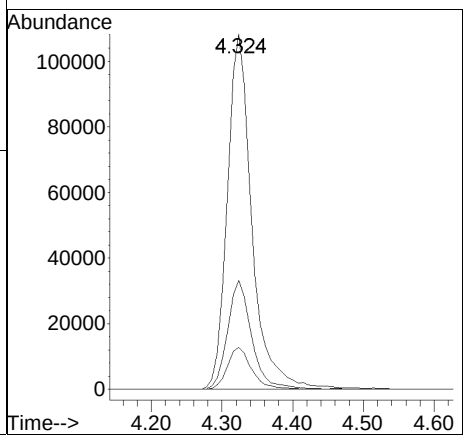


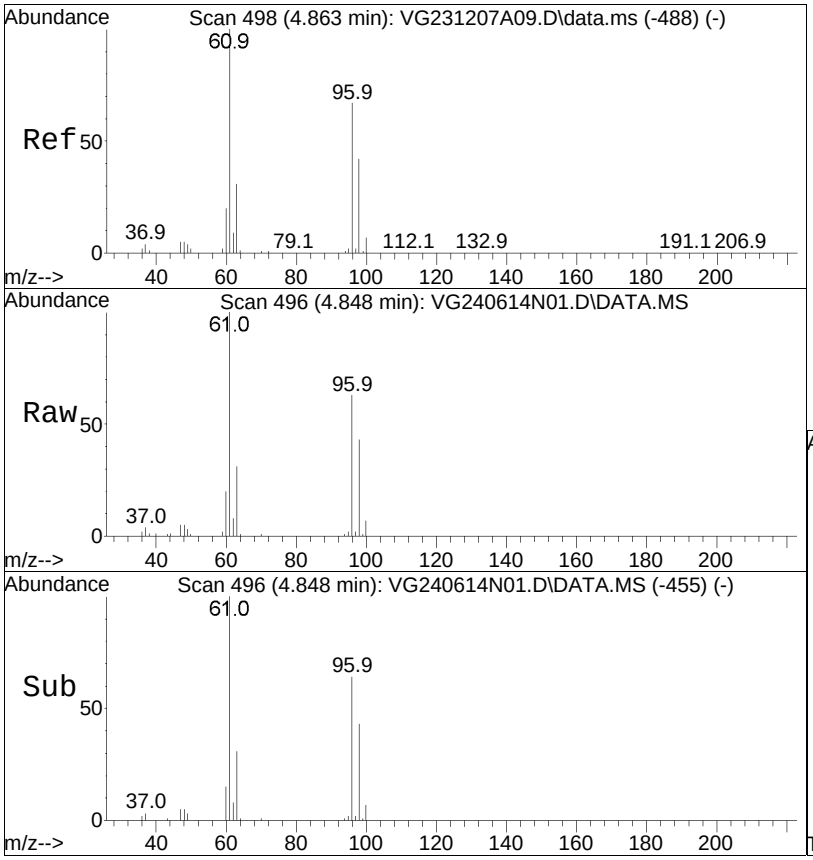


#23
1,1-Dichloroethane
Concen: 10.38 ug/L
RT: 4.324 min Scan# 427
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 63 Resp: 263435

Ion	Ratio	Lower	Upper
63	100		
65	30.0	10.4	50.4
83	11.7	0.0	33.2

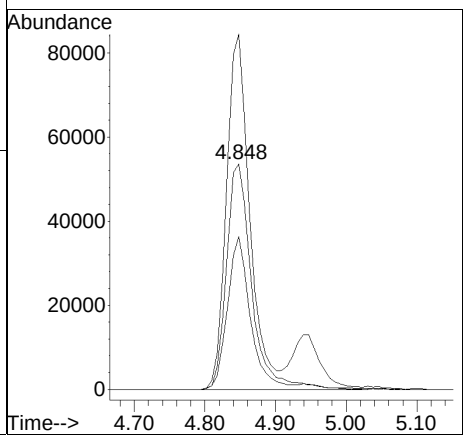


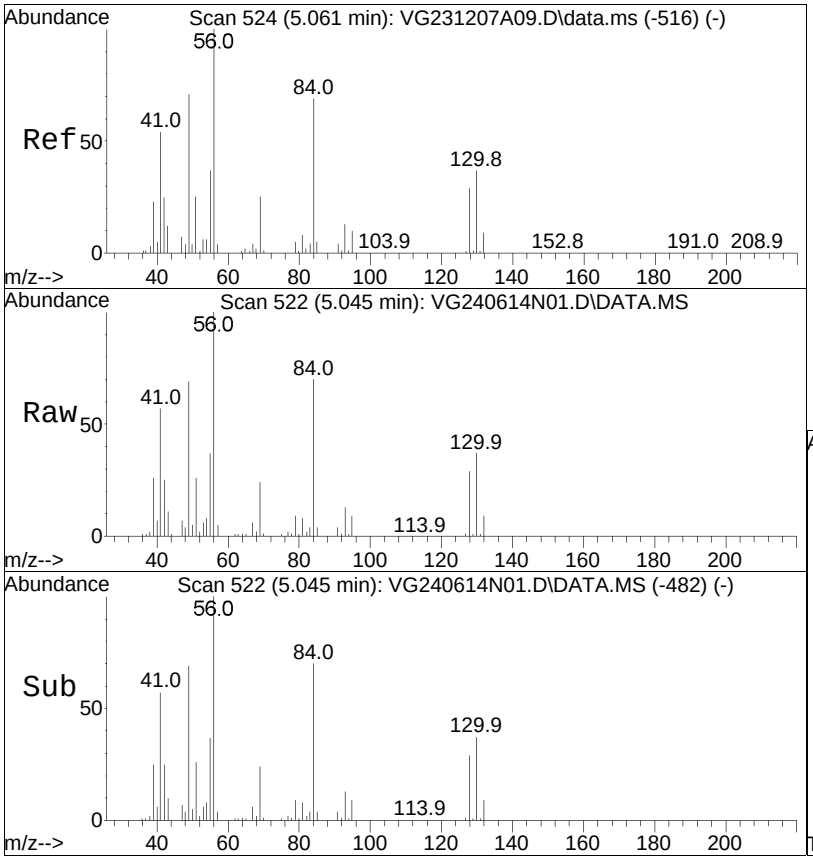


#28
cis-1,2-Dichloroethene
Concen: 8.99 ug/L
RT: 4.848 min Scan# 496
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 96 Resp: 133353

Ion	Ratio	Lower	Upper
96	100		
61	143.8	96.6	144.8
98	61.6	51.3	76.9

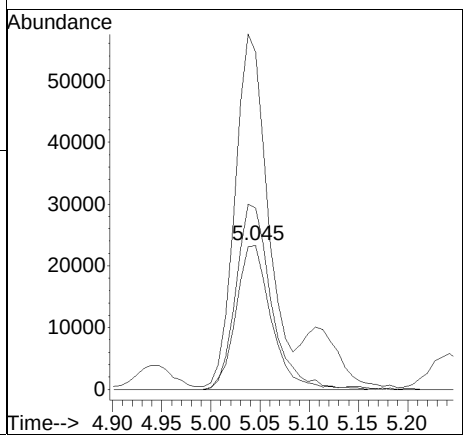


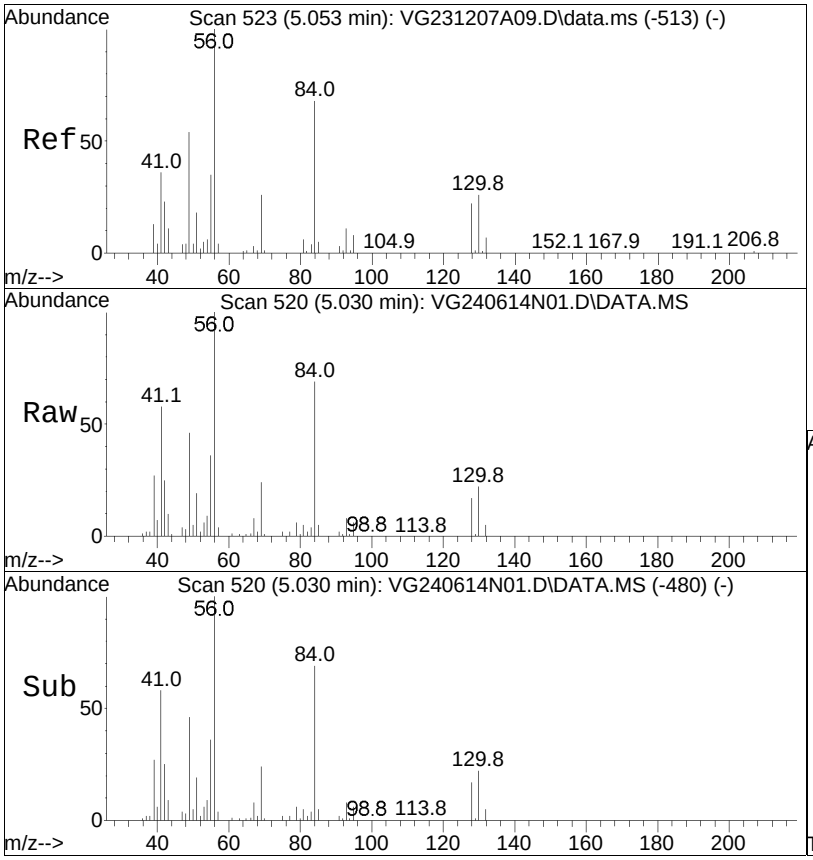


#30
Bromochloromethane
Concen: 8.71 ug/L
RT: 5.045 min Scan# 522
Delta R.T. 0.007 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:128 Resp: 58332

Ion	Ratio	Lower	Upper
128	100		
49	225.8	112.7	169.1#
130	127.6	103.3	154.9

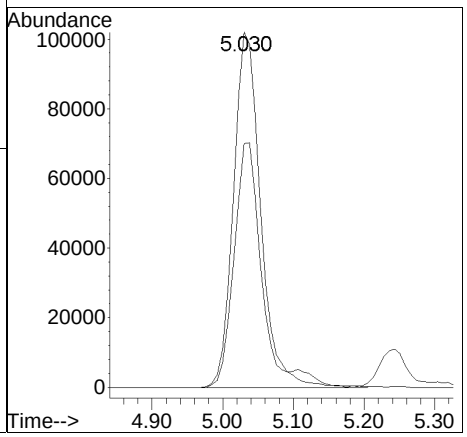


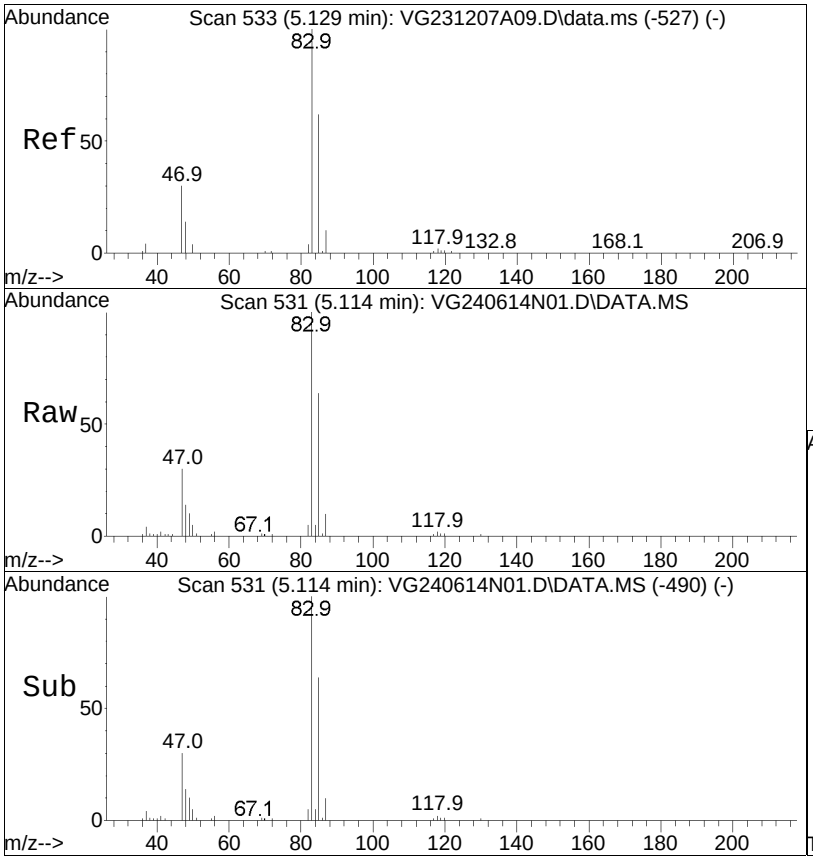


#31
Cyclohexane
Concen: 10.80 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 56 Resp: 273059

Ion	Ratio	Lower	Upper
56	100		
84	66.7	63.8	132.4

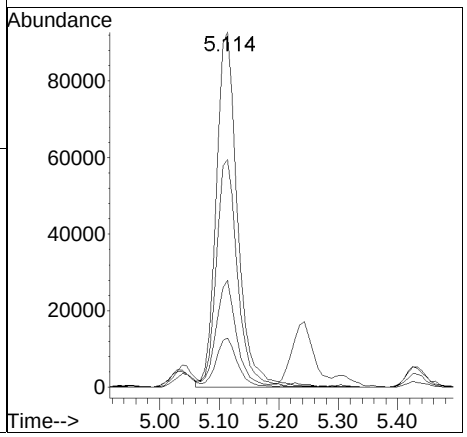


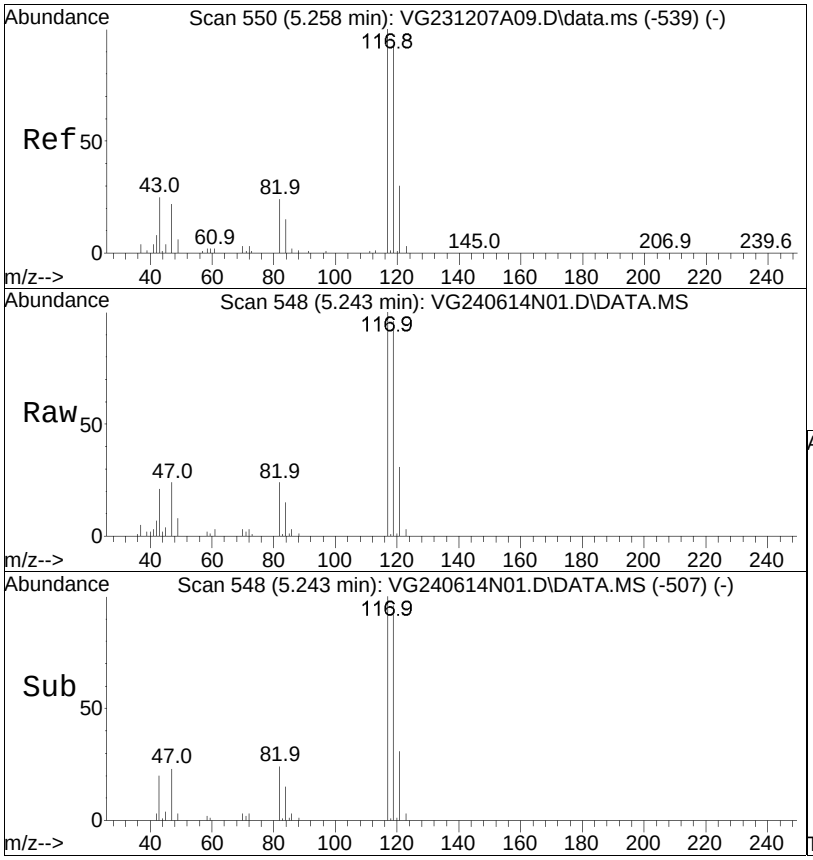


#32
Chloroform
Concen: 9.54 ug/L
RT: 5.114 min Scan# 531
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 83 Resp: 233767

Ion	Ratio	Lower	Upper
83	100		
85	61.9	41.4	86.0
47	26.6	15.1	31.3
48	13.7	7.7	16.1

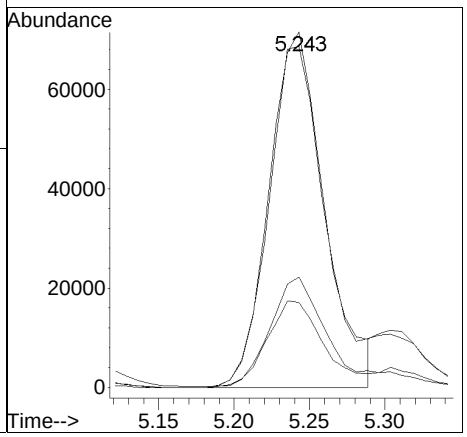


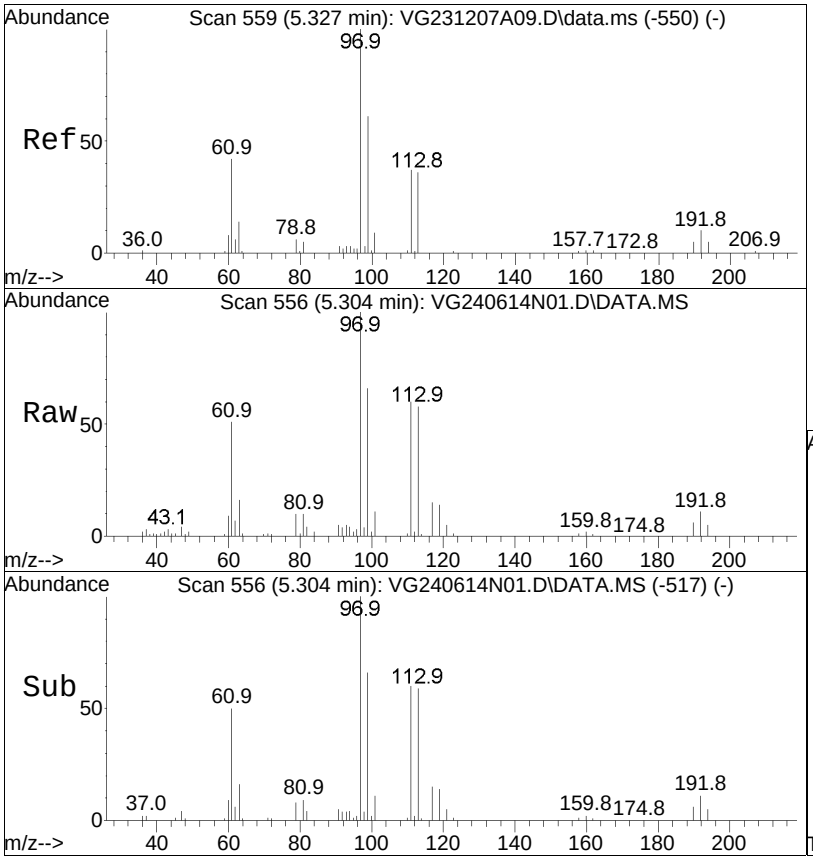


#34
Carbon tetrachloride
Concen: 9.57 ug/L
RT: 5.243 min Scan# 548
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:117 Resp: 182619

Ion	Ratio	Lower	Upper
117	100		
119	97.4	63.2	131.2
121	31.7	20.4	42.4
82	24.4	15.4	32.0

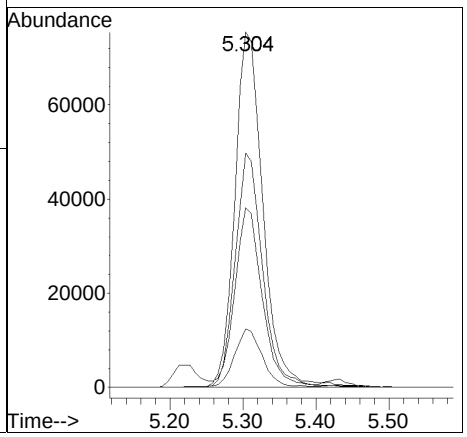


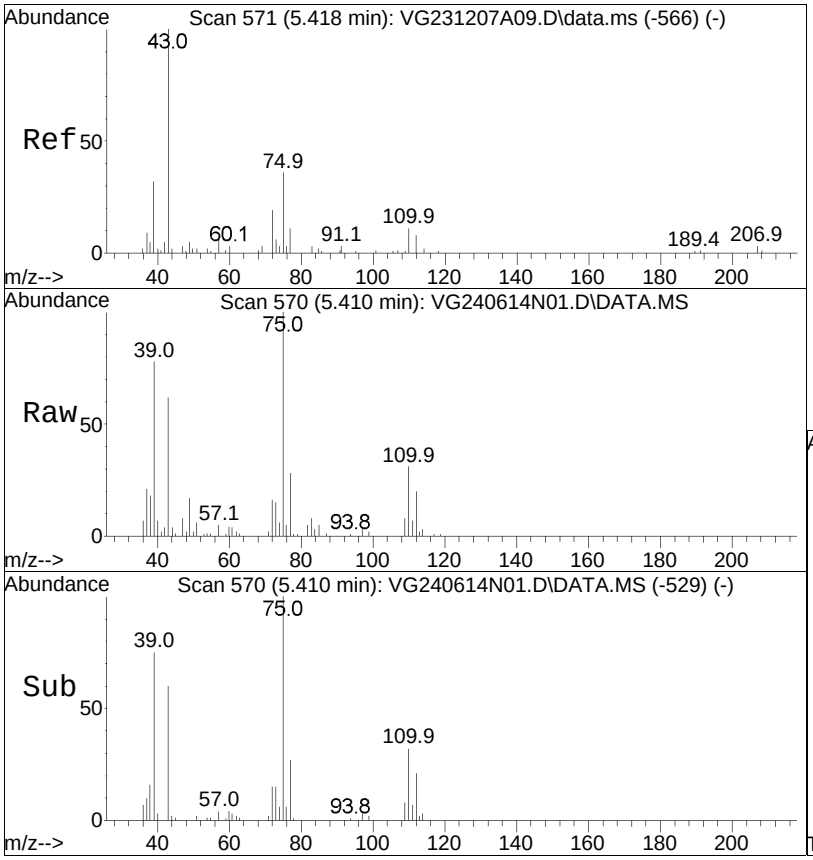


#37
1,1,1-Trichloroethane
Concen: 9.70 ug/L
RT: 5.304 min Scan# 556
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 97 Resp: 203589

Ion	Ratio	Lower	Upper
97	100		
99	64.1	41.3	85.7
61	49.4	26.0	54.0
63	16.5	8.6	18.0

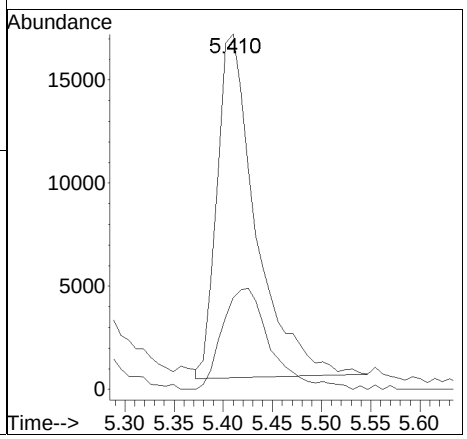


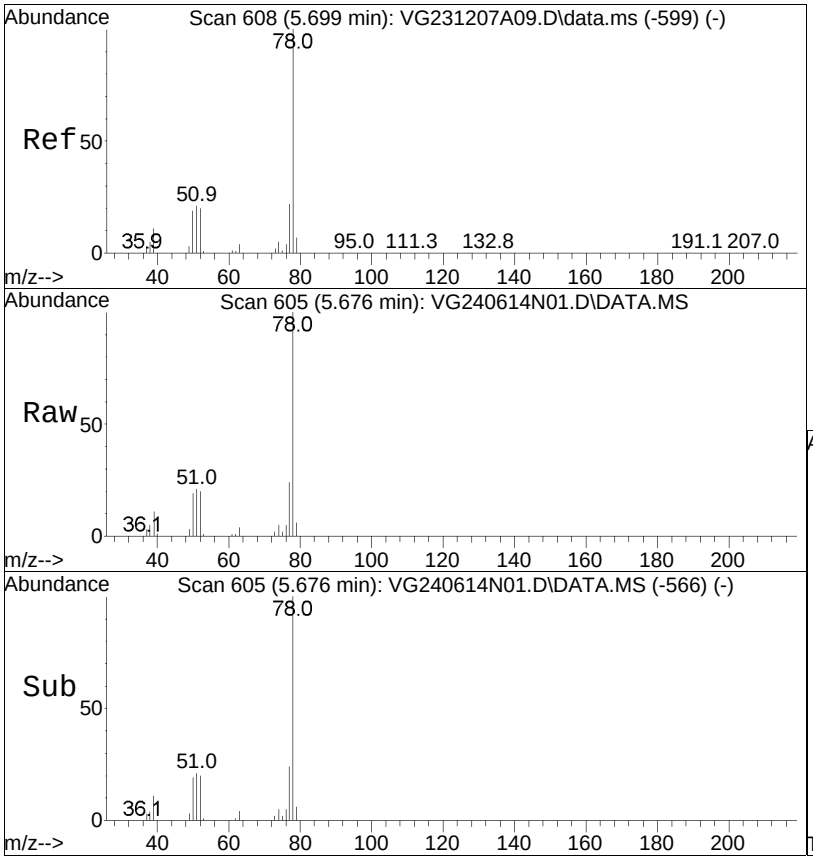


#39
2-Butanone
Concen: 9.84 ug/L
RT: 5.410 min Scan# 570
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 43 Resp: 45887

Ion	Ratio	Lower	Upper
43	100		
72	36.2	42.6	63.8#

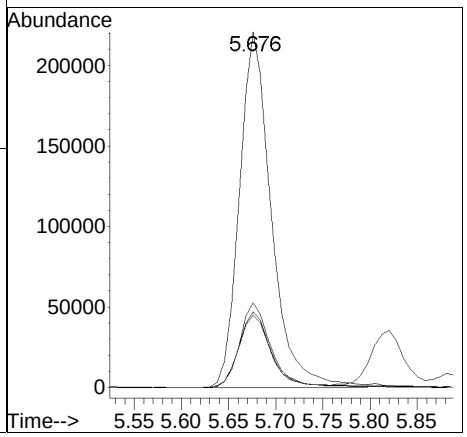


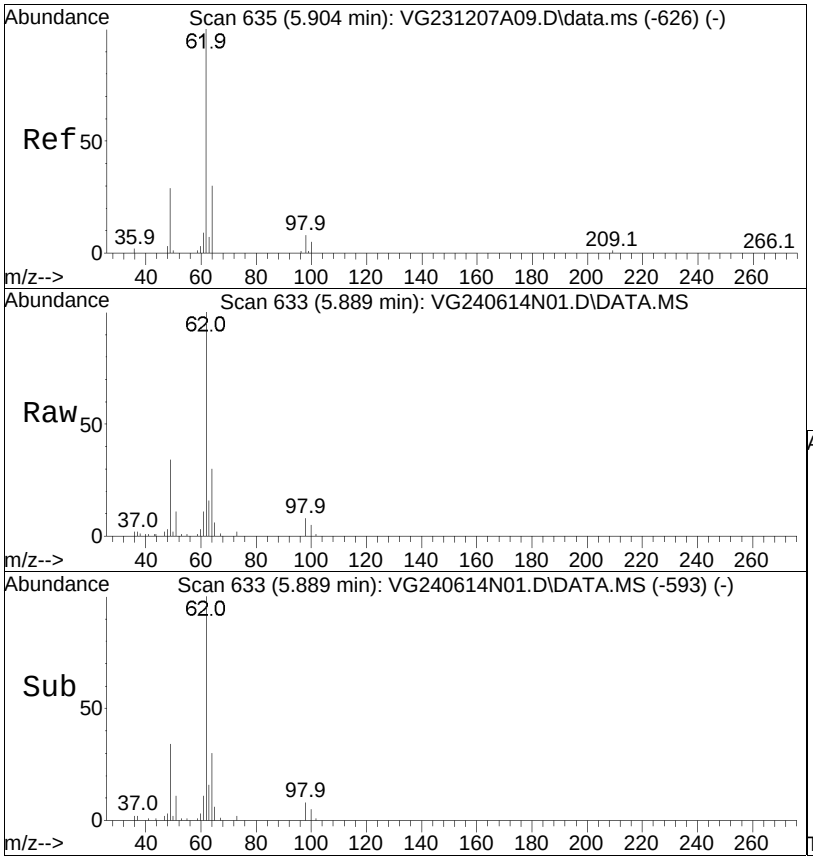


#41
Benzene
Concen: 9.63 ug/L
RT: 5.676 min Scan# 605
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 78 Resp: 519984

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.5	32.1
51	21.3	9.9	20.7#
52	21.2	9.2	19.2#

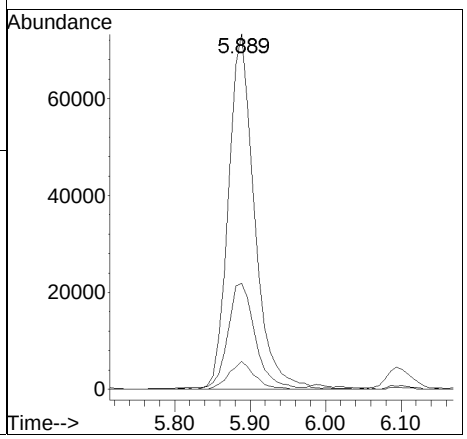


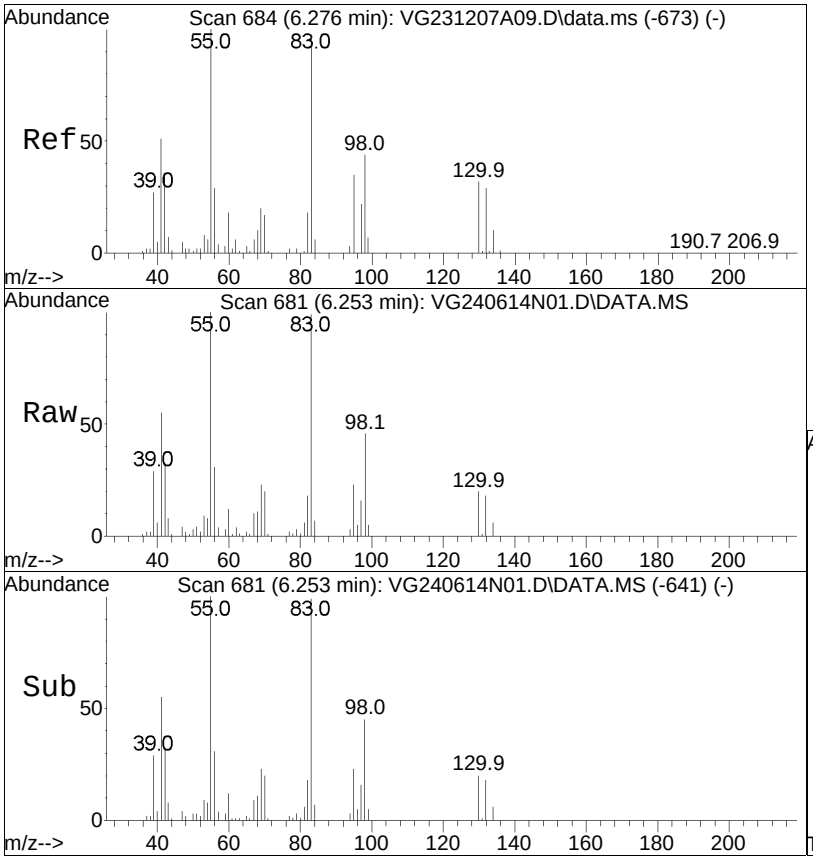


#44
1,2-Dichloroethane
Concen: 9.17 ug/L
RT: 5.889 min Scan# 633
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 62 Resp: 178442

Ion	Ratio	Lower	Upper
62	100		
64	32.4	11.9	51.9
98	7.7	0.0	29.3

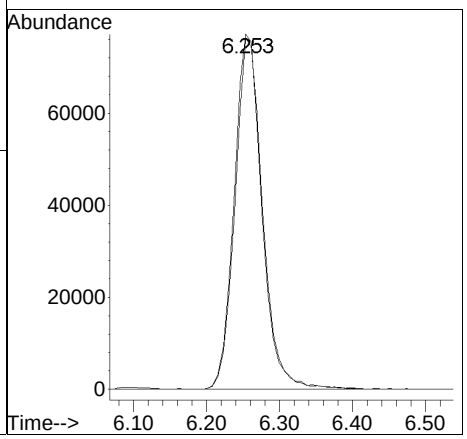


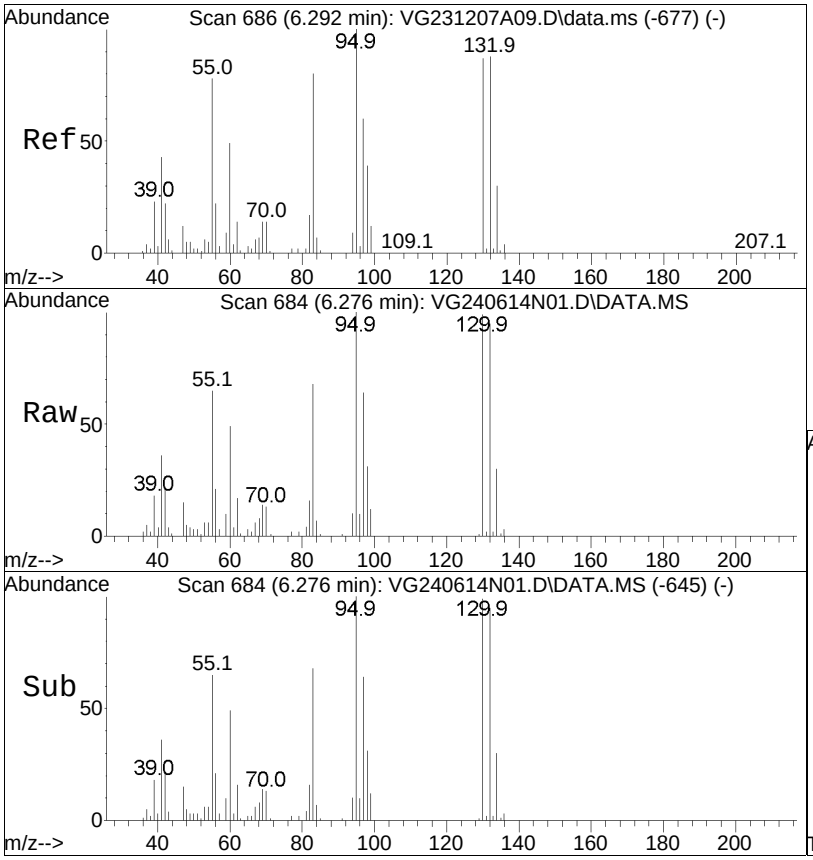


#47
Methyl cyclohexane
Concen: 9.55 ug/L
RT: 6.253 min Scan# 681
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 83 Resp: 200769

Ion	Ratio	Lower	Upper
83	100		
55	101.8	56.0	84.0#

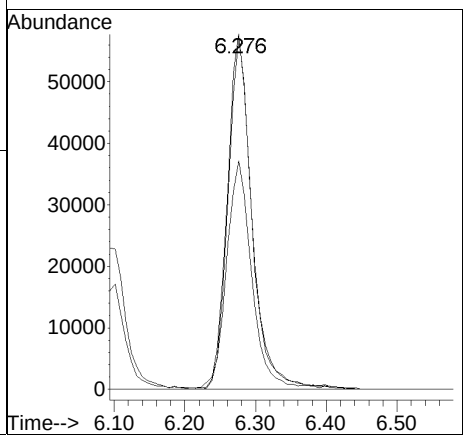


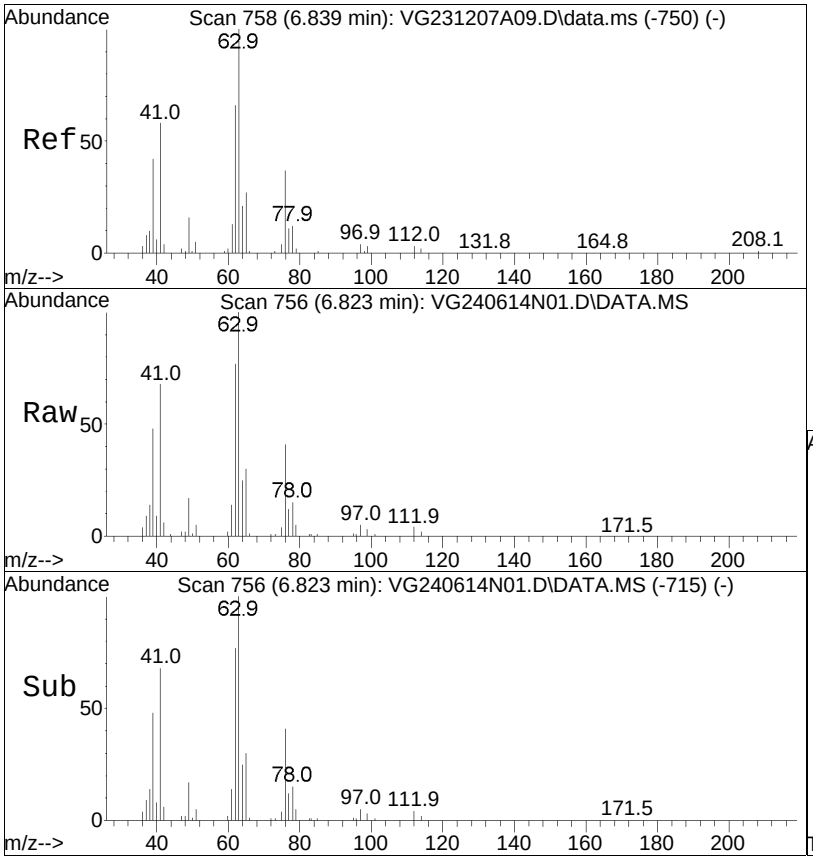


#48
Trichloroethene
Concen: 8.67 ug/L
RT: 6.276 min Scan# 684
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 95 Resp: 140671

Ion	Ratio	Lower	Upper
95	100		
97	64.7	54.0	81.0
130	97.3	85.0	127.4

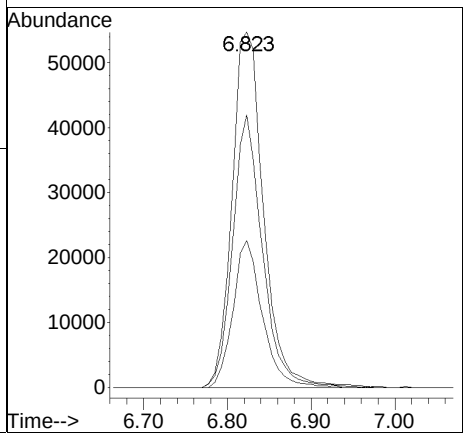


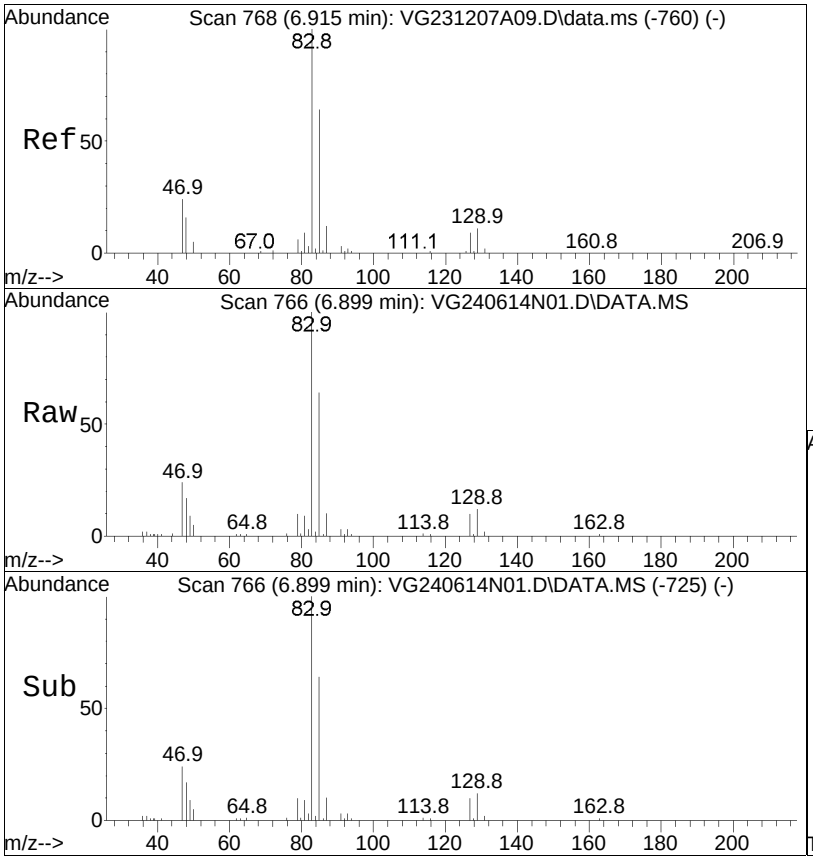


#51
1,2-Dichloropropane
Concen: 10.31 ug/L
RT: 6.823 min Scan# 756
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 63 Resp: 143394

Ion	Ratio	Lower	Upper
63	100		
62	72.2	56.5	84.7
76	38.5	34.6	52.0

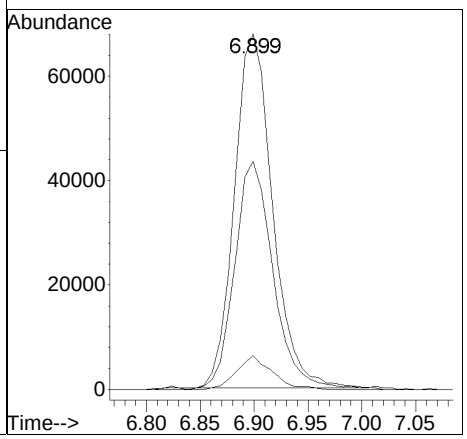


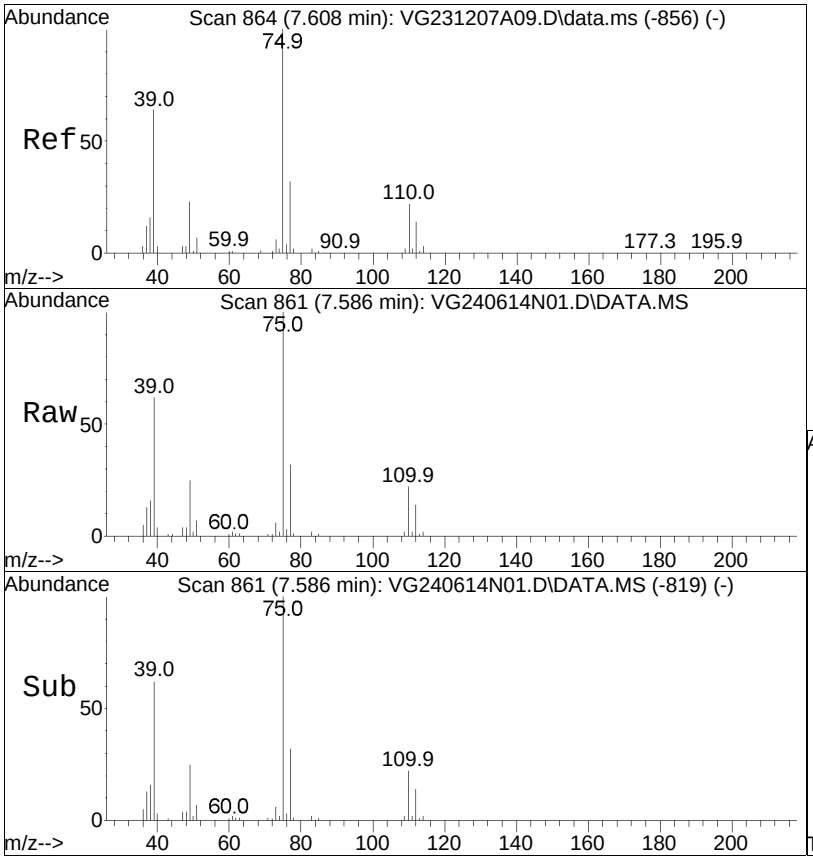


#54
Bromodichloromethane
Concen: 8.81 ug/L
RT: 6.899 min Scan# 766
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 83 Resp: 167816

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.8	76.2
127	8.8	7.4	11.2

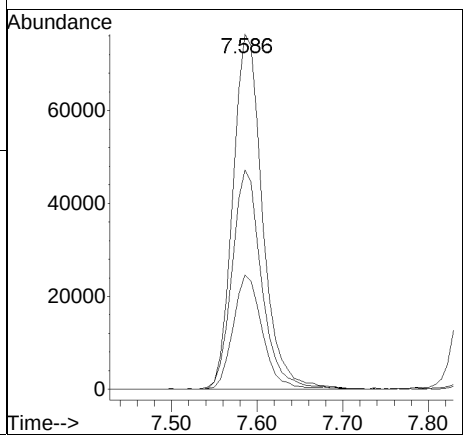


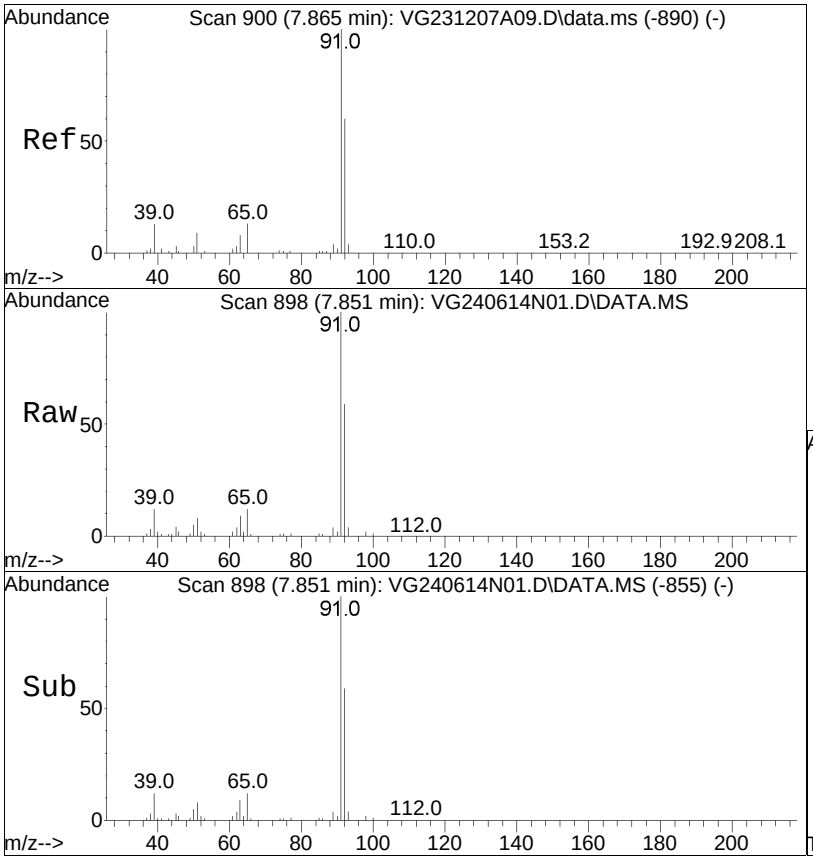


#58
cis-1,3-Dichloropropene
Concen: 8.78 ug/L
RT: 7.586 min Scan# 861
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 75 Resp: 183848

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.6	36.8
39	61.8	40.8	61.2#

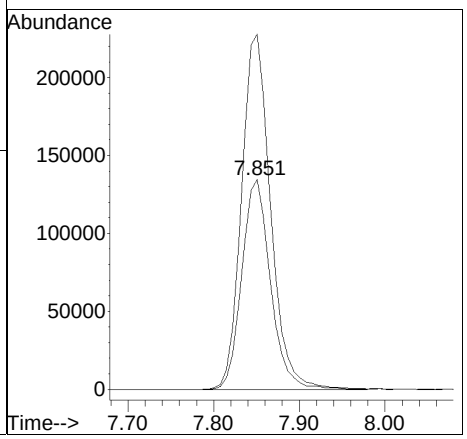


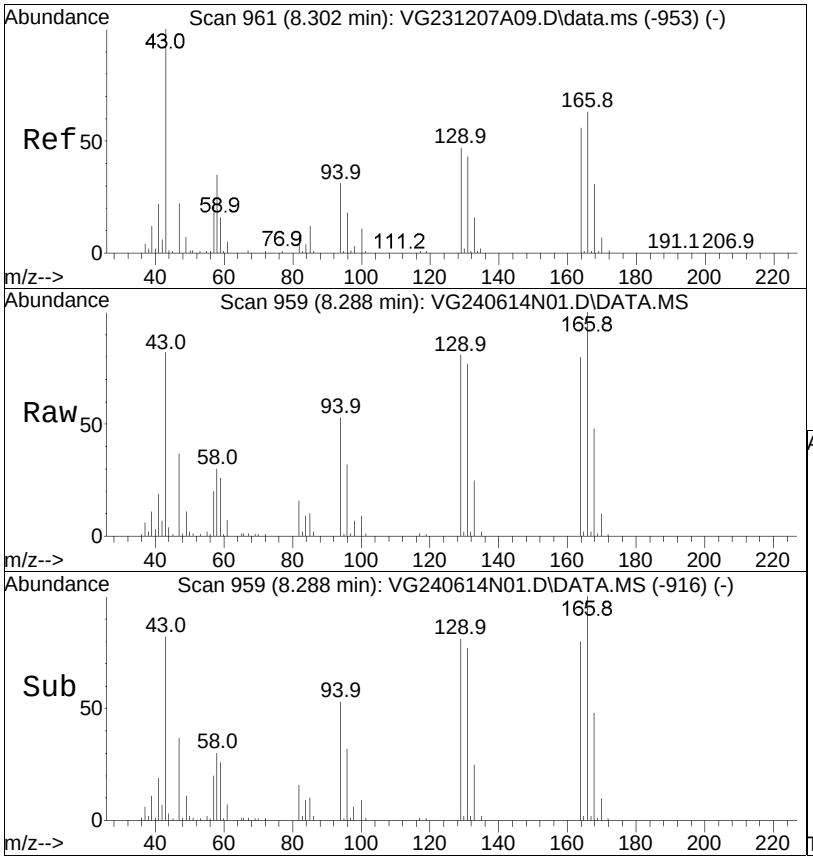


#61
Toluene
Concen: 9.93 ug/L
RT: 7.851 min Scan# 898
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 92 Resp: 313069

Ion	Ratio	Lower	Upper
92	100		
91	171.1	134.8	202.2

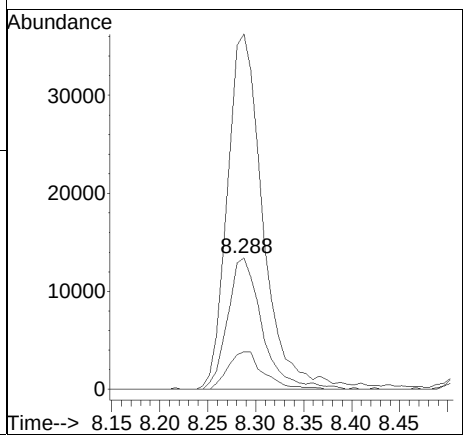


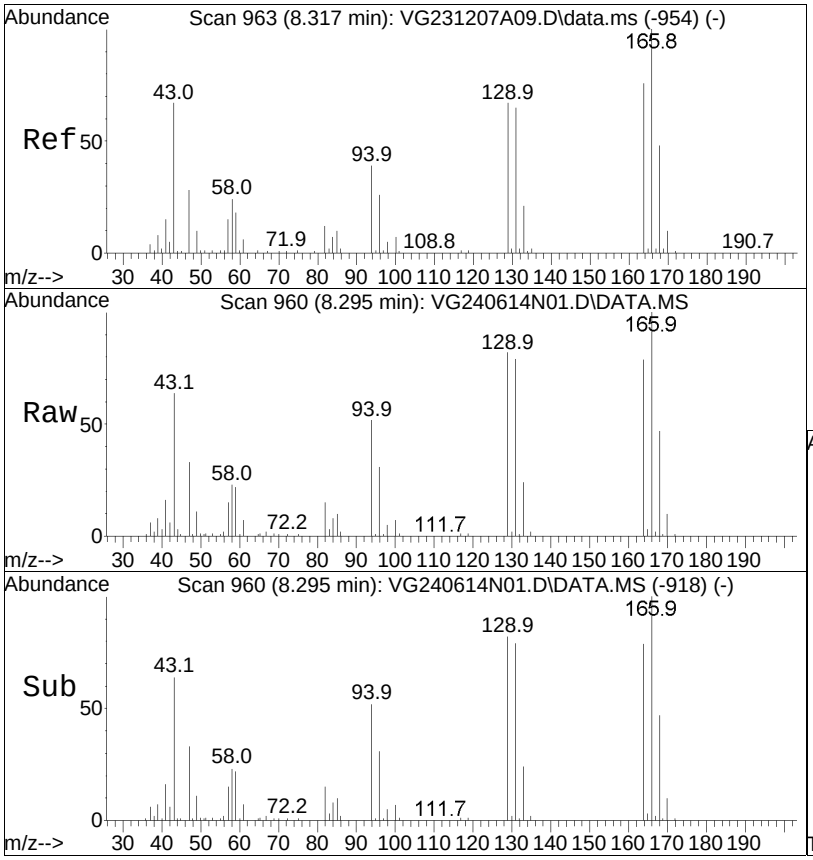


#62
4-Methyl-2-pentanone
Concen: 9.58 ug/L
RT: 8.288 min Scan# 959
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 58 Resp: 33813

Ion	Ratio	Lower	Upper
58	100		
100	29.5	33.6	50.4#
43	278.2	204.3	306.5

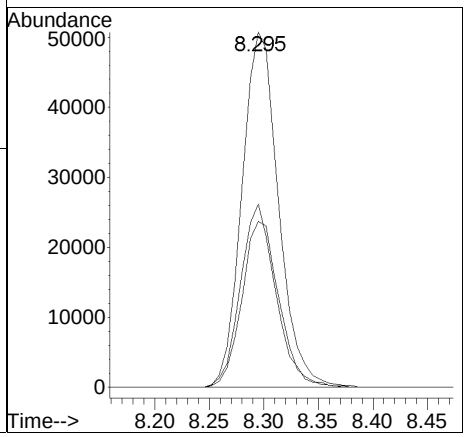


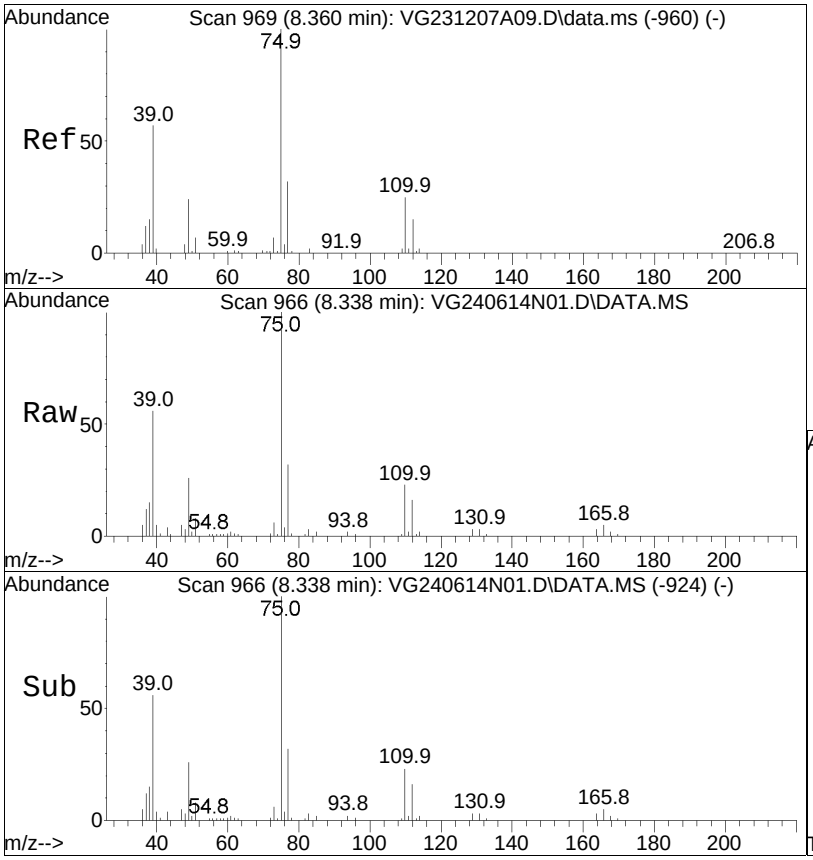


#63
Tetrachloroethene
Concen: 9.65 ug/L
RT: 8.295 min Scan# 960
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:166 Resp: 118578

Ion	Ratio	Lower	Upper
166	100		
168	47.6	27.3	67.3
94	49.8	20.5	60.5

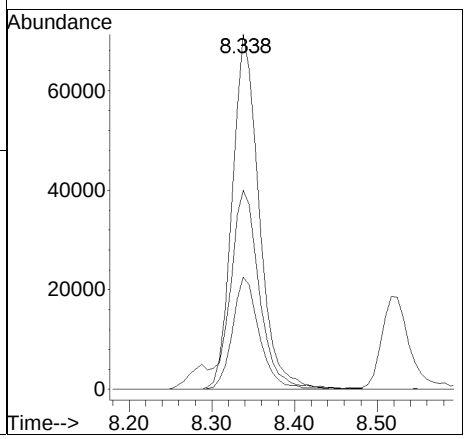


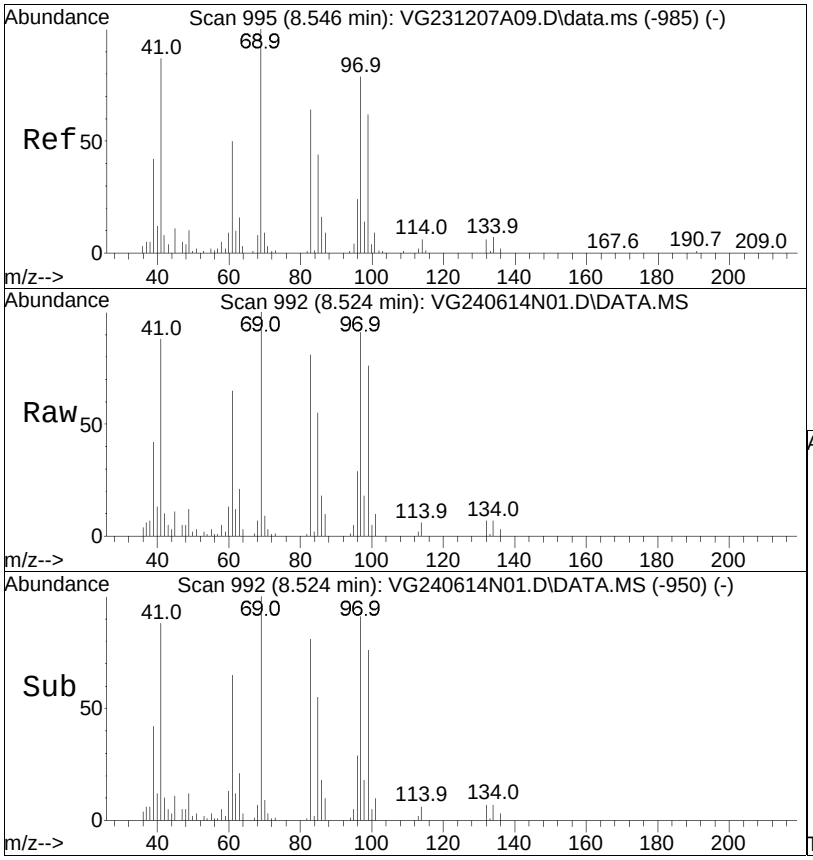


#65
trans-1,3-Dichloropropene
Concen: 9.46 ug/L
RT: 8.338 min Scan# 966
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 75 Resp: 161447

Ion	Ratio	Lower	Upper
75	100		
77	31.8	11.3	51.3
39	59.6	36.0	76.0

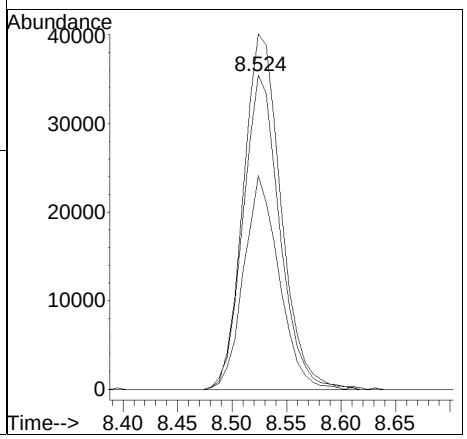


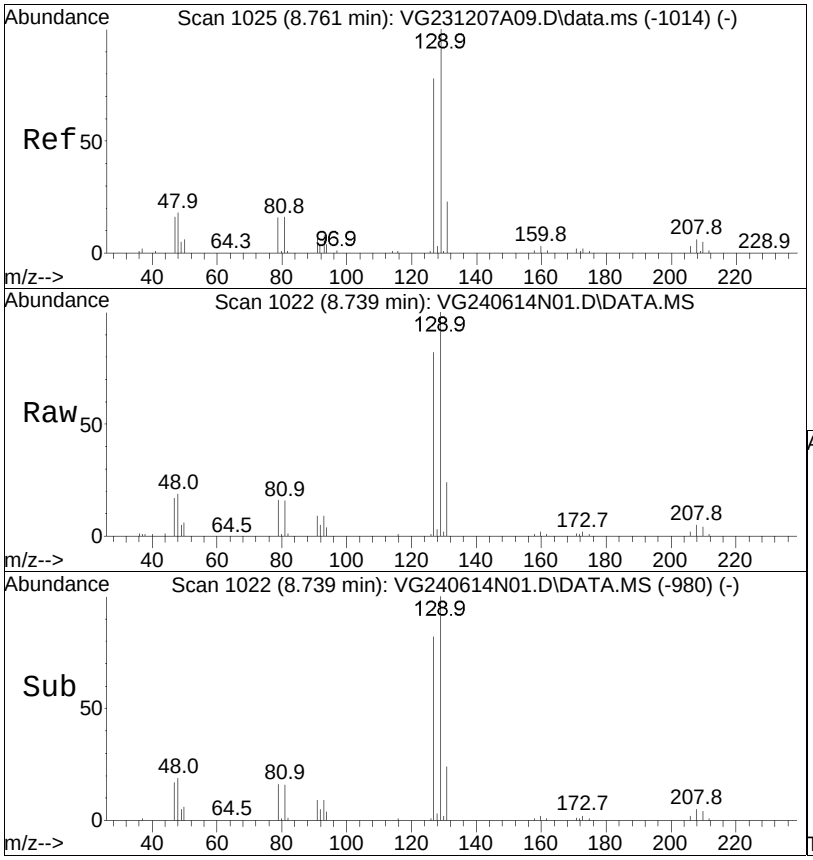


#68
1,1,2-Trichloroethane
Concen: 9.36 ug/L
RT: 8.524 min Scan# 992
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 83 Resp: 82849

Ion	Ratio	Lower	Upper
83	100		
97	116.4	101.0	141.0
85	65.7	47.9	87.9

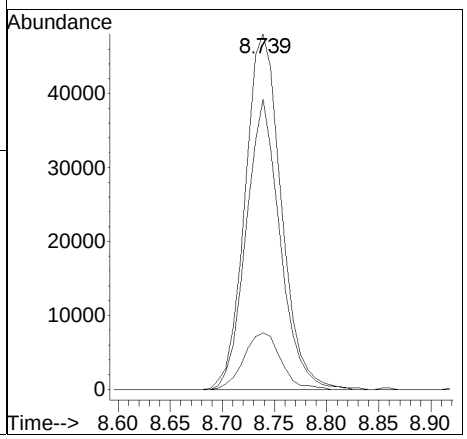


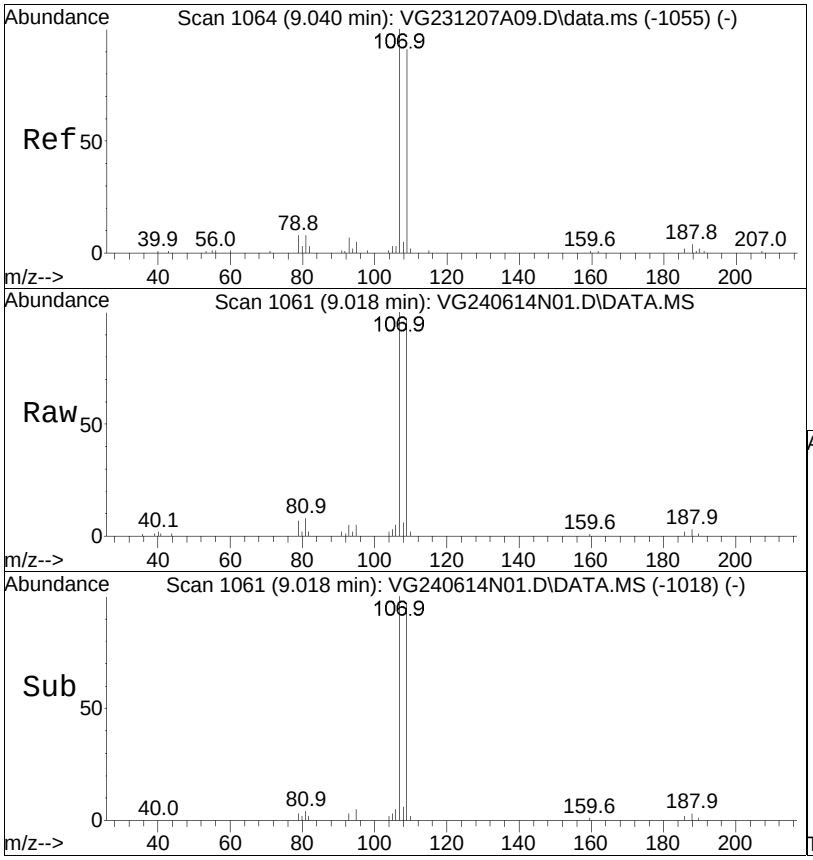


#69
Chlorodibromomethane
Concen: 8.82 ug/L
RT: 8.739 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:129 Resp: 115912

Ion	Ratio	Lower	Upper
129	100		
81	16.3	0.0	35.0
127	76.5	57.1	97.1

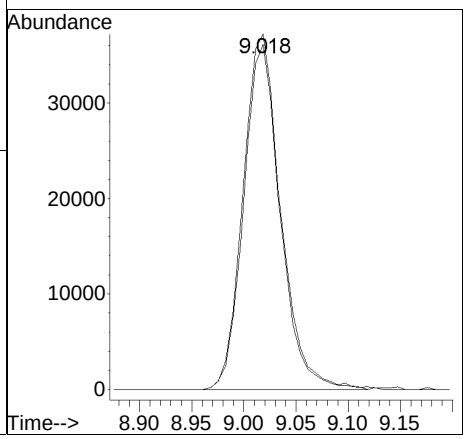


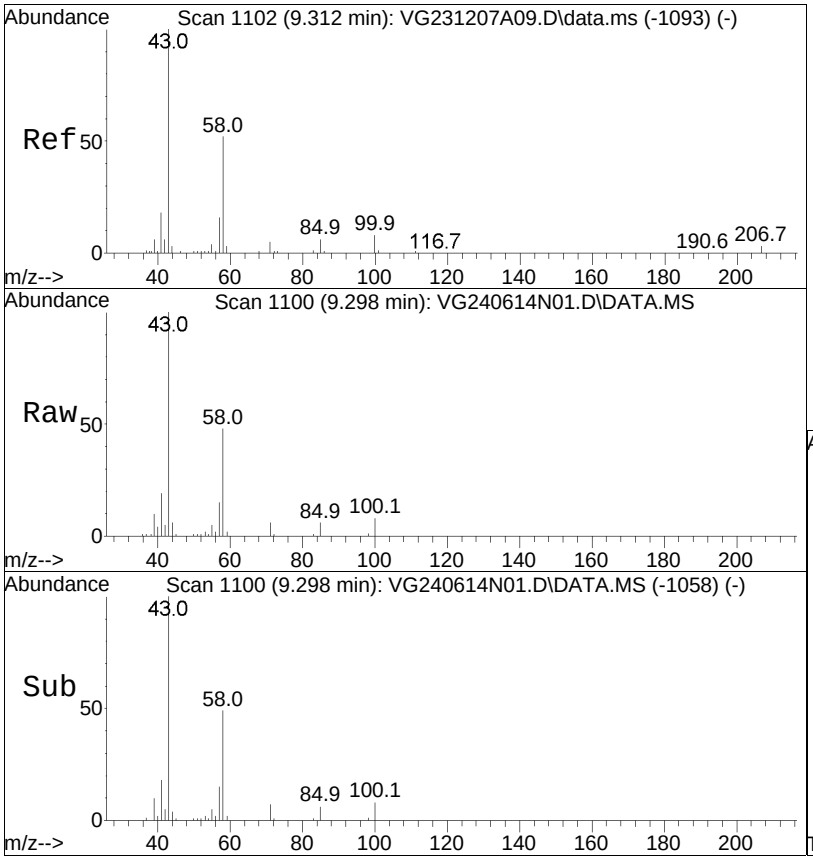


#71
1,2-Dibromoethane
Concen: 9.22 ug/L
RT: 9.018 min Scan# 1061
Delta R.T. 0.007 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:107 Resp: 93243

Ion	Ratio	Lower	Upper
107	100		
109	94.4	76.0	114.0

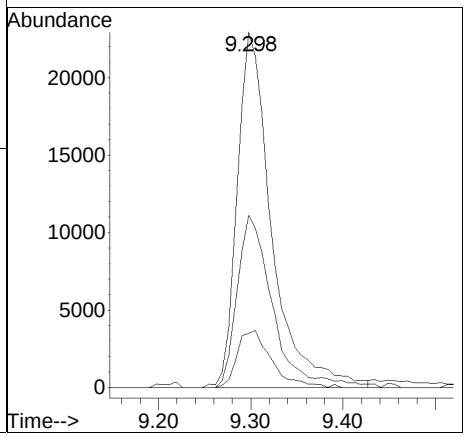


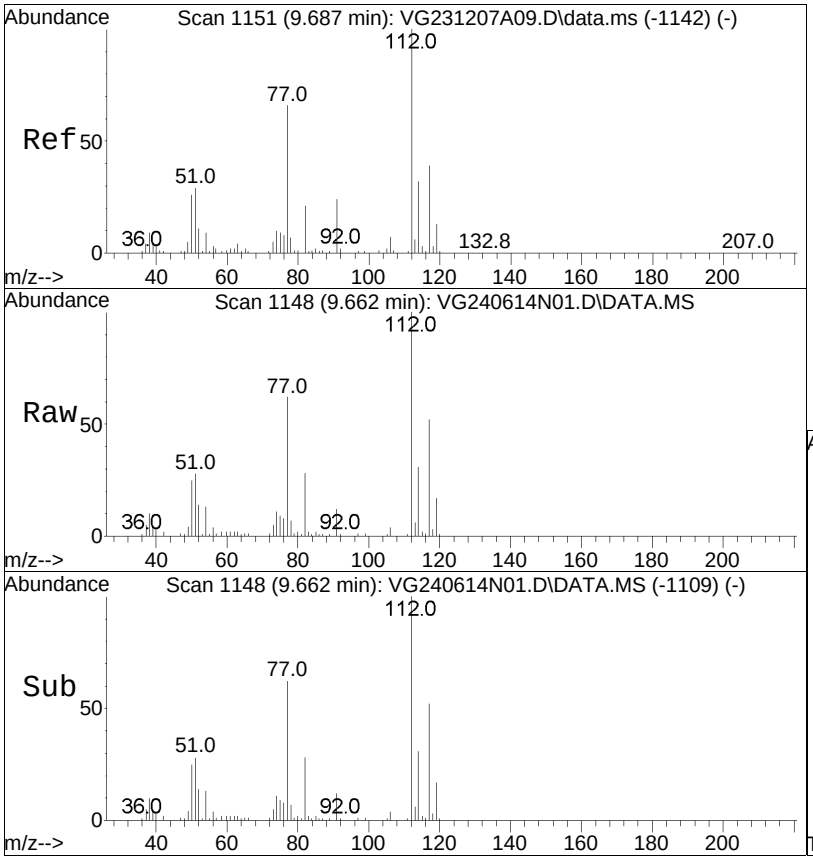


#72
2-Hexanone
Concen: 10.14 ug/L
RT: 9.298 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 43 Resp: 59683

Ion	Ratio	Lower	Upper
43	100		
58	49.7	43.8	65.6
57	15.8	15.2	22.8

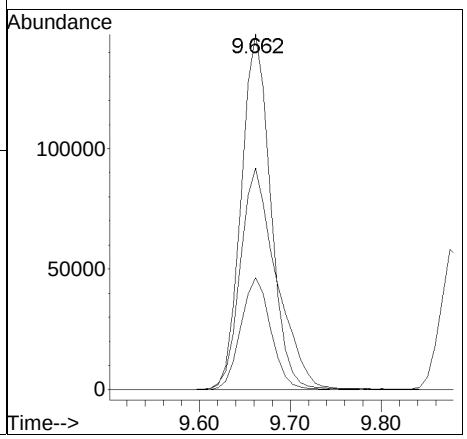


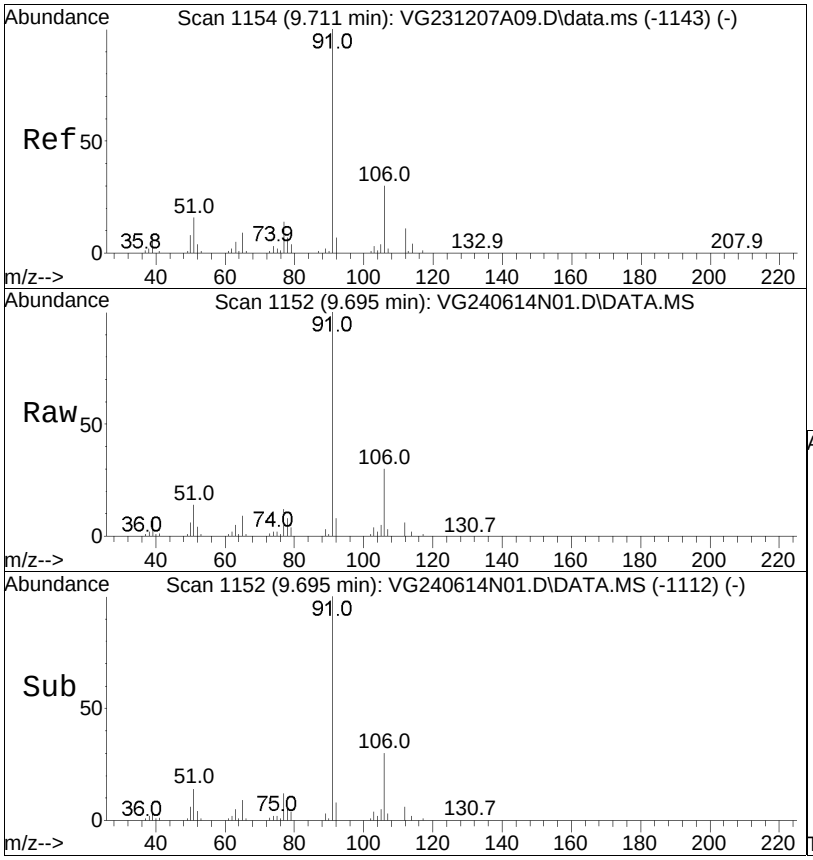


#73
Chlorobenzene
Concen: 9.31 ug/L
RT: 9.662 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:112 Resp: 331710

Ion	Ratio	Lower	Upper
112	100		
77	77.2	55.9	83.9
114	32.0	25.4	38.0

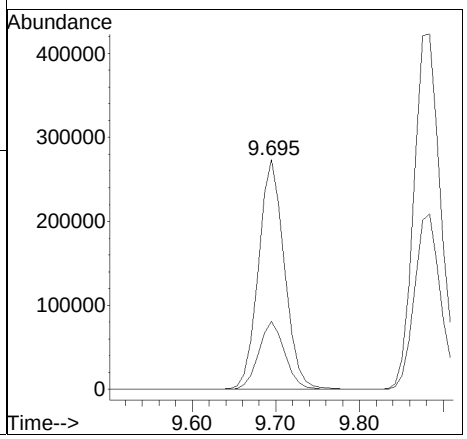


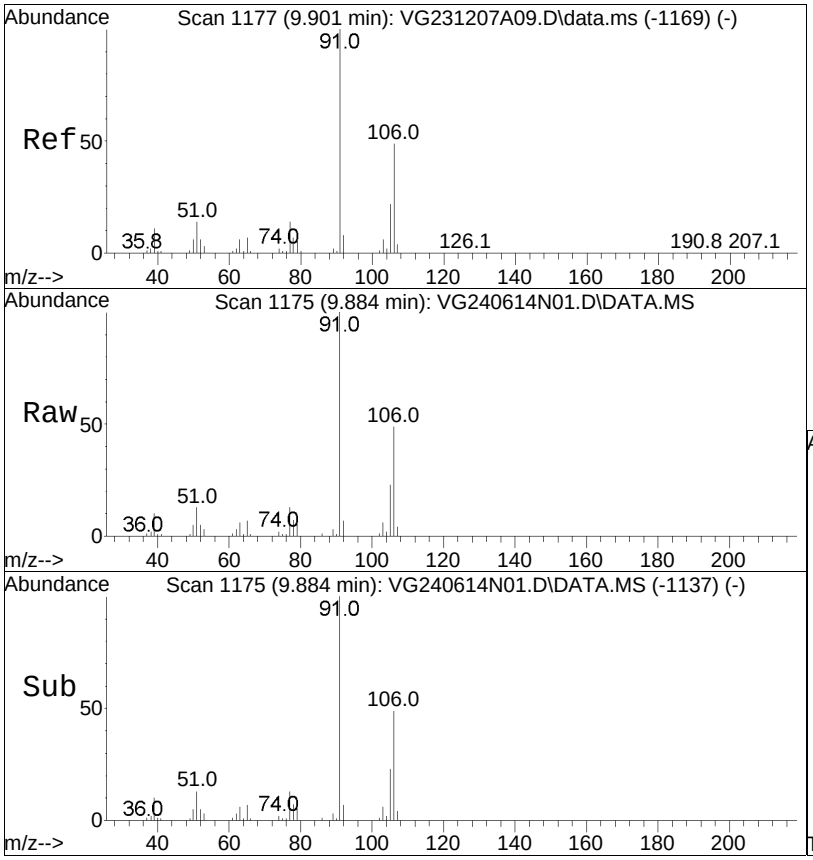


#74
Ethylbenzene
Concen: 9.63 ug/L
RT: 9.695 min Scan# 1152
Delta R.T. 0.009 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 91 Resp: 591225

Ion	Ratio	Lower	Upper
91	100		
106	29.7	25.3	37.9

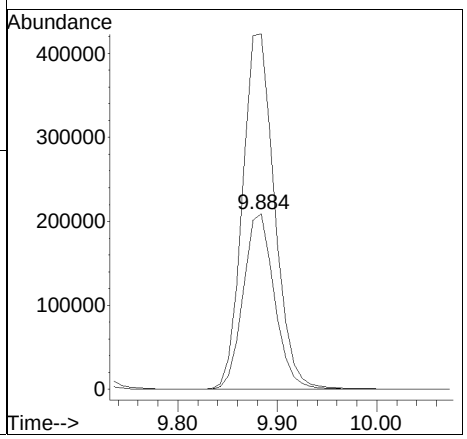


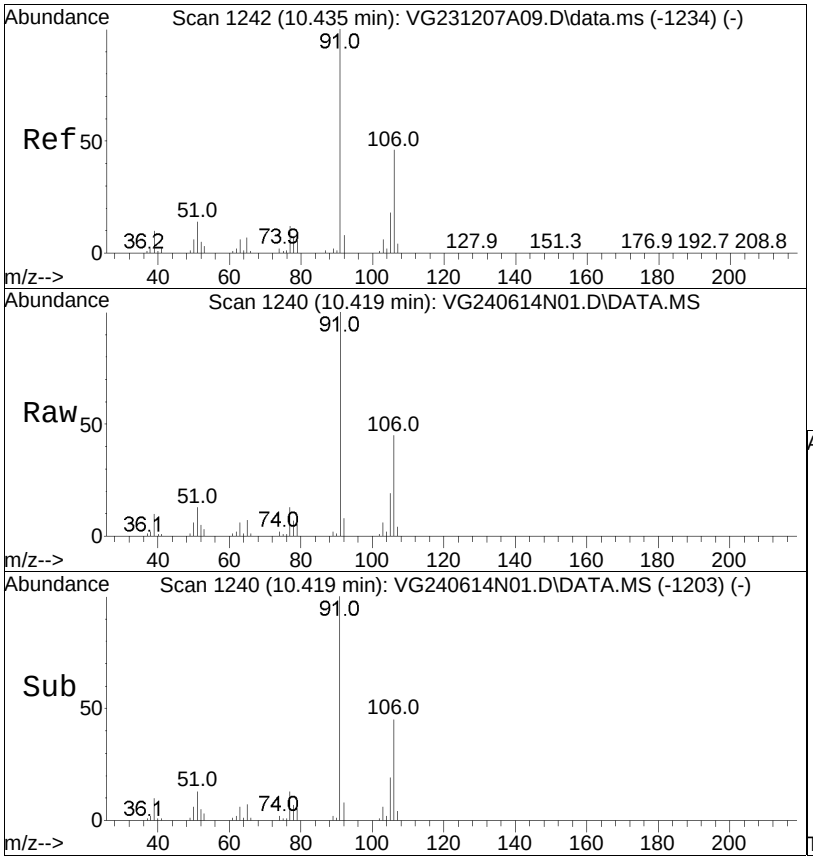


#76
p/m Xylene
Concen: 17.92 ug/L
RT: 9.884 min Scan# 1175
Delta R.T. 0.009 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:106 Resp: 457454

Ion	Ratio	Lower	Upper
106	100		
91	206.4	157.1	235.7

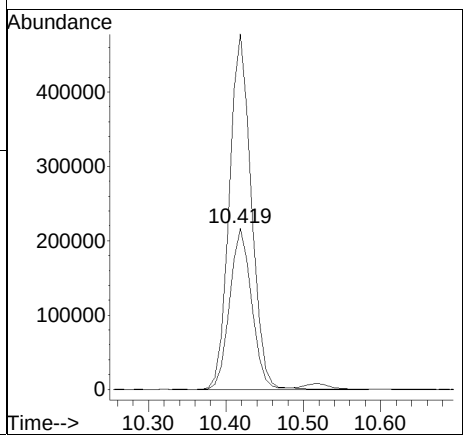


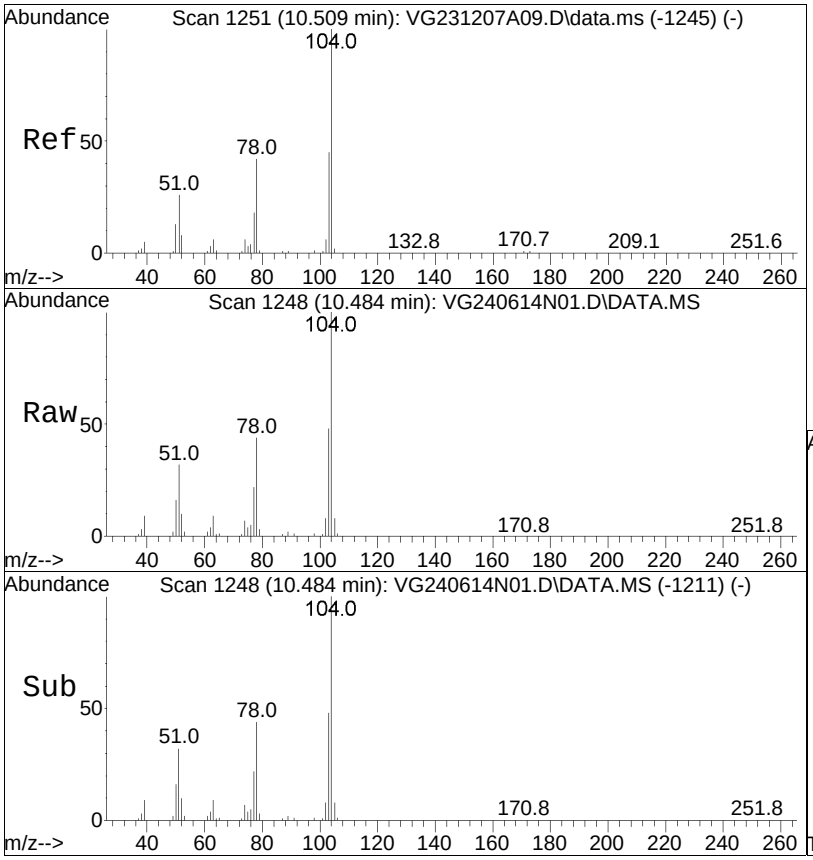


#77
o Xylene
Concen: 16.90 ug/L
RT: 10.419 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:106 Resp: 429823

Ion	Ratio	Lower	Upper
106	100		
91	218.9	164.7	247.1

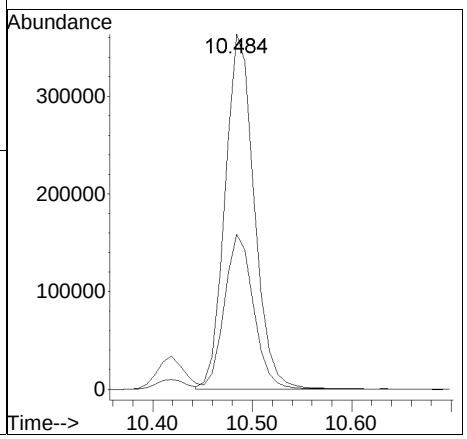


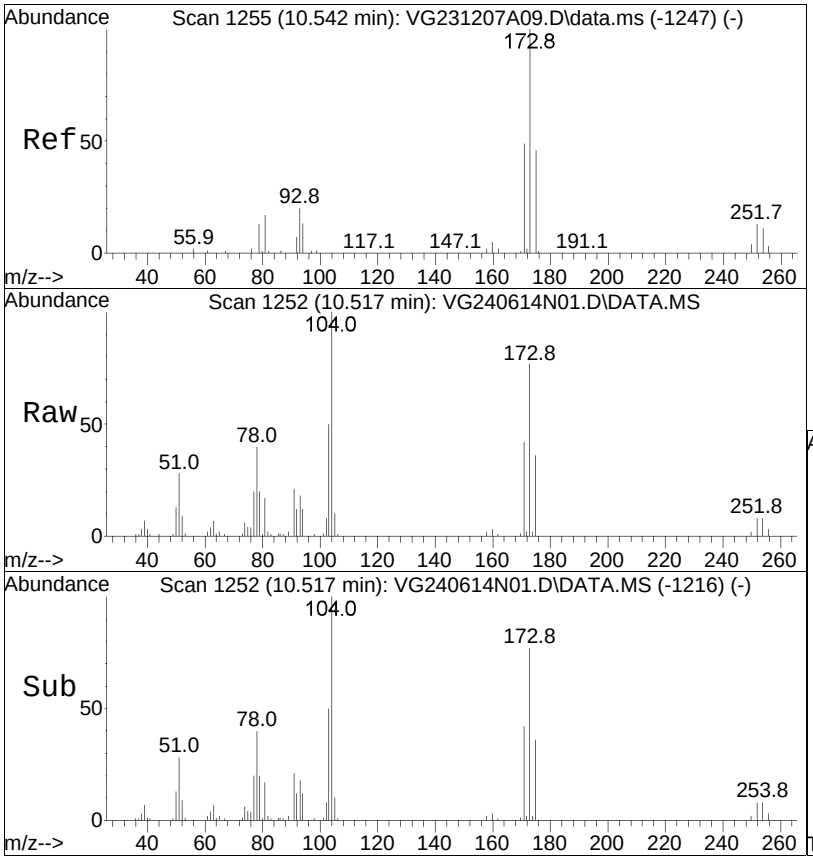


#78
Styrene
Concen: 18.28 ug/L
RT: 10.484 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:104 Resp: 739099

Ion	Ratio	Lower	Upper
104	100		
78	43.4	32.2	48.4

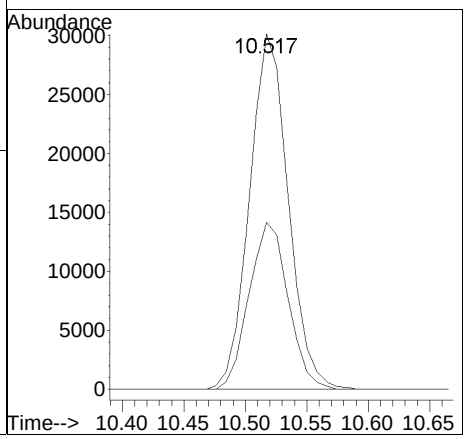


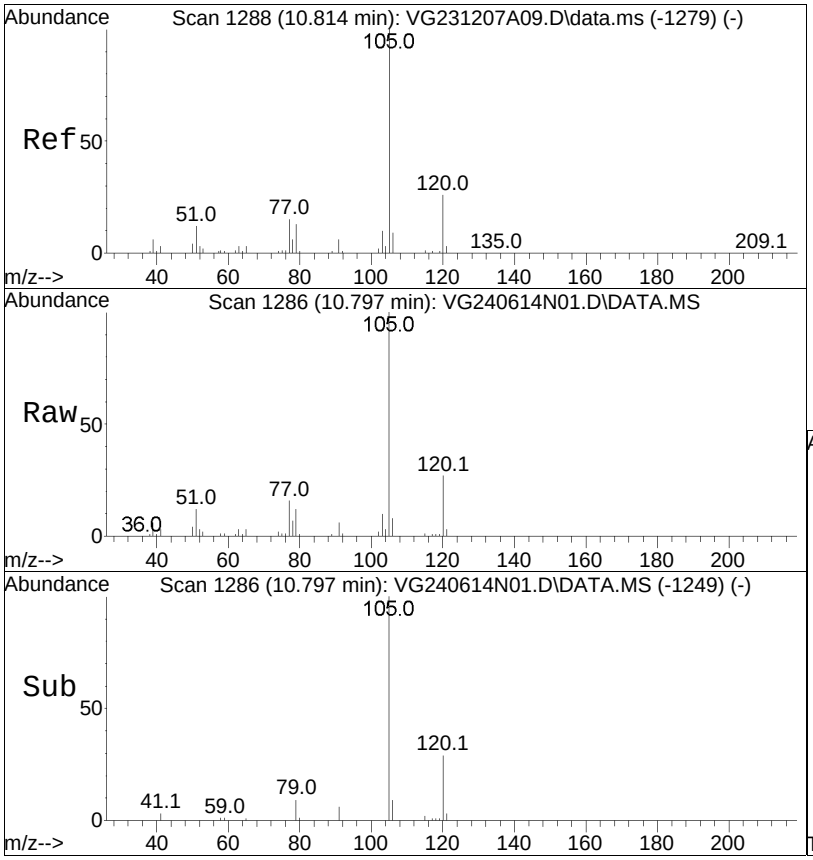


#80
Bromoform
Concen: 8.06 ug/L
RT: 10.517 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:173 Resp: 65943

Ion	Ratio	Lower	Upper
173	100		
175	47.5	28.0	68.0

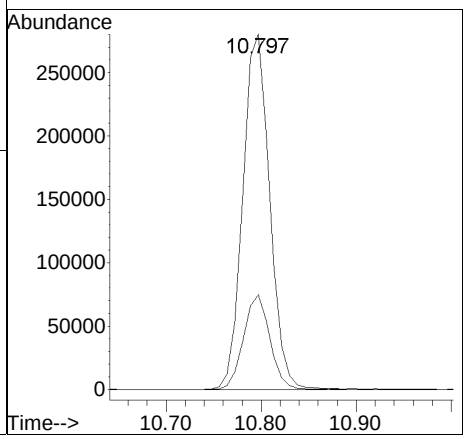


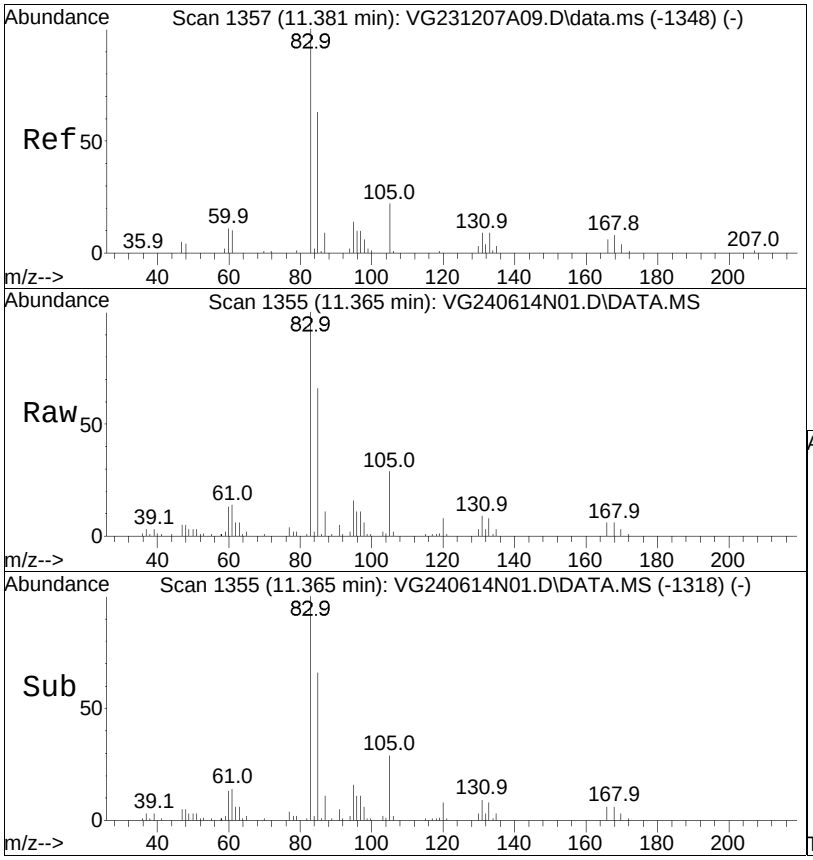


#82
Isopropylbenzene
Concen: 9.23 ug/L
RT: 10.797 min Scan# 1286
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:105 Resp: 551894

Ion	Ratio	Lower	Upper
105	100		
120	26.0	7.0	47.0

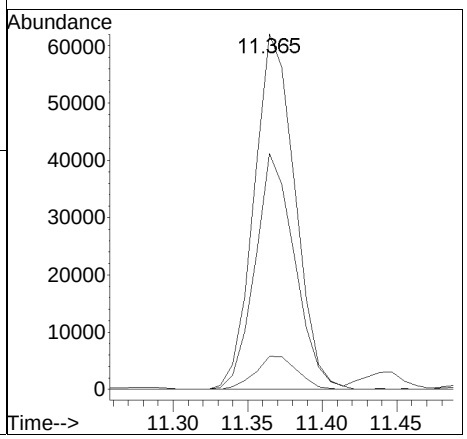


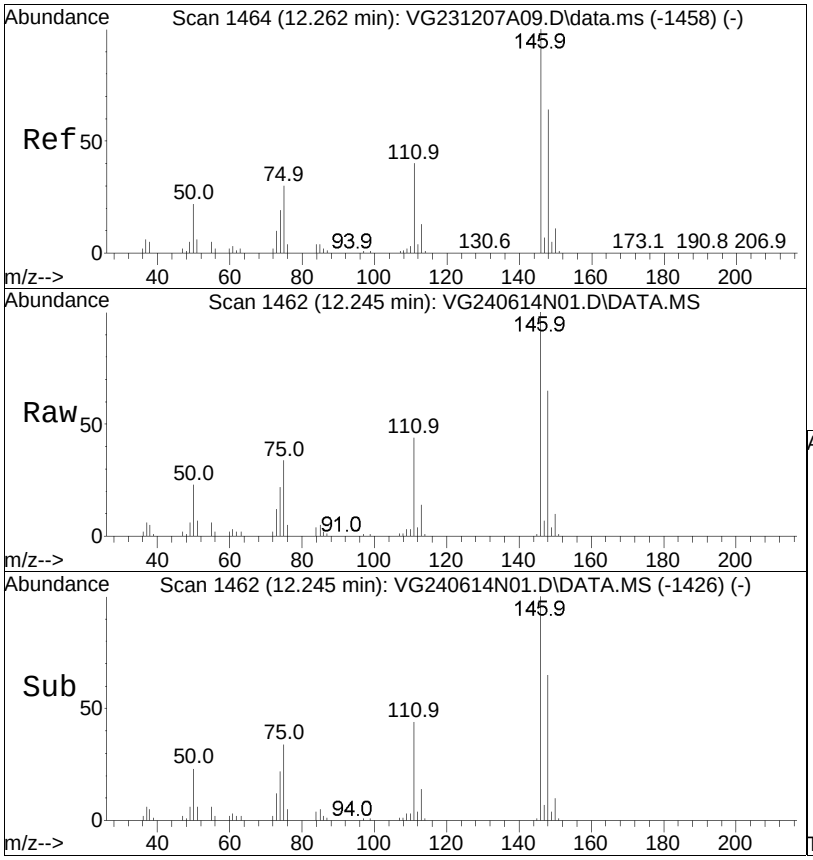


#87
1,1,2,2-Tetrachloroethane
Concen: 10.71 ug/L
RT: 11.365 min Scan# 1355
Delta R.T. 0.001 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion: 83 Resp: 118079

Ion	Ratio	Lower	Upper
83	100		
131	9.7	0.0	31.0
85	64.7	43.9	83.9

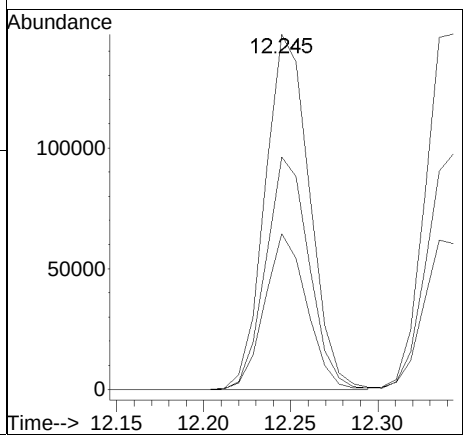


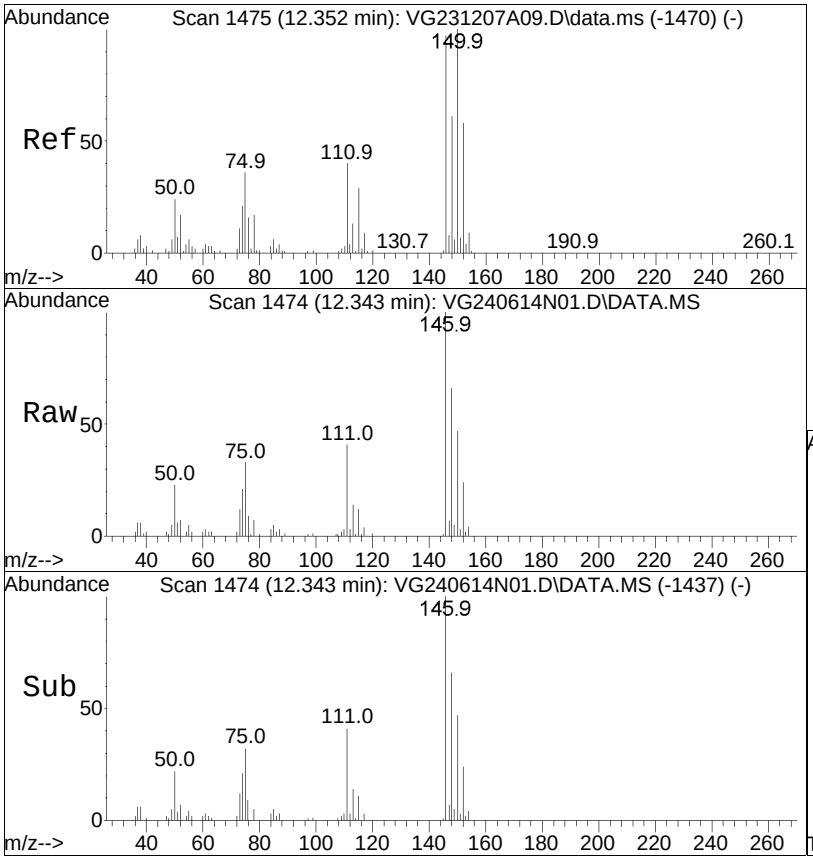


#100
1,3-Dichlorobenzene
Concen: 9.40 ug/L
RT: 12.245 min Scan# 1462
Delta R.T. -0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:146 Resp: 260839

Ion	Ratio	Lower	Upper
146	100		
111	41.6	24.4	50.6
148	63.8	41.0	85.2

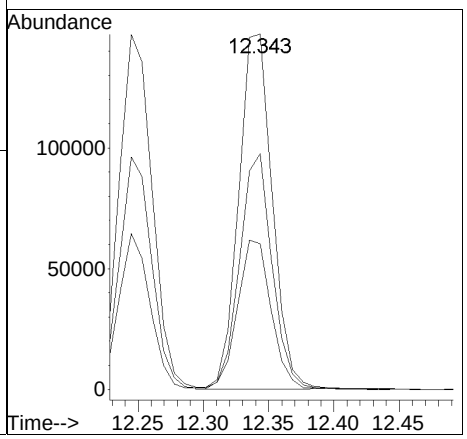


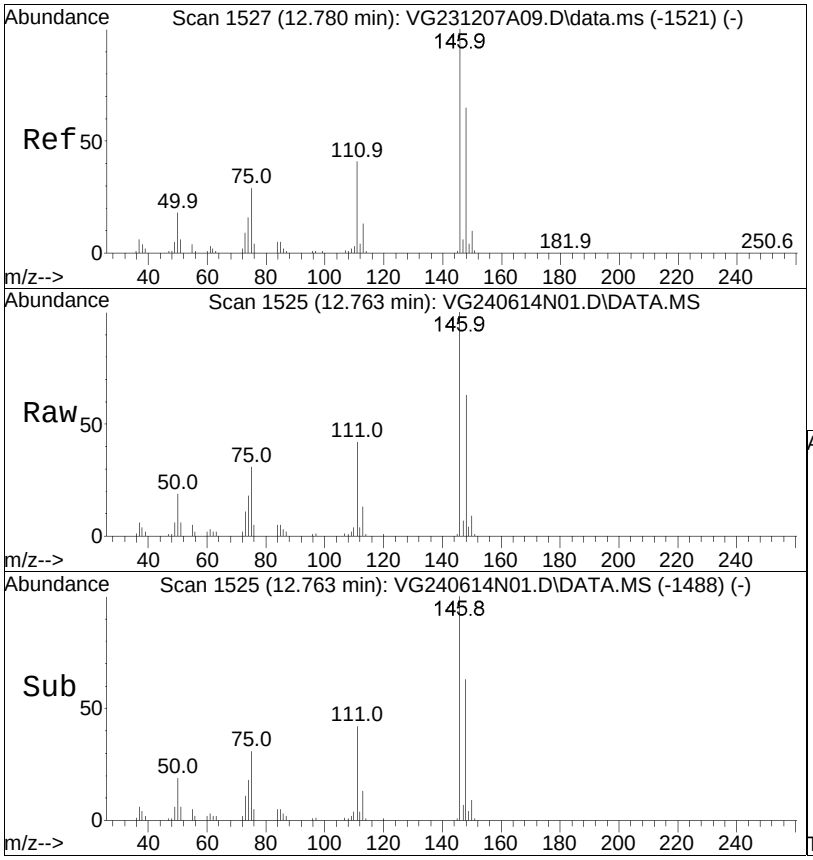


#101
1,4-Dichlorobenzene
Concen: 9.18 ug/L
RT: 12.343 min Scan# 1474
Delta R.T. 0.008 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:146 Resp: 263399

Ion	Ratio	Lower	Upper
146	100		
111	42.5	29.3	43.9
148	64.4	51.2	76.8

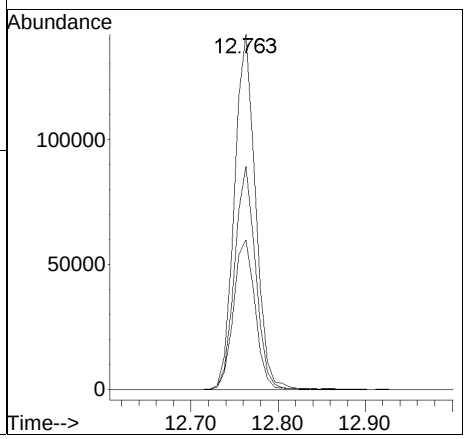


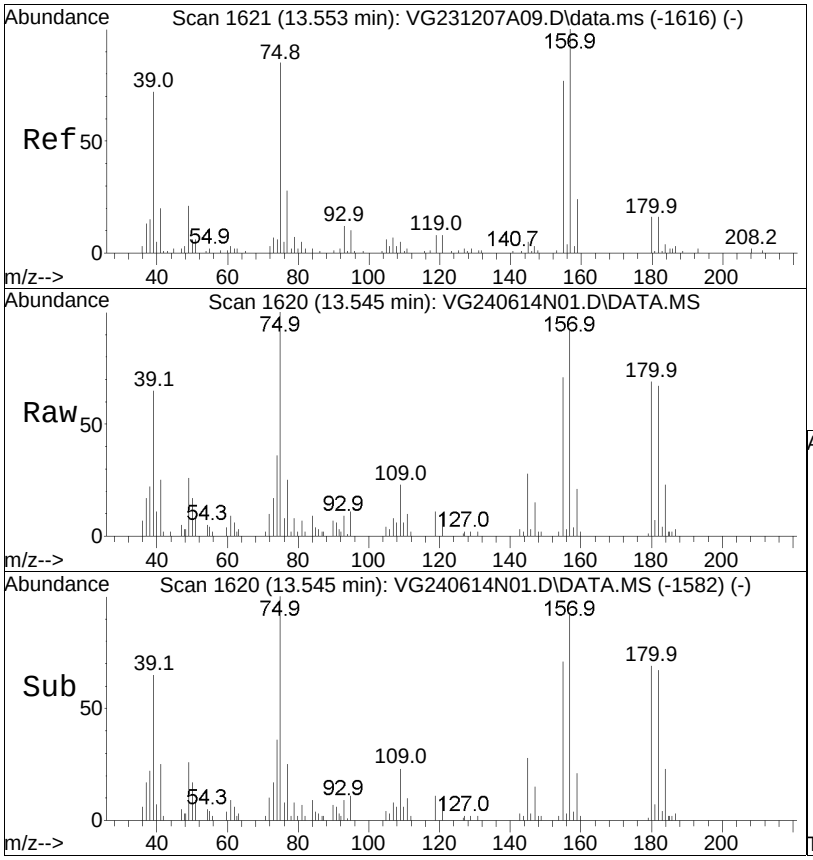


#104
1,2-Dichlorobenzene
Concen: 9.19 ug/L
RT: 12.763 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:146 Resp: 239529

Ion	Ratio	Lower	Upper
146	100		
111	43.2	25.4	52.8
148	62.4	41.7	86.5

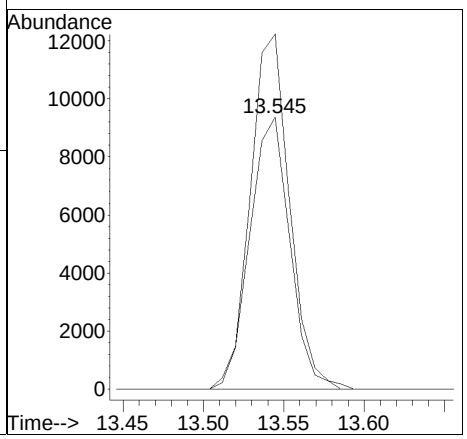


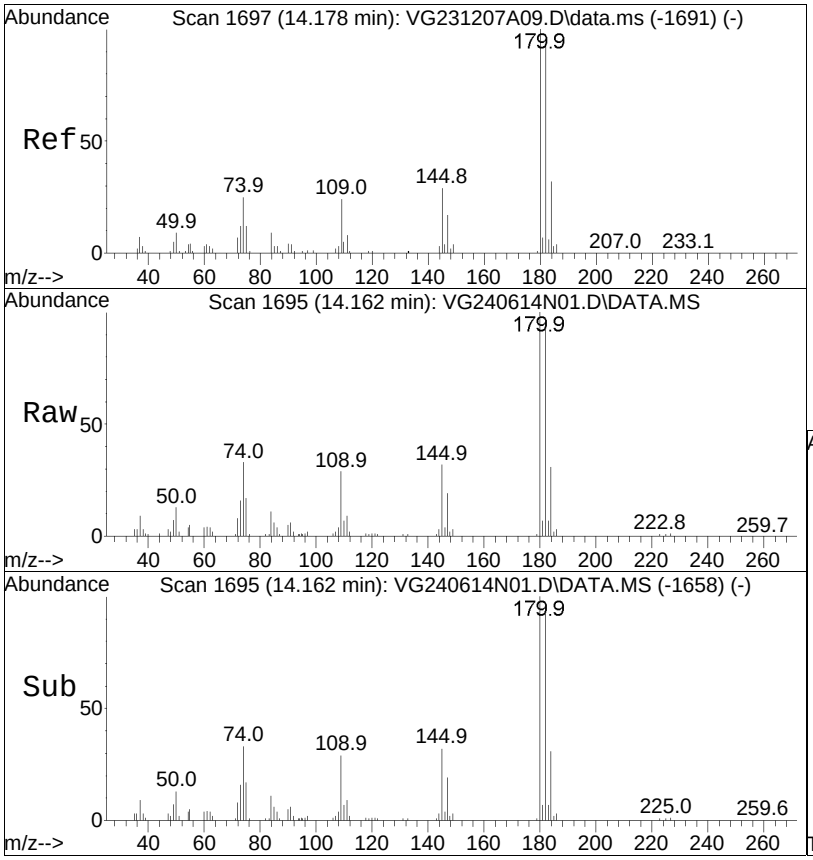


#106
1,2-Dibromo-3-chloropropane
Concen: 8.26 ug/L
RT: 13.545 min Scan# 1620
Delta R.T. 0.009 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:155 Resp: 16322

Ion	Ratio	Lower	Upper
155	100		
157	127.3	99.9	149.9

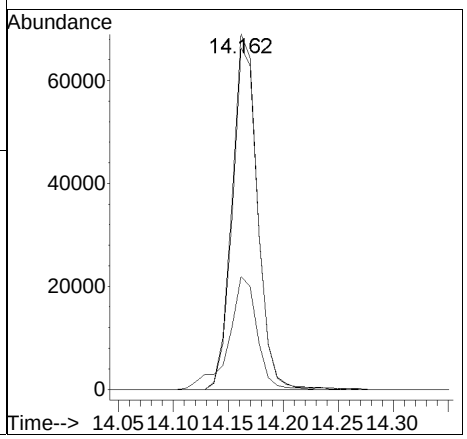


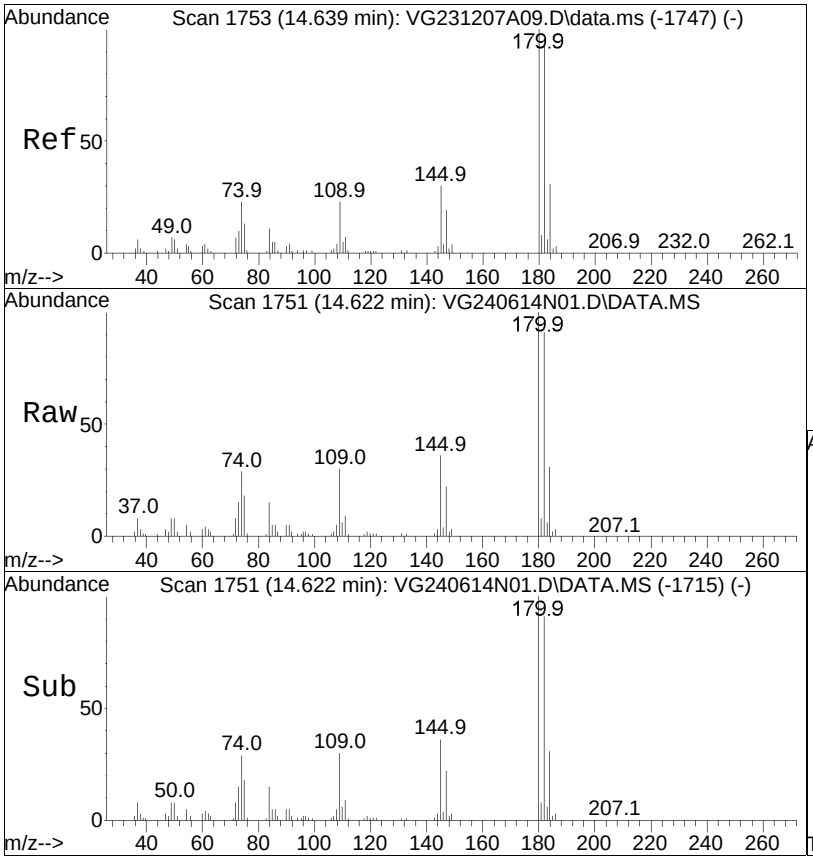


#109
1,2,4-Trichlorobenzene
Concen: 8.13 ug/L
RT: 14.162 min Scan# 1695
Delta R.T. 0.001 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:180 Resp: 111059

Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.7	115.1
145	35.1	26.5	39.7

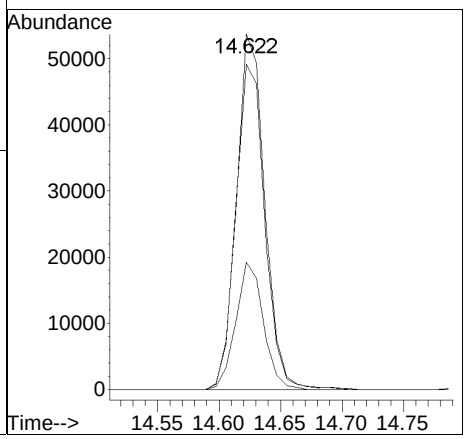




#111
1,2,3-Trichlorobenzene
Concen: 7.66 ug/L
RT: 14.622 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VG240614N01.D
Acq: 14 Jun 2024 6:16 pm

Tgt Ion:180 Resp: 86064

Ion	Ratio	Lower	Upper
180	100		
182	93.8	77.0	115.4
145	34.7	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N02.D
Acq On : 14 Jun 2024 6:40 pm
Operator : GONZO:LAC
Sample : WG1935361-4,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 19:08:25 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	602590	10.000	ug/L	0.00
Standard Area 1 = 638207			Recovery = 94.42%			
59) Chlorobenzene-d5	9.637	117	433579	10.000	ug/L	0.00
Standard Area 1 = 463801			Recovery = 93.48%			
79) 1,4-Dichlorobenzene-d4	12.327	152	234823	10.000	ug/L	0.00
Standard Area 1 = 250819			Recovery = 93.62%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	147250	9.542	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.42%			
43) 1,2-Dichloroethane-d4	5.813	65	194889	10.526	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.26%			
60) Toluene-d8	7.786	98	568012	10.647	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.47%			
83) 4-Bromofluorobenzene	11.126	95	208909	11.063	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	115180	7.528	ug/L	98
3) Chloromethane	1.885	50	143672	9.531	ug/L	99
4) Vinyl chloride	1.946	62	141317	9.303	ug/L	99
5) Bromomethane	2.265	94	27198	1.932	ug/L	99
6) Chloroethane	2.364	64	66333	6.317	ug/L	97
7) Trichlorofluoromethane	2.515	101	186227	8.867	ug/L	99
10) 1,1-Dichloroethene	3.024	96	102405	9.618	ug/L #	72
11) Carbon disulfide	3.055	76	335934	9.960	ug/L	99
12) Freon-113	3.055	101	110914	9.159	ug/L #	66
15) Methylene chloride	3.587	84	129325	9.973	ug/L #	69
17) Acetone	3.632	43	35060	10.506	ug/L	95
18) trans-1,2-Dichloroethene	3.739	96	114027	9.470	ug/L	77
19) Methyl acetate	3.739	43	77188	11.172	ug/L #	91
20) Methyl tert-butyl ether	3.822	73	298345	9.472	ug/L #	84
23) 1,1-Dichloroethane	4.324	63	262676	10.966	ug/L	97
28) cis-1,2-Dichloroethene	4.848	96	131317	9.380	ug/L #	83
30) Bromochloromethane	5.045	128	56897	9.002	ug/L #	64
31) Cyclohexane	5.030	56	246949	10.398	ug/L	68
32) Chloroform	5.106	83	227850	9.850	ug/L	96
34) Carbon tetrachloride	5.235	117	173320	9.617	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N02.D
Acq On : 14 Jun 2024 6:40 pm
Operator : GONZO:LAC
Sample : WG1935361-4,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 19:08:25 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240614N\VG240614N01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.304	97	196763	9.925	ug/L		93
39) 2-Butanone	5.410	43	47736	10.837	ug/L	#	75
41) Benzene	5.676	78	529725	10.394	ug/L	#	92
44) 1,2-Dichloroethane	5.889	62	185771	10.112	ug/L		98
47) Methyl cyclohexane	6.253	83	170825	8.732	ug/L	#	60
48) Trichloroethene	6.276	95	132030	8.619	ug/L		95
51) 1,2-Dichloropropane	6.823	63	145178	11.058	ug/L		95
54) Bromodichloromethane	6.899	83	175798	9.775	ug/L		100
58) cis-1,3-Dichloropropene	7.586	75	193418	9.778	ug/L		91
61) Toluene	7.851	92	314269	10.661	ug/L		98
62) 4-Methyl-2-pentanone	8.288	58	37910	11.494	ug/L	#	88
63) Tetrachloroethene	8.295	166	114818	9.994	ug/L		94
65) trans-1,3-Dichloropropene	8.338	75	170939	10.713	ug/L		98
68) 1,1,2-Trichloroethane	8.524	83	86559	10.463	ug/L		98
69) Chlorodibromomethane	8.739	129	119578	9.734	ug/L		97
71) 1,2-Dibromoethane	9.011	107	97384	10.304	ug/L		100
72) 2-Hexanone	9.298	43	66973	12.167	ug/L		94
73) Chlorobenzene	9.662	112	335540	10.079	ug/L		94
74) Ethylbenzene	9.695	91	585178	10.195	ug/L		98
76) p/m Xylene	9.876	106	450683	18.844	ug/L		93
77) o Xylene	10.418	106	431331	18.086	ug/L		91
78) Styrene	10.484	104	739454	19.494	ug/L		95
80) Bromoform	10.517	173	68150	8.896	ug/L		100
82) Isopropylbenzene	10.797	105	543755	9.693	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.365	83	134324	13.011	ug/L		99
100) 1,3-Dichlorobenzene	12.245	146	258177	9.937	ug/L		97
101) 1,4-Dichlorobenzene	12.343	146	265064	9.866	ug/L		97
104) 1,2-Dichlorobenzene	12.763	146	240826	9.871	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.536	155	17370	9.388	ug/L		95
109) 1,2,4-Trichlorobenzene	14.161	180	118129	9.235	ug/L		97
111) 1,2,3-Trichlorobenzene	14.622	180	96923	9.215	ug/L		98

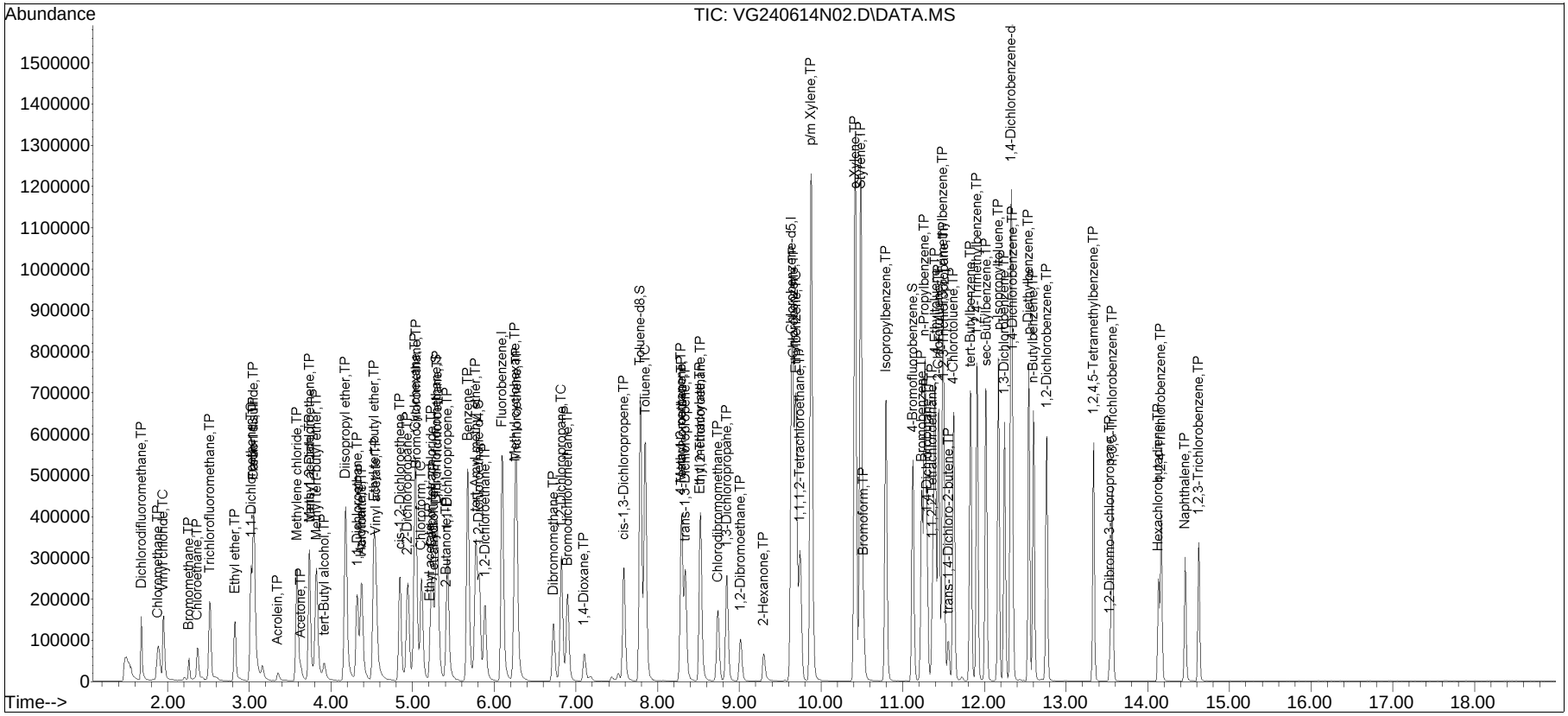
(#) = qualifier out of range (m) = manual integration (+) = signals summed

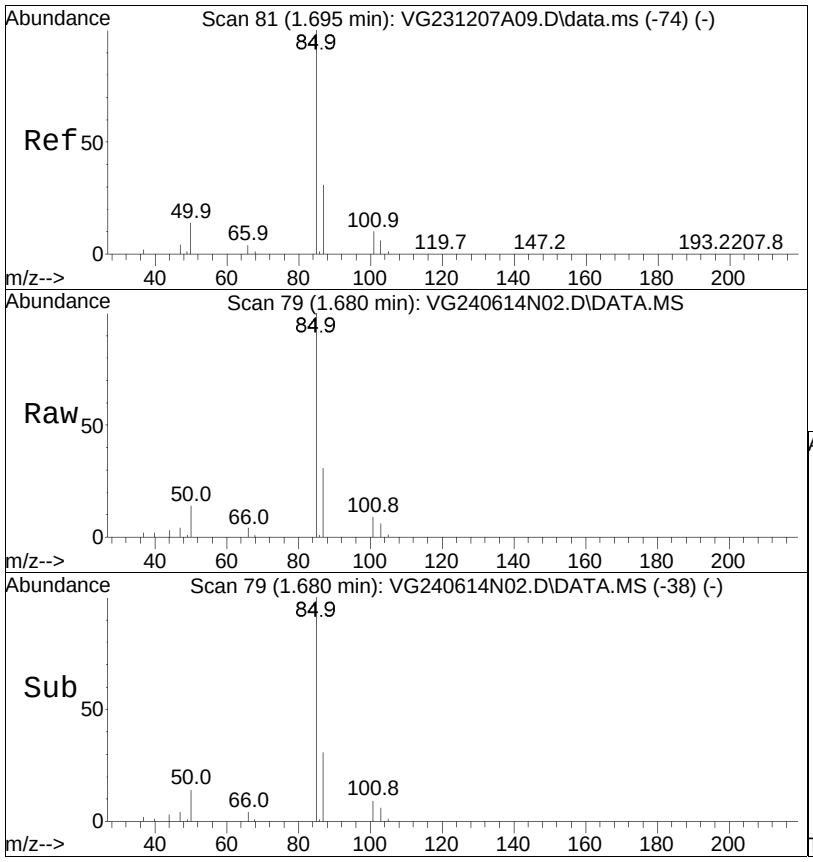
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240614N\
Data File : VG240614N02.D
Acq On : 14 Jun 2024 6:40 pm
Operator : GONZO:LAC
Sample : WG1935361-4,31,10,10
Misc : WG1935361,ICAL21111
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 19:08:25 2024
Quant Method : K:\Gonzo\2024\240614N\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

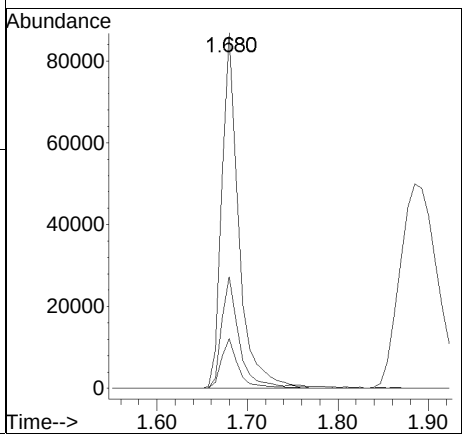


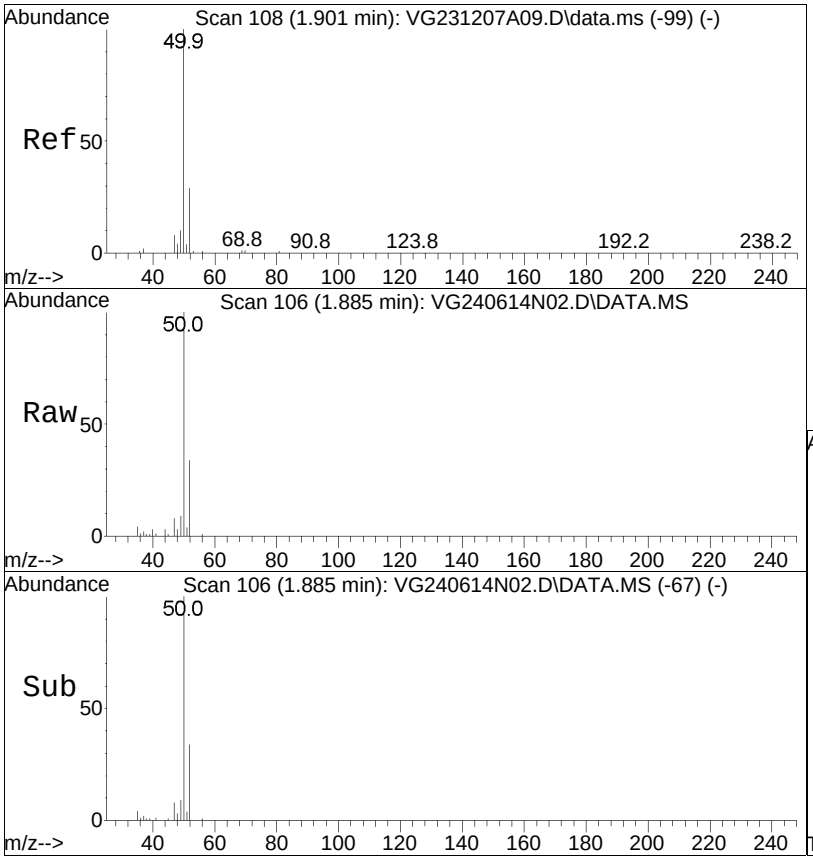


#2
Dichlorodifluoromethane
Concen: 7.53 ug/L
RT: 1.680 min Scan# 79
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 85 Resp: 115180

Ion	Ratio	Lower	Upper
85	100		
87	32.2	20.7	42.9
50	14.0	7.5	15.5

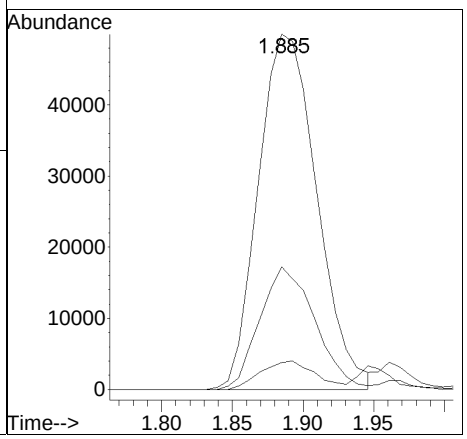


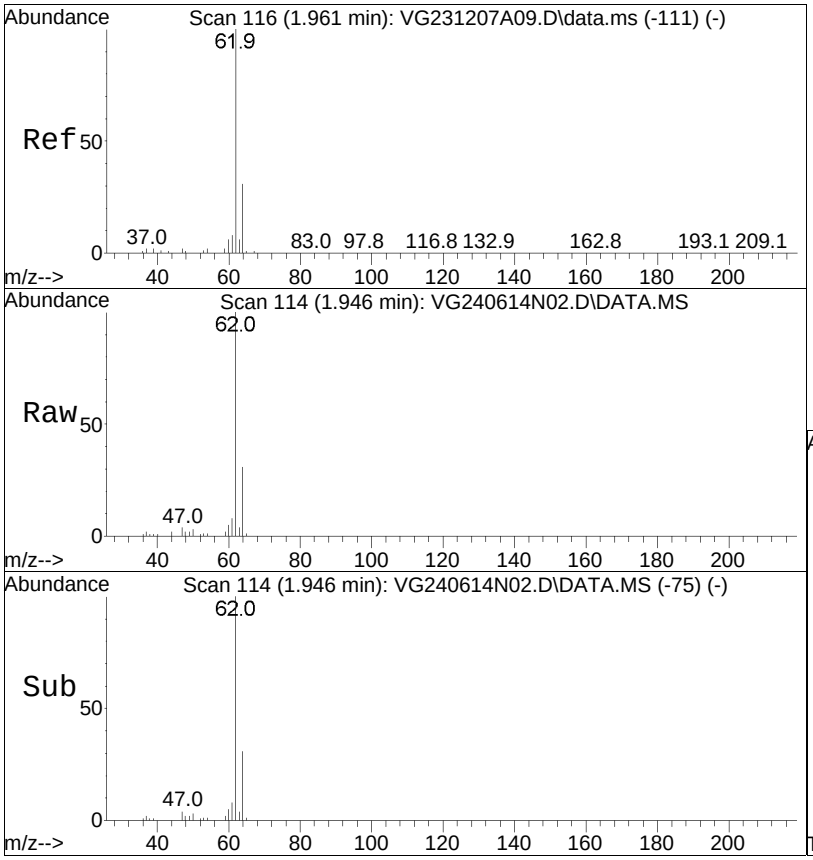


#3
Chloromethane
Concen: 9.53 ug/L
RT: 1.885 min Scan# 106
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 50 Resp: 143672

Ion	Ratio	Lower	Upper
50	100		
52	32.5	11.7	51.7
47	7.6	0.0	28.0

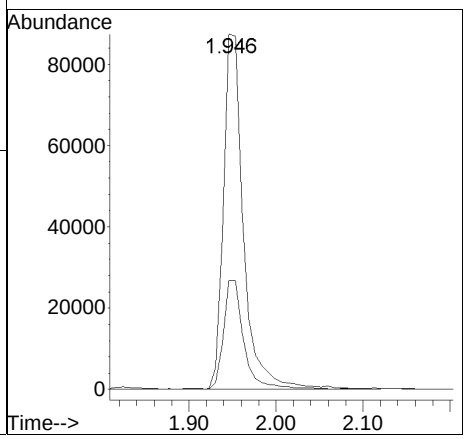


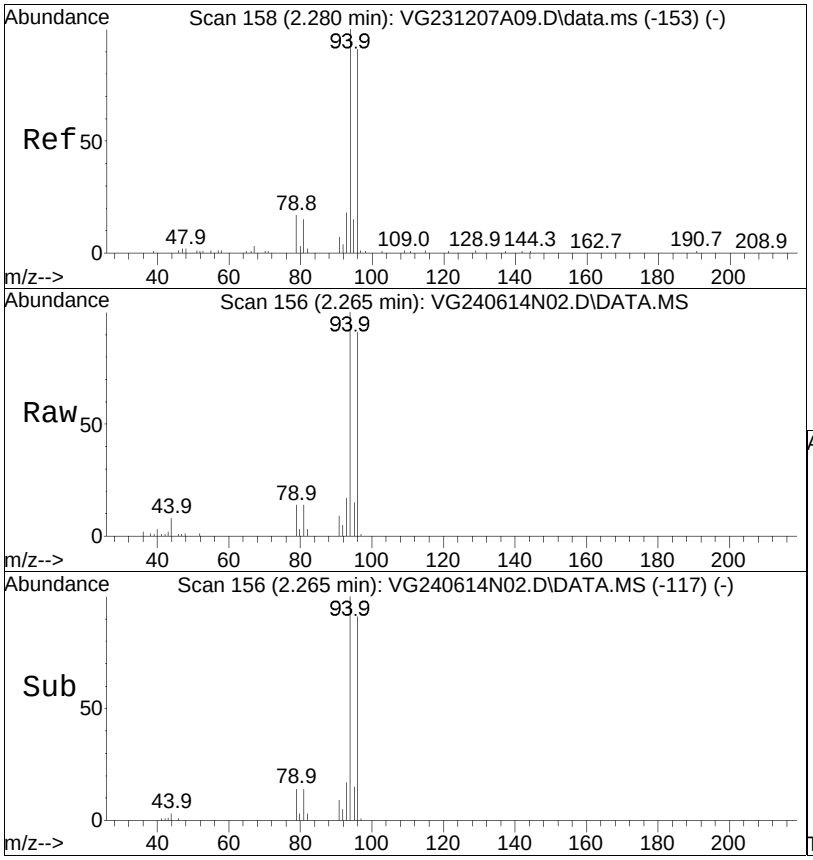


#4
Vinyl chloride
Concen: 9.30 ug/L
RT: 1.946 min Scan# 114
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 62 Resp: 141317

Ion	Ratio	Lower	Upper
62	100		
64	31.0	11.3	51.3

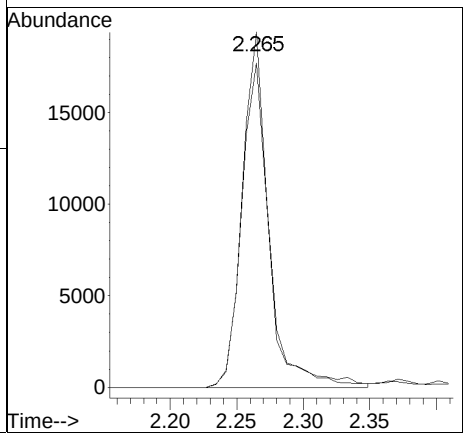


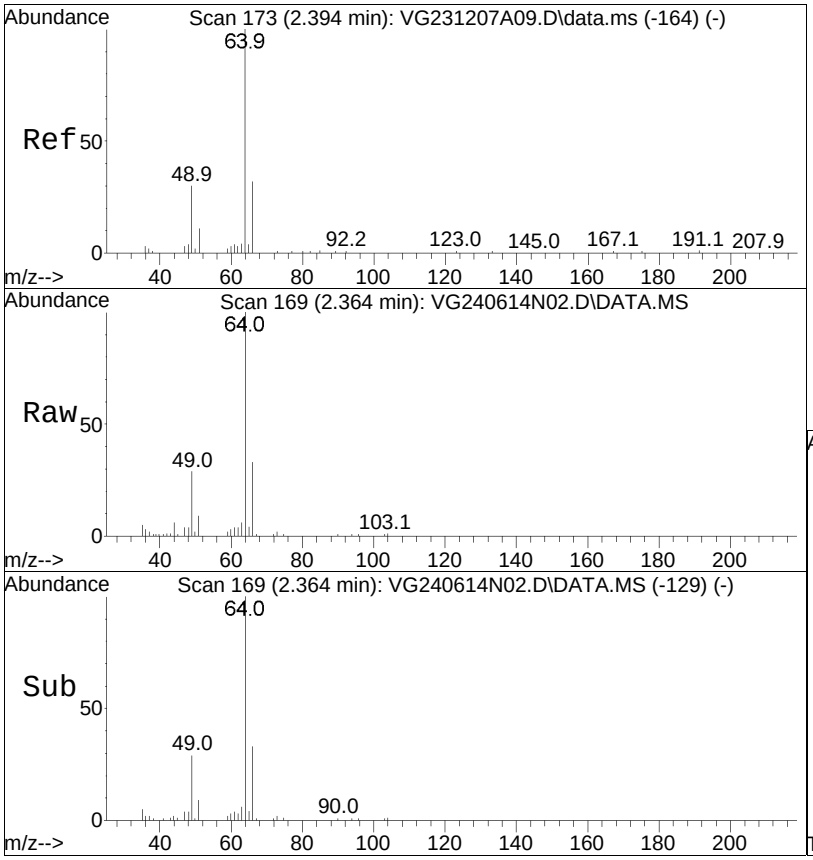


#5
Bromomethane
Concen: 1.93 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 94 Resp: 27198

Ion	Ratio	Lower	Upper
94	100		
96	93.8	75.2	115.2

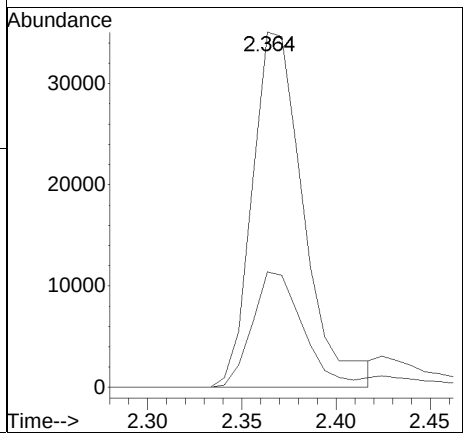


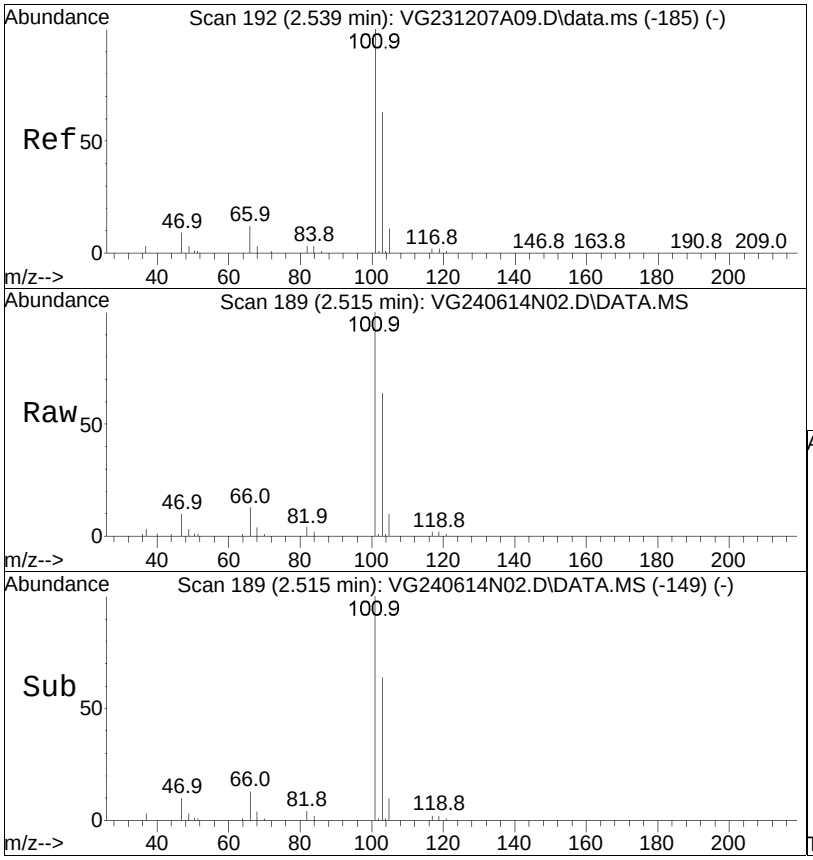


#6
Chloroethane
Concen: 6.32 ug/L
RT: 2.364 min Scan# 169
Delta R.T. 0.001 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 64 Resp: 66333

Ion	Ratio	Lower	Upper
64	100		
66	32.0	13.7	53.7

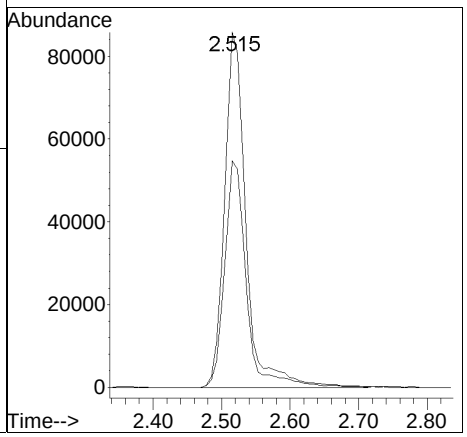


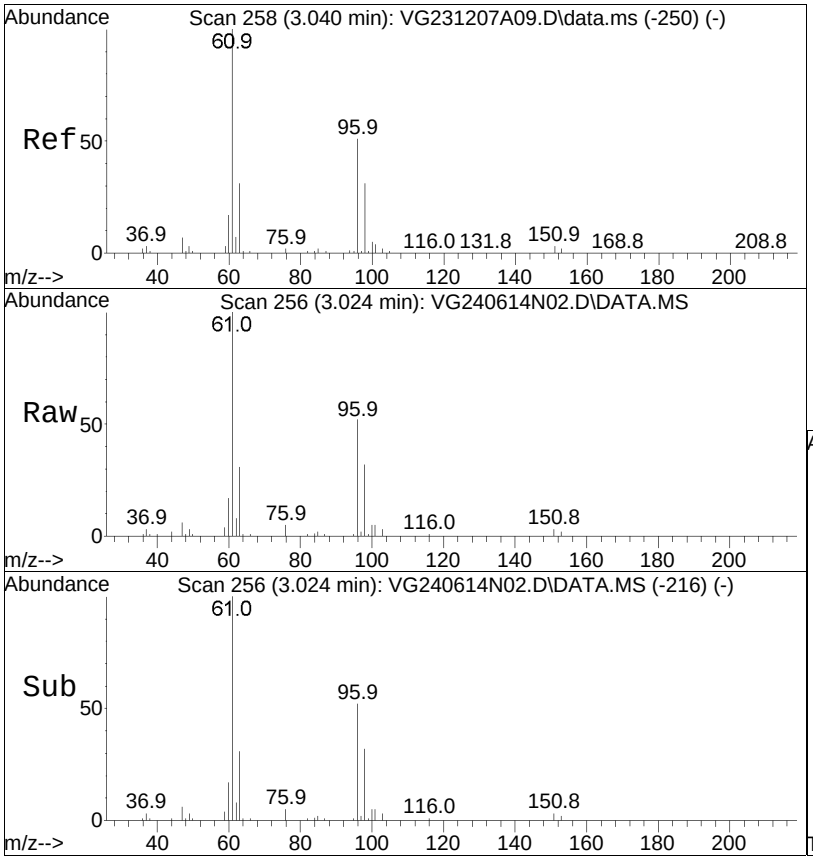


#7
Trichlorofluoromethane
Concen: 8.87 ug/L
RT: 2.515 min Scan# 189
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:101 Resp: 186227

Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.2	78.2

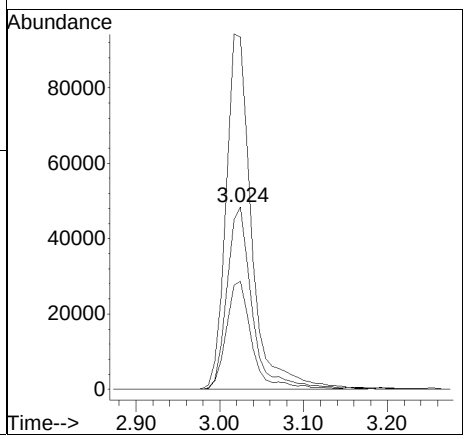


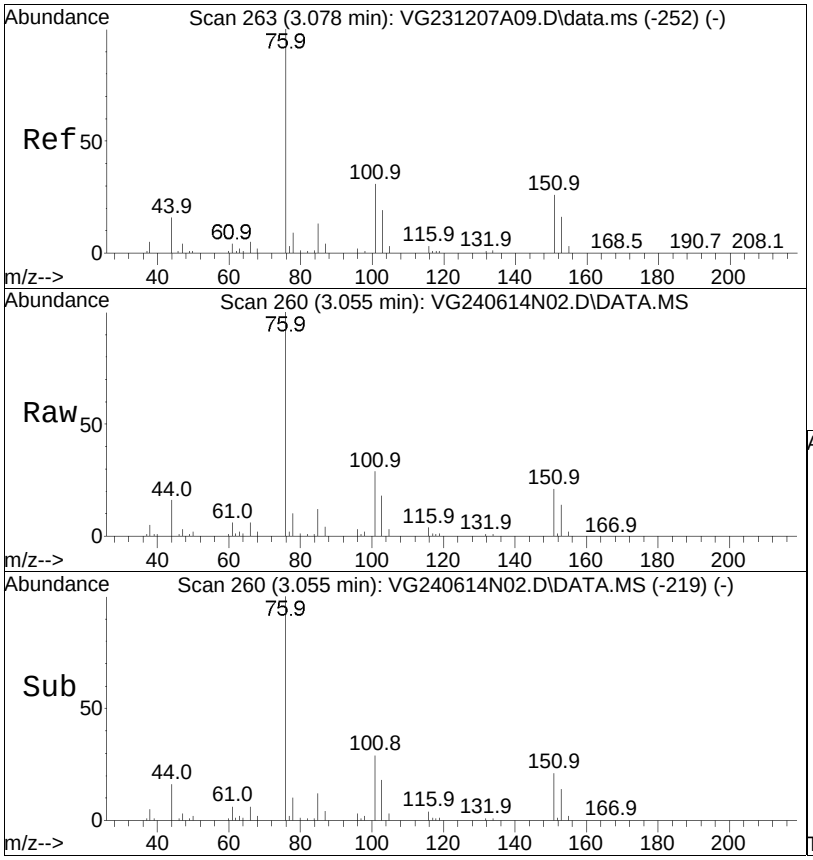


#10
1,1-Dichloroethene
Concen: 9.62 ug/L
RT: 3.024 min Scan# 256
Delta R.T. 0.007 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 96 Resp: 102405

Ion	Ratio	Lower	Upper
96	100		
61	197.4	124.2	186.4#
63	60.1	40.0	60.0#

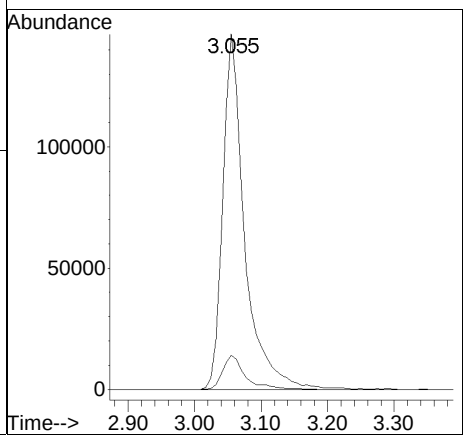


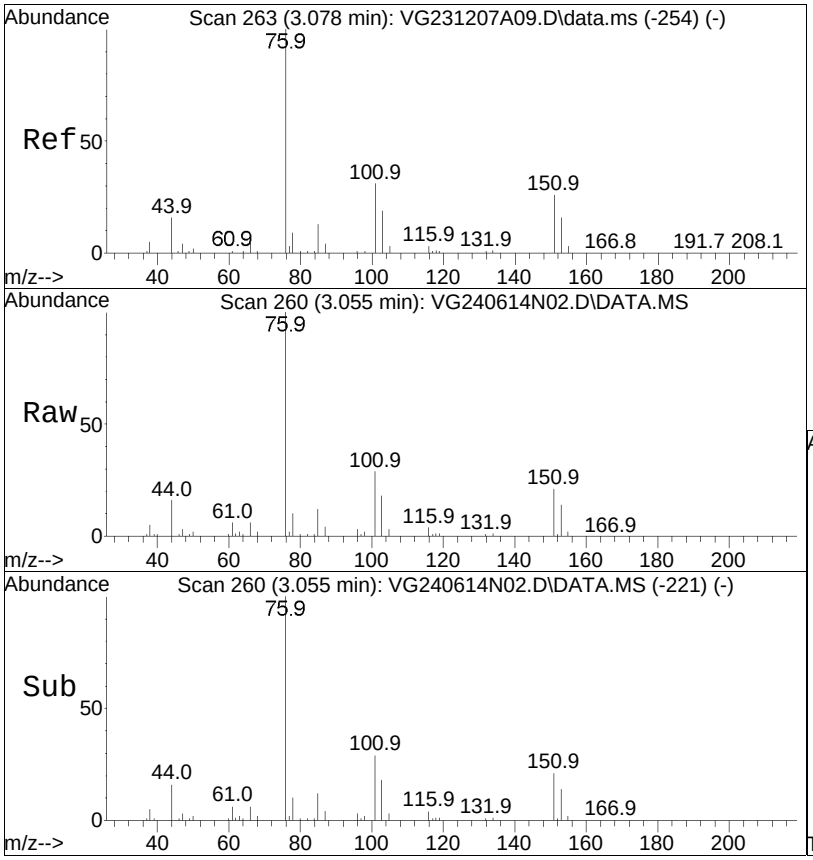


#11
Carbon disulfide
Concen: 9.96 ug/L
RT: 3.055 min Scan# 260
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 76 Resp: 335934

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.6	13.6

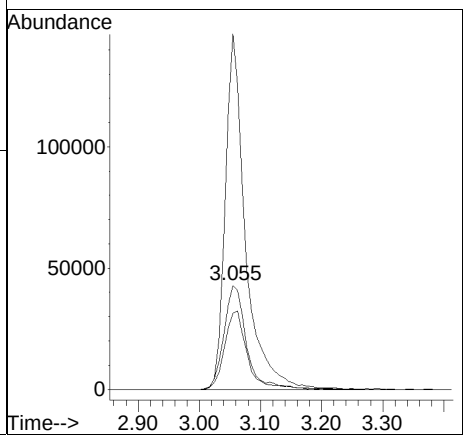


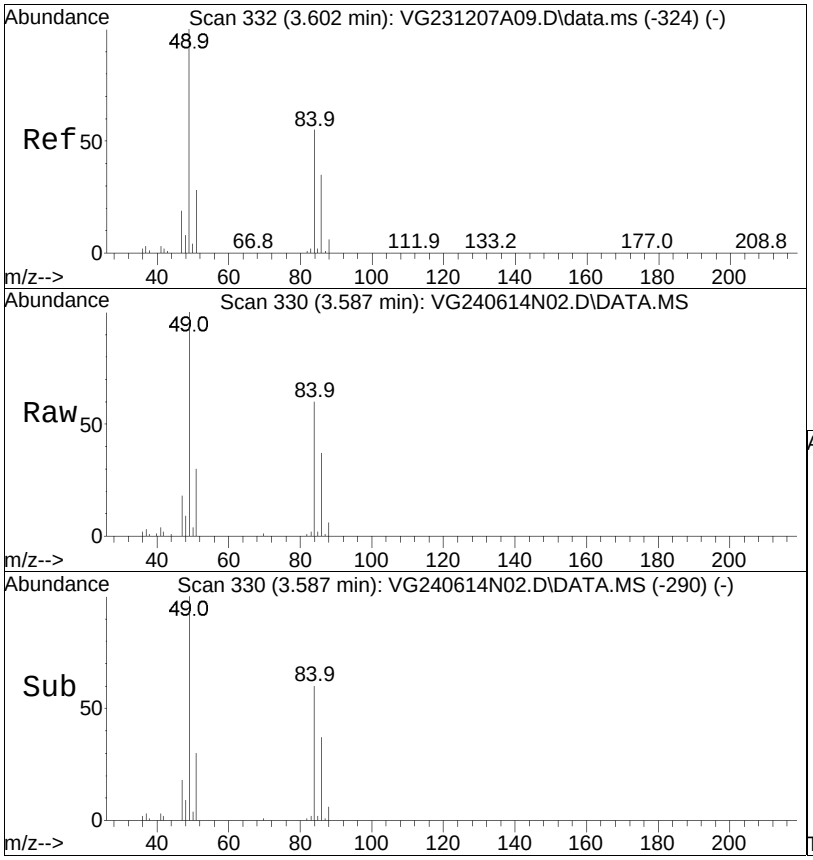


#12
Freon-113
Concen: 9.16 ug/L
RT: 3.055 min Scan# 260
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:101 Resp: 110914

Ion	Ratio	Lower	Upper
101	100		
151	75.4	68.2	102.2
76	302.9	186.0	279.0#

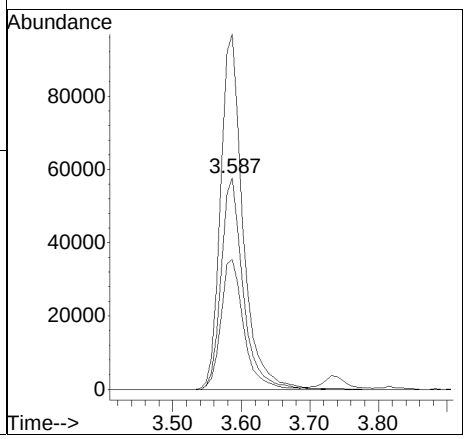


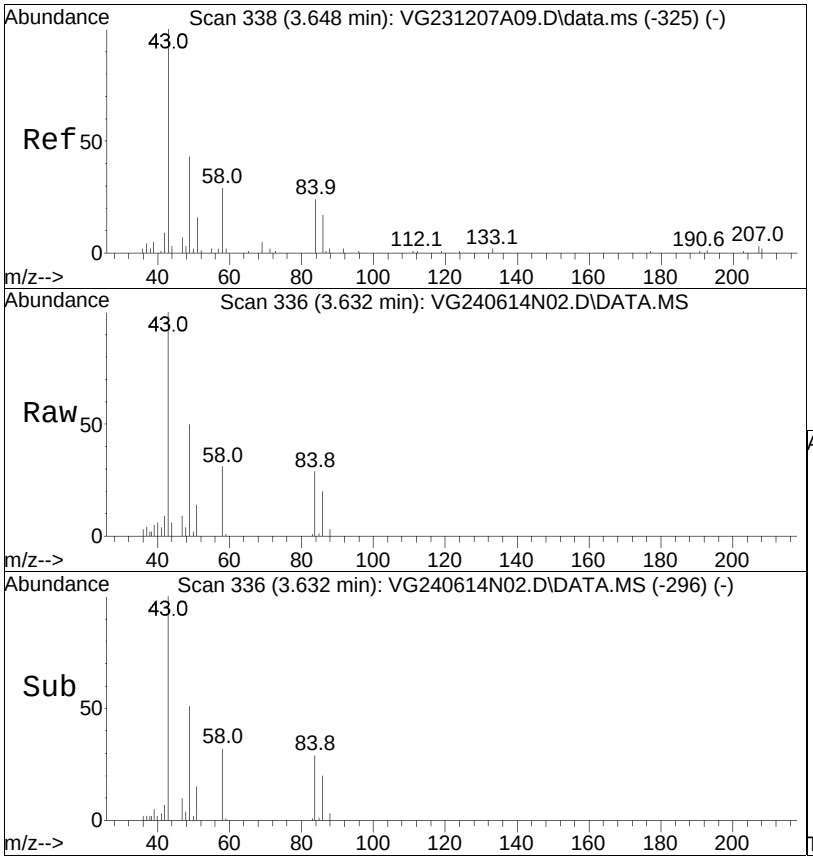


#15
Methylene chloride
Concen: 9.97 ug/L
RT: 3.587 min Scan# 330
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 84 Resp: 129325

Ion	Ratio	Lower	Upper
84	100		
86	63.7	41.1	85.5
49	169.1	76.2	158.2#

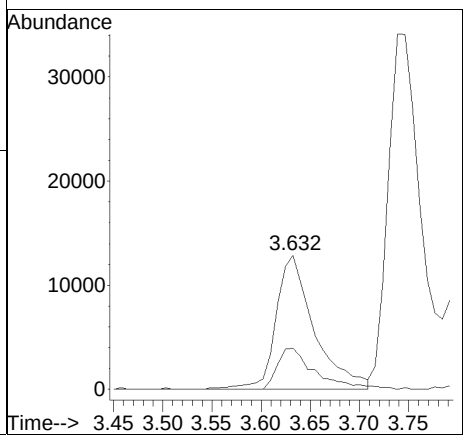


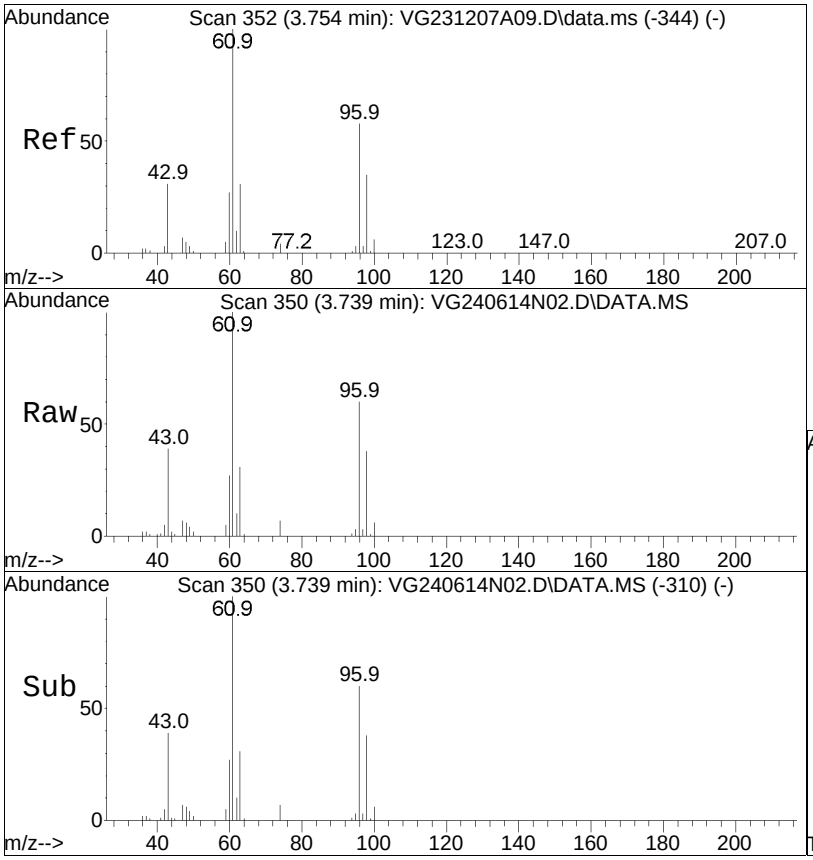


#17
Acetone
Concen: 10.51 ug/L
RT: 3.632 min Scan# 336
Delta R.T. 0.007 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 43 Resp: 35060

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.2	33.4

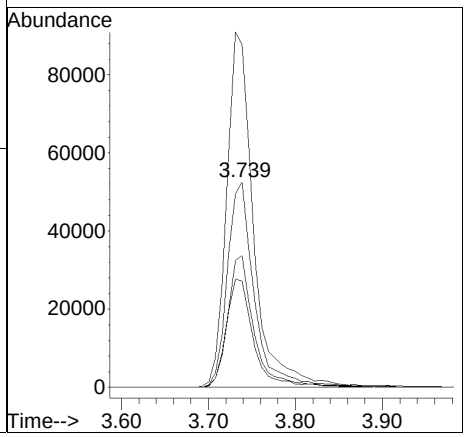


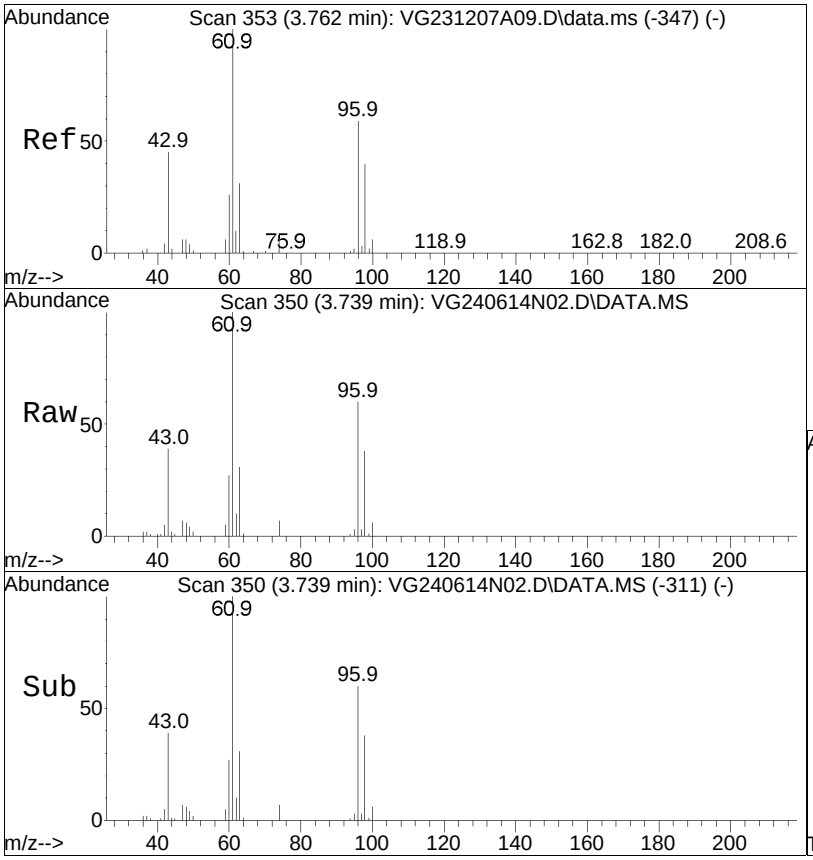


#18
trans-1,2-Dichloroethene
Concen: 9.47 ug/L
RT: 3.739 min Scan# 350
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 96 Resp: 114027

Ion	Ratio	Lower	Upper
96	100		
61	173.8	85.7	178.1
98	63.2	40.2	83.4
63	53.2	28.0	58.2

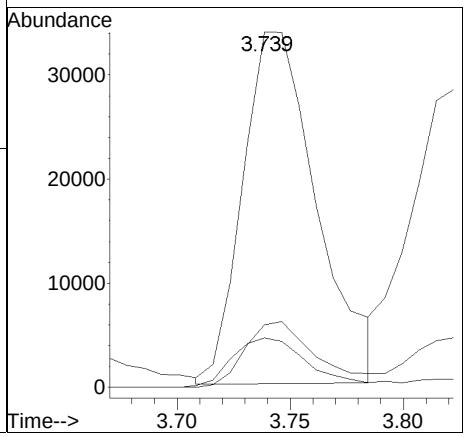


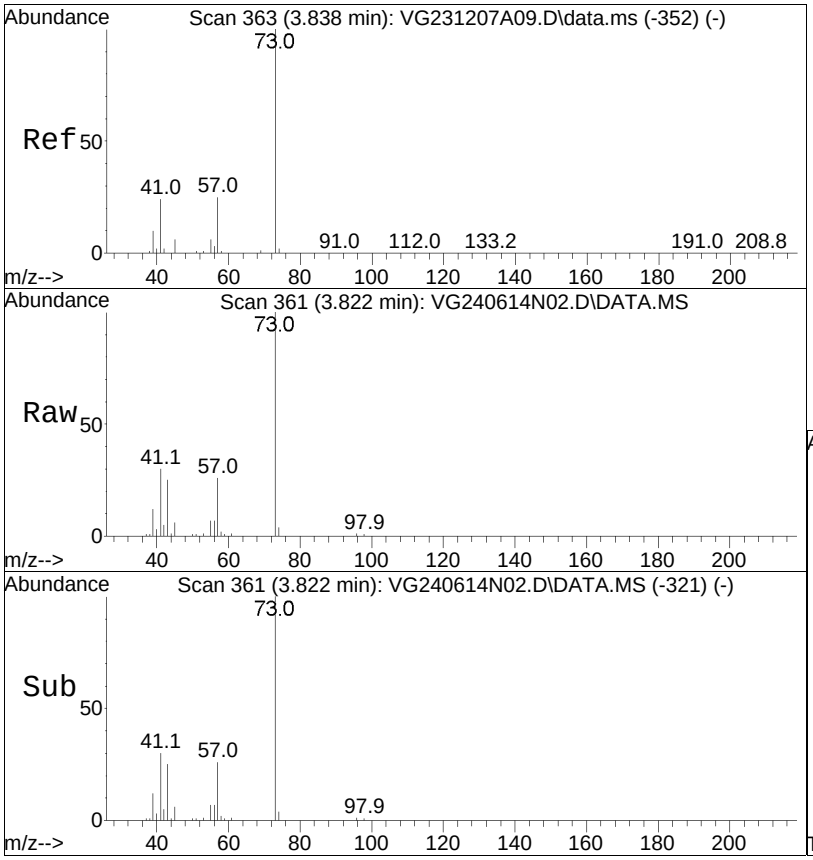


#19
Methyl acetate
Concen: 11.17 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 43 Resp: 77188

Ion	Ratio	Lower	Upper
43	100		
74	18.8	19.3	28.9#
59	14.9	13.9	20.9

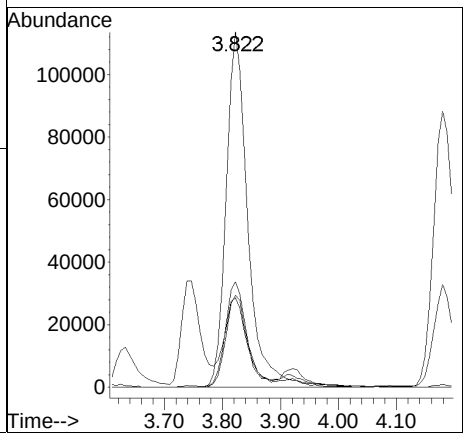


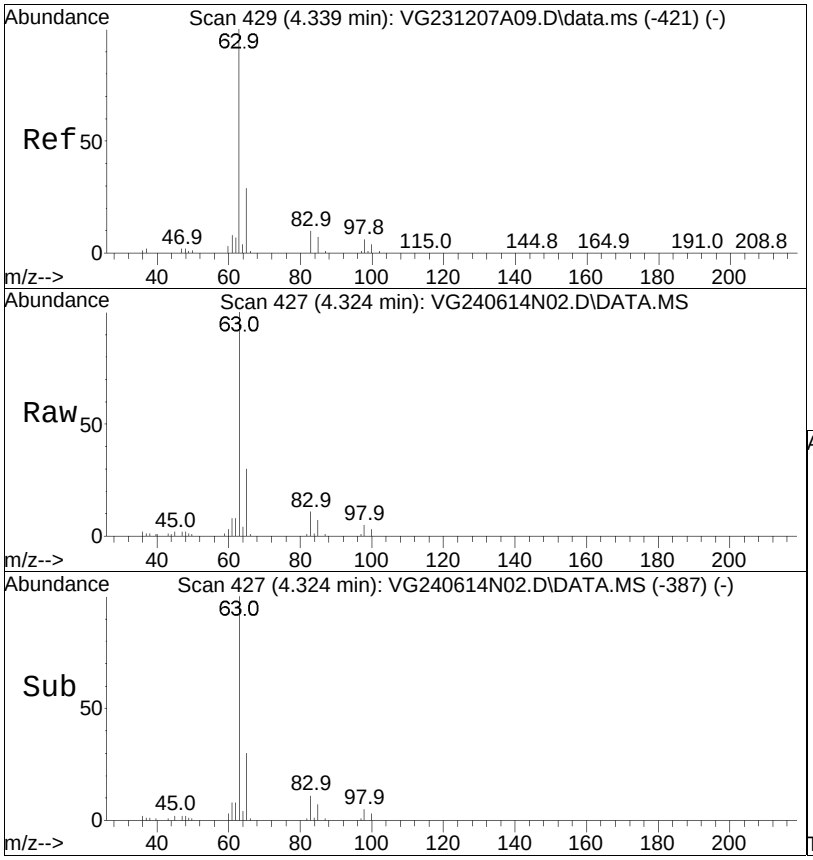


#20
Methyl tert-butyl ether
Concen: 9.47 ug/L
RT: 3.822 min Scan# 361
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 73 Resp: 298345

Ion	Ratio	Lower	Upper
73	100		
57	25.8	12.5	26.1
43	25.6	13.0	27.0
41	29.0	12.5	26.1#

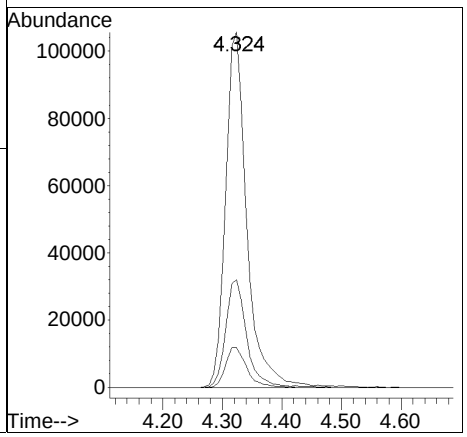


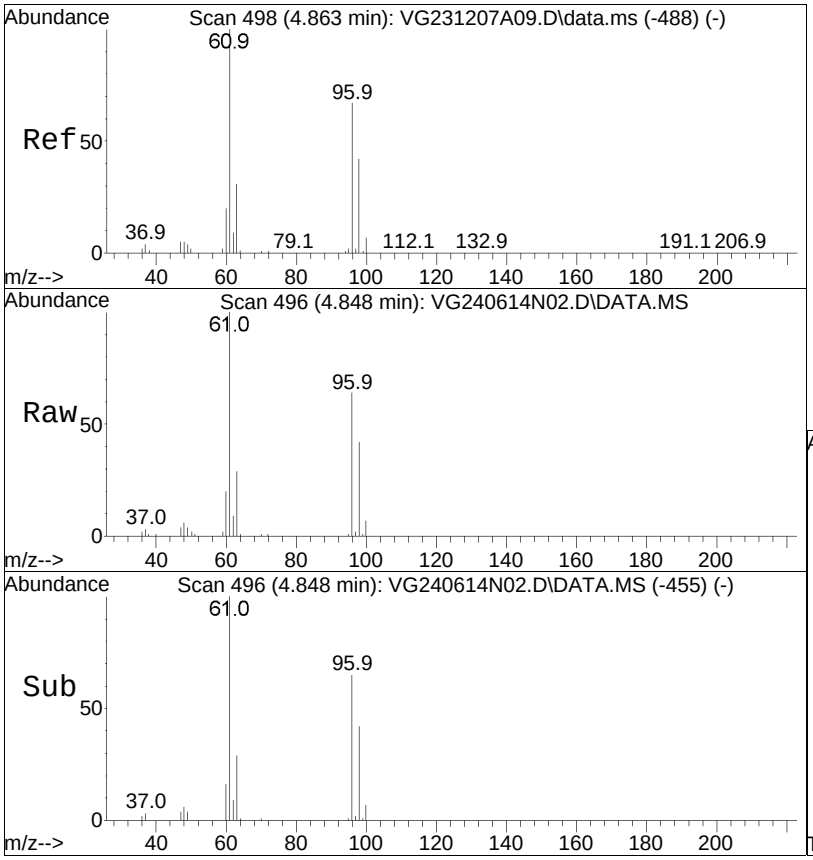


#23
1,1-Dichloroethane
Concen: 10.97 ug/L
RT: 4.324 min Scan# 427
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 63 Resp: 262676

Ion	Ratio	Lower	Upper
63	100		
65	29.5	10.4	50.4
83	11.2	0.0	33.2

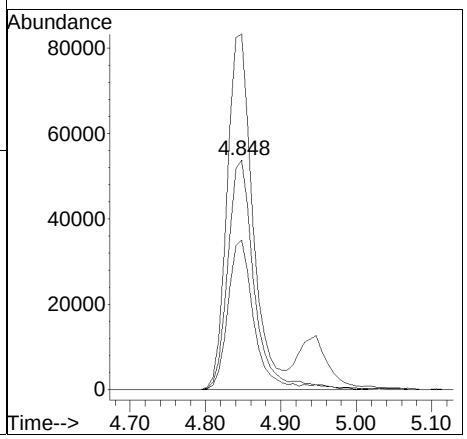


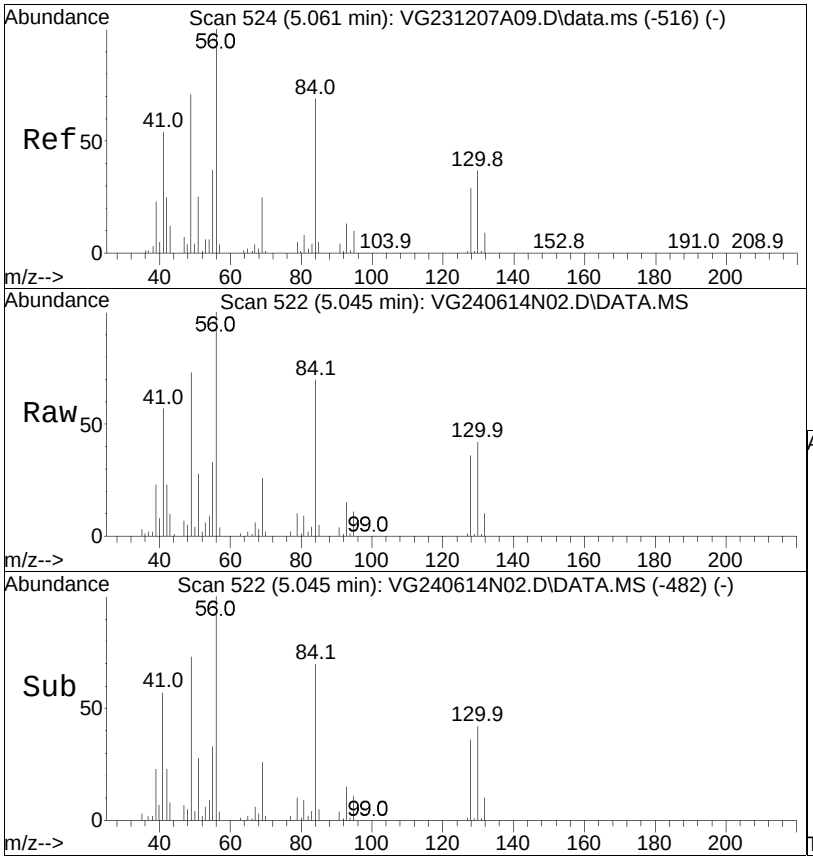


#28
cis-1,2-Dichloroethene
Concen: 9.38 ug/L
RT: 4.848 min Scan# 496
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 96 Resp: 131317

Ion	Ratio	Lower	Upper
96	100		
61	148.7	96.6	144.8#
98	62.7	51.3	76.9

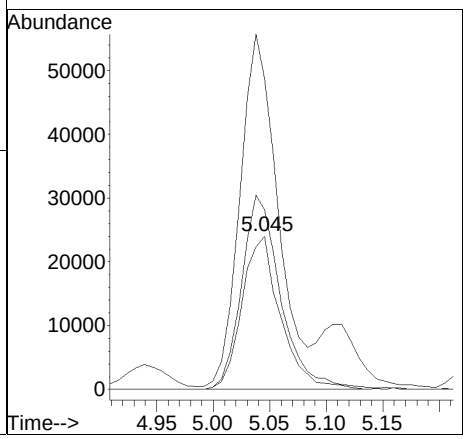


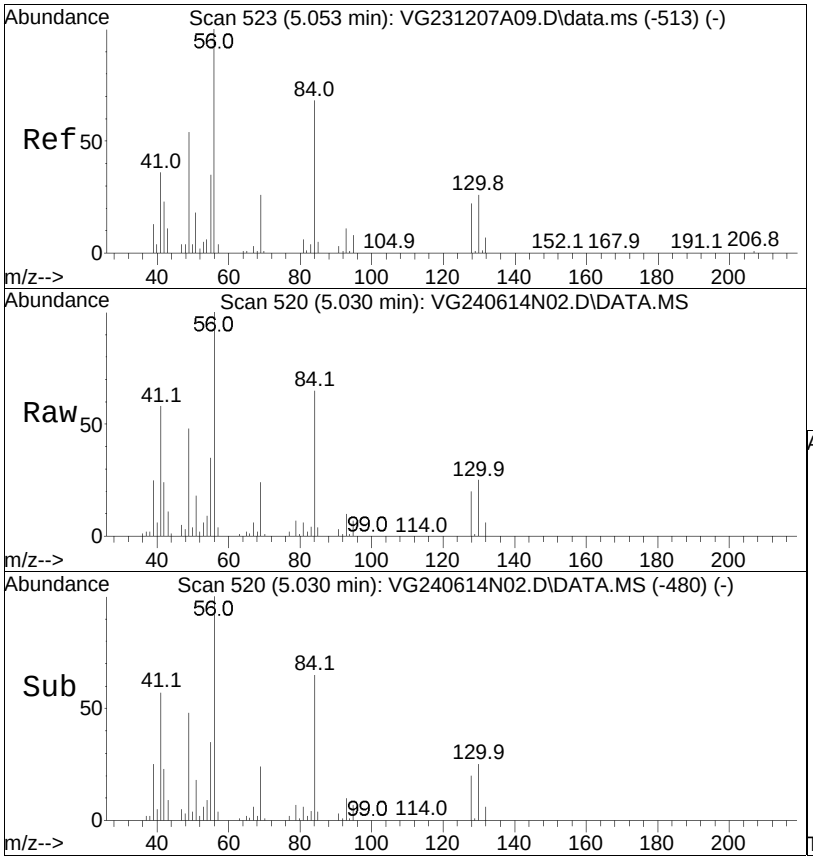


#30
Bromochloromethane
Concen: 9.00 ug/L
RT: 5.045 min Scan# 522
Delta R.T. 0.007 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:128 Resp: 56897

Ion	Ratio	Lower	Upper
128	100		
49	223.5	112.7	169.1#
130	129.6	103.3	154.9

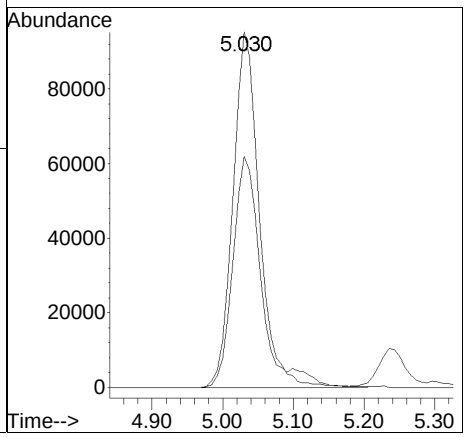


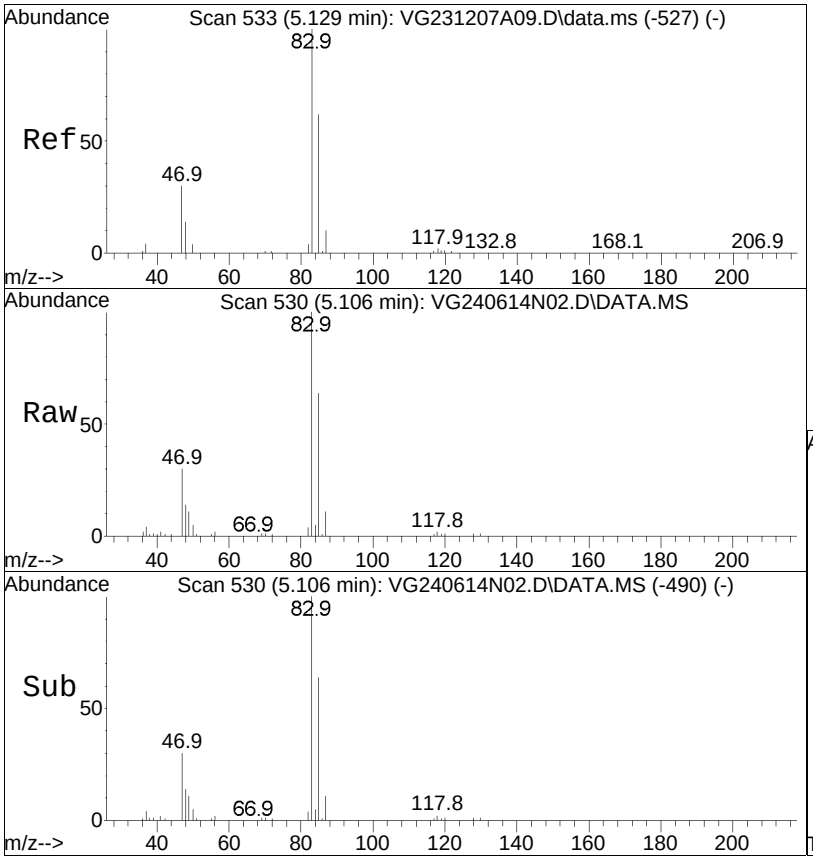


#31
Cyclohexane
Concen: 10.40 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 56 Resp: 246949

Ion	Ratio	Lower	Upper
56	100		
84	66.1	63.8	132.4

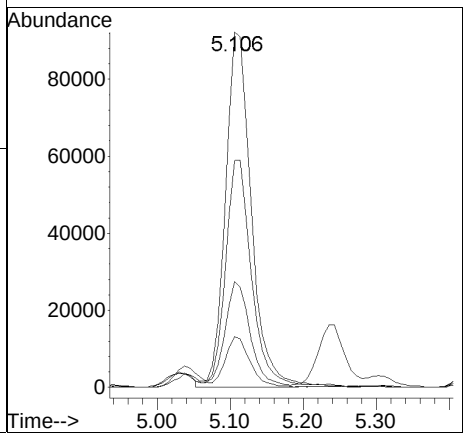


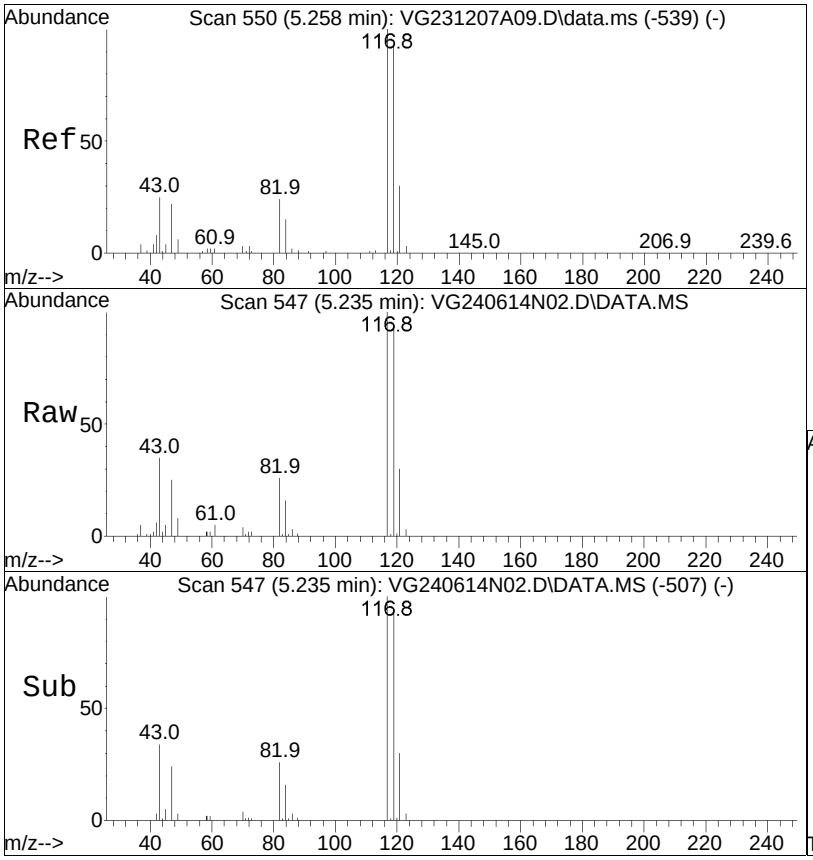


#32
Chloroform
Concen: 9.85 ug/L
RT: 5.106 min Scan# 530
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 83 Resp: 227850

Ion	Ratio	Lower	Upper
83	100		
85	64.3	41.4	86.0
47	28.7	15.1	31.3
48	13.7	7.7	16.1

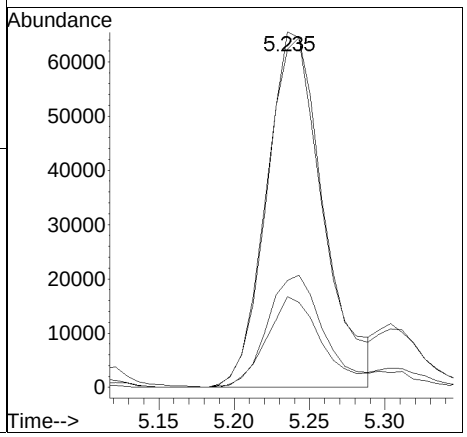


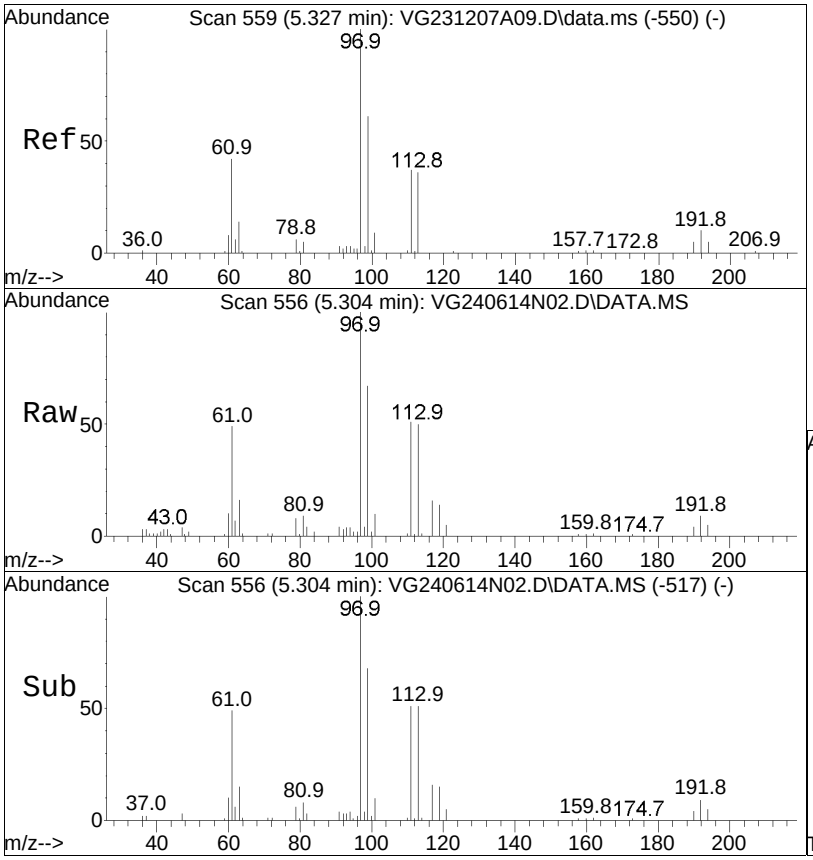


#34
Carbon tetrachloride
Concen: 9.62 ug/L
RT: 5.235 min Scan# 547
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:117 Resp: 173320

Ion	Ratio	Lower	Upper
117	100		
119	96.5	63.2	131.2
121	31.2	20.4	42.4
82	24.9	15.4	32.0

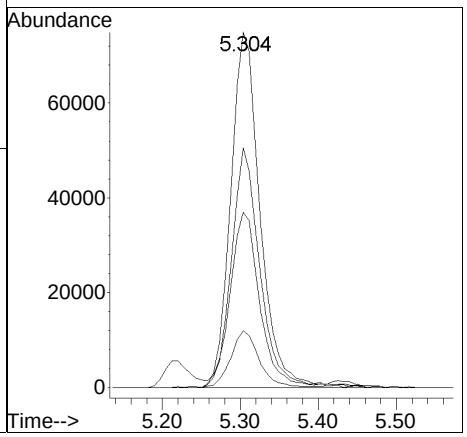


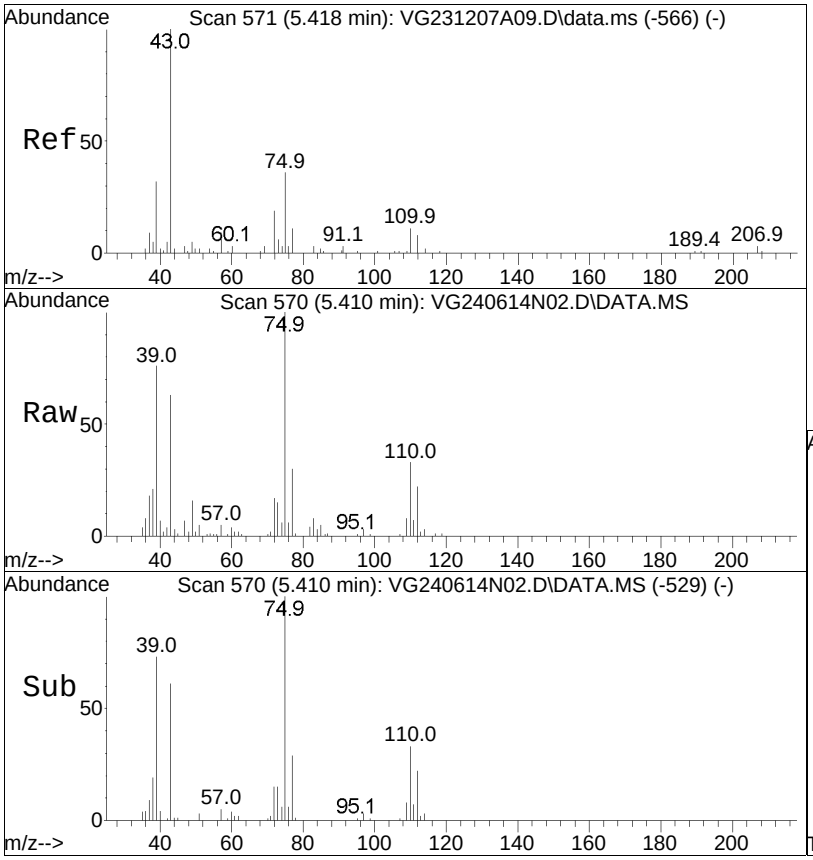


#37
1,1,1-Trichloroethane
Concen: 9.93 ug/L
RT: 5.304 min Scan# 556
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 97 Resp: 196763

Ion	Ratio	Lower	Upper
97	100		
99	65.1	41.3	85.7
61	49.3	26.0	54.0
63	15.4	8.6	18.0

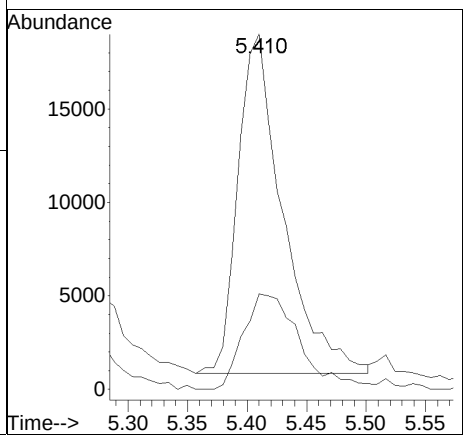


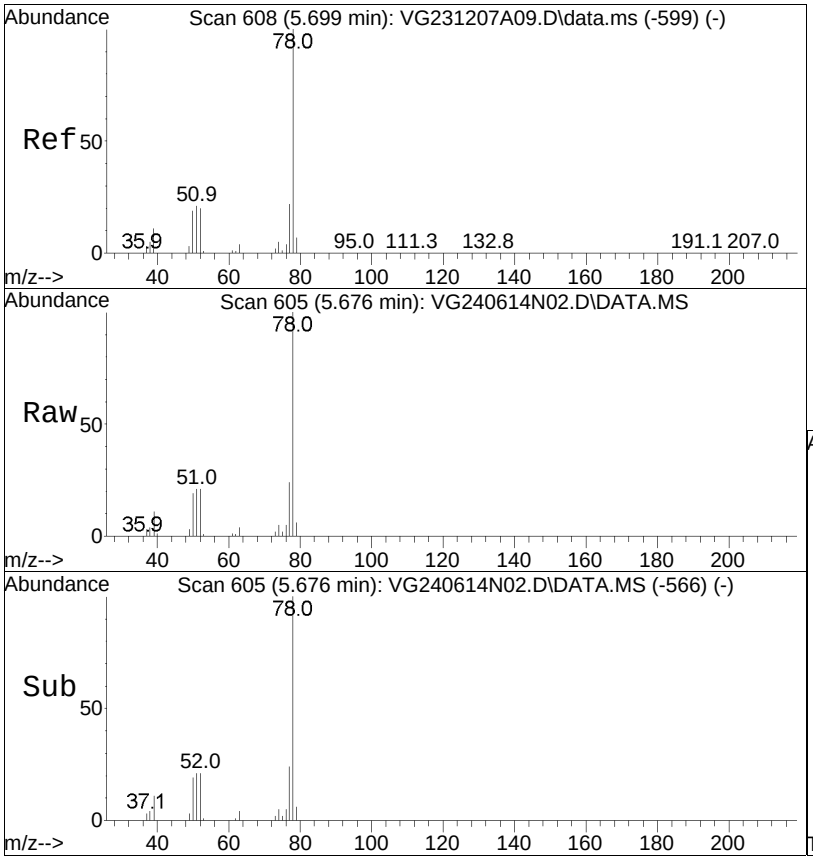


#39
2-Butanone
Concen: 10.84 ug/L
RT: 5.410 min Scan# 570
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 43 Resp: 47736

Ion	Ratio	Lower	Upper
43	100		
72	35.4	42.6	63.8#

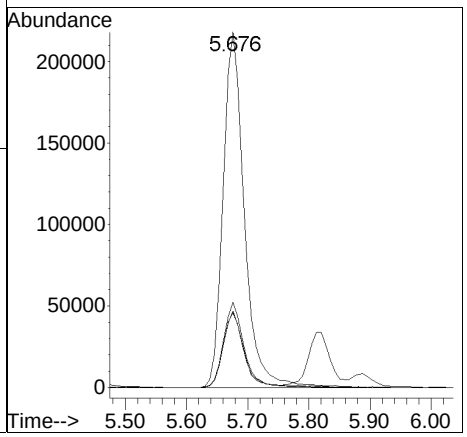


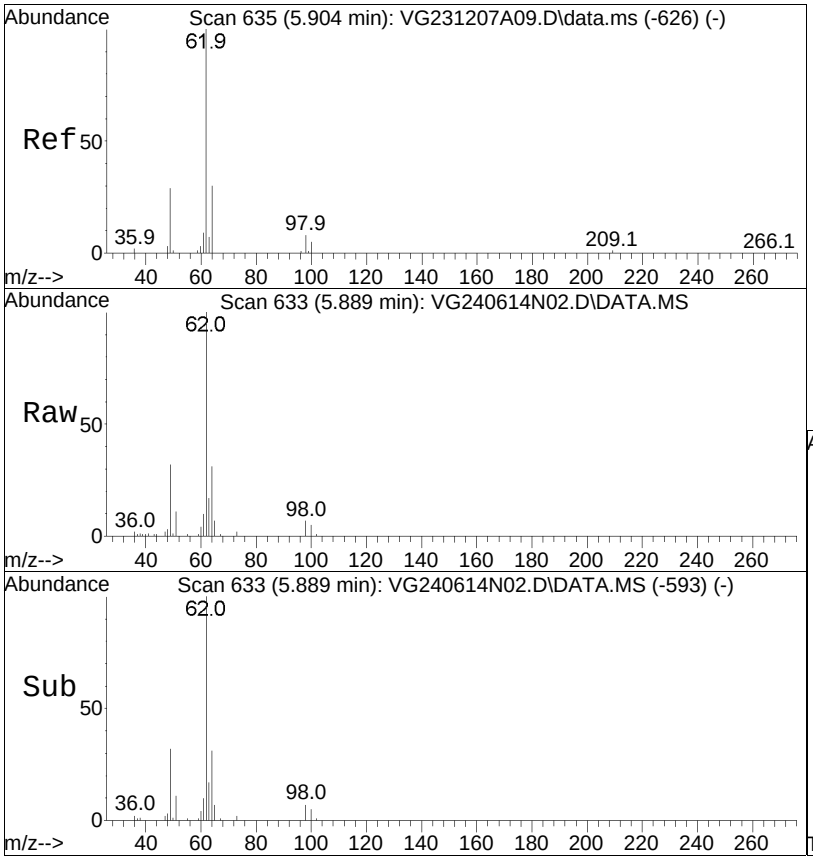


#41
Benzene
Concen: 10.39 ug/L
RT: 5.676 min Scan# 605
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 78 Resp: 529725

Ion	Ratio	Lower	Upper
78	100		
77	22.8	15.5	32.1
51	20.4	9.9	20.7
52	20.4	9.2	19.2#

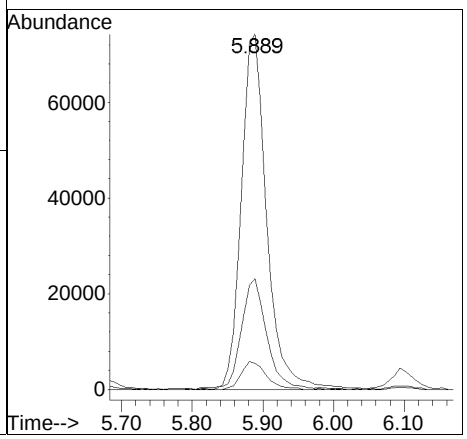


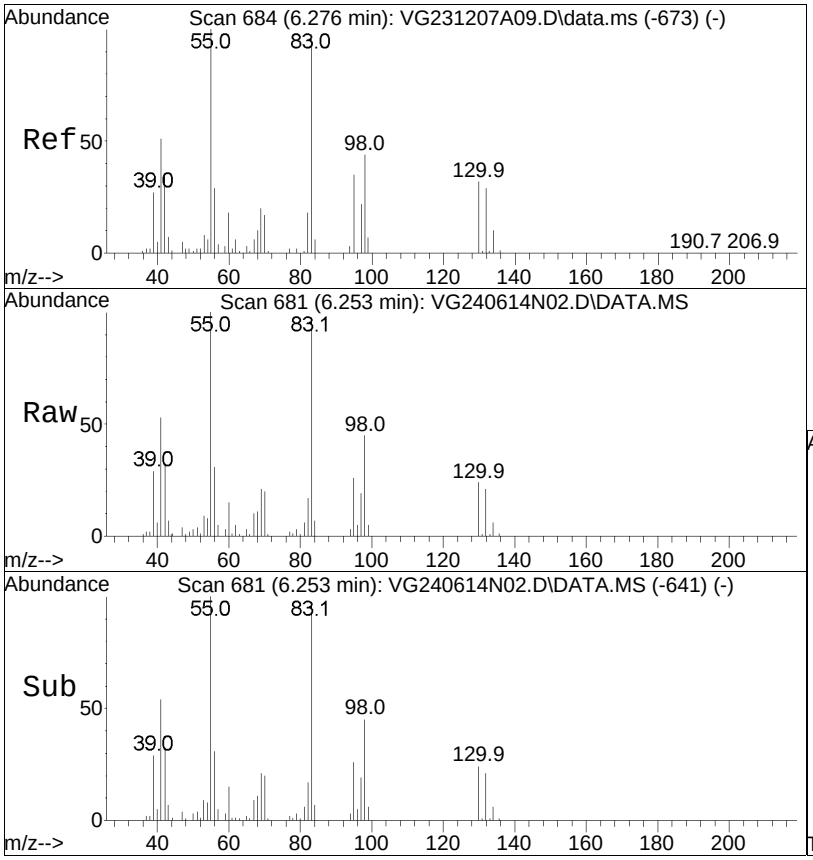


#44
1,2-Dichloroethane
Concen: 10.11 ug/L
RT: 5.889 min Scan# 633
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 62 Resp: 185771

Ion	Ratio	Lower	Upper
62	100		
64	31.2	11.9	51.9
98	7.7	0.0	29.3

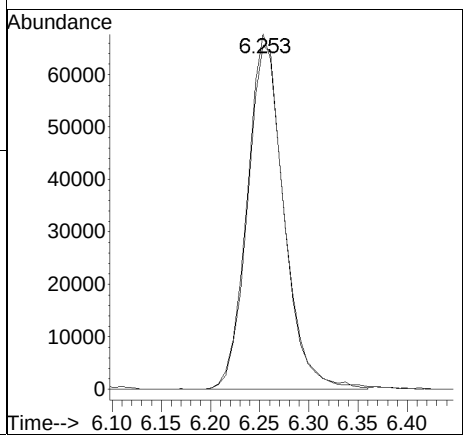


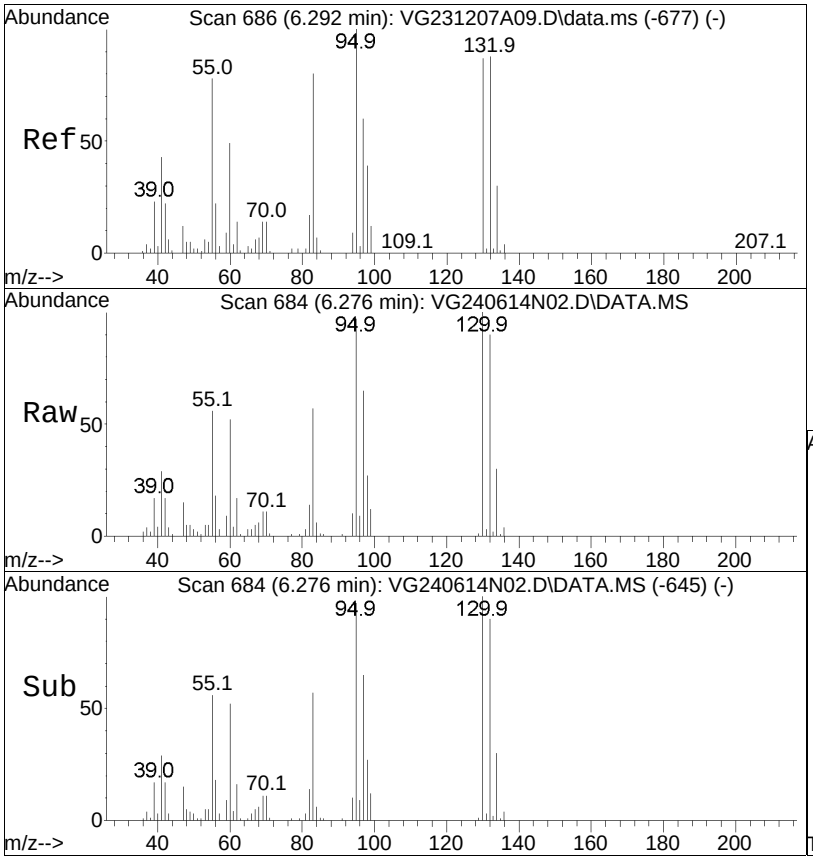


#47
Methyl cyclohexane
Concen: 8.73 ug/L
RT: 6.253 min Scan# 681
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 83 Resp: 170825

Ion	Ratio	Lower	Upper
83	100		
55	102.5	56.0	84.0#

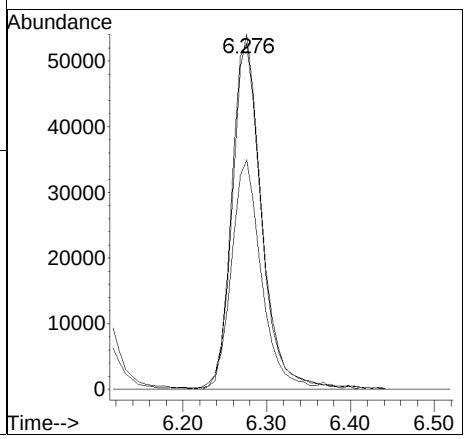


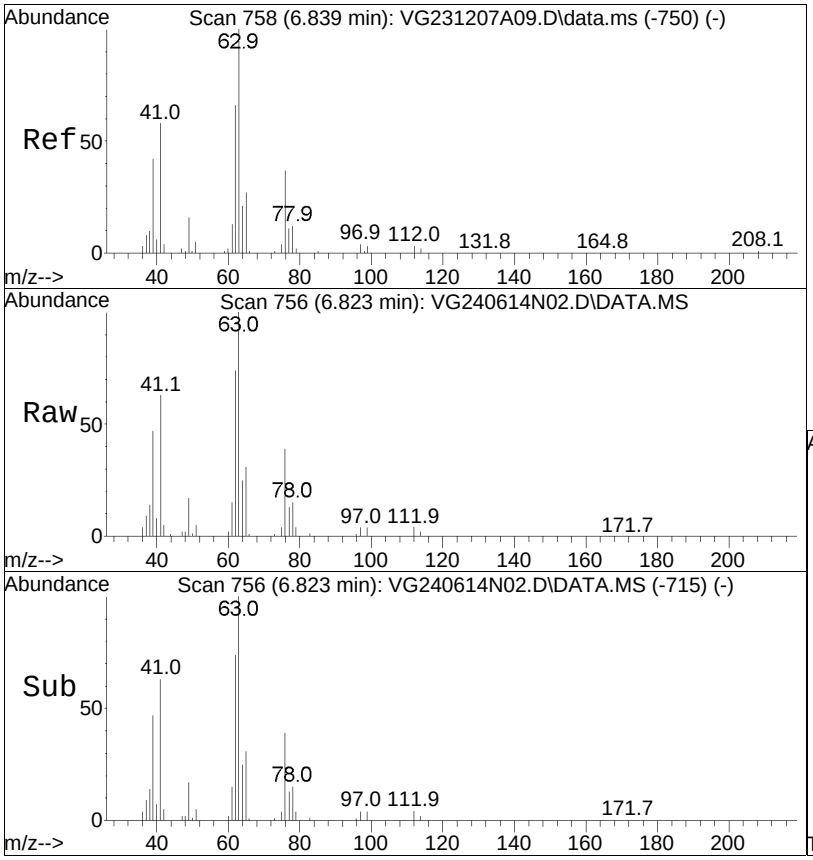


#48
Trichloroethene
Concen: 8.62 ug/L
RT: 6.276 min Scan# 684
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 95 Resp: 132030

Ion	Ratio	Lower	Upper
95	100		
97	65.2	54.0	81.0
130	99.5	85.0	127.4

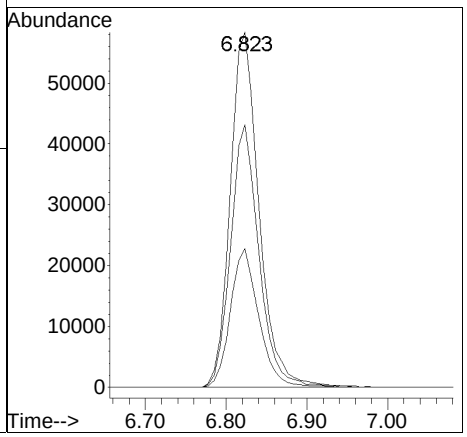


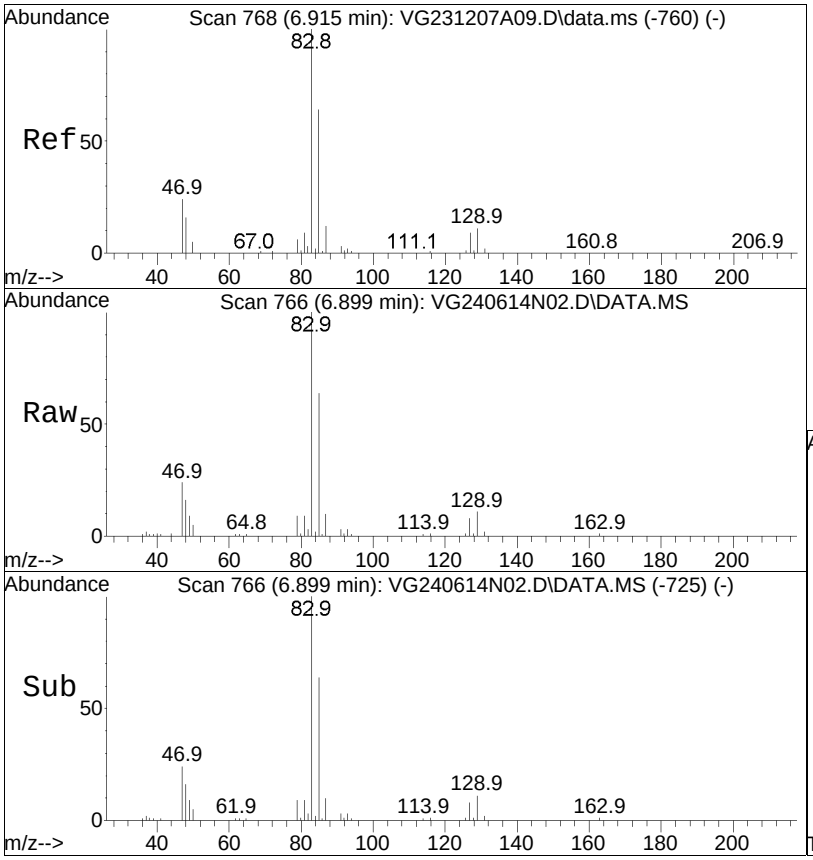


#51
1,2-Dichloropropane
Concen: 11.06 ug/L
RT: 6.823 min Scan# 756
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 63 Resp: 145178

Ion	Ratio	Lower	Upper
63	100		
62	72.8	56.5	84.7
76	38.5	34.6	52.0

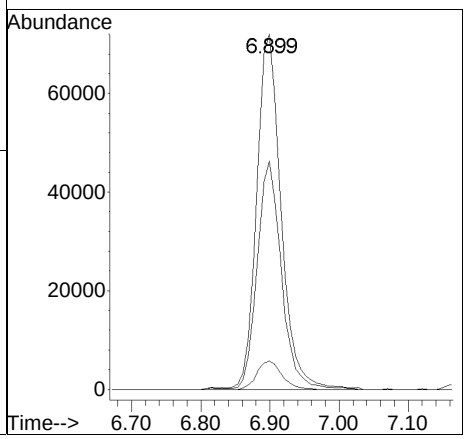


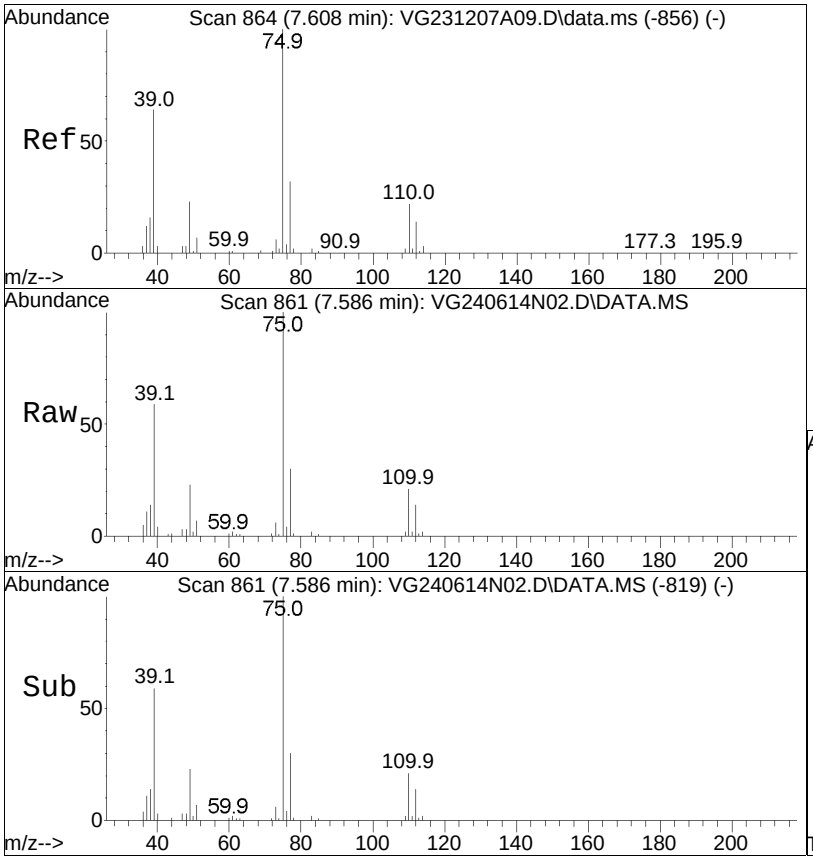


#54
Bromodichloromethane
Concen: 9.77 ug/L
RT: 6.899 min Scan# 766
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 83 Resp: 175798

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.8	76.2
127	8.2	7.4	11.2

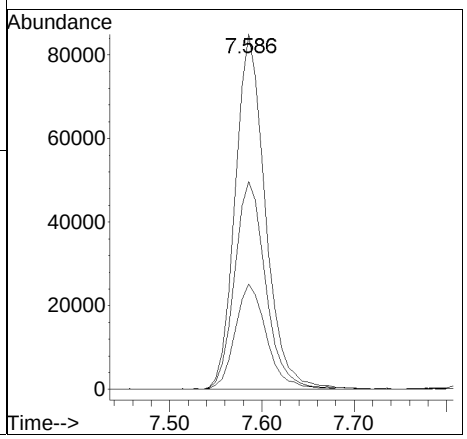


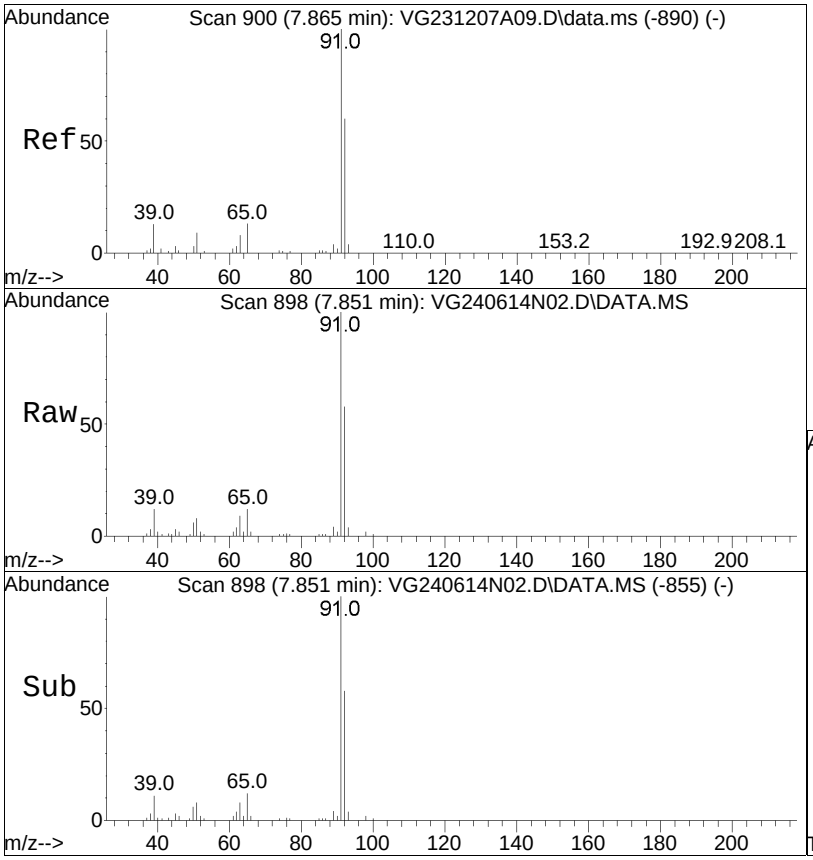


#58
cis-1,3-Dichloropropene
Concen: 9.78 ug/L
RT: 7.586 min Scan# 861
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 75 Resp: 193418

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.6	36.8
39	60.8	40.8	61.2

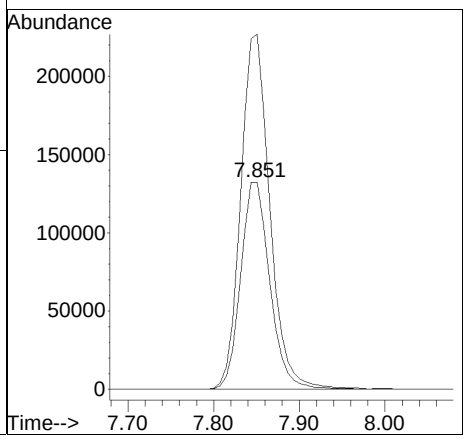


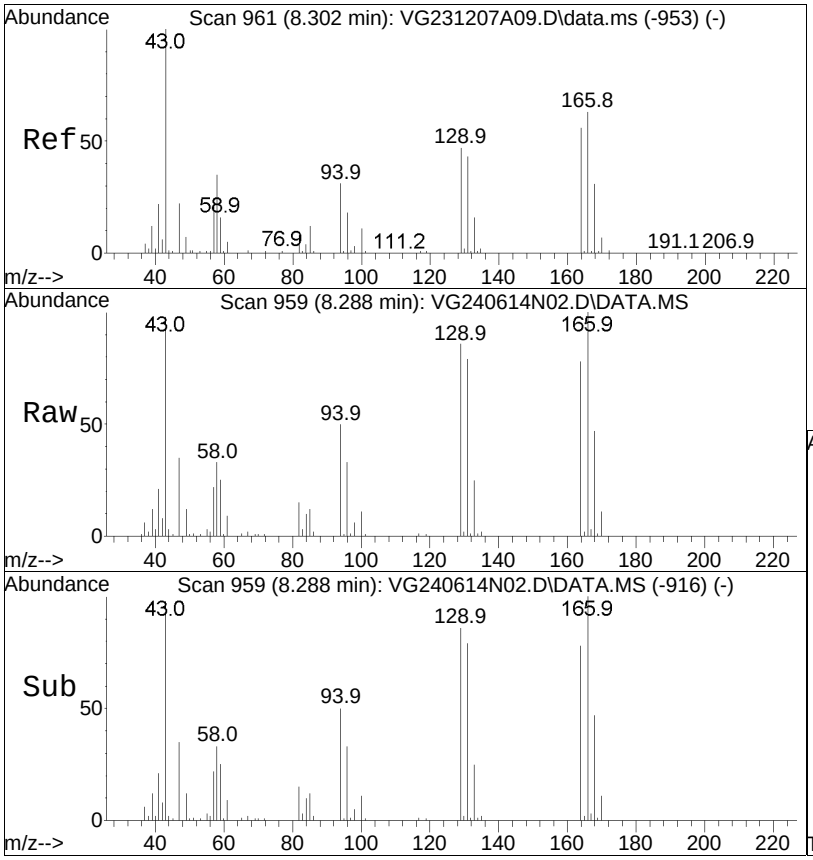


#61
Toluene
Concen: 10.66 ug/L
RT: 7.851 min Scan# 898
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 92 Resp: 314269

Ion	Ratio	Lower	Upper
92	100		
91	170.7	134.8	202.2

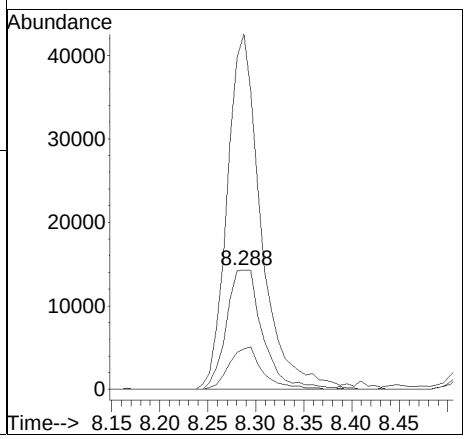


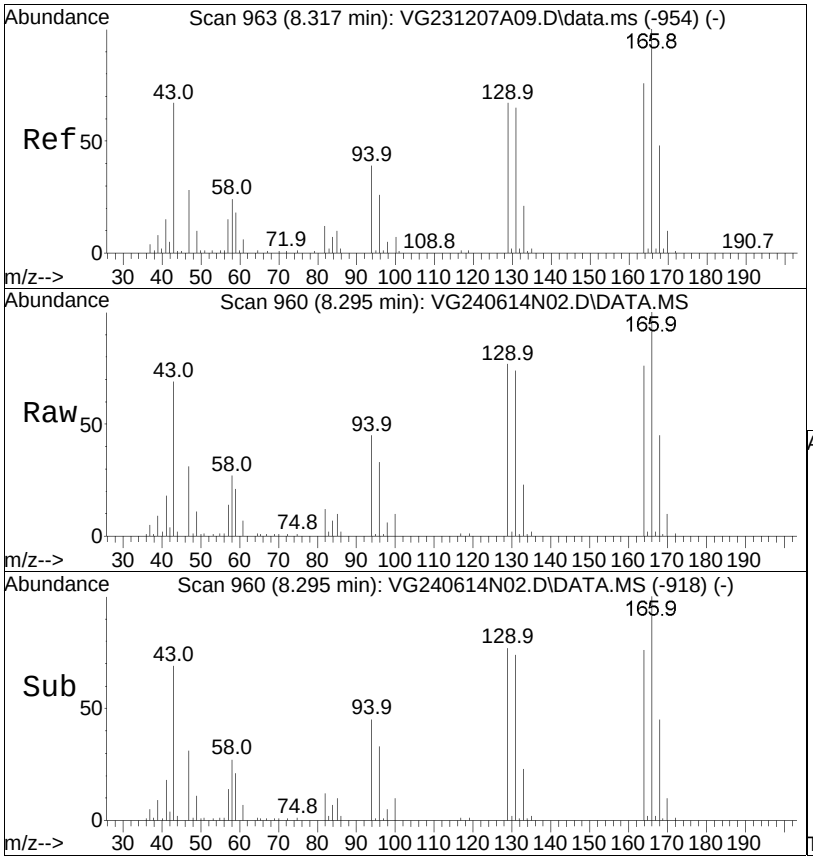


#62
4-Methyl-2-pentanone
Concen: 11.49 ug/L
RT: 8.288 min Scan# 959
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 58 Resp: 37910

Ion	Ratio	Lower	Upper
58	100		
100	32.7	33.6	50.4#
43	275.7	204.3	306.5

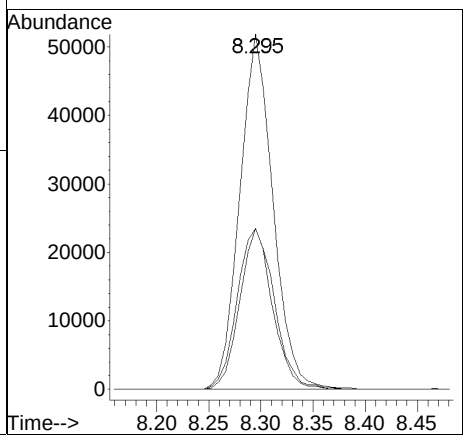


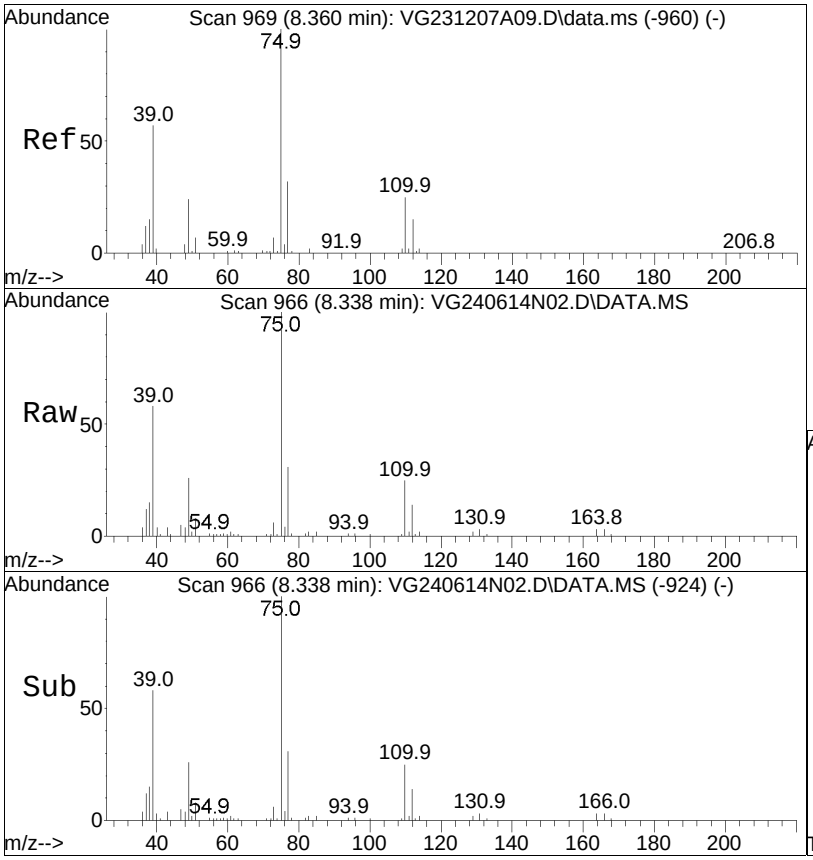


#63
Tetrachloroethene
Concen: 9.99 ug/L
RT: 8.295 min Scan# 960
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:166 Resp: 114818

Ion	Ratio	Lower	Upper
166	100		
168	47.2	27.3	67.3
94	48.1	20.5	60.5

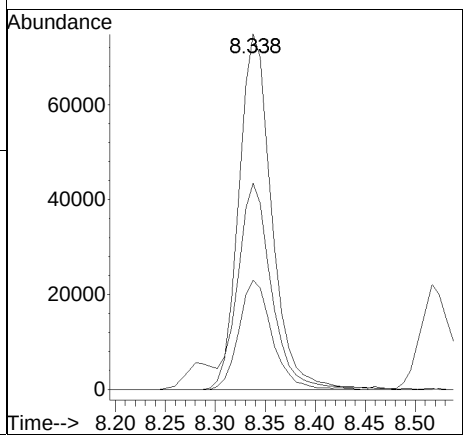


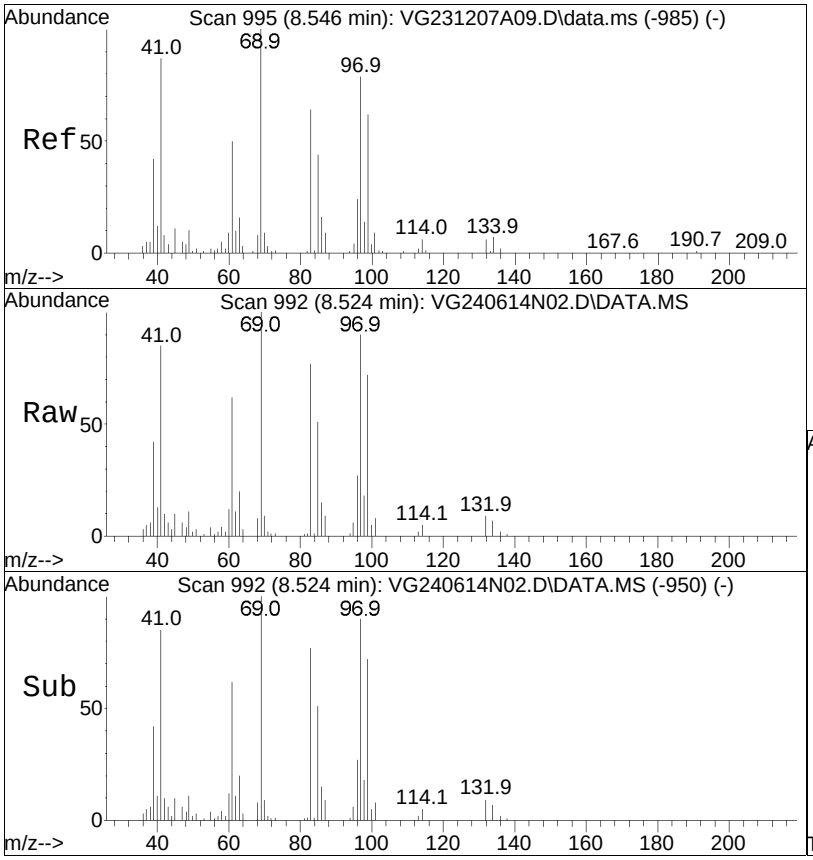


#65
trans-1,3-Dichloropropene
Concen: 10.71 ug/L
RT: 8.338 min Scan# 966
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 75 Resp: 170939

Ion	Ratio	Lower	Upper
75	100		
77	31.1	11.3	51.3
39	58.7	36.0	76.0

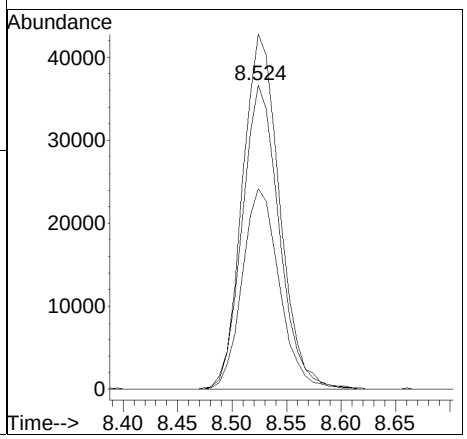


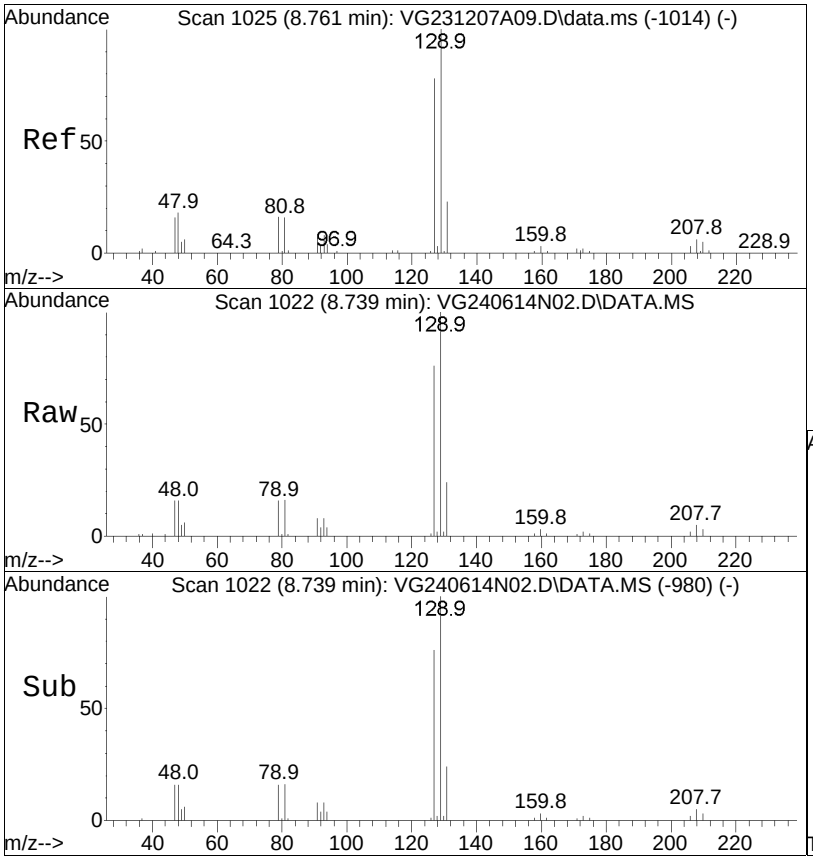


#68
1,1,2-Trichloroethane
Concen: 10.46 ug/L
RT: 8.524 min Scan# 992
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 83 Resp: 86559

Ion	Ratio	Lower	Upper
83	100		
97	117.8	101.0	141.0
85	66.4	47.9	87.9

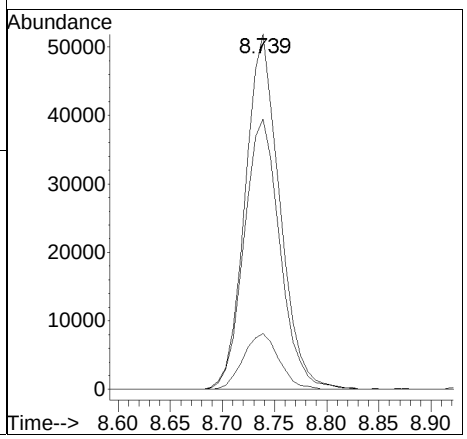


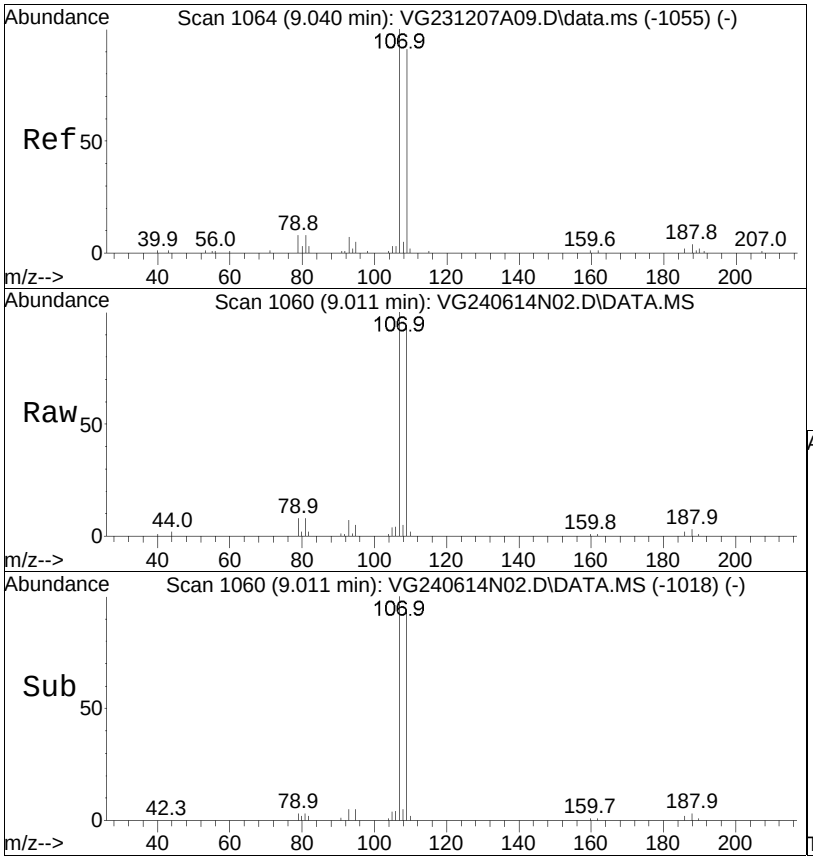


#69
Chlorodibromomethane
Concen: 9.73 ug/L
RT: 8.739 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:129 Resp: 119578

Ion	Ratio	Lower	Upper
129	100		
81	16.3	0.0	35.0
127	79.3	57.1	97.1

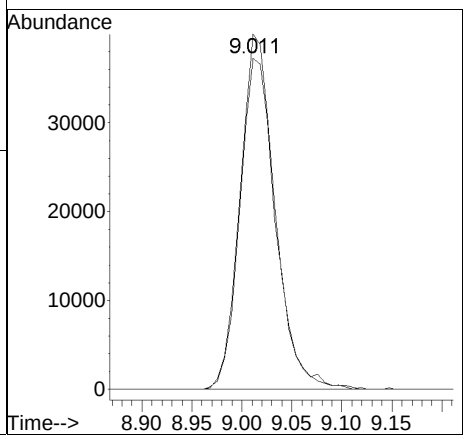


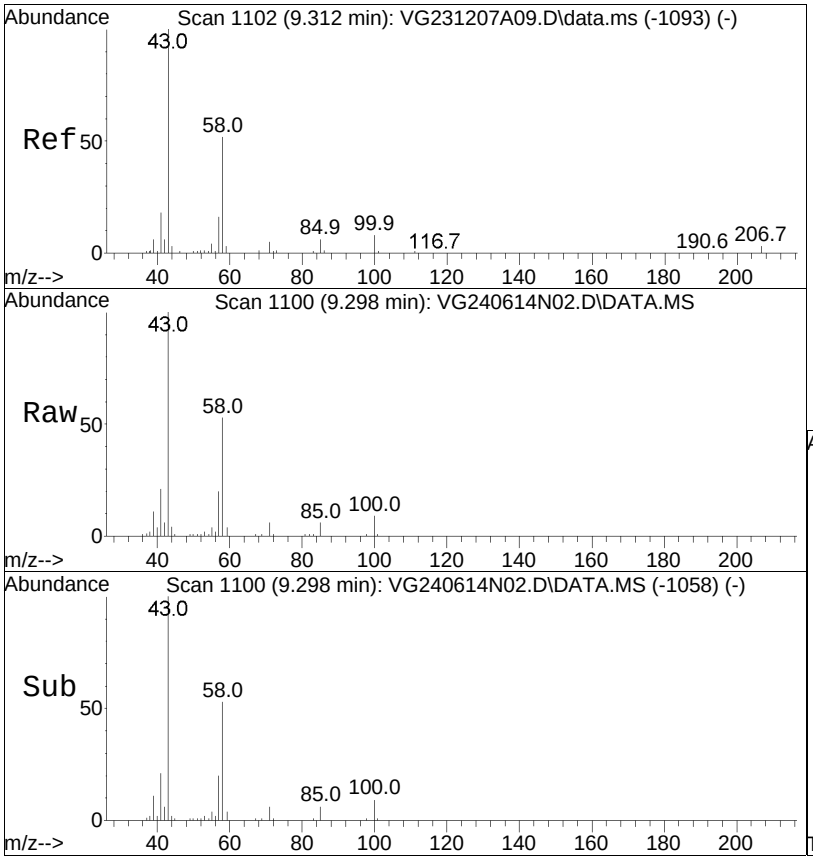


#71
1,2-Dibromoethane
Concen: 10.30 ug/L
RT: 9.011 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:107 Resp: 97384

Ion	Ratio	Lower	Upper
107	100		
109	95.5	76.0	114.0

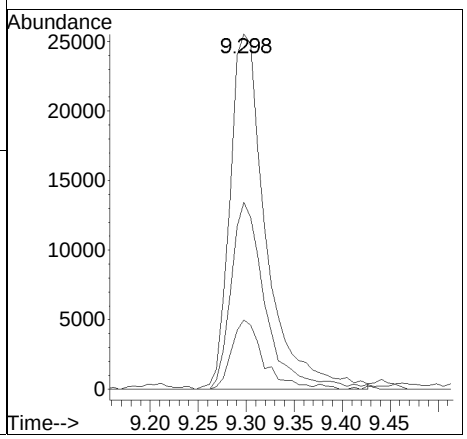


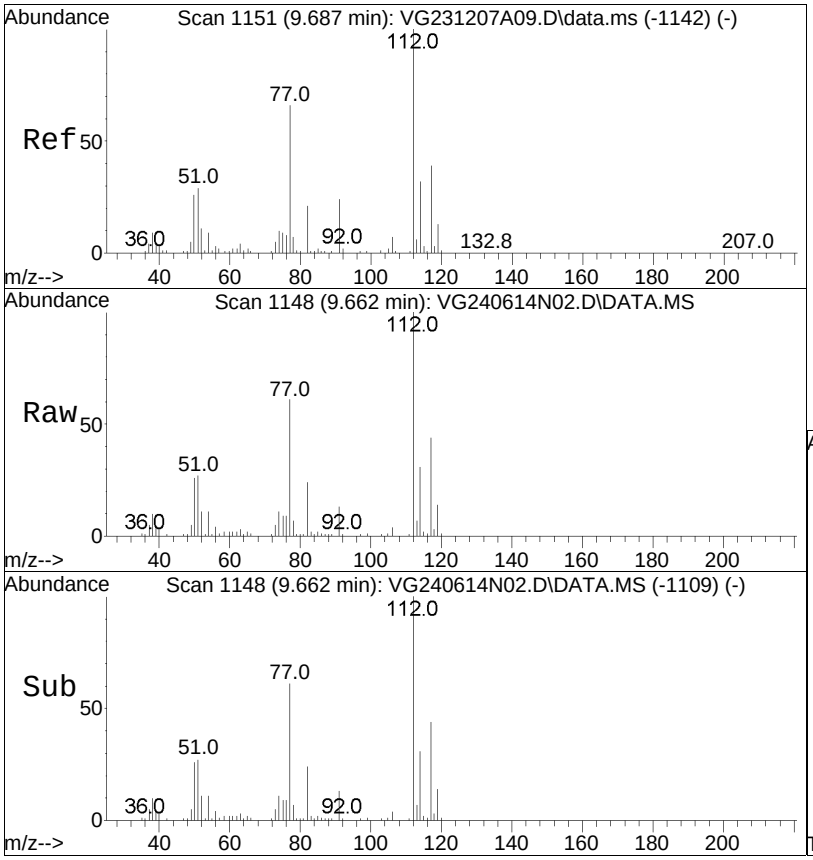


#72
2-Hexanone
Concen: 12.17 ug/L
RT: 9.298 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 43 Resp: 66973

Ion	Ratio	Lower	Upper
43	100		
58	49.9	43.8	65.6
57	17.2	15.2	22.8

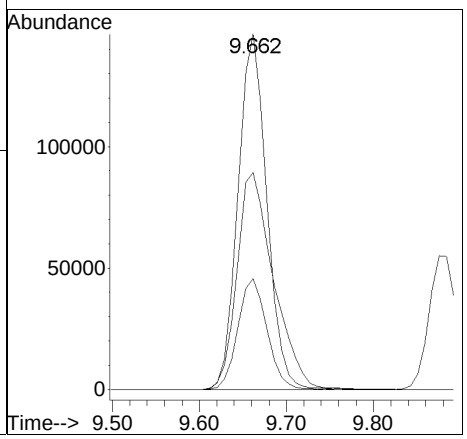


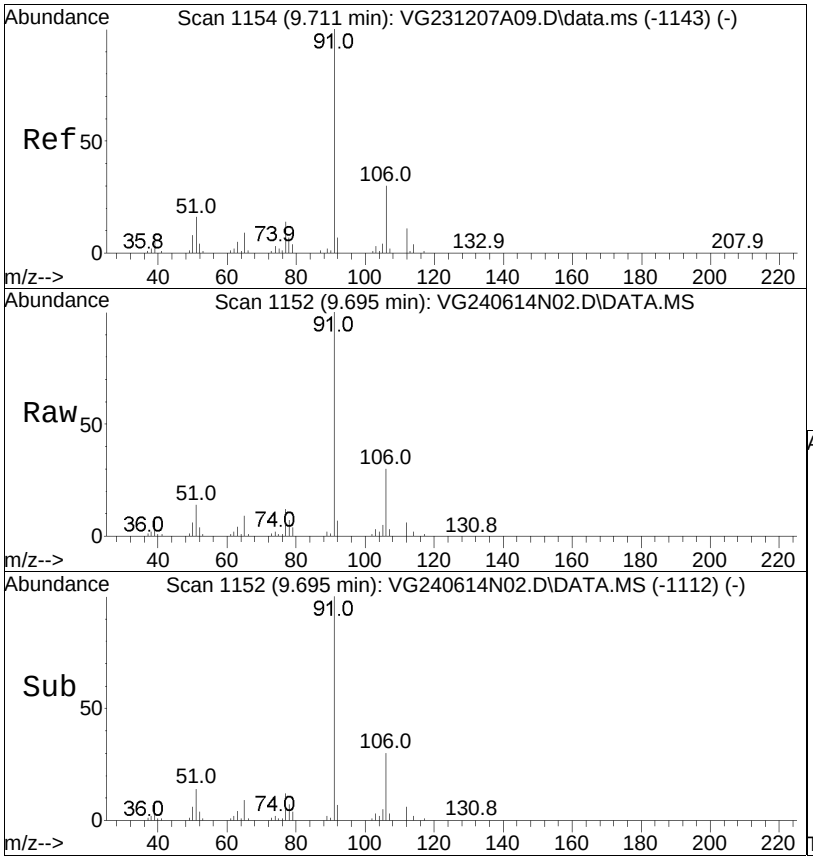


#73
Chlorobenzene
Concen: 10.08 ug/L
RT: 9.662 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:112 Resp: 335540

Ion	Ratio	Lower	Upper
112	100		
77	77.5	55.9	83.9
114	31.6	25.4	38.0

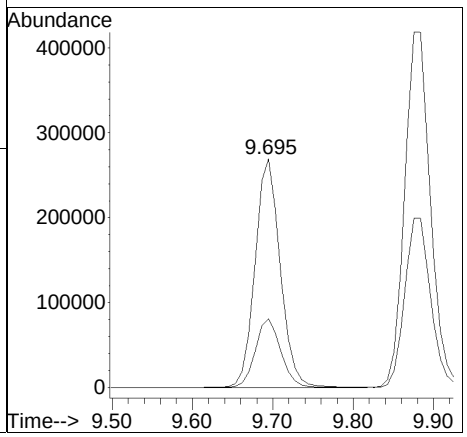


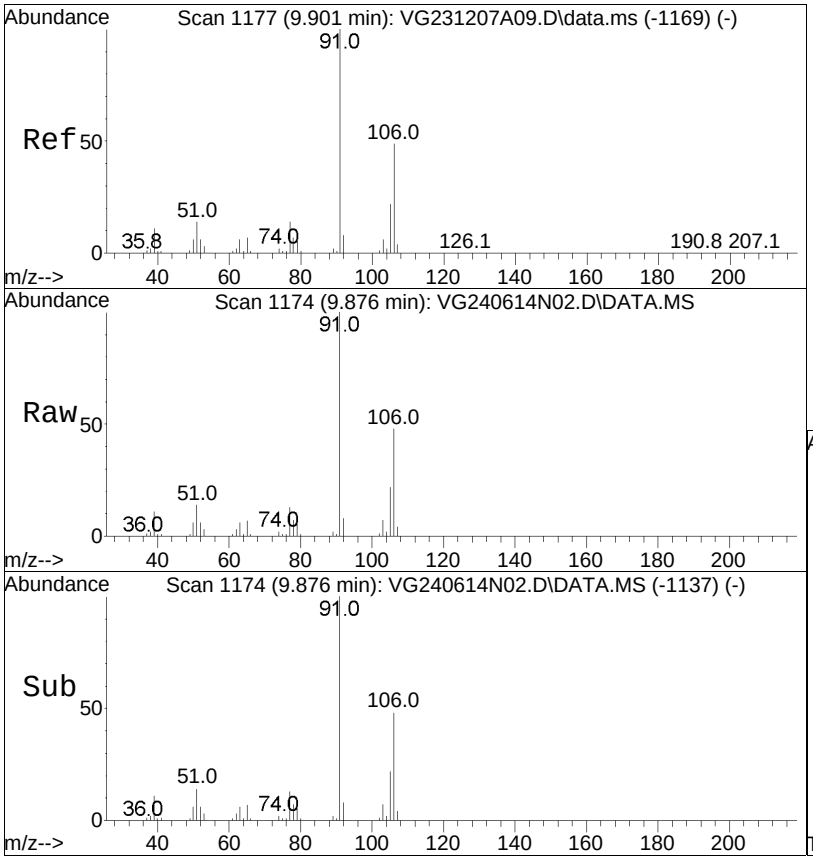


#74
Ethylbenzene
Concen: 10.20 ug/L
RT: 9.695 min Scan# 1152
Delta R.T. 0.009 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 91 Resp: 585178

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.3	37.9

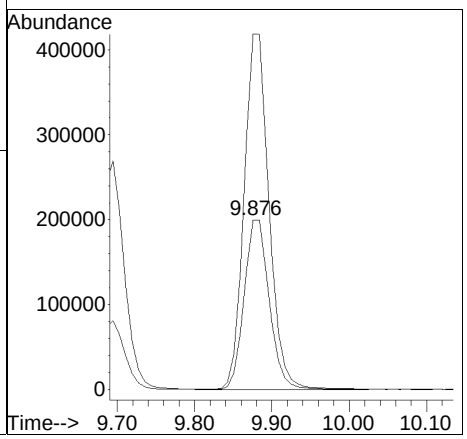


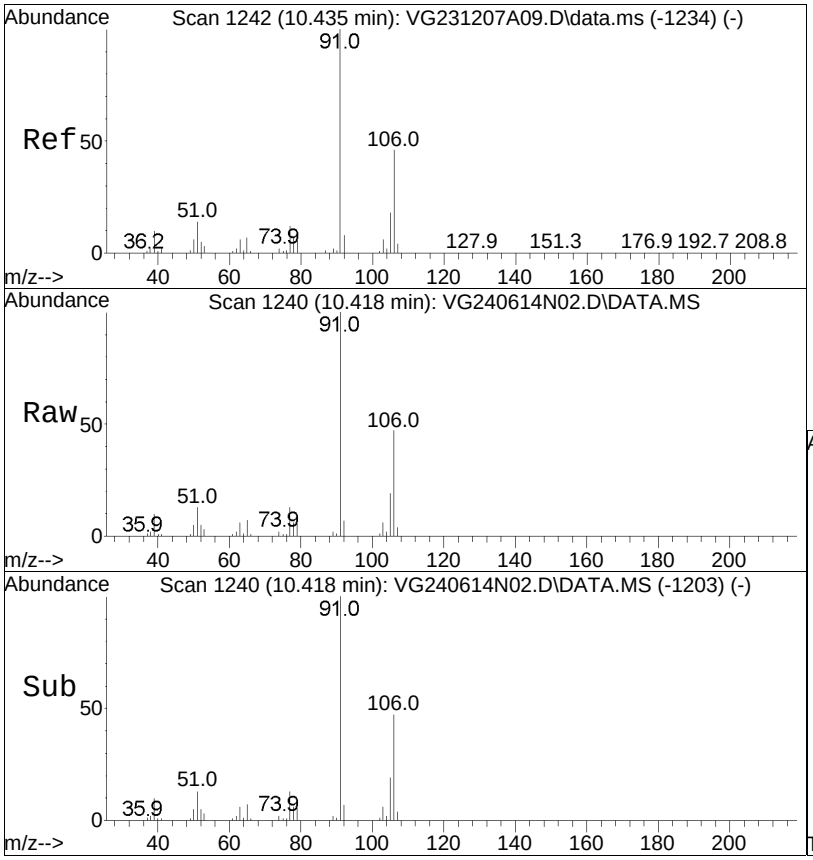


#76
p/m Xylene
Concen: 18.84 ug/L
RT: 9.876 min Scan# 1174
Delta R.T. 0.001 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:106 Resp: 450683

Ion	Ratio	Lower	Upper
106	100		
91	207.3	157.1	235.7

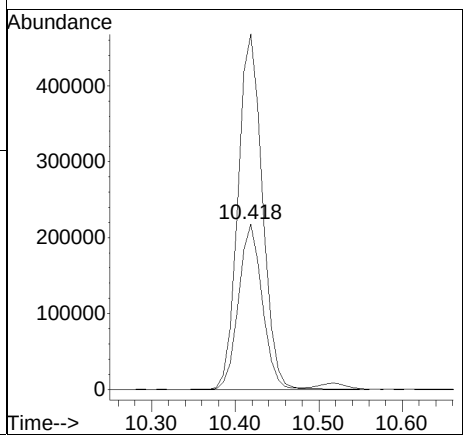


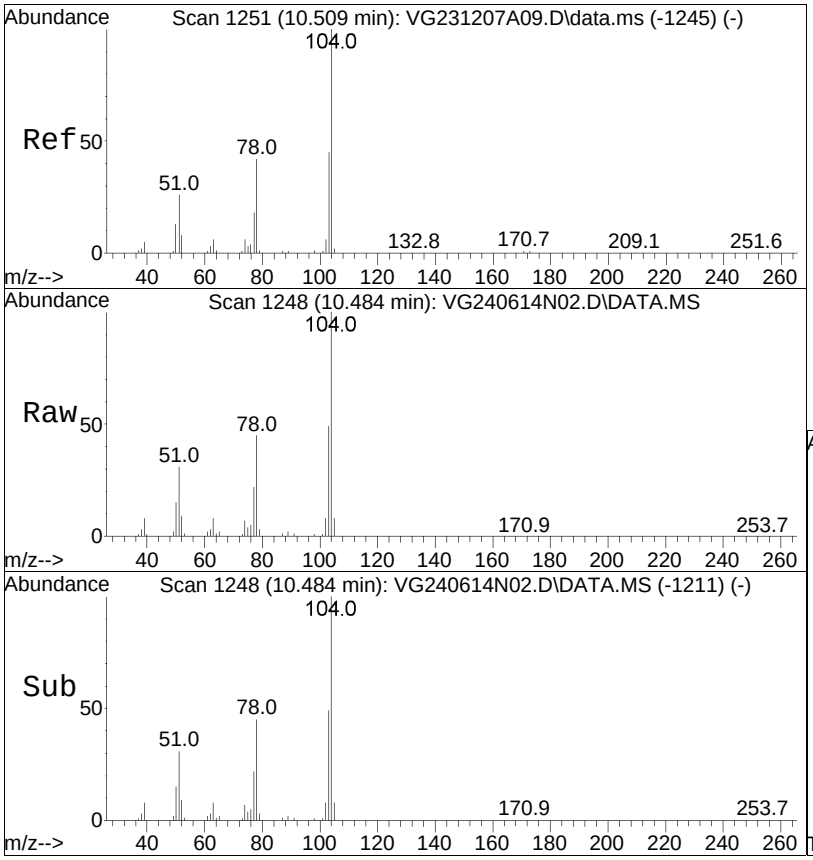


#77
o Xylene
Concen: 18.09 ug/L
RT: 10.418 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:106 Resp: 431331

Ion	Ratio	Lower	Upper
106	100		
91	219.5	164.7	247.1

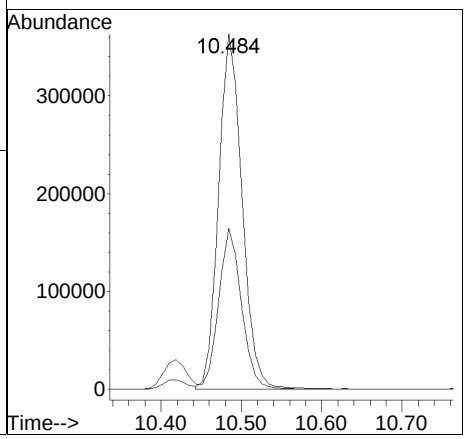


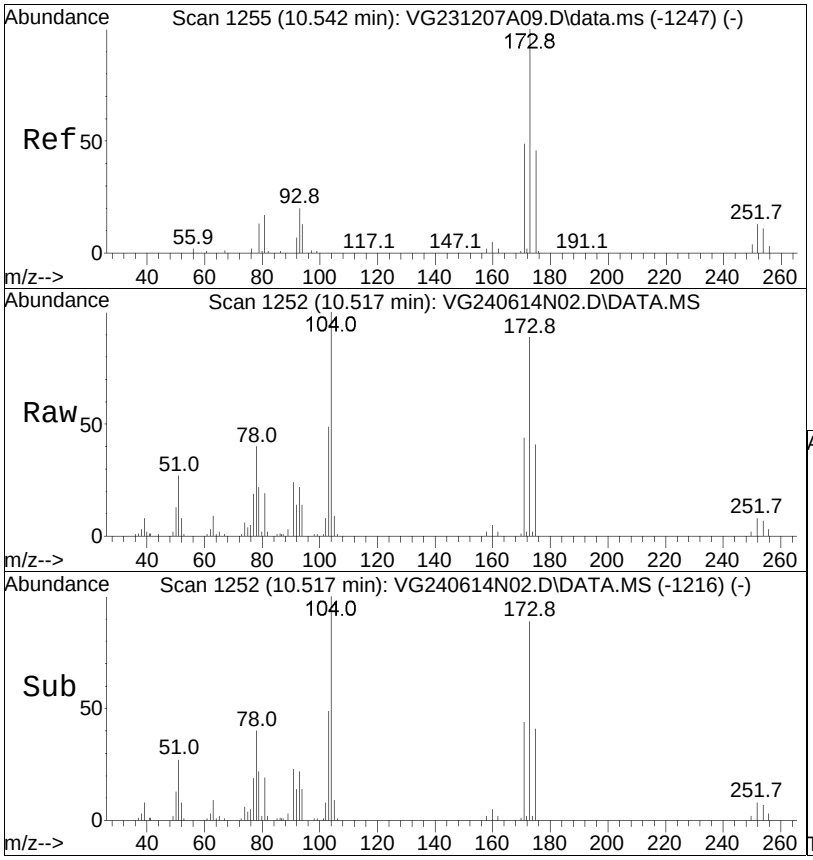


#78
Styrene
Concen: 19.49 ug/L
RT: 10.484 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:104 Resp: 739454

Ion	Ratio	Lower	Upper
104	100		
78	43.6	32.2	48.4

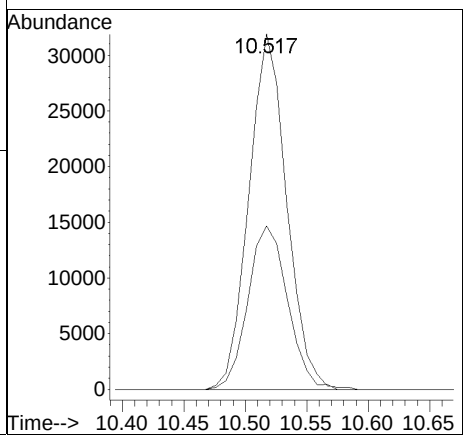


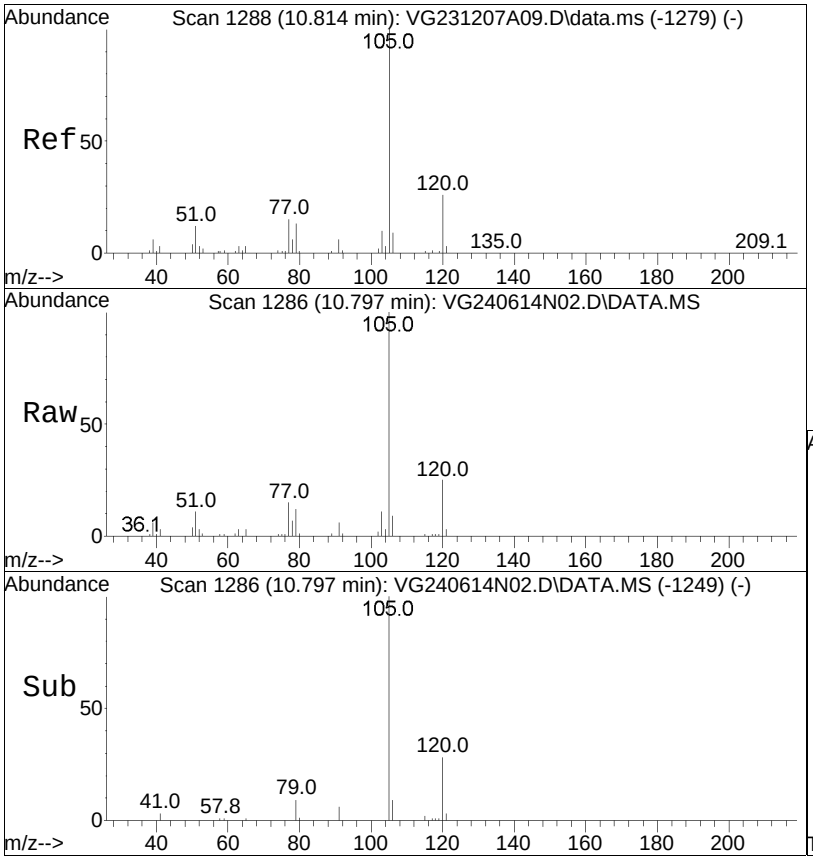


#80
Bromoform
Concen: 8.90 ug/L
RT: 10.517 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:173 Resp: 68150

Ion	Ratio	Lower	Upper
173	100		
175	48.2	28.0	68.0

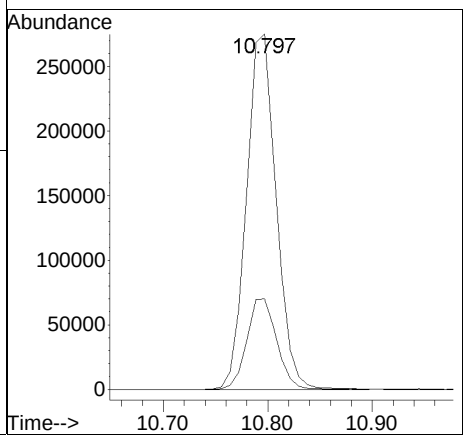


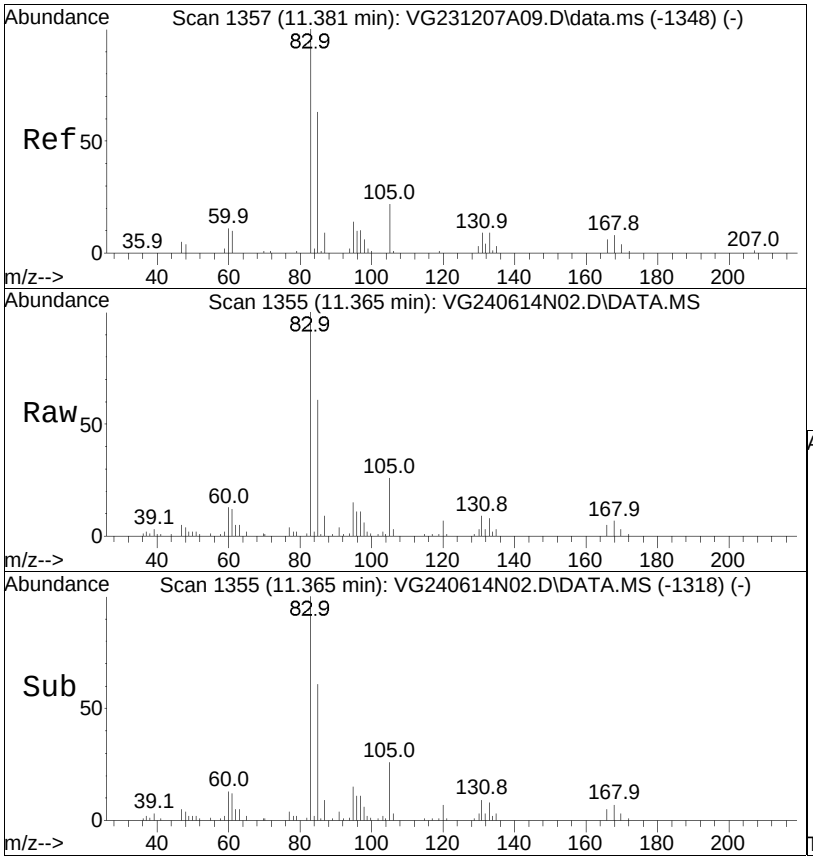


#82
Isopropylbenzene
Concen: 9.69 ug/L
RT: 10.797 min Scan# 1286
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:105 Resp: 543755

Ion	Ratio	Lower	Upper
105	100		
120	25.6	7.0	47.0

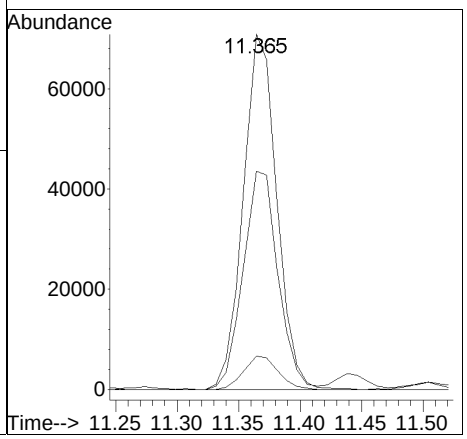


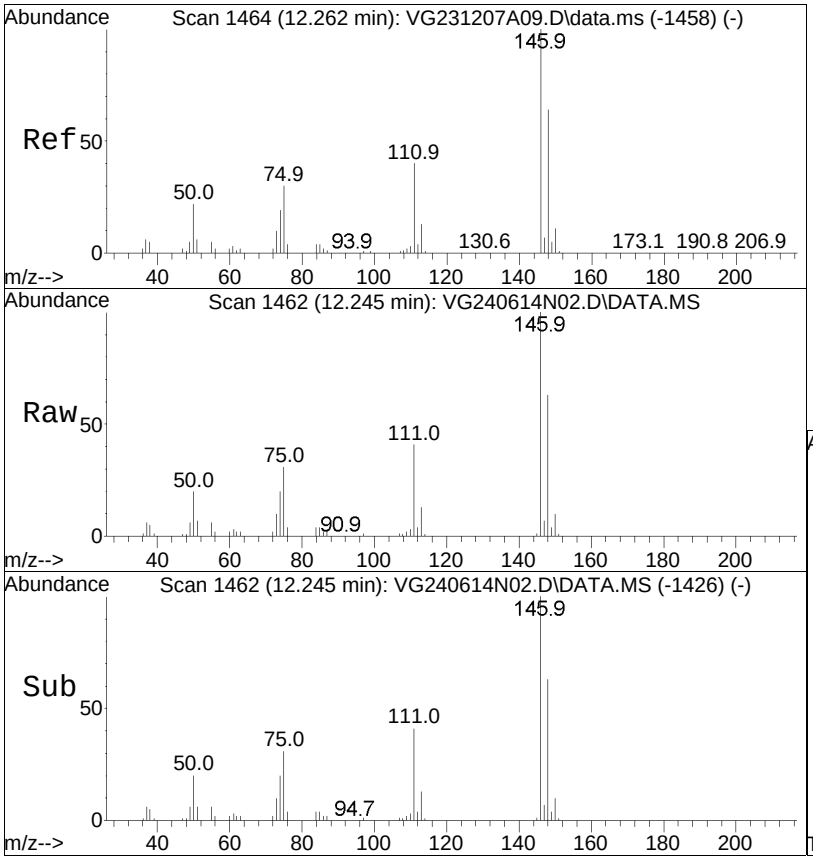


#87
1,1,2,2-Tetrachloroethane
Concen: 13.01 ug/L
RT: 11.365 min Scan# 1355
Delta R.T. 0.001 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion: 83 Resp: 134324

Ion	Ratio	Lower	Upper
83	100		
131	9.6	0.0	31.0
85	64.1	43.9	83.9

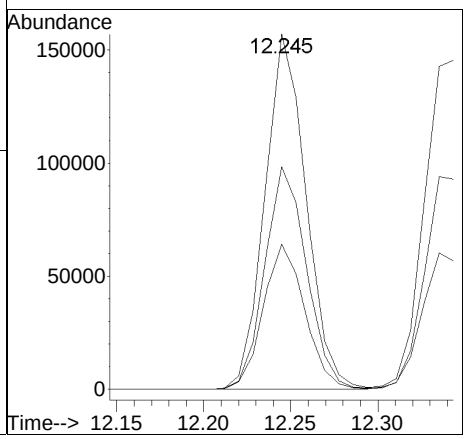


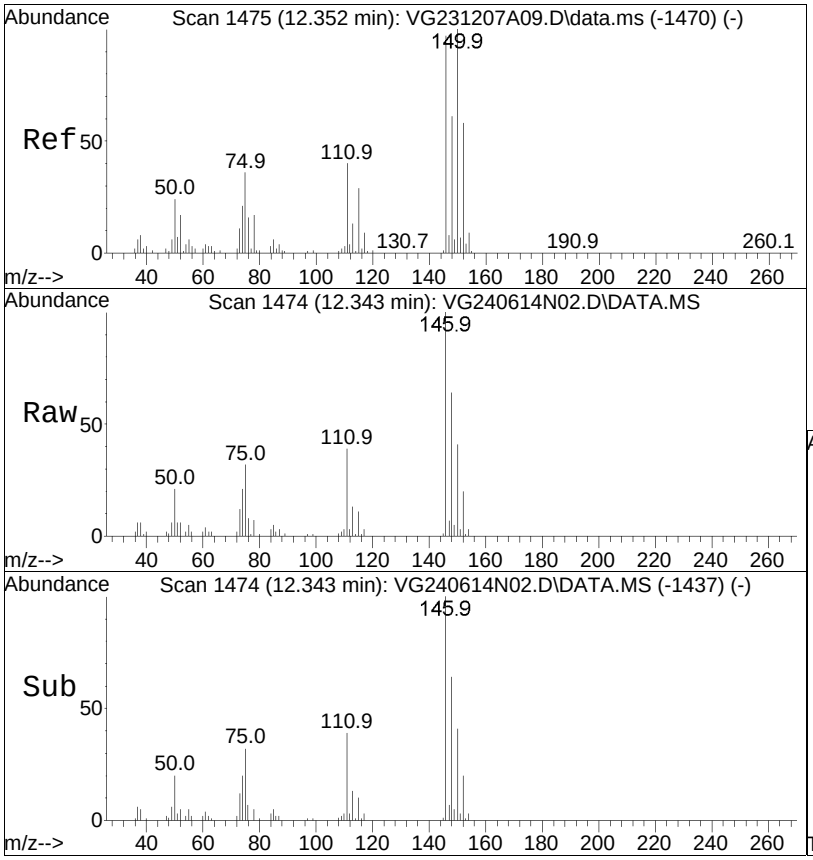


#100
1,3-Dichlorobenzene
Concen: 9.94 ug/L
RT: 12.245 min Scan# 1462
Delta R.T. -0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:146 Resp: 258177

Ion	Ratio	Lower	Upper
146	100		
111	41.5	24.4	50.6
148	63.7	41.0	85.2

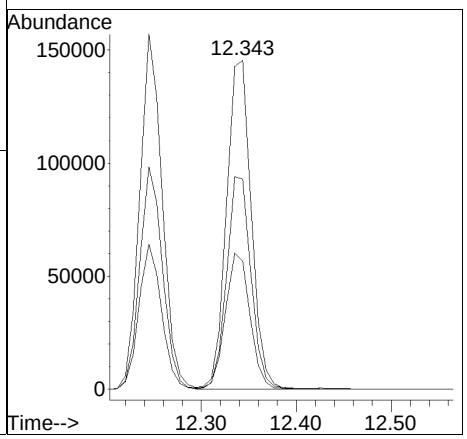


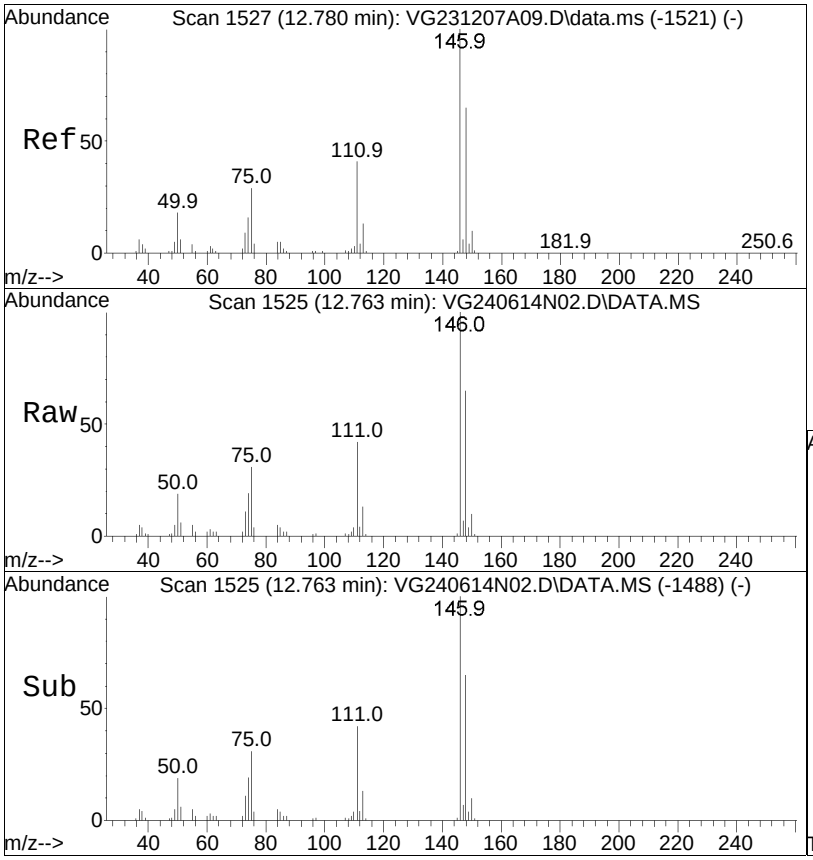


#101
1,4-Dichlorobenzene
Concen: 9.87 ug/L
RT: 12.343 min Scan# 1474
Delta R.T. 0.008 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:146 Resp: 265064

Ion	Ratio	Lower	Upper
146	100		
111	41.3	29.3	43.9
148	63.7	51.2	76.8

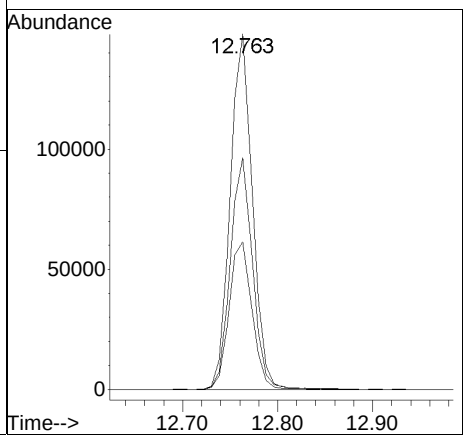


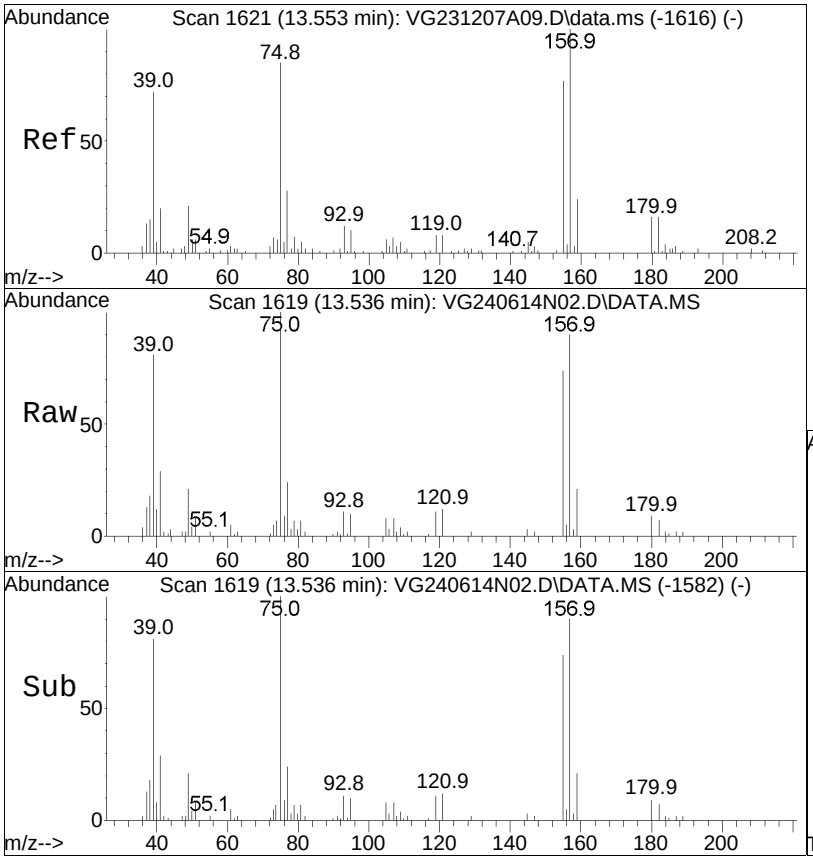


#104
1,2-Dichlorobenzene
Concen: 9.87 ug/L
RT: 12.763 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:146 Resp: 240826

Ion	Ratio	Lower	Upper
146	100		
111	42.9	25.4	52.8
148	65.0	41.7	86.5

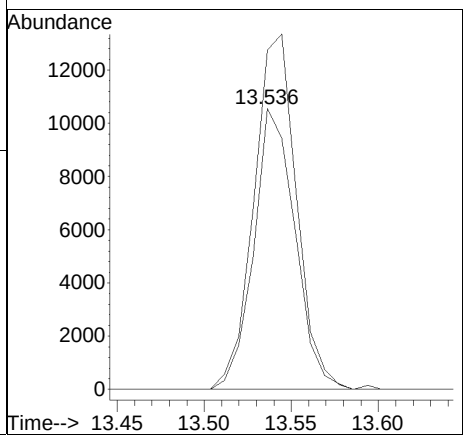


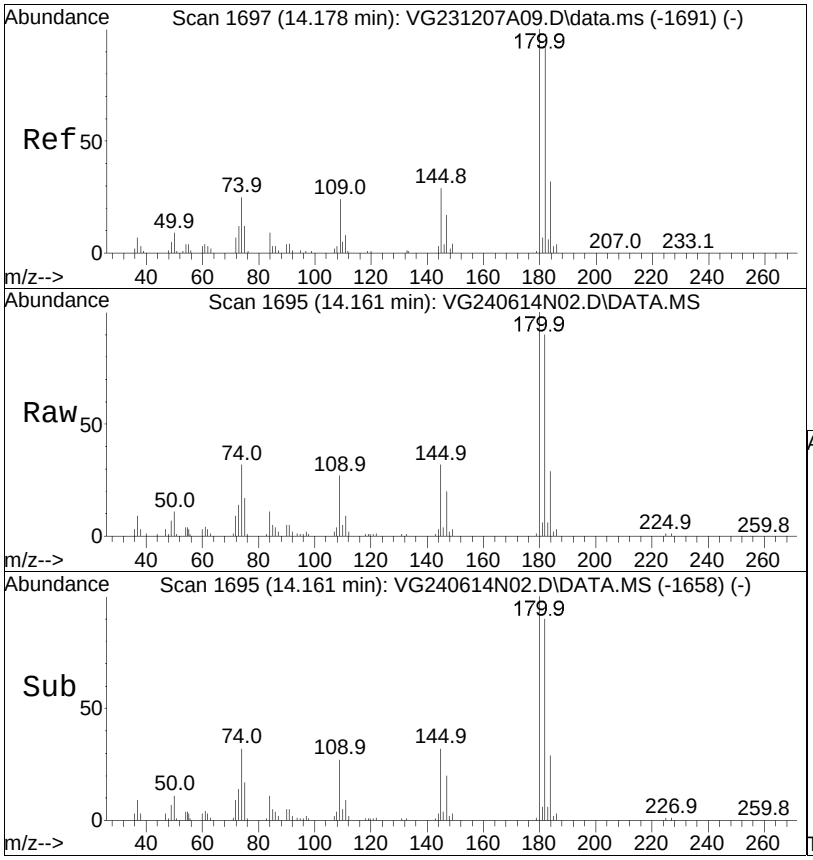


#106
1,2-Dibromo-3-chloropropane
Concen: 9.39 ug/L
RT: 13.536 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:155 Resp: 17370

Ion	Ratio	Lower	Upper
155	100		
157	131.0	99.9	149.9

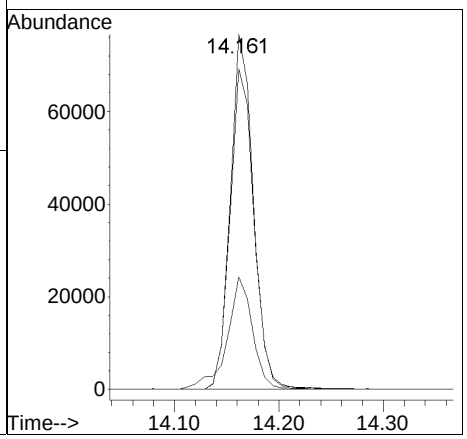


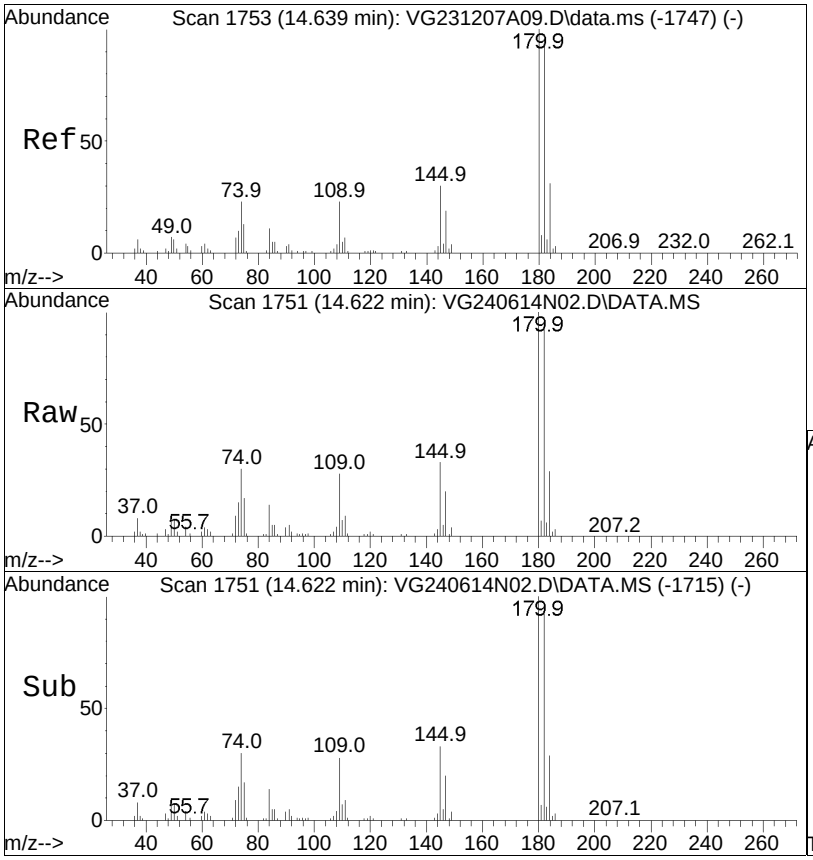


#109
1,2,4-Trichlorobenzene
Concen: 9.23 ug/L
RT: 14.161 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:180 Resp: 118129

Ion	Ratio	Lower	Upper
180	100		
182	93.3	76.7	115.1
145	34.9	26.5	39.7

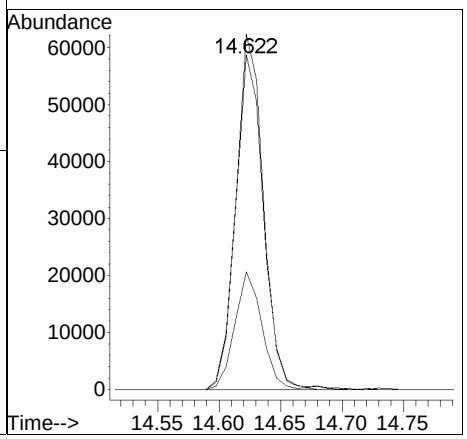




#111
1,2,3-Trichlorobenzene
Concen: 9.22 ug/L
RT: 14.622 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VG240614N02.D
Acq: 14 Jun 2024 6:40 pm

Tgt Ion:180 Resp: 96923

Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.0	115.4
145	32.7	24.1	36.1



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 09:50 am

Work Group: WG1935361 for Department: 31 GC/MS - Volatiles

Created: 17-JUN-24 Due: Operator: PID

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432563-01	EB-061124	S	NYTCL-8260-R2	WATER	DONE	U	0625	0618	3E	
L2432563-02	TRIP BLANK	S	NYTCL-8260-R2	WATER	DONE	U	0625	0618	3E	Vial-B
L2432633-01	MW-11S	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432633-02	MW-11D	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432633-03	MW-13S	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432633-04	MW-13D	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432633-05	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432692-01	1- SANITARY DISCHARGE - GRAB	S	NYTCL-8260-R2	WATER	SEC	U	0624	0618	S0	Vial-B
L2432734-01	MW-05B_20240611	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432734-02	MW-08B_20240611	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432734-03	MW-X_20240611	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432734-04	FIELD BLANK_20240611	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432734-05	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
L2432734-06	SW-17_20240611	S	NYTCL-8260	WATER	DONE	U	0625	0618	S0	Vial-B
WG1935361-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1935361-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1935361-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1935361-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1935361-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1935361-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1935361-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1935361-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1935361-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1935361-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1935361-4 WG1935361-3

Inst: Gonzo
Initials: MAG
Date: **05/09/24**
Run: **A**

BFB: V10391
IS/SS: V10405
ICAL: V10408A,V10416
ICV: V10412, V10376, V10378, V10411, V10400, V10413

Method
GC 8260_RTX_VMS
Autosampler: 8260
Concentrator: 8260

QC: ____ Seq:

Vial	DATA FILE	SAMPLE	pH<2
1	VG240509ABF2	BFB TUNE	
1	VG240509A01	BLK	
2	VG240509A02	BLK	
3	VG240509A03	I8260STD0.19PPB	
4	VG240509A04	I8260STD0.19PPB	
5	VG240509A05	I8260STD0.5PPB	
6	VG240509A06	I8260STD0.5PPB	
7	VG240509A07	I8260STD2PPB	
8	VG240509A08	I8260STD10PPB	
9	VG240509A09	I8260STD30PPB	
10	VG240509A10	I8260STD80PPB	
11	VG240509A11	I8260STD120PPB	
12	VG240509A12	I8260STD200PPB	
13	VG240509A13	BLK	
14	VG240509A14	BLK	
15	VG240509A15	BLK	
16	VG240509A16	BLK	
17	VG240509A17	C8260STD10PPB	
18	VG240509A18	C8260STD10PPB	
19	VG240509A19	BLK	
20	VG240509A20	BLK	
21	VG240509A21	METHOD BLK	
22	VG240509A22	MDL LVL 1	
23	VG240509A23	MDL LVL 1	
24	VG240509A24	MDL LVL 2	
25	VG240509A25	MDL LVL 2	
26	VG240509A26	BLK	
27	VG240509A27	BLK	

Inst: Gonzo
Initials: LAC
Date: **06/14/24**
Run: **N**

BFB: V10453
IS/SS: V10477
ICAL: V10450C,V10478

Method
GC 8260_RTX_VMS
Autosampler: 8260
Concentrator: 8260

QC: ____ Seq:

Vial	DATA FILE	SAMPLE			pH<2
1	VG240614NBF1	BFB TUNE			
1	VG240614N01	8260 CCAL			
2	VG240614N02	8260 CCAL			
3	VG240614N03	8260 CCAL			
4	VG240614N04	BLK			
5	VG240614N05	METHOD BLANK			
6	VG240614N06	I2432563-01,31,10,10,,a,r3e	NYCURVE		pH<2
7	VG240614N07	L2432563-02,31,10,10,,A,R3E	NYCURVE	TB	pH<2
8	VG240614N08	L2432633-05,31,10,10,,A	NYCURVE	TB	pH<2
9	VG240614N09	L2432633-04,31,10,10,,A	NYCURVE		pH<2
10	VG240614N10	L2432633-03,31,10,10,,A	NYCURVE		pH<2
11	VG240614N11	L2432633-02,31,10,10,,A	NYCURVE		pH<2
12	VG240614N12	L2432633-01,31,10,10,,A	NYCURVE		pH<2
13	VG240614N13	L2432734-01,31,10,10,,A,R3D	NYTCL		pH<2
14	VG240614N14	L2432734-02,31,10,10,,A,R3D	NYTCL		pH<2
15	VG240614N15	L2432734-03,31,10,10,,A,R3D	NYTCL		pH<2
16	VG240614N16	L2432734-04,31,10,10,,A,R3D	NYTCL	FB	pH<2
17	VG240614N17	L2432734-05,31,10,10,,A,R3D	NYTCL	TB	pH<2
18	VG240614N18	L2432734-06,31,10,10,,A,R3D	NYTCL		pH<2
19	VG240614N19	L2432692-01,31,10,10,,A	NY-R2		pH<2
20	VG240614N20	L2432570-01,31,10,10,,A,R3C	NJ/CB,12DCA,BENZ		pH<2
21	VG240614N21	L2432570-03,31,10,10,,A,R3C	NJ/CB,12DCA,BENZ		pH<2
22	VG240614N22	L2432570-05,31,10,10,,A,R3C	NJ/CB,12DCA,BENZ		pH<2
23	VG240614N23	L2432570-07,31,10,10,,A,R3C	NJ/CB,12DCA,BENZ	TB	pH<2
24	VG240614N24	L2432635-01,31,10,10,,A,R1A	PASHORT		pH<2
25	VG240614N25	I2432635-02D,31,5.0,10,,a,r1a	PASHORT		pH<2
26	VG240614N26	BLK			
27	VG240614N27	BLK			
28	VG240614N28	BLK			
29	VG240614N29	BLK			
30	VG240614N30	HCL LOT TEST 2759			
31	VG240614N31	HCL LOT TEST 2759			
32	VG240614N32	HSTD			
33	VG240614N33	BLK			
34	VG240614N34	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-11S (L2432633-01)	30	29	76	69	38	78	0
MW-11D (L2432633-02)	41	27	59	51	63	66	0
MW-13S (L2432633-03)	41	35	80	71	55	83	0
MW-13D (L2432633-04)	13*	13	78	68	28	75	1
WG1934773-1BLANK	55	42	66	62	75	77	0
WG1934773-2LCS	34	43	74	66	47	76	0
WG1934773-3LCSD	54	47	72	65	78	76	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934773-2 **Analysis Date** : 06/17/24 10:20	**File ID**	: 934766-2
LCSD Sample ID	: WG1934773-3 **Analysis Date** : 06/17/24 10:44	**File ID**	: 934766-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	17.	84	20	18.	88	5	40-140	30
2,4-Dinitrotoluene	20	17.	87	20	17.	84	4	48-143	30
2,6-Dinitrotoluene	20	17.	87	20	17.	84	4	40-140	30
4-Chlorophenyl phenyl ether	20	14.	70	20	14.	68	3	40-140	30
4-Bromophenyl phenyl ether	20	15.	73	20	14.	71	3	40-140	30
Bis(2-chloroisopropyl)ether	20	14.	68	20	13.	63	8	40-140	30
Bis(2-chloroethoxy)methane	20	16.	80	20	15.	75	6	40-140	30
Hexachlorocyclopentadiene	20	8.6	43	20	8.6	43	0	40-140	30
Isophorone	20	15.	76	20	15.	75	1	40-140	30
Nitrobenzene	20	14.	72	20	14.	70	3	40-140	30
NDPA/DPA	20	14.	69	20	15.	77	11	40-140	30
n-Nitrosodi-n-propylamine	20	15.	76	20	14.	70	8	29-132	30
Bis(2-ethylhexyl)phthalate	20	23.	116	20	23.	115	1	40-140	30
Butyl benzyl phthalate	20	21.	107	20	21.	106	1	40-140	30
Di-n-butylphthalate	20	20.	98	20	20.	98	0	40-140	30
Di-n-octylphthalate	20	24.	120	20	23.	116	3	40-140	30
Diethyl phthalate	20	18.	92	20	18.	88	4	40-140	30
Dimethyl phthalate	20	16.	81	20	16.	78	4	40-140	30
Biphenyl	20	13.	65	20	12.	61	6	40-140	30
4-Chloroaniline	20	13.	65	20	13.	63	3	40-140	30
2-Nitroaniline	20	18.	88	20	16.	83	6	52-143	30
3-Nitroaniline	20	18.	92	20	17.	86	7	25-145	30
4-Nitroaniline	20	18.	93	20	18.	88	6	51-143	30
Dibenzofuran	20	14.	71	20	13.	67	6	40-140	30
1,2,4,5-Tetrachlorobenzene	20	10.	52	20	10.	50	4	2-134	30
Acetophenone	20	16.	78	20	15.	73	7	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934773-2 **Analysis Date** : 06/17/24 10:20	**File ID**	: 934766-2
LCSD Sample ID	: WG1934773-3 **Analysis Date** : 06/17/24 10:44	**File ID**	: 934766-3

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	8.7	44	20	15.	76	53	Q	30-130	30
p-Chloro-m-cresol	20	16.	78	20	16.	78	0		23-97	30
2-Chlorophenol	20	12.	58	20	14.	72	22		27-123	30
2,4-Dichlorophenol	20	11.	54	20	15.	74	31	Q	30-130	30
2,4-Dimethylphenol	20	9.1	46	20	13.	66	36	Q	30-130	30
2-Nitrophenol	20	11.	55	20	15.	76	32	Q	30-130	30
4-Nitrophenol	20	7.3	37	20	10.	50	30		10-80	30
2,4-Dinitrophenol	20	10.	50	20	11.	54	8		20-130	30
4,6-Dinitro-o-cresol	20	10.	50	20	14.	71	35	Q	20-164	30
Phenol	20	8.8	44	20	9.4	47	7		12-110	30
2-Methylphenol	20	15.	73	20	14.	72	1		30-130	30
3-Methylphenol/4-Methylphenol	20	14.	68	20	14.	69	1		30-130	30
2,4,5-Trichlorophenol	20	8.8	44	20	15.	73	50	Q	30-130	30
Carbazole	20	17.	83	20	16.	82	1		55-144	30
Atrazine	20	18.	88	20	18.	89	1		40-140	30
Benzaldehyde	20	15.	74	20	14.	68	8		40-140	30
Caprolactam	20	7.1	36	20	7.0	35	3		10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934773-1	**Lab File ID**	: 934766-1
Instrument ID	: SV106	**Extraction Date**	: 06/15/24
Matrix	: WATER	**Analysis Date**	: 06/17/24 09:57
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1934773-2LCS	WG1934773-2	06/17/24 10:20
WG1934773-3LCSD	WG1934773-3	06/17/24 10:44
MW-13D	L2432633-04	06/17/24 16:38
MW-13S	L2432633-03	06/17/24 17:02
MW-11D	L2432633-02	06/17/24 17:26
MW-11S	L2432633-01	06/17/24 17:49

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 04/18/24 20:26
Tune Standard	: R1819925-31	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	48.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	61.6
443	15.0 - 24.0% of mass 442	12.4 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1819925-9	ABNL9	04/18/24 20:50
ABNL8	R1819925-8	ABNL8	04/18/24 21:14
ABNL7	R1819925-7	ABNL7	04/18/24 21:39
ABNL6	R1819925-5	ABNL6	04/18/24 22:03
ABNL5	R1819925-6	ABNL5	04/18/24 22:27
ABNL4	R1819925-4	ABNL4	04/18/24 22:51
ABNL3	R1819925-3	ABNL3	04/18/24 23:15
ABNL2	R1819925-2	ABNL2	04/18/24 23:39
ABNL1	R1819925-1	ABNL1	04/19/24 00:04
AP9L9	R1819925-26	AP9L9	04/19/24 00:27
AP9L8	R1819925-27	AP9L8	04/19/24 00:51
AP9L7	R1819925-25	AP9L7	04/19/24 01:16
AP9L6	R1819925-24	AP9L6	04/19/24 01:39
AP9L5	R1819925-23	AP9L5	04/19/24 02:03
AP9L4	R1819925-21	AP9L4	04/19/24 02:28
AP9L3	R1819925-22	AP9L3	04/19/24 02:52
AP9L2	R1819925-19	AP9L2	04/19/24 03:16
AP9L1	R1819925-20	AP9L1	04/19/24 03:41
ABN ICV Quant Report	R1819925-29	ABNICV	04/19/24 04:04
AP9 ICV Quant Report	R1819925-30	AP9ICV	04/19/24 04:29

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 04/19/24 04:53
Tune Standard	: R1819925-32	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.7
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	16.1
442	Base Peak, or >50% of mass 198	68.8
443	15.0 - 24.0% of mass 442	13.4 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1819925-18	ADPL9	04/19/24 05:17
ADPL8	R1819925-17	ADPL8	04/19/24 05:41
ADPL7	R1819925-16	ADPL7	04/19/24 06:05
ADPL6	R1819925-15	ADPL6	04/19/24 06:29
ADPL5	R1819925-14	ADPL5	04/19/24 06:52
ADPL4	R1819925-13	ADPL4	04/19/24 07:16
ADPL3	R1819925-11	ADPL3	04/19/24 07:40
ADPL2	R1819925-12	ADPL2	04/19/24 08:04
ADPL1	R1819925-10	ADPL1	04/19/24 08:27
ADP ICV Quant Report	R1819925-28	ADPICV	04/19/24 08:51

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/17/24 08:22
Tune Standard	: WG1935225-1	**Tune File ID**	: DEG0617_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.2
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	23
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	15.7
442	Base Peak, or >50% of mass 198	62.4
443	15.0 - 24.0% of mass 442	11.9 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935225-6TFACTOR-B	WG1935225-6	DEG0617	06/17/24 08:22
WG1935225-7TFACTOR-P	WG1935225-7	DEG0617	06/17/24 08:22
WG1935225-3CCAL	WG1935225-3	ABN0617	06/17/24 08:45
WG1935225-5CCAL	WG1935225-5	ADP0617	06/17/24 09:09
WG1935225-4CCAL	WG1935225-4	AP90617	06/17/24 09:33
WG1934773-1BLANK	WG1934773-1	934766-1	06/17/24 09:57
WG1934773-2LCS	WG1934773-2	934766-2	06/17/24 10:20
WG1934773-3LCSD	WG1934773-3	934766-3	06/17/24 10:44
MW-13D	L2432633-04	32633-04	06/17/24 16:38
MW-13S	L2432633-03	32633-03	06/17/24 17:02
MW-11D	L2432633-02	32633-02	06/17/24 17:26
MW-11S	L2432633-01	32633-01	06/17/24 17:49

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/17/24 08:45:00
Sample No	: WG1935225-3	**Lab File ID**	: ABN0617

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1935225-3	84755	4.93	322983	6.67	215292	8.45
Upper Limit	169510	5.43	645966	7.17	430584	8.95
Lower Limit	42378	4.43	161492	6.17	107646	7.95
Sample ID						
WG1935225-5 CCAL	71151	4.94	-	-	161219	8.45
WG1935225-4 CCAL	73522	4.94	271609	6.67	175707	8.45
WG1934773-1 BLANK	76643	4.94	279395	6.67	174818	8.45
WG1934773-2 LCS	76794	4.94	285116	6.67	182589	8.45
WG1934773-3 LCSD	82314	4.93	300199	6.67	193833	8.45
MW-13D	77044	4.93	278069	6.67	172471	8.45
MW-13S	77746	4.94	279496	6.67	172692	8.45
MW-11D	79031	4.94	277000	6.67	174179	8.45
MW-11S	82068	4.94	287242	6.67	183038	8.45

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/17/24 08:45:00
Sample No	: WG1935225-3	**Lab File ID**	: ABN0617

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1935225-3	459399	9.85	399251	12.35	419339	13.68
Upper Limit	918798	10.35	798502	12.85	838678	14.18
Lower Limit	229700	9.35	199626	11.85	209670	13.18
Sample ID						
WG1935225-5 CCAL	350424	9.85	-	-	-	-
WG1935225-4 CCAL	400927	9.85	-	-	-	-
WG1934773-1 BLANK	369217	9.85	331989	12.34	383182	13.68
WG1934773-2 LCS	401101	9.85	351772	12.34	378332	13.68
WG1934773-3 LCSD	419381	9.85	365075	12.34	398892	13.68
MW-13D	369509	9.85	329630	12.34	375842	13.68
MW-13S	369750	9.85	334380	12.34	374384	13.67
MW-11D	371967	9.85	334813	12.34	386389	13.67
MW-11S	392322	9.85	353351	12.34	384384	13.67

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:49
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-01	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:49
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-01	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:26
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-02	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:26
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-02	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:02
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:02
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.2	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 16:38
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 16:38
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 32633-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934773-1	**Date Collected**	: NA
Client ID	: WG1934773-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 09:57
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 934766-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934773-1	**Date Collected**	: NA
Client ID	: WG1934773-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 09:57
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 934766-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 4:38 pm
Operator : SV106:ek
Sample : L2432633-04,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 17 18:40:14 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 16:58:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.931	152	77044	4.000	ug/ml	0.00
Standard Area 1 = 84755			Recovery = 90.90%			
27) IS2_1,4-Dichlorobenzen...	4.931	152	77044	4.000	ug/ml	0.00
Standard Area 3 = 73522			Recovery = 104.79%			
34) IS1_Naphthalene-d8	6.666	136	278069	4.000	ug/ml	# 0.00
Standard Area 1 = 322983			Recovery = 86.09%			
54) IS2_Naphthalene-d8	6.666	136	278069	4.000	ug/ml	# 0.00
Standard Area 3 = 271609			Recovery = 102.38%			
62) IS1_Acenaphthene-d10	8.454	164	172471	4.000	ug/ml	0.00
Standard Area 1 = 215292			Recovery = 80.11%			
82) IS2_Acenaphthene-d10	8.454	164	172471	4.000	ug/ml	0.00
Standard Area 3 = 175707			Recovery = 98.16%			
85) IS3_Acenaphthene-d10	8.454	164	172471	4.000	ug/ml	0.00
Standard Area 2 = 161219			Recovery = 106.98%			
87) IS1_Phenanthrene-d10	9.848	188	369509	4.000	ug/ml	# 0.00
Standard Area 1 = 459399			Recovery = 80.43%			
99) IS3_Phenanthrene-d10	9.848	188	369509	4.000	ug/ml	# 0.00
Standard Area 2 = 350424			Recovery = 105.45%			
103) IS1_Chrysene-d12	12.342	240	329630	4.000	ug/ml	0.00
Standard Area 1 = 399251			Recovery = 82.56%			
112) IS1_Perylene-d12	13.677	264	375842	4.000	ug/ml	0.00
Standard Area 1 = 419339			Recovery = 89.63%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.049	112	5566	0.256	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 12.80%#			
7) Phenol-d6	4.495	99	7249	0.258	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 12.90%#			
19) Nitrobenzene-d5	5.825	82	23379	0.776	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.60%			
45) 2-Fluorobiphenyl	7.848	172	43952	0.682	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.20%			
78) 2,4,6-Tribromophenol	9.207	330	5068	0.552	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.60%			
95) 4-Terphenyl-d14	11.419	244	59857	0.752	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 75.20%			

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 4:38 pm
Operator : SV106:ek
Sample : L2432633-04,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 17 18:40:14 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 16:58:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 4:38 pm
Operator : SV106:ek
Sample : L2432633-04,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 17 18:40:14 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 16:58:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

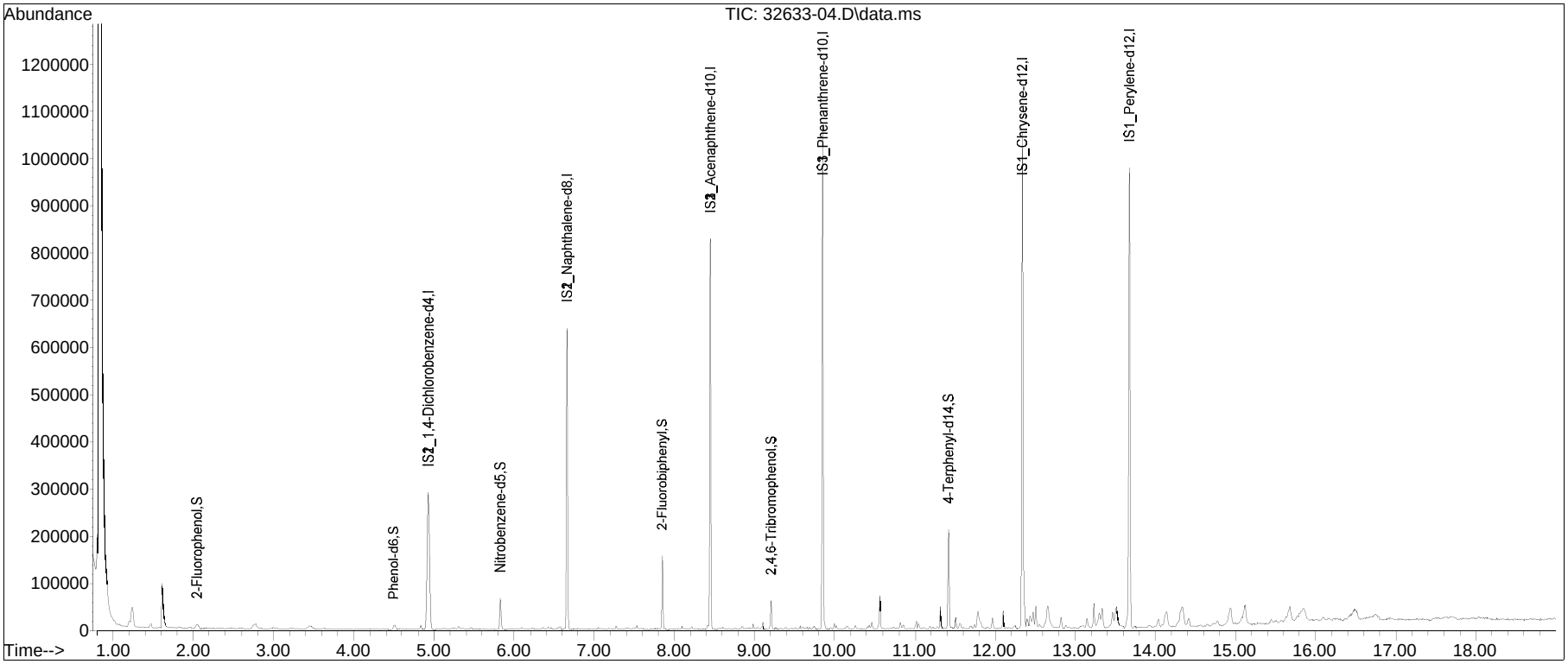
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 4:38 pm
Operator : SV106:ek
Sample : L2432633-04,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 17 18:40:14 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 16:58:13 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90617.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: 32633-04.D	Operator	: SV106:ek
Date Inj'd	: 6/17/2024 4:38 pm	Instrument	: SV 106
Sample	: L2432633-04,32,,HNY	Quant Date	: 6/17/2024 4:58 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 5:02 pm
Operator : SV106:ek
Sample : L2432633-03,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:33:58 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:23:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.937	152	77746	4.000	ug/ml		0.00
Standard Area 1 = 84755			Recovery = 91.73%				
27) IS2_1,4-Dichlorobenzen...	4.937	152	77746	4.000	ug/ml		0.00
Standard Area 3 = 73522			Recovery = 105.75%				
34) IS1_Naphthalene-d8	6.666	136	279496	4.000	ug/ml	#	0.00
Standard Area 1 = 322983			Recovery = 86.54%				
54) IS2_Naphthalene-d8	6.666	136	279496	4.000	ug/ml	#	0.00
Standard Area 3 = 271609			Recovery = 102.90%				
62) IS1_Acenaphthene-d10	8.454	164	172692	4.000	ug/ml		0.00
Standard Area 1 = 215292			Recovery = 80.21%				
82) IS2_Acenaphthene-d10	8.454	164	172692	4.000	ug/ml		0.00
Standard Area 3 = 175707			Recovery = 98.28%				
85) IS3_Acenaphthene-d10	8.454	164	172692	4.000	ug/ml		0.00
Standard Area 2 = 161219			Recovery = 107.12%				
87) IS1_Phenanthrene-d10	9.848	188	369750	4.000	ug/ml		0.00
Standard Area 1 = 459399			Recovery = 80.49%				
99) IS3_Phenanthrene-d10	9.848	188	369750	4.000	ug/ml		0.00
Standard Area 2 = 350424			Recovery = 105.52%				
103) IS1_Chrysene-d12	12.342	240	334380	4.000	ug/ml		0.00
Standard Area 1 = 399251			Recovery = 83.75%				
112) IS1_Perylene-d12	13.671	264	374384	4.000	ug/ml		0.00
Standard Area 1 = 419339			Recovery = 89.28%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.055	112	17919	0.815	ug/ml		0.03
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.75%				
7) Phenol-d6	4.501	99	19627	0.691	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.55%				
19) Nitrobenzene-d5	5.825	82	24439	0.804	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 80.40%				
45) 2-Fluorobiphenyl	7.848	172	46158	0.712	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.20%				
78) 2,4,6-Tribromophenol	9.207	330	10021	1.091	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 54.55%				
95) 4-Terphenyl-d14	11.419	244	66085	0.830	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 83.00%				

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 5:02 pm
Operator : SV106:ek
Sample : L2432633-03,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:33:58 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:23:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.531	94	6585	0.218	ug/ml#	87
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 5:02 pm
Operator : SV106:ek
Sample : L2432633-03,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:33:58 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:23:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

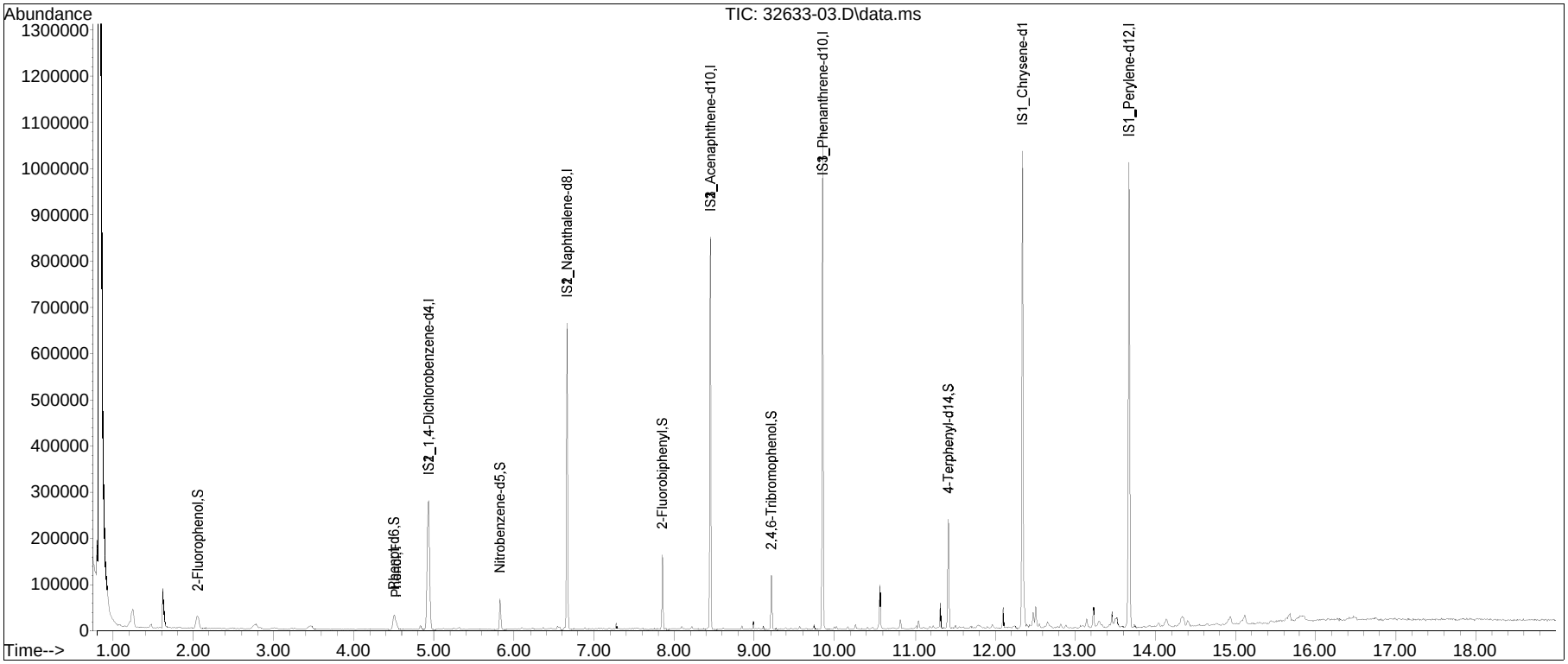
(#) = qualifier out of range (m) = manual integration (+) = signals summed

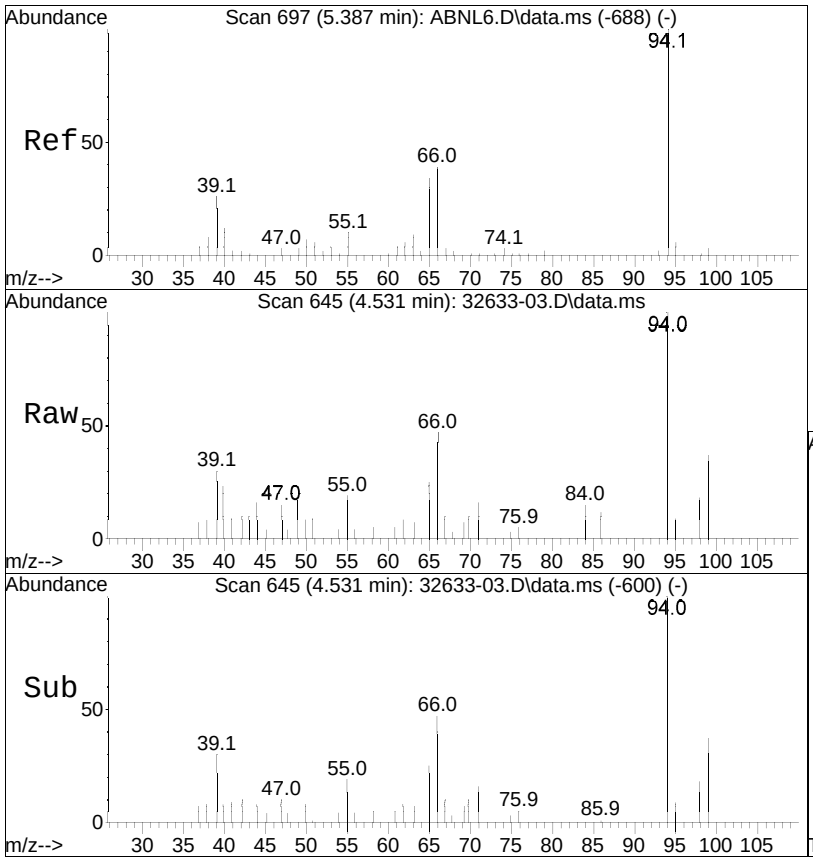
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 5:02 pm
Operator : SV106:ek
Sample : L2432633-03,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:33:58 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:23:23 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90617.D•

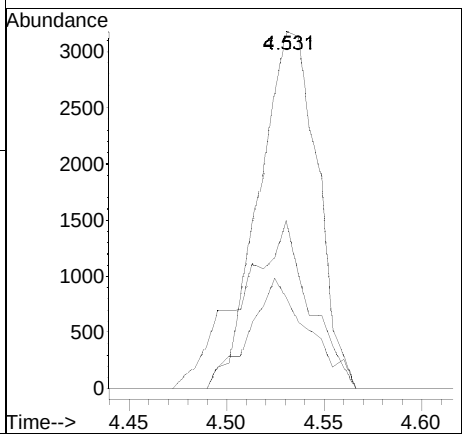




#8
Phenol
Concen: 0.22 ug/ml
RT: 4.531 min Scan# 645
Delta R.T. 0.012 min
Lab File: 32633-03.D
Acq: 17 Jun 2024 5:02 pm

Tgt Ion: 94 Resp: 6585

Ion	Ratio	Lower	Upper
94	100		
65	31.7	26.0	39.0
66	56.3	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: 32633-03.D	Operator	: SV106:ek
Date Inj'd	: 6/17/2024 5:02 pm	Instrument	: SV 106
Sample	: L2432633-03,32,,HNY	Quant Date	: 6/17/2024 5:23 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 5:26 pm
Operator : SV106:ek
Sample : L2432633-02,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 17 18:33:22 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:45:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.936	152	79031	4.000	ug/ml		0.00
Standard Area 1 = 84755			Recovery = 93.25%				
27) IS2_1,4-Dichlorobenzen...	4.936	152	79031	4.000	ug/ml		0.00
Standard Area 3 = 73522			Recovery = 107.49%				
34) IS1_Naphthalene-d8	6.666	136	277000	4.000	ug/ml	#	0.00
Standard Area 1 = 322983			Recovery = 85.76%				
54) IS2_Naphthalene-d8	6.666	136	277000	4.000	ug/ml	#	0.00
Standard Area 3 = 271609			Recovery = 101.98%				
62) IS1_Acenaphthene-d10	8.454	164	174179	4.000	ug/ml		0.00
Standard Area 1 = 215292			Recovery = 80.90%				
82) IS2_Acenaphthene-d10	8.454	164	174179	4.000	ug/ml		0.00
Standard Area 3 = 175707			Recovery = 99.13%				
85) IS3_Acenaphthene-d10	8.454	164	174179	4.000	ug/ml		0.00
Standard Area 2 = 161219			Recovery = 108.04%				
87) IS1_Phenanthrene-d10	9.848	188	371967	4.000	ug/ml		0.00
Standard Area 1 = 459399			Recovery = 80.97%				
99) IS3_Phenanthrene-d10	9.848	188	371967	4.000	ug/ml		0.00
Standard Area 2 = 350424			Recovery = 106.15%				
103) IS1_Chrysene-d12	12.342	240	334813	4.000	ug/ml		0.00
Standard Area 1 = 399251			Recovery = 83.86%				
112) IS1_Perylene-d12	13.671	264	386389	4.000	ug/ml		0.00
Standard Area 1 = 419339			Recovery = 92.14%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.043	112	18443	0.825	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.25%				
7) Phenol-d6	4.501	99	15807	0.548	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.40%				
19) Nitrobenzene-d5	5.825	82	18275	0.591	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.10%				
45) 2-Fluorobiphenyl	7.848	172	32918	0.512	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.20%				
78) 2,4,6-Tribromophenol	9.207	330	11693	1.262	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 63.10%				
95) 4-Terphenyl-d14	11.418	244	52633	0.657	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.70%				

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 5:26 pm
Operator : SV106:ek
Sample : L2432633-02,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 17 18:33:22 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:45:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 5:26 pm
Operator : SV106:ek
Sample : L2432633-02,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 17 18:33:22 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:45:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

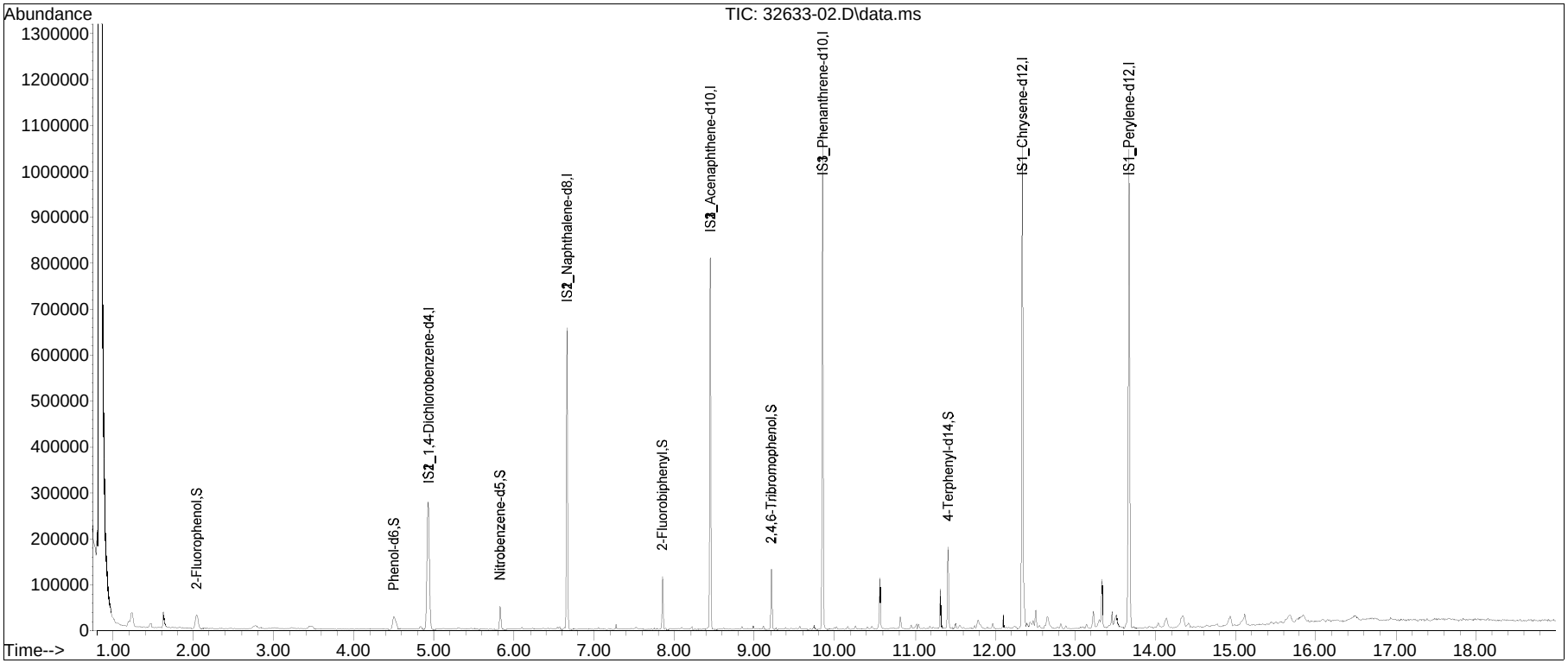
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 5:26 pm
Operator : SV106:ek
Sample : L2432633-02,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 17 18:33:22 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 17:45:53 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90617.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: 32633-02.D	Operator	: SV106:ek
Date Inj'd	: 6/17/2024 5:26 pm	Instrument	: SV 106
Sample	: L2432633-02,32,,HNY	Quant Date	: 6/17/2024 5:45 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 5:49 pm
Operator : SV106:ek
Sample : L2432633-01,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 18:33:08 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 18:09:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.937	152	82068	4.000	ug/ml		0.00
Standard Area 1 = 84755			Recovery = 96.83%				
27) IS2_1,4-Dichlorobenzen...	4.937	152	82068	4.000	ug/ml		0.00
Standard Area 3 = 73522			Recovery = 111.62%				
34) IS1_Naphthalene-d8	6.666	136	287242	4.000	ug/ml	#	0.00
Standard Area 1 = 322983			Recovery = 88.93%				
54) IS2_Naphthalene-d8	6.666	136	287242	4.000	ug/ml	#	0.00
Standard Area 3 = 271609			Recovery = 105.76%				
62) IS1_Acenaphthene-d10	8.454	164	183038	4.000	ug/ml		0.00
Standard Area 1 = 215292			Recovery = 85.02%				
82) IS2_Acenaphthene-d10	8.454	164	183038	4.000	ug/ml		0.00
Standard Area 3 = 175707			Recovery = 104.17%				
85) IS3_Acenaphthene-d10	8.454	164	183038	4.000	ug/ml		0.00
Standard Area 2 = 161219			Recovery = 113.53%				
87) IS1_Phenanthrene-d10	9.848	188	392322	4.000	ug/ml		0.00
Standard Area 1 = 459399			Recovery = 85.40%				
99) IS3_Phenanthrene-d10	9.848	188	392322	4.000	ug/ml		0.00
Standard Area 2 = 350424			Recovery = 111.96%				
103) IS1_Chrysene-d12	12.342	240	353351	4.000	ug/ml		0.00
Standard Area 1 = 399251			Recovery = 88.50%				
112) IS1_Perylene-d12	13.671	264	384384	4.000	ug/ml		0.00
Standard Area 1 = 419339			Recovery = 91.66%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.043	112	14013	0.604	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.20%				
7) Phenol-d6	4.501	99	17406	0.581	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.05%				
19) Nitrobenzene-d5	5.825	82	24411	0.761	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 76.10%				
45) 2-Fluorobiphenyl	7.848	172	45602	0.685	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.50%				
78) 2,4,6-Tribromophenol	9.207	330	7446	0.765	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 38.25%				
95) 4-Terphenyl-d14	11.419	244	65516	0.775	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.50%				

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 5:49 pm
Operator : SV106:ek
Sample : L2432633-01,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 18:33:08 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 18:09:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 5:49 pm
Operator : SV106:ek
Sample : L2432633-01,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 18:33:08 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 18:09:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

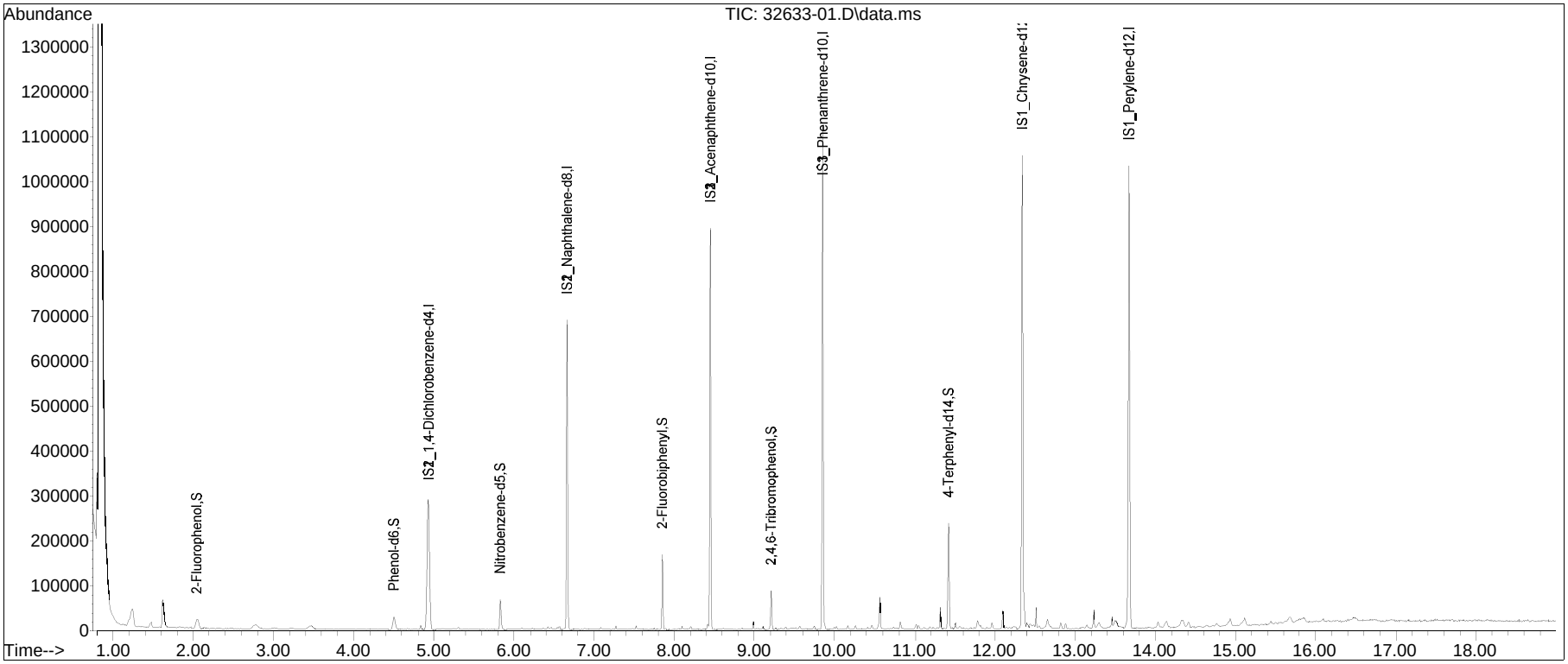
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 5:49 pm
Operator : SV106:ek
Sample : L2432633-01,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 18:33:08 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 18:09:53 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90617.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: 32633-01.D	Operator	: SV106:ek
Date Inj'd	: 6/17/2024 5:49 pm	Instrument	: SV 106
Sample	: L2432633-01,32,,HNY	Quant Date	: 6/17/2024 6:09 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.968	0.876	0.795	0.712	0.716	0.723	0.786	0.742	0.782	0.789	10.74
3)	t	Pyridine	1.136	1.084	1.172	1.015	1.203	1.217	1.311	1.188	1.300	1.181	8.03
4)	S	2-Fluorophenol	1.289	1.192	1.243	0.950	1.045	1.048	1.168	1.113	1.130	1.131	9.38
5)	T	Aniline	1.834	2.142	2.040	1.688	1.781	1.758	1.922	1.894	1.950	1.890	7.57
6)	t	2-Chlorophenol	1.323	1.334	1.263	1.096	1.133	1.181	1.255	1.236	1.244	1.230	6.52
7)	S	Phenol-d6	1.373	1.576	1.557	1.359	1.370	1.397	1.504	1.487	1.524	1.461	5.90
8)	T	Phenol	1.480	1.629	1.750	1.453	1.451	1.482	1.624	1.553	1.586	1.557	6.48
9)	T	bis(2-Chloroethyl)ether	1.240	1.284	1.284	1.181	1.184	1.171	1.264	1.218	1.234	1.229	3.56
10)	T	1,3-Dichlorobenzene	1.414	1.708	1.498	1.353	1.282	1.323	1.450	1.379	1.398	1.423	8.78
11)	T	1,4-Dichlorobenzene	1.682	1.802	1.617	1.324	1.337	1.326	1.454	1.407	1.428	1.486	11.65
12)	T	1,2-Dichlorobenzene	1.243	1.545	1.532	1.262	1.251	1.266	1.381	1.356	1.375	1.357	8.58
13)	t	Benzyl alcohol	1.190	1.197	1.234	1.110	1.093	1.148	1.244	1.232	1.253	1.189	4.99
14)	T	bis(2-chloroisopropyl)ether	1.917	2.024	1.974	1.726	1.655	1.719	1.809	1.765	1.763	1.817	6.94
15)	T	2-Methylphenol	1.320	1.082	1.146	0.988	1.016	1.032	1.138	1.108	1.137	1.108	8.89
16)	T	Hexachloroethane	0.633	0.623	0.632	0.569	0.596	0.581	0.607	0.605	0.607	0.606	3.58
17)	T	n-Nitrosodi-n-propylamine	1.033	1.166	1.043	0.992	0.928	1.003	1.060	1.029	1.055	1.034	6.17
18)	T	3-Methylphenol/4-Methylphenol	1.184	1.306	1.347	1.088	1.135	1.134	1.237	1.192	1.211	1.204	6.91
19)	S	Nitrobenzene-d5	1.535	1.656	1.696	1.494	1.413	1.503	1.613	1.569	1.598	1.564	5.62
20)	T	Nitrobenzene	1.591	1.594	1.498	1.357	1.418	1.477	1.566	1.518	1.526	1.505	5.25
21)	T	Isophorone	2.686	2.692	2.761	2.534	2.471	2.585	2.769	2.765	2.767	2.670	4.24
22)	T	2-Nitrophenol	0.649	0.665	0.613	0.575	0.554	0.583	0.661	0.646	0.655	0.622	6.76
23)	T	2,4-Dimethylphenol	1.246	1.452	1.261	1.163	1.186	1.207	1.288	1.262	1.283	1.261	6.64
24)	T	bis(2-Chloroethoxy)methane		1.999	1.703	1.642	1.542	1.563	1.681	1.632	1.639	1.675	8.46
25)	T	2,4-Dichlorophenol	1.109	1.283	1.158	1.068	1.060	1.117	1.200	1.173	1.175	1.149	6.05
26)	T	1,2,4-Trichlorobenzene	1.606	1.593	1.483	1.278	1.277	1.301	1.377	1.357	1.361	1.404	9.09
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.187	1.225	1.191	1.065	0.987	0.953	1.098	1.056	1.097	1.095	8.48
29)	T	Acetophenone		2.147	2.058	2.051	1.824	1.767	2.021	1.957	2.025	1.981	6.41
30)	T	m-Toluidine	1.323	1.563	1.758	1.661	1.696	1.641	1.849	1.806	1.867	1.685	10.02
31)	T	2-Chloroaniline	1.736	1.592	1.724	1.580	1.510	1.481	1.645	1.618	1.685	1.619	5.47
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.644	1.626	1.644	1.626	1.393	1.420	1.453	1.490	1.541	1.537	6.60
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.165	1.153	1.218	0.958	0.980	0.982	1.050	1.021	1.070	1.066	8.72
36)	T	Benzoic Acid		0.051	0.122	0.194	0.218	0.235	0.286	0.294	0.301	*Q	0.9984

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	4-Chloroaniline	0.167	0.156	0.177	0.151	0.150	0.152	0.163	0.161	0.164	0.160	5.52
38) T	Hexachlorobutadiene	0.328	0.316	0.306	0.240	0.250	0.250	0.262	0.255	0.266	0.275	11.91
39) T	p-Chloro-m-cresol	0.282	0.339	0.330	0.324	0.309	0.318	0.344	0.344	0.353	0.327	6.73
40) T	2-Methylnaphthalene	0.740	0.780	0.756	0.652	0.670	0.669	0.702	0.695	0.730	0.711	6.15
41) T	1-Methylnaphthalene	0.346	0.326	0.321	0.274	0.270	0.271	0.292	0.283	0.291	0.297	9.15
42) T	Hexachlorocyclopentadiene	0.268	0.249	0.278	0.256	0.257	0.260	0.292	0.291	0.306	0.273	7.22
43) T	2,4,6-Trichlorophenol	0.248	0.222	0.254	0.249	0.267	0.265	0.293	0.286	0.307	0.266	9.82
44) T	2,4,5-Trichlorophenol	0.251	0.314	0.299	0.263	0.269	0.286	0.305	0.305	0.311	0.289	7.93
45) S	2-Fluorobiphenyl	0.923	1.069	1.012	0.857	0.865	0.863	0.918	0.900	0.941	0.928	7.74
46) T	2-Chloronaphthalene		0.800	0.828	0.728	0.697	0.697	0.728	0.724	0.743	0.743	6.31
47) T	2-Nitroaniline			0.220	0.198	0.202	0.207	0.223	0.226	0.230	0.215	5.88
48) T	1,4-Dinitrobenzene		0.098	0.125	0.100	0.104	0.114	0.123	0.122	0.125	0.114	10.30
49) T	1,3-Dinitrobenzene			0.144	0.110	0.123	0.129	0.134	0.134	0.138	0.130	8.34
50) T	Dimethyl phthalate	1.003	1.133	1.024	0.939	0.928	0.938	0.962	0.946	0.965	0.982	6.59
51) T	Acenaphthylene	1.209	1.240	1.215	1.058	1.093	1.092	1.163	1.136	1.193	1.155	5.56
52) T	2,6-Dinitrotoluene	0.233	0.186	0.178	0.182	0.184	0.191	0.207	0.197	0.217	0.197	9.35
53) T	1,2-Dinitrobenzene	0.060	0.068	0.092	0.074	0.077	0.077	0.087	0.082	0.081	0.078	12.39
54) I	IS2_Naphthalene-d8	----------ISTD----------										
55) T	a-Terpineol	0.277	0.368	0.336	0.322	0.314	0.310	0.337	0.350	0.361	0.330	8.61
56) T	3-Chloroaniline	0.155	0.164	0.189	0.173	0.186	0.180	0.192	0.192	0.200	0.181	8.08
57) T	2,6-Dichlorophenol	0.297	0.280	0.307	0.288	0.287	0.277	0.308	0.323	0.329	0.300	6.18
58) T	1-chloro-2-nitrobenzene	0.201	0.180	0.174	0.169	0.162	0.151	0.162	0.171	0.175	0.172	8.12
59) T	Caprolactam	0.183	0.173	0.162	0.176	0.166	0.162	0.178	0.192	0.192	0.176	6.52
60) T	1,2,4,5-Tetrachlorobenzene	0.439	0.495	0.482	0.490	0.445	0.419	0.446	0.458	0.473	0.461	5.63
61) T	Biphenyl	0.930	0.904	0.863	0.950	0.866	0.851	0.888	0.924	0.935	0.901	3.98
62) I	IS1_Acenaphthene-d10	----------ISTD----------										
63) T	3-Nitroaniline	0.282	0.314	0.289	0.270	0.287	0.277	0.316	0.300	0.300	0.293	5.44
64) T	Acenaphthene	1.017	1.029	1.030	0.974	0.959	0.922	1.006	0.966	1.011	0.991	3.73
65) T	2,4-Dinitrophenol			0.100	0.133	0.153	0.160	0.195	0.191	0.200	*L	0.9983
66) T	Dibenzofuran	2.055	1.905	1.857	1.609	1.626	1.531	1.684	1.650	1.690	1.734	9.71
67) T	2,4-Dinitrotoluene	0.320	0.379	0.454	0.374	0.400	0.396	0.422	0.414	0.425	0.398	9.63
68) T	4-Nitrophenol	0.291	0.273	0.283	0.276	0.324	0.318	0.357	0.349	0.357	0.314	11.08
69) T	2,3,5,6-Tetrachlorophenol	0.262	0.319	0.327	0.350	0.350	0.362	0.404	0.395	0.405	0.353	13.21
70) T	2,3,4,6-Tetrachlorophenol	0.276	0.276	0.371	0.344	0.350	0.343	0.385	0.377	0.394	0.346	12.61
71) T	Diethyl phthalate	1.346	1.526	1.544	1.418	1.424	1.380	1.468	1.430	1.451	1.443	4.41
72) T	Fluorene	1.451	1.481	1.419	1.362	1.278	1.240	1.348	1.327	1.358	1.363	5.74

Initial Calibration Summary
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Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	4-Chlorophenyl-phenylether	0.832	0.753	0.779	0.703	0.673	0.641	0.697	0.679	0.694	0.717	8.35	
74)	T	4-Nitroaniline	0.262	0.260	0.305	0.291	0.280	0.285	0.308	0.297	0.293	0.287	5.96	
75)	T	4,6-Dinitro-o-cresol			0.193	0.194	0.213	0.220	0.247	0.252	0.252	0.224	11.59	
76)	T	NDPA/DPA	1.230	1.164	1.131	1.082	1.081	1.056	1.125	1.096	1.134	1.122	4.68	
77)	T	Azobenzene	1.457	1.513	1.576	1.327	1.326	1.323	1.417	1.352	1.577	1.430	7.40	
78)	S	2,4,6-Tribromophenol	0.180	0.190	0.253	0.193	0.212	0.206	0.229	0.224	0.229	0.213	10.99	
79)	T	4-Bromophenyl-phenylether	0.449	0.453	0.478	0.404	0.411	0.393	0.425	0.407	0.424	0.427	6.48	
80)	T	Hexachlorobenzene	0.546	0.588	0.506	0.454	0.480	0.438	0.478	0.470	0.490	0.494	9.46	
81)	T	Pentachlorophenol			0.255	0.243	0.278	0.278	0.316	0.313	0.334	0.288	11.69	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran	0.147	0.202	0.158	0.168	0.179	0.185	0.213	0.225	0.244	0.191	16.87	
84)	T	Pentachloronitrobenzene	0.286	0.188	0.213	0.217	0.203	0.214	0.244	0.257	0.266	0.232	14.07	
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.367	0.342	0.372	0.438	0.387	0.393	0.432	0.437	0.457	0.403	9.76	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.117	1.125	1.020	0.922	0.915	0.876	0.966	0.953	0.993	0.988	8.80	
89)	T	Anthracene	1.021	1.052	0.998	0.931	0.922	0.888	0.996	0.971	1.013	0.977	5.48	
90)	T	Carbazole	0.916	0.883	0.910	0.856	0.872	0.841	0.939	0.900	0.928	0.894	3.72	
91)	T	Di-n-butylphthalate	1.027	1.070	1.055	0.988	1.044	1.042	1.195	1.165	1.219	1.089	7.53	
92)	T	Fluoranthene		1.171	1.162	1.070	1.083	1.046	1.171	1.151	1.191	1.131	4.88	
93)	T	Benzidine		0.504	0.582	0.566	0.623	0.657	0.754	0.740	0.760	0.648	14.85	
94)	T	Pyrene		1.243	1.287	1.124	1.150	1.094	1.226	1.202	1.224	1.194	5.47	
95)	S	4-Terphenyl-d14	0.872	0.938	0.878	0.820	0.827	0.786	0.895	0.852	0.885	0.861	5.29	
96)	T	Butyl benzyl phthalate			0.447	0.400	0.429	0.444	0.512	0.494	0.517	0.463	9.65	
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.425	0.400	0.439	0.435	0.424	0.442	0.483	0.500	0.515	0.451	8.61	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.415	0.433	0.366	0.500	0.434	0.433	0.442	0.454	0.482	0.440	8.76	
101)	T	Parathion			0.101	0.124	0.104	0.108	0.123	0.133	0.151	0.121	14.76	
102)	T	3,3'-Dimethylbenzidine			0.461	0.630	0.601	0.661	0.739	0.809	0.907		*L 0.9929	
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene		1.437	1.336	1.208	1.223	1.198	1.335	1.269	1.346	1.294	6.45	
105)	T	3,3'-Dichlorobenzidine	0.432	0.426	0.440	0.394	0.414	0.427	0.493	0.480	0.504	0.446	8.47	
106)	T	Chrysene		1.471	1.422	1.245	1.203	1.153	1.251	1.201	1.272	1.277	8.75	
107)	T	bis(2-Ethylhexyl)phthalate	0.716	0.744	0.769	0.702	0.740	0.736	0.837	0.813	0.847	0.767	6.91	
108)	T	Di-n-octylphthalate			1.153	1.050	1.147	1.214	1.385	1.386	1.462	1.257	12.27	

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Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.180	1.202	1.188	1.071	1.117	1.165	1.229	1.206	1.275	1.181	5.07
110)	T	Benzo(k)fluoranthene	1.080	1.197	1.258	1.148	1.161	1.027	1.193	1.177	1.145	1.154	5.86
111)	T	Benzo(a)pyrene	1.045	1.021	1.061	0.980	1.041	0.994	1.137	1.107	1.136	1.058	5.48
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.922	0.925	0.902	0.866	0.894	1.054	1.119	1.181	0.983	12.05
114)	T	Dibenzo[a,h]anthracene	0.832	0.862	0.933	0.873	0.878	0.876	1.028	1.026	1.102	0.935	10.11
115)	T	Benzo(g,h,i)perylene	0.864	0.967	0.914	0.864	0.875	0.847	0.988	0.983	1.003	0.923	6.79

Response Factor Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024
Response Via : Initial Calibration

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.968	0.876	0.795	0.712	0.716	0.723	0.786	0.742	0.782	0.789	10.74
3)	t	Pyridine	1.136	1.084	1.172	1.015	1.203	1.217	1.311	1.188	1.300	1.181	8.03
4)	S	2-Fluorophenol	1.289	1.192	1.243	0.950	1.045	1.048	1.168	1.113	1.130	1.131	9.38
5)	T	Aniline	1.834	2.142	2.040	1.688	1.781	1.758	1.922	1.894	1.950	1.890	7.57
6)	t	2-Chlorophenol	1.323	1.334	1.263	1.096	1.133	1.181	1.255	1.236	1.244	1.230	6.52
7)	S	Phenol-d6	1.373	1.576	1.557	1.359	1.370	1.397	1.504	1.487	1.524	1.461	5.90
8)	T	Phenol	1.480	1.629	1.750	1.453	1.451	1.482	1.624	1.553	1.586	1.557	6.48
9)	T	bis(2-Chloroethyl)ether	1.240	1.284	1.284	1.181	1.184	1.171	1.264	1.218	1.234	1.229	3.56
10)	T	1,3-Dichlorobenzene	1.414	1.708	1.498	1.353	1.282	1.323	1.450	1.379	1.398	1.423	8.78
11)	T	1,4-Dichlorobenzene	1.682	1.802	1.617	1.324	1.337	1.326	1.454	1.407	1.428	1.486	11.65
12)	T	1,2-Dichlorobenzene	1.243	1.545	1.532	1.262	1.251	1.266	1.381	1.356	1.375	1.357	8.58
13)	t	Benzyl alcohol	1.190	1.197	1.234	1.110	1.093	1.148	1.244	1.232	1.253	1.189	4.99
14)	T	bis(2-chloroisopropyl)ether	1.917	2.024	1.974	1.726	1.655	1.719	1.809	1.765	1.763	1.817	6.94
15)	T	2-Methylphenol	1.320	1.082	1.146	0.988	1.016	1.032	1.138	1.108	1.137	1.108	8.89
16)	T	Hexachloroethane	0.633	0.623	0.632	0.569	0.596	0.581	0.607	0.605	0.607	0.606	3.58
17)	T	n-Nitrosodi-n-propylamine	1.033	1.166	1.043	0.992	0.928	1.003	1.060	1.029	1.055	1.034	6.17
18)	T	3-Methylphenol/4-Methylphenol	1.184	1.306	1.347	1.088	1.135	1.134	1.237	1.192	1.211	1.204	6.91
19)	S	Nitrobenzene-d5	1.535	1.656	1.696	1.494	1.413	1.503	1.613	1.569	1.598	1.564	5.62
20)	T	Nitrobenzene	1.591	1.594	1.498	1.357	1.418	1.477	1.566	1.518	1.526	1.505	5.25
21)	T	Isophorone	2.686	2.692	2.761	2.534	2.471	2.585	2.769	2.765	2.767	2.670	4.24
22)	T	2-Nitrophenol	0.649	0.665	0.613	0.575	0.554	0.583	0.661	0.646	0.655	0.622	6.76
23)	T	2,4-Dimethylphenol	1.246	1.452	1.261	1.163	1.186	1.207	1.288	1.262	1.283	1.261	6.64
24)	T	bis(2-Chloroethoxy)methane		1.999	1.703	1.642	1.542	1.563	1.681	1.632	1.639	1.675	8.46
25)	T	2,4-Dichlorophenol	1.109	1.283	1.158	1.068	1.060	1.117	1.200	1.173	1.175	1.149	6.05
26)	T	1,2,4-Trichlorobenzene	1.606	1.593	1.483	1.278	1.277	1.301	1.377	1.357	1.361	1.404	9.09
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.187	1.225	1.191	1.065	0.987	0.953	1.098	1.056	1.097	1.095	8.48
29)	T	Acetophenone		2.147	2.058	2.051	1.824	1.767	2.021	1.957	2.025	1.981	6.41
30)	T	m-Toluidine	1.323	1.563	1.758	1.661	1.696	1.641	1.849	1.806	1.867	1.685	10.02
31)	T	2-Chloroaniline	1.736	1.592	1.724	1.580	1.510	1.481	1.645	1.618	1.685	1.619	5.47
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.644	1.626	1.644	1.626	1.393	1.420	1.453	1.490	1.541	1.537	6.60
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.165	1.153	1.218	0.958	0.980	0.982	1.050	1.021	1.070	1.066	8.72
36)	T	Benzoic Acid		0.051	0.122	0.194	0.218	0.235	0.286	0.294	0.301	*Q	0.9984
37)	T	4-Chloroaniline	0.167	0.156	0.177	0.151	0.150	0.152	0.163	0.161	0.164	0.160	5.52
38)	T	Hexachlorobutadiene	0.328	0.316	0.306	0.240	0.250	0.250	0.262	0.255	0.266	0.275	11.91
39)	T	p-Chloro-m-cresol	0.282	0.339	0.330	0.324	0.309	0.318	0.344	0.344	0.353	0.327	6.73
40)	T	2-Methylnaphthalene	0.740	0.780	0.756	0.652	0.670	0.669	0.702	0.695	0.730	0.711	6.15
41)	T	1-Methylnaphthalene	0.346	0.326	0.321	0.274	0.270	0.271	0.292	0.283	0.291	0.297	9.15
42)	T	Hexachlorocyclopentadiene	0.268	0.249	0.278	0.256	0.257	0.260	0.292	0.291	0.306	0.273	7.22
43)	T	2,4,6-Trichlorophenol	0.248	0.222	0.254	0.249	0.267	0.265	0.293	0.286	0.307	0.266	9.82
44)	T	2,4,5-Trichlorophenol	0.251	0.314	0.299	0.263	0.269	0.286	0.305	0.305	0.311	0.289	7.93
45)	S	2-Fluorobiphenyl	0.923	1.069	1.012	0.857	0.865	0.863	0.918	0.900	0.941	0.928	7.74

Response Factor Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2-Chloronaphthalene		0.800	0.828	0.728	0.697	0.697	0.728	0.724	0.743	0.743	6.31
47)	T	2-Nitroaniline			0.220	0.198	0.202	0.207	0.223	0.226	0.230	0.215	5.88
48)	T	1,4-Dinitrobenzene		0.098	0.125	0.100	0.104	0.114	0.123	0.122	0.125	0.114	10.30
49)	T	1,3-Dinitrobenzene			0.144	0.110	0.123	0.129	0.134	0.134	0.138	0.130	8.34
50)	T	Dimethyl phthalate	1.003	1.133	1.024	0.939	0.928	0.938	0.962	0.946	0.965	0.982	6.59
51)	T	Acenaphthylene	1.209	1.240	1.215	1.058	1.093	1.092	1.163	1.136	1.193	1.155	5.56
52)	T	2,6-Dinitrotoluene	0.233	0.186	0.178	0.182	0.184	0.191	0.207	0.197	0.217	0.197	9.35
53)	T	1,2-Dinitrobenzene	0.060	0.068	0.092	0.074	0.077	0.077	0.087	0.082	0.081	0.078	12.39
54)	I	IS2_Naphthalene-d8	ISTD										
55)	T	a-Terpineol	0.277	0.368	0.336	0.322	0.314	0.310	0.337	0.350	0.361	0.330	8.61
56)	T	3-Chloroaniline	0.155	0.164	0.189	0.173	0.186	0.180	0.192	0.192	0.200	0.181	8.08
57)	T	2,6-Dichlorophenol	0.297	0.280	0.307	0.288	0.287	0.277	0.308	0.323	0.329	0.300	6.18
58)	T	1-chloro-2-nitrobenzene	0.201	0.180	0.174	0.169	0.162	0.151	0.162	0.171	0.175	0.172	8.12
59)	T	Caprolactam	0.183	0.173	0.162	0.176	0.166	0.162	0.178	0.192	0.192	0.176	6.52
60)	T	1,2,4,5-Tetrachlorobenzene	0.439	0.495	0.482	0.490	0.445	0.419	0.446	0.458	0.473	0.461	5.63
61)	T	Biphenyl	0.930	0.904	0.863	0.950	0.866	0.851	0.888	0.924	0.935	0.901	3.98
62)	I	IS1_Acenaphthene-d10	ISTD										
63)	T	3-Nitroaniline	0.282	0.314	0.289	0.270	0.287	0.277	0.316	0.300	0.300	0.293	5.44
64)	T	Acenaphthene	1.017	1.029	1.030	0.974	0.959	0.922	1.006	0.966	1.011	0.991	3.73
65)	T	2,4-Dinitrophenol			0.100	0.133	0.153	0.160	0.195	0.191	0.200	*L	0.9983
66)	T	Dibenzofuran	2.055	1.905	1.857	1.609	1.626	1.531	1.684	1.650	1.690	1.734	9.71
67)	T	2,4-Dinitrotoluene	0.320	0.379	0.454	0.374	0.400	0.396	0.422	0.414	0.425	0.398	9.63
68)	T	4-Nitrophenol	0.291	0.273	0.283	0.276	0.324	0.318	0.357	0.349	0.357	0.314	11.08
69)	T	2,3,5,6-Tetrachlorophenol	0.262	0.319	0.327	0.350	0.350	0.362	0.404	0.395	0.405	0.353	13.21
70)	T	2,3,4,6-Tetrachlorophenol	0.276	0.276	0.371	0.344	0.350	0.343	0.385	0.377	0.394	0.346	12.61
71)	T	Diethyl phthalate	1.346	1.526	1.544	1.418	1.424	1.380	1.468	1.430	1.451	1.443	4.41
72)	T	Fluorene	1.451	1.481	1.419	1.362	1.278	1.240	1.348	1.327	1.358	1.363	5.74
73)	T	4-Chlorophenyl-phenylether	0.832	0.753	0.779	0.703	0.673	0.641	0.697	0.679	0.694	0.717	8.35
74)	T	4-Nitroaniline	0.262	0.260	0.305	0.291	0.280	0.285	0.308	0.297	0.293	0.287	5.96
75)	T	4,6-Dinitro-o-cresol			0.193	0.194	0.213	0.220	0.247	0.252	0.252	0.224	11.59
76)	T	NDPA/DPA	1.230	1.164	1.131	1.082	1.081	1.056	1.125	1.096	1.134	1.122	4.68
77)	T	Azobenzene	1.457	1.513	1.576	1.327	1.326	1.323	1.417	1.352	1.577	1.430	7.40
78)	S	2,4,6-Tribromophenol	0.180	0.190	0.253	0.193	0.212	0.206	0.229	0.224	0.229	0.213	10.99
79)	T	4-Bromophenyl-phenylether	0.449	0.453	0.478	0.404	0.411	0.393	0.425	0.407	0.424	0.427	6.48
80)	T	Hexachlorobenzene	0.546	0.588	0.506	0.454	0.480	0.438	0.478	0.470	0.490	0.494	9.46
81)	T	Pentachlorophenol			0.255	0.243	0.278	0.278	0.316	0.313	0.334	0.288	11.69
82)	I	IS2_Acenaphthene-d10	ISTD										
83)	T	Dichloran	0.147	0.202	0.158	0.168	0.179	0.185	0.213	0.225	0.244	0.191	16.87
84)	T	Pentachloronitrobenzene	0.286	0.188	0.213	0.217	0.203	0.214	0.244	0.257	0.266	0.232	14.07
85)	I	IS3_Acenaphthene-d10	ISTD										
86)	T	Atrazine	0.367	0.342	0.372	0.438	0.387	0.393	0.432	0.437	0.457	0.403	9.76
87)	I	IS1_Phenanthrene-d10	ISTD										
88)	T	Phenanthrene	1.117	1.125	1.020	0.922	0.915	0.876	0.966	0.953	0.993	0.988	8.80
89)	T	Anthracene	1.021	1.052	0.998	0.931	0.922	0.888	0.996	0.971	1.013	0.977	5.48
90)	T	Carbazole	0.916	0.883	0.910	0.856	0.872	0.841	0.939	0.900	0.928	0.894	3.72

Response Factor Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

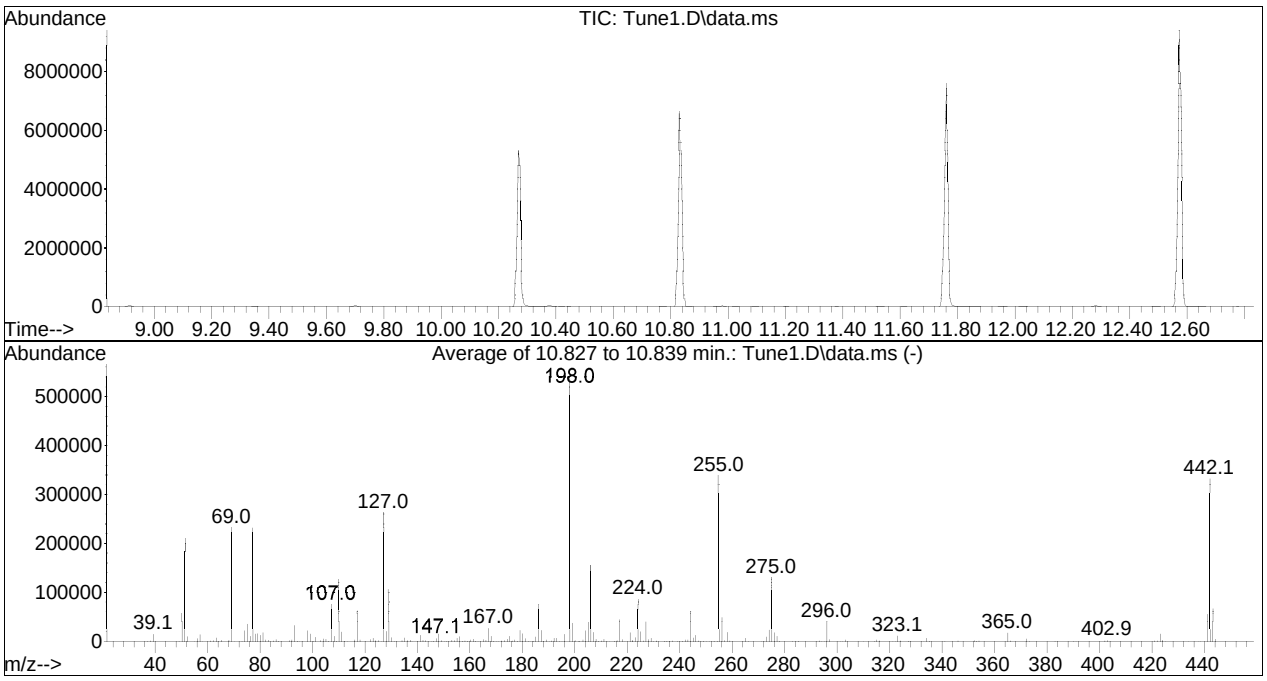
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate	1.027	1.070	1.055	0.988	1.044	1.042	1.195	1.165	1.219	1.089	7.53
92)	T	Fluoranthene		1.171	1.162	1.070	1.083	1.046	1.171	1.151	1.191	1.131	4.88
93)	T	Benzidine		0.504	0.582	0.566	0.623	0.657	0.754	0.740	0.760	0.648	14.85
94)	T	Pyrene		1.243	1.287	1.124	1.150	1.094	1.226	1.202	1.224	1.194	5.47
95)	S	4-Terphenyl-d14	0.872	0.938	0.878	0.820	0.827	0.786	0.895	0.852	0.885	0.861	5.29
96)	T	Butyl benzyl phthalate			0.447	0.400	0.429	0.444	0.512	0.494	0.517	0.463	9.65
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.425	0.400	0.439	0.435	0.424	0.442	0.483	0.500	0.515	0.451	8.61
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.415	0.433	0.366	0.500	0.434	0.433	0.442	0.454	0.482	0.440	8.76
101)	T	Parathion			0.101	0.124	0.104	0.108	0.123	0.133	0.151	0.121	14.76
102)	T	3,3'-Dimethylbenzidine			0.461	0.630	0.601	0.661	0.739	0.809	0.907	*L	0.9929
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene		1.437	1.336	1.208	1.223	1.198	1.335	1.269	1.346	1.294	6.45
105)	T	3,3'-Dichlorobenzidine	0.432	0.426	0.440	0.394	0.414	0.427	0.493	0.480	0.504	0.446	8.47
106)	T	Chrysene		1.471	1.422	1.245	1.203	1.153	1.251	1.201	1.272	1.277	8.75
107)	T	bis(2-Ethylhexyl)phthalate	0.716	0.744	0.769	0.702	0.740	0.736	0.837	0.813	0.847	0.767	6.91
108)	T	Di-n-octylphthalate			1.153	1.050	1.147	1.214	1.385	1.386	1.462	1.257	12.27
109)	T	Benzo(b)fluoranthene	1.180	1.202	1.188	1.071	1.117	1.165	1.229	1.206	1.275	1.181	5.07
110)	T	Benzo(k)fluoranthene	1.080	1.197	1.258	1.148	1.161	1.027	1.193	1.177	1.145	1.154	5.86
111)	T	Benzo(a)pyrene	1.045	1.021	1.061	0.980	1.041	0.994	1.137	1.107	1.136	1.058	5.48
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.922	0.925	0.902	0.866	0.894	1.054	1.119	1.181	0.983	12.05
114)	T	Dibenzo[a,h]anthracene	0.832	0.862	0.933	0.873	0.878	0.876	1.028	1.026	1.102	0.935	10.11
115)	T	Benzo(g,h,i)perylene	0.864	0.967	0.914	0.864	0.875	0.847	0.988	0.983	1.003	0.923	6.79

(#) = Out of Range

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024



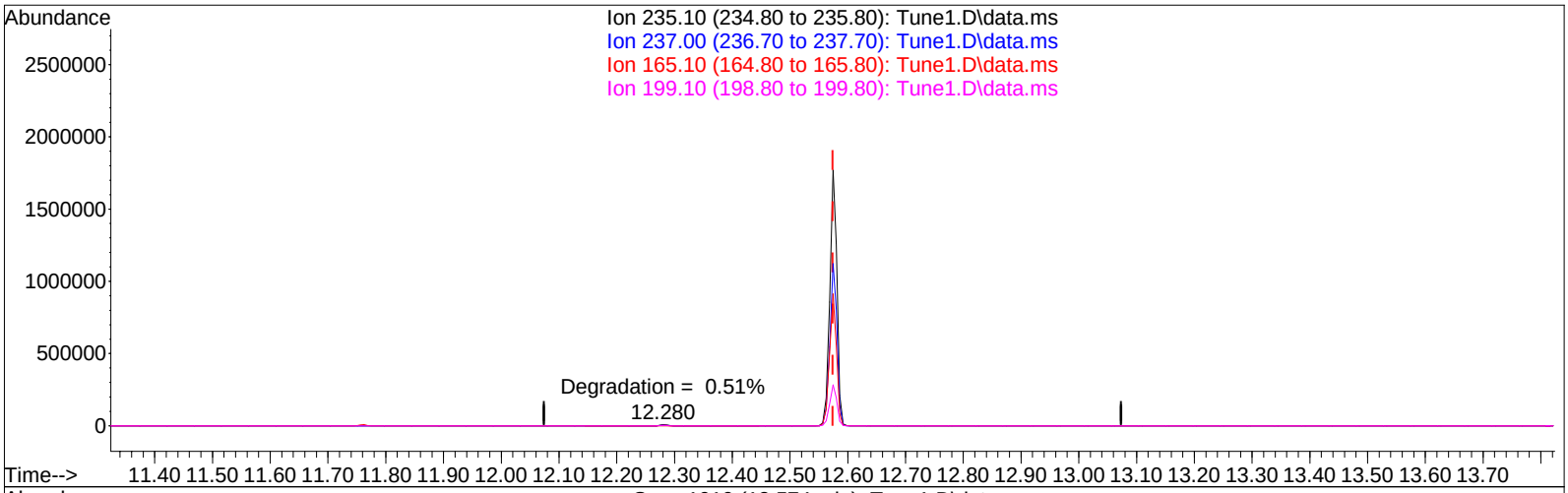
Spectrum Information: Average of 10.827 to 10.839 min.

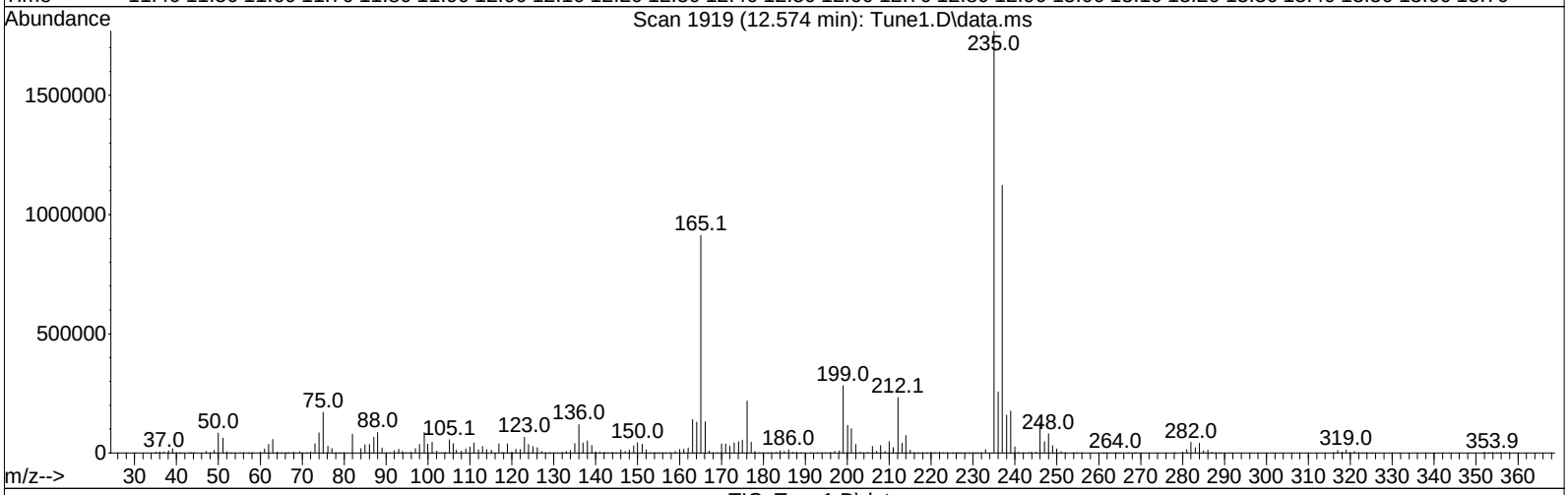
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.0	210149	PASS
68	69	0.00	2	1.6	3652	PASS
69	69	100	100	100.0	232164	PASS
70	69	0.00	2	0.5	1162	PASS
127	198	10	80	48.7	262507	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	538837	PASS
199	198	5	9	6.7	36363	PASS
275	198	10	60	24.2	130216	PASS
365	198	1	100	3.2	17293	PASS
441	442	0.01	24	16.2	53733	PASS
442	198	50	100	61.6	331925	PASS
443	442	15	24	20.2	66939	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:34:27 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(6) DDT (T)

12.574min (+ 0.000) 250.57

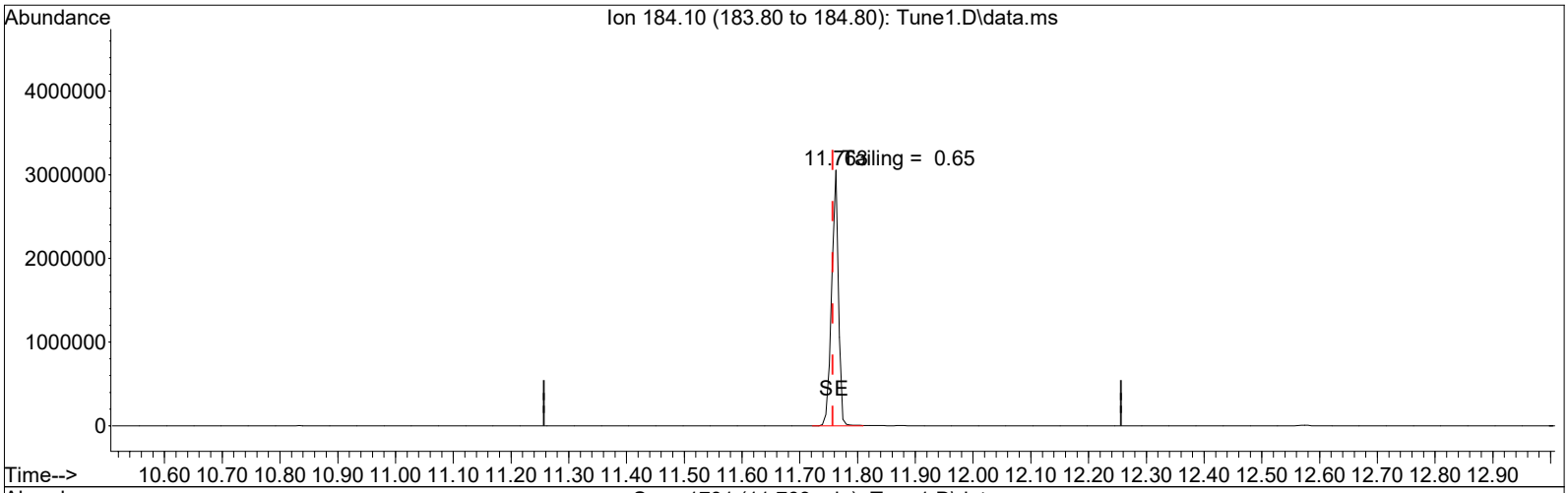
response 1527383

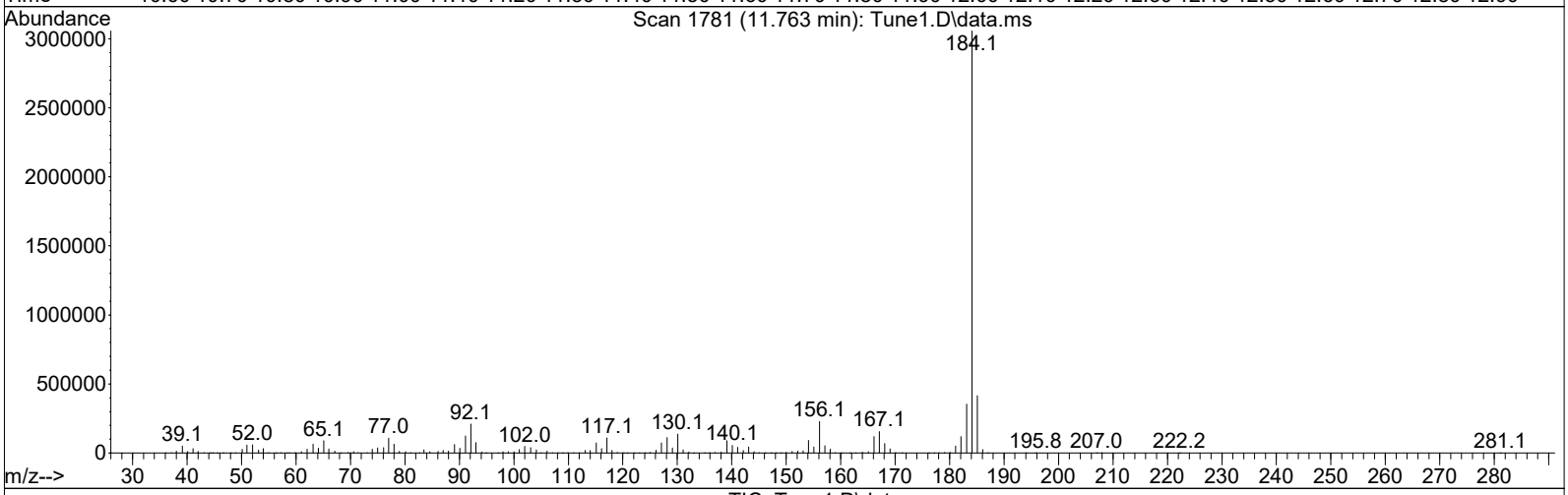
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.87
165.10	44.50	50.83
199.10	14.80	16.26

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:34:27 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(3) Benzidine (T)

11.763min (+ 0.006) 246.48

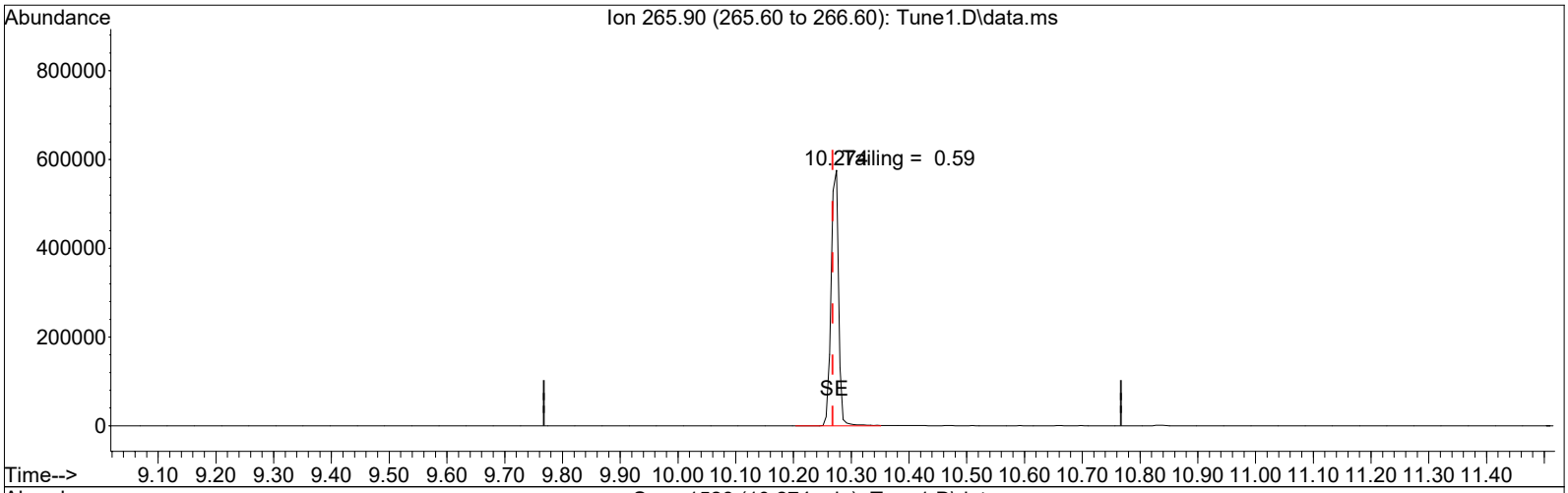
response 2509184

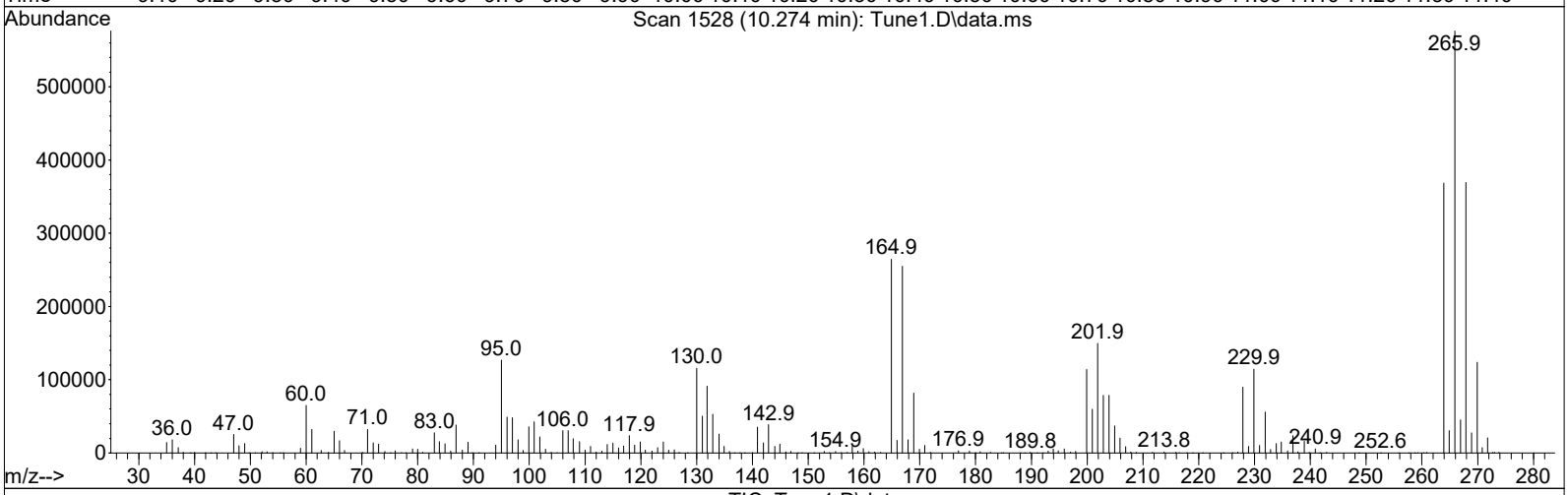
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:34:27 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(1) Pentachlorophenol (T)

10.274min (+ 0.006) 245.05

response 514689

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	68006	4.000	ug/ml	# 0.00
Standard Area 1 = 64818			Recovery = 104.92%			
34) IS1_Naphthalene-d8	7.245	136	242798	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 103.22%			
62) IS1_Acenaphthene-d10	9.010	164	163145	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 100.56%			
87) IS1_Phenanthrene-d10	10.427	188	341076	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 96.12%			
103) IS1_Chrysene-d12	12.986	240	300224	4.000	ug/ml	0.01
Standard Area 1 = 311680			Recovery = 96.32%			
112) IS1_Perylene-d12	14.386	264	292200	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 89.23%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	960540	53.923	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1078.46%#			
7) Phenol-d6	5.369	99	1295464	54.534	ug/ml	0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 1090.68%#			
19) Nitrobenzene-d5	6.451	82	1358824	53.159	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2126.36%#			
45) 2-Fluorobiphenyl	8.392	172	2855670	54.502	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2180.08%#			
78) 2,4,6-Tribromophenol	9.780	330	466388	55.521	ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 1110.42%#			
95) 4-Terphenyl-d14	12.004	244	3771593	56.294	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2251.76%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.393	74	664650	54.037	ug/ml#	80
3) Pyridine	1.410	79	1104701	53.393	ug/ml#	64
5) Aniline	5.257	93	1657370	55.451	ug/ml	98
6) 2-Chlorophenol	5.428	128	1057640	52.661	ug/ml	97
8) Phenol	5.387	94	1348350	53.511	ug/ml	90
9) Bis(2-chloroethyl)ether	5.434	93	1049271	52.712	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	1188432	52.831	ug/ml	95
11) 1,4-Dichlorobenzene	5.745	146	1214154	53.873	ug/ml	96
12) 1,2-Dichlorobenzene	5.939	146	1168516	54.287	ug/ml	95
13) Benzyl alcohol	5.992	79	1064745	54.567	ug/ml	92
14) Bis(2-chloroisopropyl)...	6.181	45	1498944	51.297	ug/ml#	44

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	966697	55.100	ug/ml	99
16) Hexachloroethane	6.357	117	516031	52.216	ug/ml#	60
17) n-Nitrosodi-n-propylamine	6.351	70	896857	52.569	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.404	108	1029846	53.405	ug/ml	98
20) Nitrobenzene	6.475	77	1297497	51.685	ug/ml	93
21) Isophorone	6.786	82	2352517	53.538	ug/ml#	91
22) 2-Nitrophenol	6.851	139	556394	56.115	ug/ml#	92
23) 2,4-Dimethylphenol	6.992	107	1090816	53.167	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.081	93	1393304	52.435	ug/ml#	97
25) 2,4-Dichlorophenol	7.134	162	998460	52.561	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.204	180	1156821	52.309	ug/ml	98
35) Naphthalene	7.269	128	3248188	54.498	ug/ml	100
36) Benzoic Acid	7.234	105	914864	64.028	ug/ml	96
37) 4-Chloroaniline	7.369	65	496724	54.004	ug/ml	91
38) Hexachlorobutadiene	7.445	225	808780	53.332	ug/ml	98
39) p-Chloro-m-cresol	7.928	107	1072201	55.539	ug/ml	93
40) 2-Methylnaphthalene	7.998	142	2216186	54.589	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	884126	53.739	ug/ml	74
42) Hexachlorocyclopentadiene	8.175	237	930045	58.940	ug/ml	98
43) 2,4,6-Trichlorophenol	8.304	196	930709	57.821	ug/ml	99
44) 2,4,5-Trichlorophenol	8.333	196	944183	54.357	ug/ml	98
46) 2-Chloronaphthalene	8.475	162	2254112	53.280	ug/ml	98
47) 2-Nitroaniline	8.604	138	696614	55.437	ug/ml	95
48) 1,4-Dinitrobenzene	8.745	168	379987	55.036	ug/ml	92
49) 1,3-Dinitrobenzene	8.822	168	418573	53.375	ug/ml#	1
50) Dimethyl phthalate	8.833	163	2927327	51.434	ug/ml#	98
51) Acenaphthylene	8.869	152	3621957	54.636	ug/ml	100
52) 2,6-Dinitrotoluene	8.863	165	659494	56.926	ug/ml#	89
53) 1,2-Dinitrobenzene	8.904	168	244898	52.389	ug/ml	92
63) 3-Nitroaniline	9.016	138	611324	54.028	ug/ml	86
64) Acenaphthene	9.045	154	2062148	54.811	ug/ml	92
65) 2,4-Dinitrophenol	9.110	184	406945	62.258	ug/ml	92
66) Dibenzofuran	9.216	168	3446910	55.191	ug/ml#	70
67) 2,4-Dinitrotoluene	9.245	165	867147	53.649	ug/ml#	81
68) 4-Nitrophenol	9.227	65	727417	56.111	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.316	232	825957	55.896	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.357	232	803796	57.494	ug/ml	97
71) Diethyl phthalate	9.522	149	2959636	52.594	ug/ml	99
72) Fluorene	9.545	166	2768758	54.767	ug/ml	96
73) 4-Chlorophenyl phenyl ...	9.575	204	1415012	54.157	ug/ml	93

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.610	138	596973	51.342	ug/ml#	73
75)	4,6-Dinitro-o-cresol	9.633	198	513254	57.219	ug/ml#	73
76)	NDPA/DPA	9.704	169	2311916	53.687	ug/ml	97
77)	Azobenzene	9.727	77	3216057	59.606	ug/ml	94
79)	4-Bromophenyl phenyl e...	10.039	248	863881	53.949	ug/ml	90
80)	Hexachlorobenzene	10.075	284	999723	56.003	ug/ml#	84
81)	Pentachlorophenol	10.275	266	680747	59.978	ug/ml	99
88)	Phenanthrene	10.451	178	4234548	56.672	ug/ml	99
89)	Anthracene	10.504	178	4320553	57.058	ug/ml	98
90)	Carbazole	10.680	167	3956125	55.158	ug/ml	100
91)	Di-n-butylphthalate	11.092	149	5198540	58.524	ug/ml	100
92)	Fluoranthene	11.586	202	5075901	56.917	ug/ml#	90
93)	Benzidine	11.763	184	3238326	57.829	ug/ml#	94
94)	Pyrene	11.798	202	5219225	55.941	ug/ml	99
96)	Butyl benzyl phthalate	12.521	149	2202836	58.243	ug/ml	95
104)	Benzo(a)anthracene	12.980	228	5050413	56.168	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.998	252	1891525	58.973	ug/ml#	97
106)	Chrysene	13.015	228	4772565M3	55.171	ug/ml	
107)	Bis(2-ethylhexyl)phtha...	13.145	149	3180285	57.579	ug/ml#	90
108)	Di-n-octylphthalate	13.804	149	5486066	60.217	ug/ml#	73
109)	Benzo(b)fluoranthene	14.045	252	4784490	54.724	ug/ml#	92
110)	Benzo(k)fluoranthene	14.074	252	4295287M3	55.718	ug/ml	
111)	Benzo(a)pyrene	14.345	252	4265028M2	57.187	ug/ml	
113)	Indeno(1,2,3-cd)pyrene	15.333	276	4315390	66.111	ug/mL#	85
114)	Dibenzo(a,h)anthracene	15.362	278	4026766	62.947	ug/ml#	88
115)	Benzo(ghi)perylene	15.545	276	3662950	59.195	ug/ml#	82

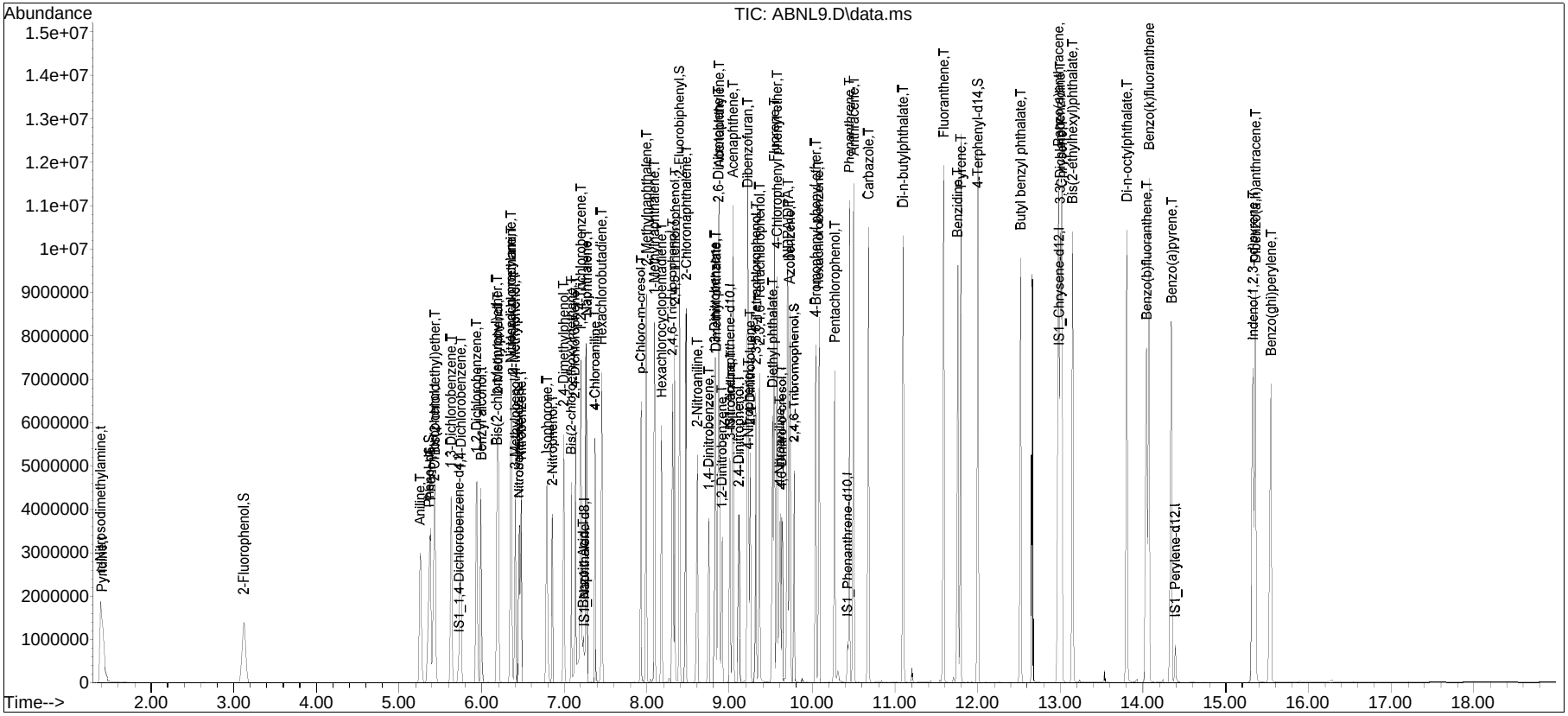
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

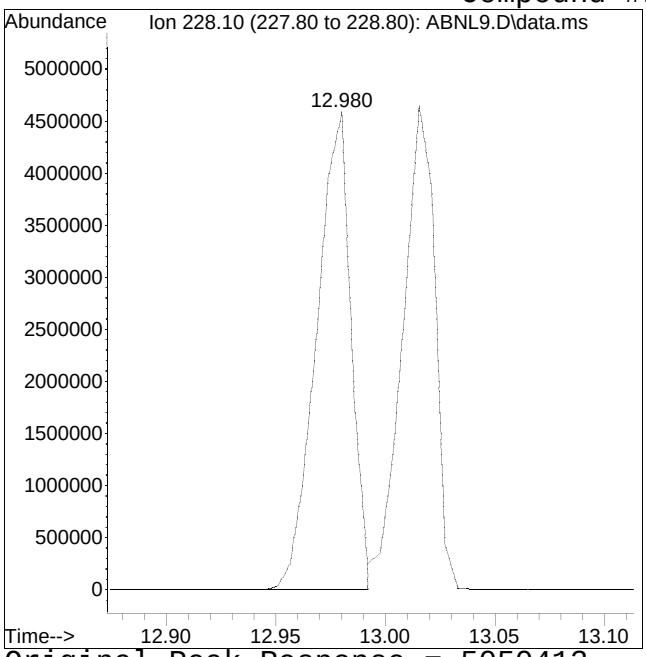
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

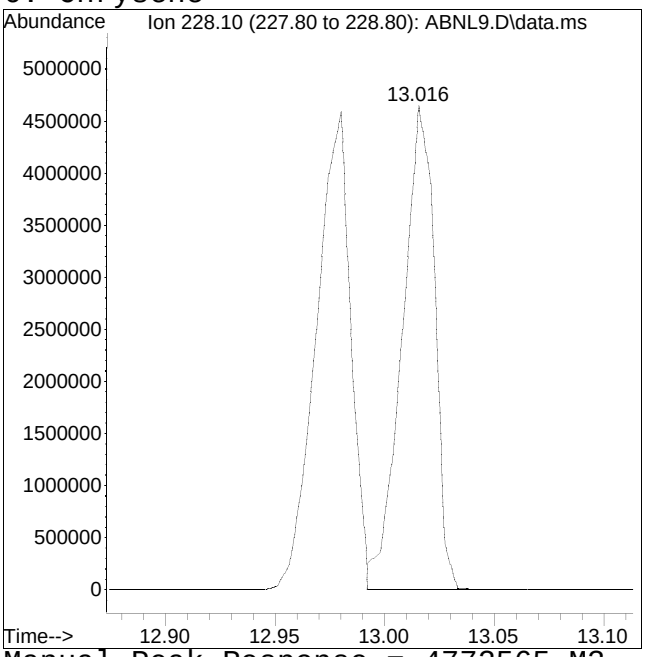


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL9.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 8:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 4/19/2024 1:19 pm

Compound #106: Chrysene



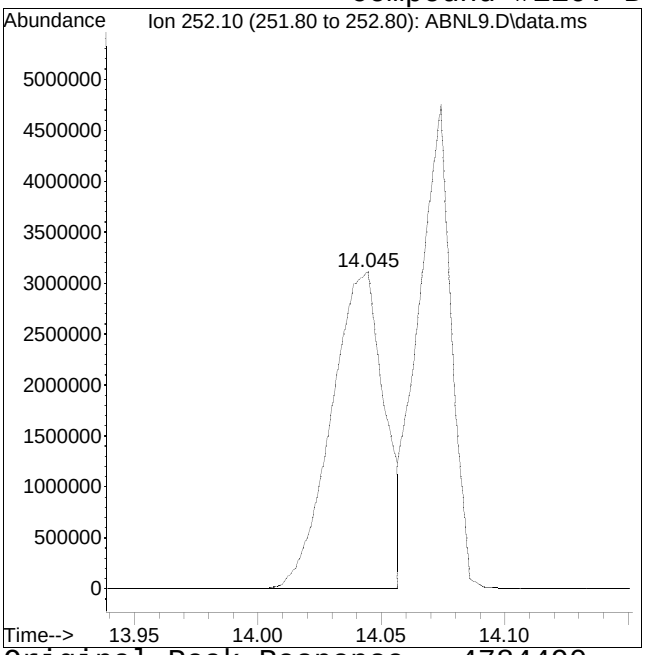


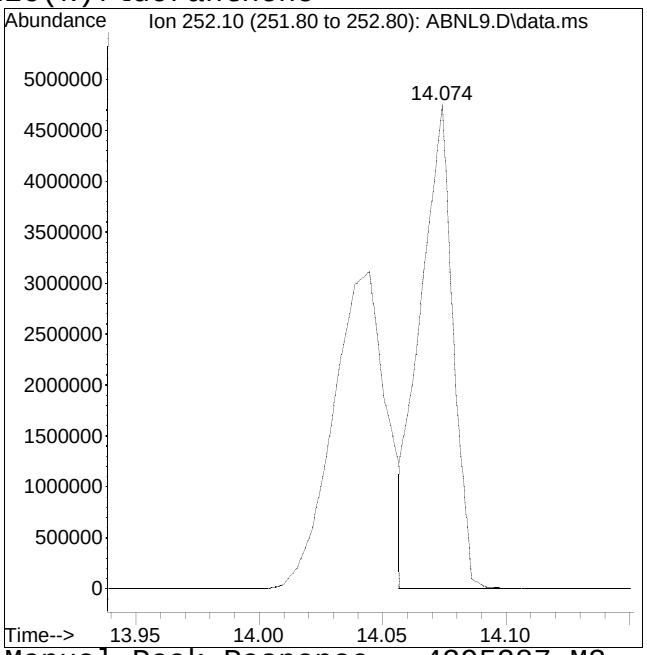
Original Peak Response = 5050413 Manual Peak Response = 4772565 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL9.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 8:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 4/19/2024 1:19 pm

Compound #110: Benzo(k)fluoranthene



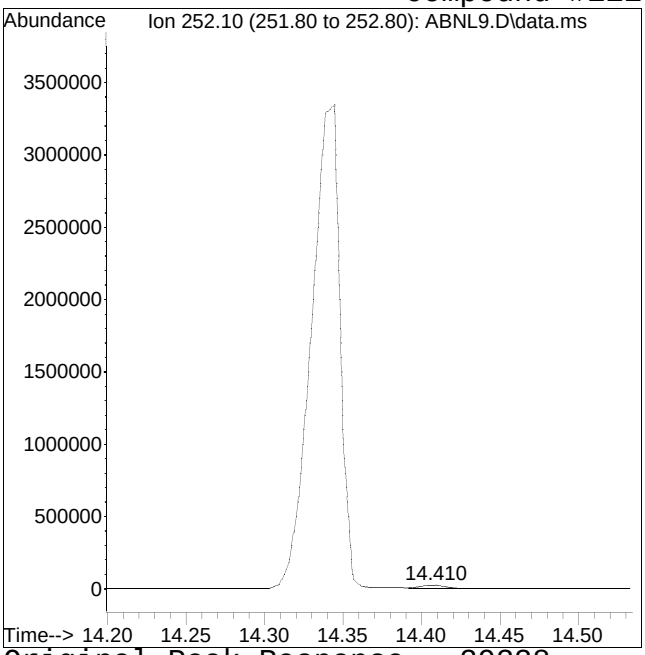


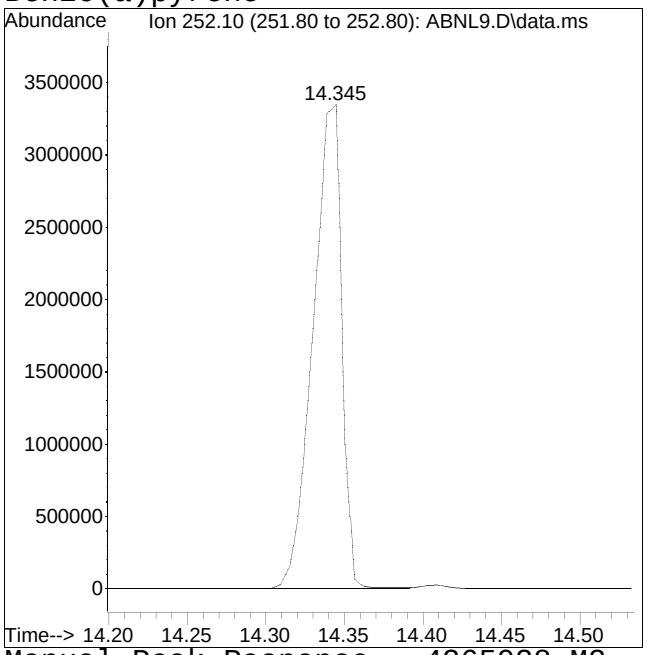
Original Peak Response = 4784490 Manual Peak Response = 4295287 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL9.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 8:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 4/19/2024 1:19 pm

Compound #111: Benzo(a)pyrene





Original Peak Response = 29338 Manual Peak Response = 4265028 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	65912	4.000	ug/ml	# 0.00
Standard Area 1 = 64818			Recovery = 101.69%			
34) IS1_Naphthalene-d8	7.239	136	241490	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 102.66%			
62) IS1_Acenaphthene-d10	9.010	164	162099	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 99.92%			
87) IS1_Phenanthrene-d10	10.422	188	342232	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 96.44%			
103) IS1_Chrysene-d12	12.980	240	304555	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 97.71%			
112) IS1_Perylene-d12	14.380	264	307180	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 93.81%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	458378	26.550	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 531.00%#			
7) Phenol-d6	5.357	99	612500	26.603	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 532.06%#			
19) Nitrobenzene-d5	6.451	82	646278	26.087	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1043.48%#			
45) 2-Fluorobiphenyl	8.386	172	1358425	26.066	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1042.64%#			
78) 2,4,6-Tribromophenol	9.775	330	227428	27.249	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 544.98%#			
95) 4-Terphenyl-d14	11.998	244	1821546	27.096	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1083.84%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.387	74	305565	25.632	ug/ml#	82
3) Pyridine	1.410	79	489475	24.409	ug/ml#	65
5) Aniline	5.257	93	780422	26.940	ug/ml	98
6) 2-Chlorophenol	5.422	128	509339	26.166	ug/ml	96
8) Phenol	5.375	94	639905	26.202	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.434	93	501810	26.010	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	568067	26.055	ug/ml	96
11) 1,4-Dichlorobenzene	5.740	146	579787	26.543	ug/ml	97
12) 1,2-Dichlorobenzene	5.939	146	558649	26.778	ug/ml	95
13) Benzyl alcohol	5.987	79	507457	26.833	ug/ml	91
14) Bis(2-chloroisopropyl)...	6.181	45	726965	25.669	ug/ml#	46

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	456552	26.849	ug/ml	98
16) Hexachloroethane	6.357	117	249406	26.038	ug/ml#	62
17) n-Nitrosodi-n-propylamine	6.339	70	423811	25.631	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.398	108	491076	26.275	ug/ml	97
20) Nitrobenzene	6.469	77	625508	25.708	ug/ml	93
21) Isophorone	6.775	82	1139214	26.749	ug/ml#	90
22) 2-Nitrophenol	6.845	139	266303	27.711	ug/ml#	89
23) 2,4-Dimethylphenol	6.987	107	519713	26.136	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.081	93	672419	26.109	ug/ml#	97
25) 2,4-Dichlorophenol	7.128	162	483227	26.246	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.204	180	559108	26.085	ug/ml	97
35) Naphthalene	7.263	128	1541573	26.005	ug/ml	100
36) Benzoic Acid	7.181	105	444283	31.262	ug/ml	95
37) 4-Chloroaniline	7.369	65	242957	26.557	ug/ml	90
38) Hexachlorobutadiene	7.445	225	385584	25.563	ug/ml	99
39) p-Chloro-m-cresol	7.922	107	518982	27.028	ug/ml	93
40) 2-Methylnaphthalene	7.992	142	1049314	25.987	ug/ml#	94
41) 1-Methylnaphthalene	8.086	115	426937	26.091	ug/ml	72
42) Hexachlorocyclopentadiene	8.175	237	438468	27.938	ug/ml	98
43) 2,4,6-Trichlorophenol	8.304	196	431884	26.977	ug/ml	97
44) 2,4,5-Trichlorophenol	8.328	196	460669	26.665	ug/ml	98
46) 2-Chloronaphthalene	8.469	162	1092533	25.964	ug/ml	98
47) 2-Nitroaniline	8.598	138	341603	27.332	ug/ml	96
48) 1,4-Dinitrobenzene	8.739	168	184223	26.827	ug/ml	93
49) 1,3-Dinitrobenzene	8.810	168	202515	25.964	ug/ml#	1
50) Dimethyl phthalate	8.822	163	1428283	25.231	ug/ml#	98
51) Acenaphthylene	8.863	152	1714005	25.995	ug/ml	99
52) 2,6-Dinitrotoluene	8.857	165	297976	25.860	ug/ml#	84
53) 1,2-Dinitrobenzene	8.892	168	124182	26.709	ug/ml	94
63) 3-Nitroaniline	9.004	138	303903	27.032	ug/ml	88
64) Acenaphthene	9.039	154	978703	26.181	ug/ml	92
65) 2,4-Dinitrophenol	9.104	184	193808	29.842	ug/ml	93
66) Dibenzofuran	9.210	168	1671270	26.933	ug/ml#	72
67) 2,4-Dinitrotoluene	9.239	165	419893	26.146	ug/ml#	89
68) 4-Nitrophenol	9.216	65	353885	27.474	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.310	232	400526	27.280	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.351	232	381653	27.475	ug/ml	96
71) Diethyl phthalate	9.516	149	1448429	25.905	ug/ml	99
72) Fluorene	9.539	166	1344383	26.764	ug/ml	96
73) 4-Chlorophenyl phenyl ...	9.575	204	687729	26.492	ug/ml	93

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-Nitroaniline	9.592	138	300409	26.003	ug/ml	#	76
75)	4,6-Dinitro-o-cresol	9.622	198	255420	28.659	ug/ml	#	67
76)	NDPA/DPA	9.692	169	1110664	25.958	ug/ml		97
77)	Azobenzene	9.722	77	1369481	25.545	ug/ml		100
79)	4-Bromophenyl phenyl e...	10.033	248	412549	25.930	ug/ml	#	90
80)	Hexachlorobenzene	10.075	284	475904	26.831	ug/ml	#	84
81)	Pentachlorophenol	10.269	266	317102	28.119	ug/ml		98
88)	Phenanthrene	10.445	178	2038255	27.186	ug/ml		99
89)	Anthracene	10.498	178	2077189	27.339	ug/ml		99
90)	Carbazole	10.675	167	1924881	26.747	ug/ml		99
91)	Di-n-butylphthalate	11.092	149	2492099	27.961	ug/ml		100
92)	Fluoranthene	11.580	202	2462710	27.522	ug/ml	#	90
93)	Benzidine	11.757	184	1583769	28.187	ug/ml	#	94
94)	Pyrene	11.792	202	2570235	27.455	ug/ml		99
96)	Butyl benzyl phthalate	12.521	149	1056935	27.851	ug/ml		96
104)	Benzo(a)anthracene	12.974	228	2415230	26.479	ug/ml		100
105)	3,3'-Dichlorobenzidine	12.992	252	912814	28.054	ug/ml	#	96
106)	Chrysene	13.010	228	2285813	26.048	ug/ml		99
107)	Bis(2-ethylhexyl)phtha...	13.145	149	1547896	27.626	ug/ml	#	92
108)	Di-n-octylphthalate	13.798	149	2638217	28.546	ug/ml	#	74
109)	Benzo(b)fluoranthene	14.033	252	2295480	25.882	ug/ml	#	92
110)	Benzo(k)fluoranthene	14.063	252	2240483	28.650	ug/ml	#	92
111)	Benzo(a)pyrene	14.333	252	2107673	27.859	ug/ml	#	91
113)	Indeno(1,2,3-cd)pyrene	15.321	276	2147975	31.302	ug/mL	#	86
114)	Dibenzo(a,h)anthracene	15.351	278	1969745	29.290	ug/ml	#	89
115)	Benzo(ghi)perylene	15.533	276	1887785	29.020	ug/ml	#	83

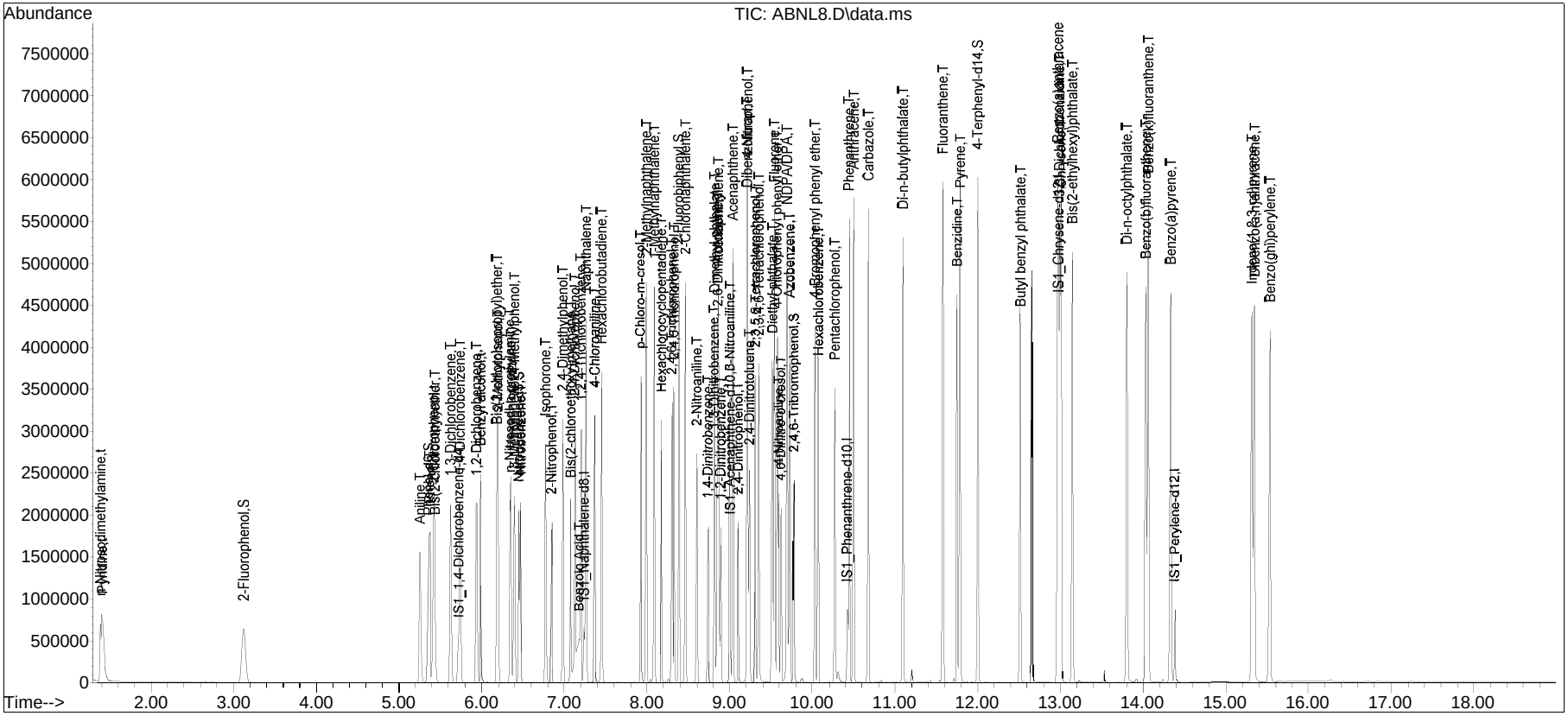
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ABNL8.D	Operator	: SV106:cmm
Date Inj'd	: 4/18/2024 9:14 pm	Instrument	: SV 106
Sample	: IL3,32,,ABNL25 Lot# 10692	Quant Date	: 4/19/2024 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	63776	4.000	ug/ml	# 0.00
Standard Area 1 = 64818			Recovery = 98.39%			
34) IS1_Naphthalene-d8	7.239	136	234946	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 99.88%			
62) IS1_Acenaphthene-d10	9.010	164	158017	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 97.40%			
87) IS1_Phenanthrene-d10	10.421	188	334287	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 94.20%			
103) IS1_Chrysene-d12	12.974	240	300344	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 96.36%			
112) IS1_Perylene-d12	14.380	264	309944	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 94.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	186298	11.152	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 223.04%#			
7) Phenol-d6	5.351	99	239762	10.763	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 215.26%#			
19) Nitrobenzene-d5	6.445	82	257228	10.731	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 429.24%#			
45) 2-Fluorobiphenyl	8.386	172	539091	10.633	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 425.32%#			
78) 2,4,6-Tribromophenol	9.769	330	90545	11.129	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 222.58%#			
95) 4-Terphenyl-d14	11.998	244	748208	11.394	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 455.76%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.387	74	125250	10.859	ug/ml#	80
3) Pyridine	1.416	79	209088	10.776	ug/ml#	64
5) Aniline	5.251	93	306438	10.933	ug/ml	99
6) 2-Chlorophenol	5.416	128	200034	10.621	ug/ml	97
8) Phenol	5.369	94	258950	10.958	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.434	93	201556	10.797	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	231256	10.962	ug/ml	96
11) 1,4-Dichlorobenzene	5.739	146	231818	10.968	ug/ml	96
12) 1,2-Dichlorobenzene	5.939	146	220178	10.907	ug/ml	94
13) Benzyl alcohol	5.981	79	198319	10.838	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.181	45	288444	10.526	ug/ml#	46

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.186	108	181520	11.033	ug/ml	99
16) Hexachloroethane	6.357	117	96774	10.442	ug/ml#	57
17) n-Nitrosodi-n-propylamine	6.339	70	169058	10.567	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.392	108	197302	10.910	ug/ml	99
20) Nitrobenzene	6.469	77	249701	10.606	ug/ml	94
21) Isophorone	6.775	82	441449	10.713	ug/ml#	91
22) 2-Nitrophenol	6.845	139	105379	11.333	ug/ml#	91
23) 2,4-Dimethylphenol	6.986	107	205420	10.676	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.075	93	268026	10.756	ug/ml#	98
25) 2,4-Dichlorophenol	7.128	162	191286	10.738	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.198	180	219517	10.584	ug/ml	98
35) Naphthalene	7.263	128	616933	10.697	ug/ml	99
36) Benzoic Acid	7.133	105	168219	12.167	ug/ml	97
37) 4-Chloroaniline	7.369	65	95527	10.733	ug/ml	90
38) Hexachlorobutadiene	7.445	225	154038	10.497	ug/ml	98
39) p-Chloro-m-cresol	7.922	107	201774	10.801	ug/ml	94
40) 2-Methylnaphthalene	7.992	142	412571	10.502	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	171480M3	10.771	ug/ml	
42) Hexachlorocyclopentadiene	8.175	237	171246	11.215	ug/ml	98
43) 2,4,6-Trichlorophenol	8.304	196	171818	11.031	ug/ml	96
44) 2,4,5-Trichlorophenol	8.327	196	179336	10.670	ug/ml	99
46) 2-Chloronaphthalene	8.469	162	427879	10.452	ug/ml	97
47) 2-Nitroaniline	8.592	138	131005	10.774	ug/ml	93
48) 1,4-Dinitrobenzene	8.733	168	72420	10.840	ug/ml	95
49) 1,3-Dinitrobenzene	8.810	168	78573	10.354	ug/ml#	1
50) Dimethyl phthalate	8.816	163	564799	10.255	ug/ml#	98
51) Acenaphthylene	8.863	152	682821	10.644	ug/ml	99
52) 2,6-Dinitrotoluene	8.851	165	121577	10.845	ug/ml#	83
53) 1,2-Dinitrobenzene	8.886	168	50861	11.244	ug/ml	95
63) 3-Nitroaniline	8.998	138	124809	11.388	ug/ml	91
64) Acenaphthene	9.039	154	397302	10.903	ug/ml	92
65) 2,4-Dinitrophenol	9.098	184	77000	12.163	ug/ml	94
66) Dibenzofuran	9.210	168	665383	11.000	ug/ml#	71
67) 2,4-Dinitrotoluene	9.233	165	166666	10.646	ug/ml#	87
68) 4-Nitrophenol	9.210	65	141161	11.242	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.310	232	159547	11.148	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.351	232	152197	11.240	ug/ml	95
71) Diethyl phthalate	9.510	149	580107	10.643	ug/ml	100
72) Fluorene	9.539	166	532461	10.874	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.569	204	275285	10.878	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.580	138	121686	10.805	ug/ml#	76
75)	4,6-Dinitro-o-cresol	9.616	198	97532	11.226	ug/ml#	69
76)	NDPA/DPA	9.692	169	444254	10.651	ug/ml	97
77)	Azobenzene	9.716	77	559915	10.714	ug/ml	99
79)	4-Bromophenyl phenyl e...	10.033	248	167891	10.825	ug/ml	91
80)	Hexachlorobenzene	10.069	284	188887	10.925	ug/ml#	86
81)	Pentachlorophenol	10.269	266	124823	11.355	ug/ml	99
88)	Phenanthrene	10.445	178	807472	11.026	ug/ml	98
89)	Anthracene	10.492	178	832495	11.217	ug/ml	98
90)	Carbazole	10.668	167	785129	11.169	ug/ml	100
91)	Di-n-butylphthalate	11.086	149	998553	11.470	ug/ml	100
92)	Fluoranthene	11.580	202	978351	11.193	ug/ml#	90
93)	Benzidine	11.751	184	630237	11.483	ug/ml#	95
94)	Pyrene	11.786	202	1024930	11.209	ug/ml	99
96)	Butyl benzyl phthalate	12.515	149	428062	11.548	ug/ml	95
104)	Benzo(a)anthracene	12.968	228	1002549	11.145	ug/ml	100
105)	3,3'-Dichlorobenzidine	12.986	252	370498	11.547	ug/ml#	97
106)	Chrysene	13.004	228	939053	10.851	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.145	149	628209	11.369	ug/ml#	92
108)	Di-n-octylphthalate	13.798	149	1040284	11.414	ug/ml#	74
109)	Benzo(b)fluoranthene	14.027	252	922896	10.552	ug/ml#	93
110)	Benzo(k)fluoranthene	14.057	252	896001	11.618	ug/ml#	92
111)	Benzo(a)pyrene	14.327	252	853535	11.440	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	15.315	276	816575M6	11.794	ug/mL	
114)	Dibenzo(a,h)anthracene	15.339	278	796619	11.740	ug/ml#	88
115)	Benzo(ghi)perylene	15.521	276	765376	11.661	ug/ml#	83

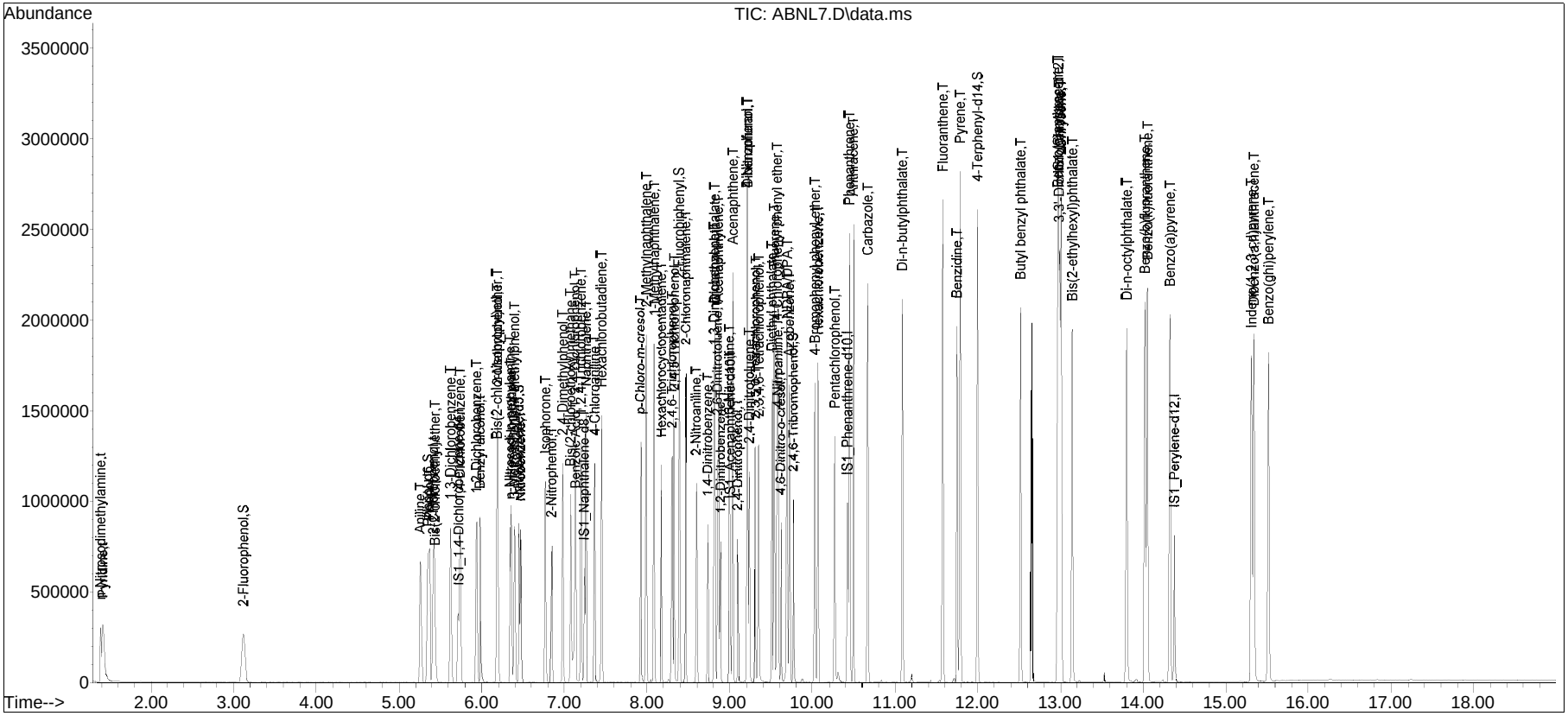
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

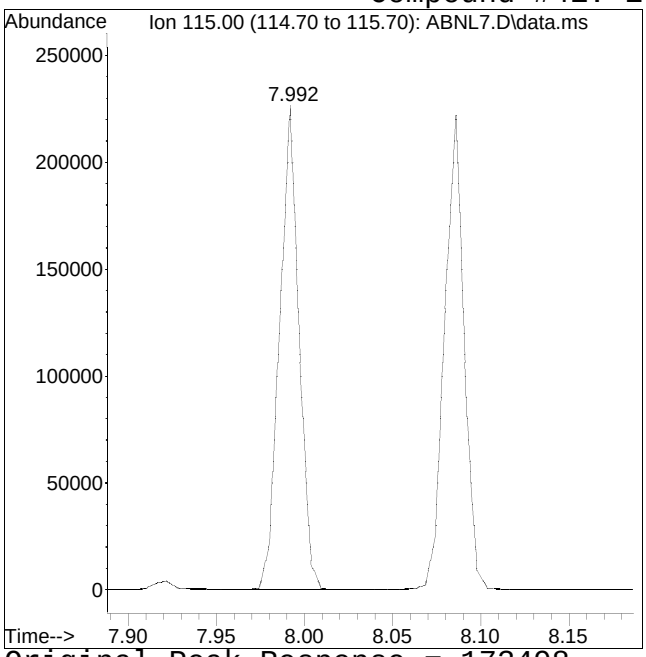
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

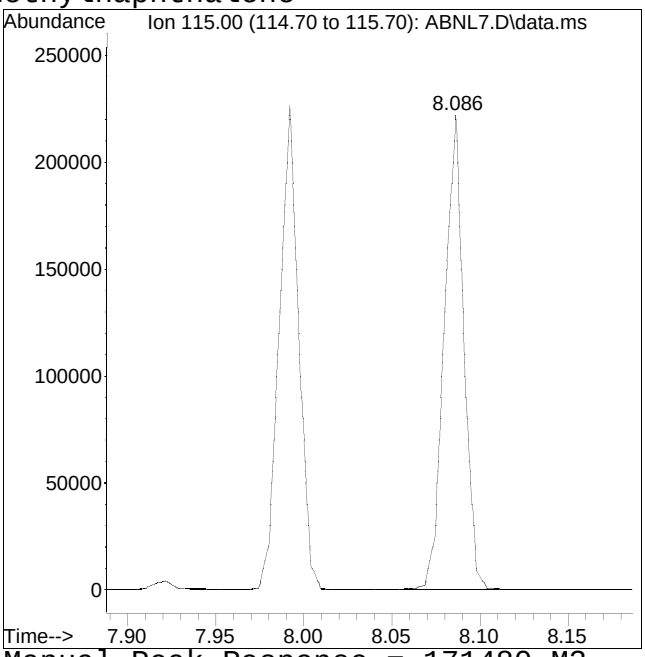


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL7.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 9:39 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 4/19/2024 1:19 pm

Compound #41: 1-Methylnaphthalene





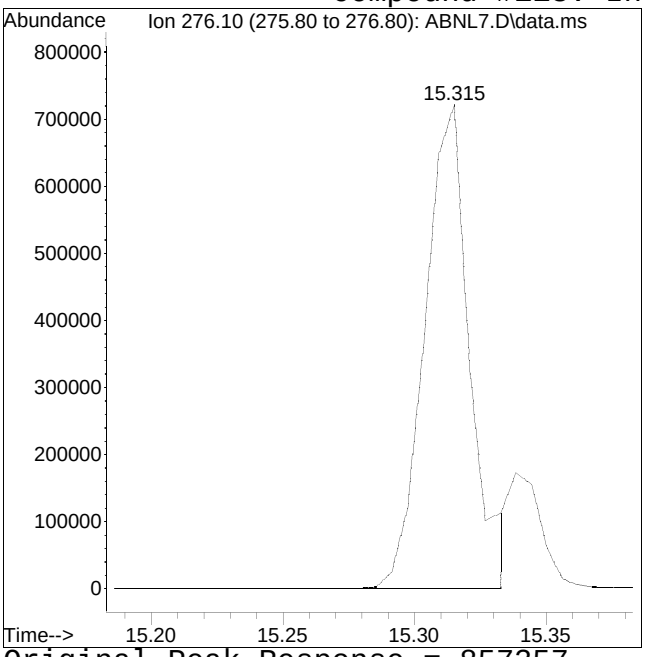
Original Peak Response = 173498 Manual Peak Response = 171480 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

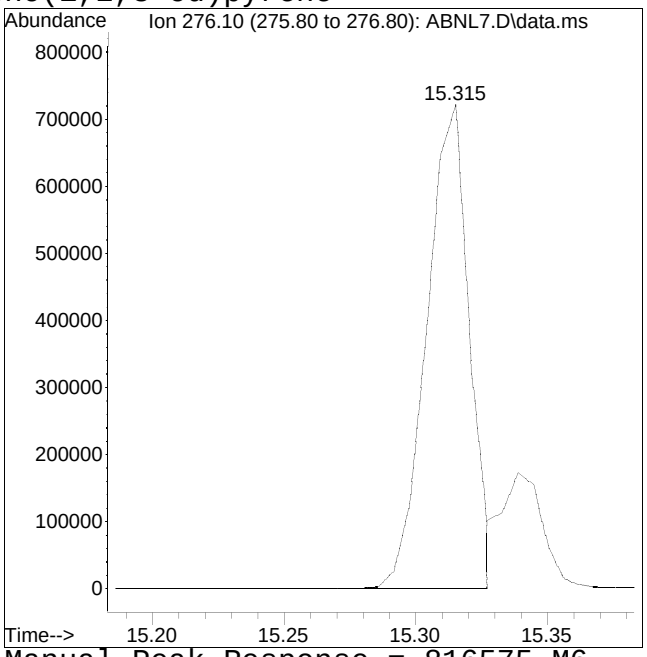
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL7.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 9:39 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 4/19/2024 1:19 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 857357



Manual Peak Response = 816575 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	64818	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.239	136	235233	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.010	164	162232	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	10.421	188	354854	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 100.00%			
103) IS1_Chrysene-d12	12.974	240	311680	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 100.00%			
112) IS1_Perylene-d12	14.380	264	327460	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.128	112	84890	5.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%			
7) Phenol-d6	5.351	99	113207	5.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%			
19) Nitrobenzene-d5	6.451	82	121815	5.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#			
45) 2-Fluorobiphenyl	8.386	172	253818	5.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#			
78) 2,4,6-Tribromophenol	9.769	330	41766	5.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%			
95) 4-Terphenyl-d14	11.998	244	348525	5.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.393	74	58616	5.000	ug/ml	84
3) Pyridine	1.422	79	98600	5.000	ug/ml#	67
5) Aniline	5.257	93	142439	5.000	ug/ml	99
6) 2-Chlorophenol	5.422	128	95712	5.000	ug/ml	96
8) Phenol	5.369	94	120082	5.000	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.434	93	94863	5.000	ug/ml#	81
10) 1,3-Dichlorobenzene	5.628	146	107203	5.000	ug/ml	95
11) 1,4-Dichlorobenzene	5.745	146	107404	5.000	ug/ml	92
12) 1,2-Dichlorobenzene	5.939	146	102579	5.000	ug/ml	93
13) Benzyl alcohol	5.986	79	92989	5.000	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.181	45	139255	5.000	ug/ml#	48

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	83610	5.000	ug/ml	99
16) Hexachloroethane	6.357	117	47097	5.000	ug/ml#	60
17) n-Nitrosodi-n-propylamine	6.339	70	81304	5.000	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.392	108	91899	5.000	ug/ml	98
20) Nitrobenzene	6.469	77	119635	5.000	ug/ml	91
21) Isophorone	6.775	82	209407	5.000	ug/ml#	91
22) 2-Nitrophenol	6.845	139	47252	5.000	ug/ml#	89
23) 2,4-Dimethylphenol	6.986	107	97775	5.000	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.075	93	126632	5.000	ug/ml	99
25) 2,4-Dichlorophenol	7.128	162	90529	5.000	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.198	180	105393	5.000	ug/ml	99
35) Naphthalene	7.257	128	288724	5.000	ug/ml	100
36) Benzoic Acid	7.104	105	69216	5.000	ug/ml	92
37) 4-Chloroaniline	7.369	65	44557	5.000	ug/ml	93
38) Hexachlorobutadiene	7.445	225	73463	5.000	ug/ml	97
39) p-Chloro-m-cresol	7.922	107	93519	5.000	ug/ml	93
40) 2-Methylnaphthalene	7.992	142	196664	5.000	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	79698	5.000	ug/ml	72
42) Hexachlorocyclopentadiene	8.175	237	76439	5.000	ug/ml	96
43) 2,4,6-Trichlorophenol	8.298	196	77974	5.000	ug/ml	96
44) 2,4,5-Trichlorophenol	8.327	196	84144	5.000	ug/ml	99
46) 2-Chloronaphthalene	8.469	162	204944	5.000	ug/ml	97
47) 2-Nitroaniline	8.592	138	60872	5.000	ug/ml	94
48) 1,4-Dinitrobenzene	8.733	168	33446	5.000	ug/ml	95
49) 1,3-Dinitrobenzene	8.804	168	37989	5.000	ug/ml#	1
50) Dimethyl phthalate	8.816	163	275703	5.000	ug/ml#	98
51) Acenaphthylene	8.863	152	321135	5.000	ug/ml	99
52) 2,6-Dinitrotoluene	8.851	165	56121	5.000	ug/ml#	84
53) 1,2-Dinitrobenzene	8.880	168	22645	5.000	ug/ml#	1
63) 3-Nitroaniline	8.998	138	56258	5.000	ug/ml#	82
64) Acenaphthene	9.039	154	187063	5.000	ug/ml	91
65) 2,4-Dinitrophenol	9.098	184	32499	5.000	ug/ml	96
66) Dibenzofuran	9.210	168	310524	5.000	ug/ml#	72
67) 2,4-Dinitrotoluene	9.233	165	80364	5.000	ug/ml	89
68) 4-Nitrophenol	9.204	65	64457	5.000	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	73470	5.000	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.351	232	69511	5.000	ug/ml	96
71) Diethyl phthalate	9.504	149	279792	5.000	ug/ml	98
72) Fluorene	9.533	166	251362	5.000	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.569	204	129908	5.000	ug/ml	94

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.580	138	57811	5.000	ug/ml#	78
75) 4,6-Dinitro-o-cresol	9.616	198	44599	5.000	ug/ml#	67
76) NDPA/DPA	9.686	169	214110	5.000	ug/ml	97
77) Azobenzene	9.716	77	268268	5.000	ug/ml	99
79) 4-Bromophenyl phenyl e...	10.033	248	79617	5.000	ug/ml	90
80) Hexachlorobenzene	10.069	284	88757	5.000	ug/ml#	85
81) Pentachlorophenol	10.269	266	56432	5.000	ug/ml	98
88) Phenanthrene	10.445	178	388694	5.000	ug/ml	99
89) Anthracene	10.492	178	393908	5.000	ug/ml	99
90) Carbazole	10.669	167	373103	5.000	ug/ml	100
91) Di-n-butylphthalate	11.086	149	462082	5.000	ug/ml	100
92) Fluoranthene	11.580	202	463916	5.000	ug/ml#	89
93) Benzidine	11.751	184	291302	5.000	ug/ml#	94
94) Pyrene	11.786	202	485340	5.000	ug/ml	98
96) Butyl benzyl phthalate	12.515	149	196746	5.000	ug/ml	92
104) Benzo(a)anthracene	12.968	228	466739	5.000	ug/ml	100
105) 3,3'-Dichlorobenzidine	12.986	252	166492	5.000	ug/ml#	97
106) Chrysene	12.998	228	449032	5.000	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.139	149	286705	5.000	ug/ml#	92
108) Di-n-octylphthalate	13.798	149	472908	5.000	ug/ml#	74
109) Benzo(b)fluoranthene	14.027	252	453829	5.000	ug/ml#	92
110) Benzo(k)fluoranthene	14.051	252	400154	5.000	ug/ml#	93
111) Benzo(a)pyrene	14.321	252	387129	5.000	ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	15.309	276	365759	5.000	ug/mL#	87
114) Dibenzo(a,h)anthracene	15.339	278	358448	5.000	ug/ml#	89
115) Benzo(ghi)perylene	15.515	276	346732	5.000	ug/ml#	83

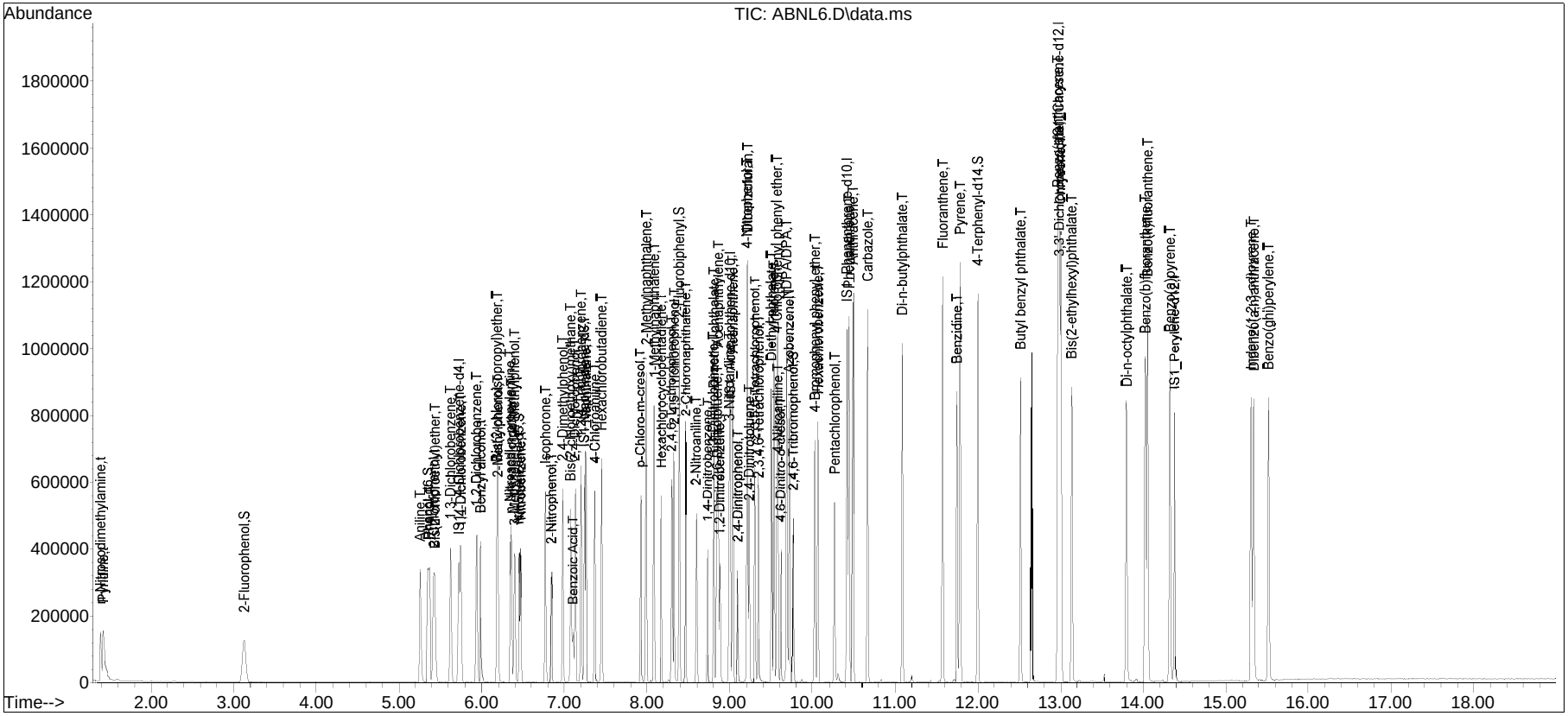
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ABNL6.D	Operator	: SV106:cmm
Date Inj'd	: 4/18/2024 10:03 pm	Instrument	: SV 106
Sample	: IL5,32,,ABNL5 Lot# 10694	Quant Date	: 4/19/2024 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	64714	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 99.84%			
34) IS1_Naphthalene-d8	7.239	136	232974	4.000	ug/ml #	0.00
Standard Area 1 = 235233			Recovery = 99.04%			
62) IS1_Acenaphthene-d10	9.004	164	155343	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 95.75%			
87) IS1_Phenanthrene-d10	10.422	188	339341	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 95.63%			
103) IS1_Chrysene-d12	12.974	240	302775	4.000	ug/ml #	0.00
Standard Area 1 = 311680			Recovery = 97.14%			
112) IS1_Perylene-d12	14.380	264	315479	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 96.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.128	112	42273	2.494	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49.88%			
7) Phenol-d6	5.351	99	55405	2.451	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49.02%			
19) Nitrobenzene-d5	6.451	82	57168	2.350	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 94.00%			
45) 2-Fluorobiphenyl	8.386	172	125883	2.504	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 100.16%			
78) 2,4,6-Tribromophenol	9.769	330	20560	2.570	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.40%			
95) 4-Terphenyl-d14	11.998	244	175427	2.632	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 105.28%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.393	74	28968	2.475	ug/ml	80
3) Pyridine	1.428	79	48652	2.471	ug/ml#	66
5) Aniline	5.257	93	72037	2.533	ug/ml	97
6) 2-Chlorophenol	5.416	128	45814	2.397	ug/ml	98
8) Phenol	5.369	94	58688	2.448	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.439	93	47906	2.529	ug/ml#	84
10) 1,3-Dichlorobenzene	5.628	146	51859	2.423	ug/ml	93
11) 1,4-Dichlorobenzene	5.739	146	54080	2.522	ug/ml	95
12) 1,2-Dichlorobenzene	5.939	146	50608	2.471	ug/ml	94
13) Benzyl alcohol	5.987	79	44213	2.381	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.181	45	66946	2.408	ug/ml#	45

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.186	108	41105	2.462	ug/ml	95
16) Hexachloroethane	6.357	117	24101	2.563	ug/ml#	63
17) n-Nitrosodi-n-propylamine	6.339	70	37531	2.312	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.392	108	45926	2.503	ug/ml#	99
20) Nitrobenzene	6.469	77	57369	2.402	ug/ml	92
21) Isophorone	6.775	82	99959	2.391	ug/ml#	91
22) 2-Nitrophenol	6.845	139	22420	2.376	ug/ml#	90
23) 2,4-Dimethylphenol	6.986	107	47966	2.457	ug/ml	90
24) Bis(2-chloroethoxy)met...	7.075	93	62348	2.466	ug/ml	98
25) 2,4-Dichlorophenol	7.128	162	42884	2.372	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.198	180	51649	2.454	ug/ml	99
35) Naphthalene	7.257	128	142633	2.494	ug/ml	99
36) Benzoic Acid	7.086	105	31758	2.316	ug/ml	94
37) 4-Chloroaniline	7.369	65	21787	2.469	ug/ml	89
38) Hexachlorobutadiene	7.445	225	36401	2.502	ug/ml	99
39) p-Chloro-m-cresol	7.916	107	44975	2.428	ug/ml	96
40) 2-Methylnaphthalene	7.992	142	97519	2.503	ug/ml#	95
41) 1-Methylnaphthalene	8.086	115	39353	2.493	ug/ml	76
42) Hexachlorocyclopentadiene	8.175	237	37402	2.470	ug/ml	96
43) 2,4,6-Trichlorophenol	8.298	196	38928	2.520	ug/ml	98
44) 2,4,5-Trichlorophenol	8.328	196	39161	2.350	ug/ml	97
46) 2-Chloronaphthalene	8.463	162	101464	2.499	ug/ml	98
47) 2-Nitroaniline	8.592	138	29376	2.436	ug/ml	92
48) 1,4-Dinitrobenzene	8.733	168	15147	2.286	ug/ml	99
49) 1,3-Dinitrobenzene	8.804	168	17913	2.381	ug/ml#	1
50) Dimethyl phthalate	8.810	163	135194	2.476	ug/ml#	98
51) Acenaphthylene	8.863	152	159085	2.501	ug/ml	99
52) 2,6-Dinitrotoluene	8.845	165	26832	2.414	ug/ml#	79
53) 1,2-Dinitrobenzene	8.880	168	11246	2.507	ug/ml#	1
63) 3-Nitroaniline	8.992	138	27832	2.583	ug/ml#	85
64) Acenaphthene	9.033	154	93145	2.600	ug/ml	94
65) 2,4-Dinitrophenol	9.098	184	14858	2.387	ug/ml	92
66) Dibenzofuran	9.210	168	157906	2.655	ug/ml#	73
67) 2,4-Dinitrotoluene	9.227	165	38831	2.523	ug/ml#	92
68) 4-Nitrophenol	9.204	65	31429	2.546	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	33966	2.414	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.345	232	33988	2.553	ug/ml	96
71) Diethyl phthalate	9.504	149	138273	2.581	ug/ml	99
72) Fluorene	9.533	166	124077	2.578	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.569	204	65387	2.628	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	27212	2.458	ug/ml#	71
75)	4,6-Dinitro-o-cresol	9.616	198	20707	2.424	ug/ml#	67
76)	NDPA/DPA	9.686	169	104994	2.561	ug/ml	95
77)	Azobenzene	9.716	77	128732	2.506	ug/ml	99
79)	4-Bromophenyl phenyl e...	10.033	248	39912	2.618	ug/ml#	88
80)	Hexachlorobenzene	10.069	284	46569	2.740	ug/ml#	85
81)	Pentachlorophenol	10.269	266	26956	2.494	ug/ml	96
88)	Phenanthrene	10.445	178	194063	2.610	ug/ml	98
89)	Anthracene	10.492	178	195450	2.594	ug/ml	98
90)	Carbazole	10.669	167	184945	2.592	ug/ml	99
91)	Di-n-butylphthalate	11.086	149	221326	2.504	ug/ml	99
92)	Fluoranthene	11.574	202	229795	2.590	ug/ml#	90
93)	Benzidine	11.751	184	132104	2.371	ug/ml#	94
94)	Pyrene	11.786	202	243980	2.628	ug/ml	99
96)	Butyl benzyl phthalate	12.515	149	91022	2.419	ug/ml	96
104)	Benzo(a)anthracene	12.963	228	231341	2.551	ug/ml	100
105)	3,3'-Dichlorobenzidine	12.986	252	78380	2.423	ug/ml	97
106)	Chrysene	12.998	228	227630	2.609	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.139	149	140111	2.515	ug/ml#	92
108)	Di-n-octylphthalate	13.792	149	217017	2.362	ug/ml#	74
109)	Benzo(b)fluoranthene	14.021	252	211427	2.398	ug/ml#	93
110)	Benzo(k)fluoranthene	14.051	252	219618	2.825	ug/ml#	92
111)	Benzo(a)pyrene	14.321	252	196968	2.619	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	15.304	276	170757M6	2.423	ug/mL	
114)	Dibenzo(a,h)anthracene	15.339	278	173139	2.507	ug/ml#	90
115)	Benzo(ghi)perylene	15.515	276	172485	2.582	ug/ml#	83

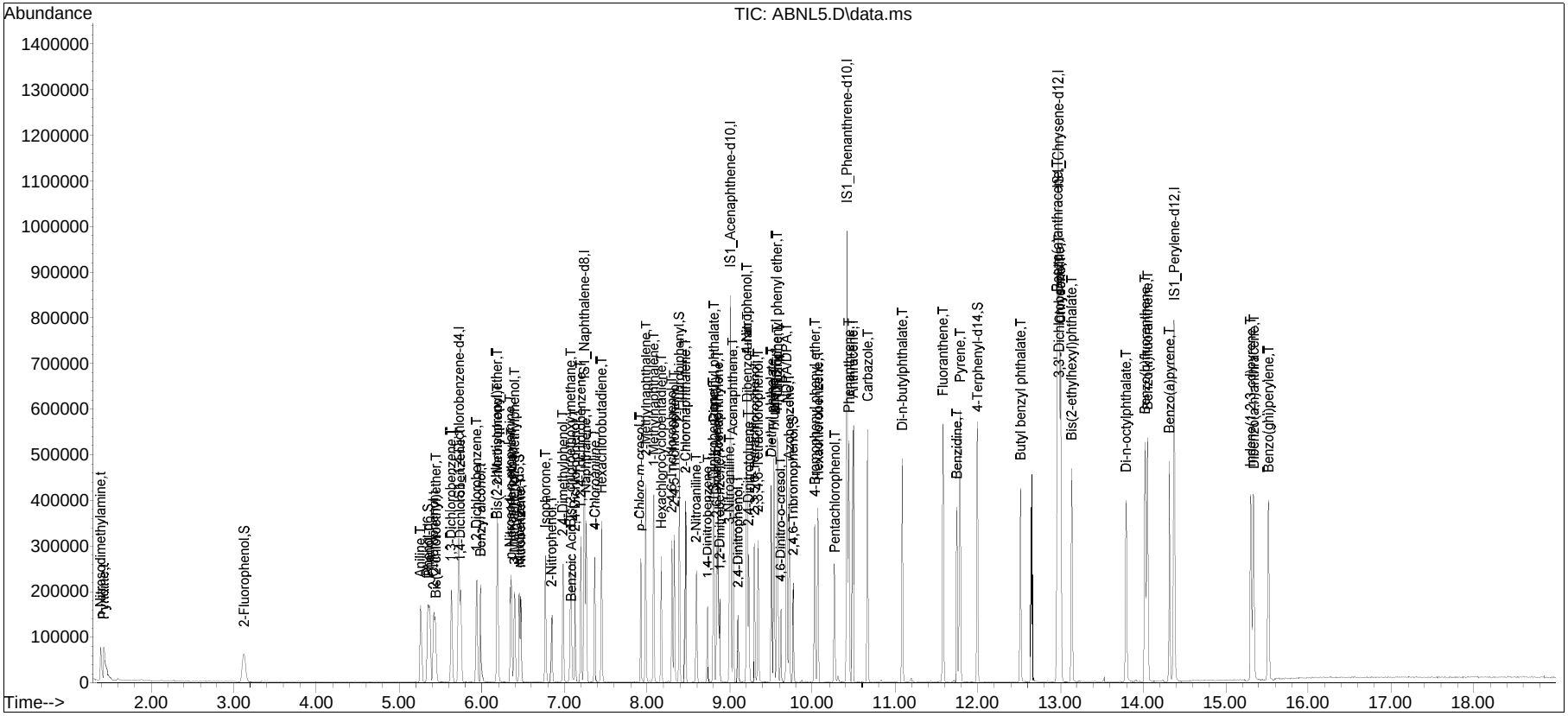
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

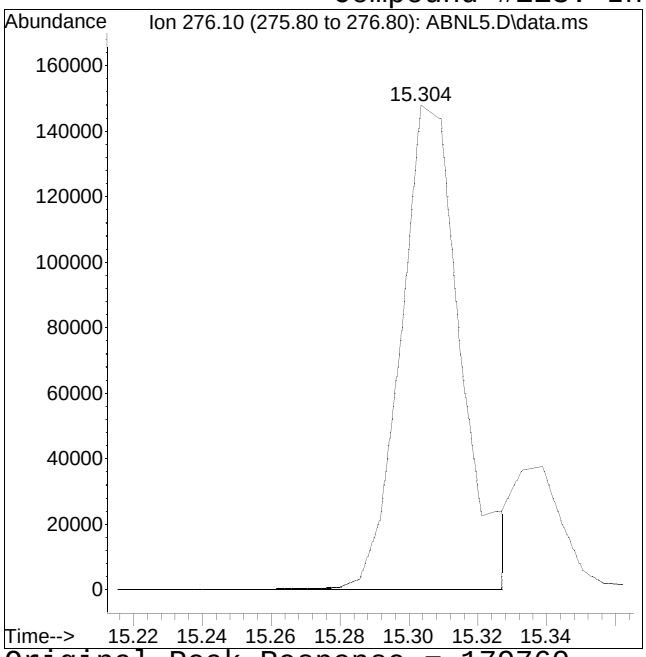
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



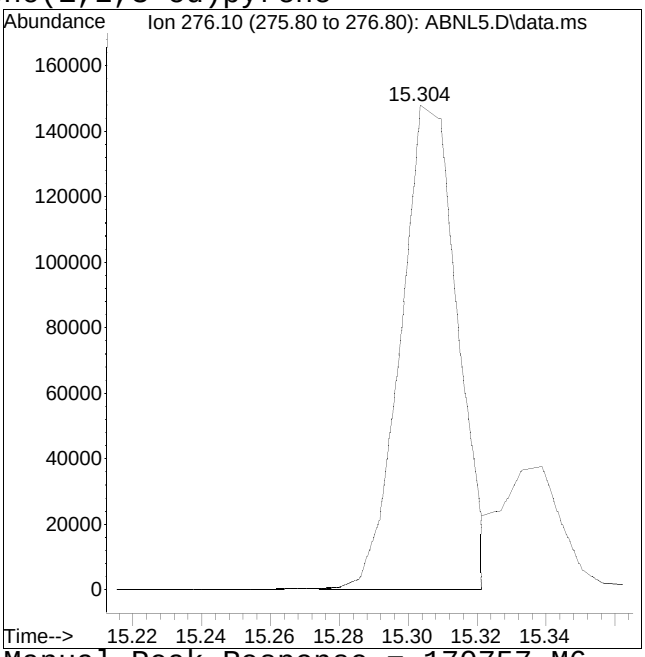
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL5.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 10:27 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 4/19/2024 1:19 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 179760



Manual Peak Response = 170757 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.716	152	60991	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 94.10%			
34) IS1_Naphthalene-d8	7.239	136	225810	4.000	ug/ml #	0.00
Standard Area 1 = 235233			Recovery = 95.99%			
62) IS1_Acenaphthene-d10	9.004	164	150429	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 92.72%			
87) IS1_Phenanthrene-d10	10.422	188	331413	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 93.39%			
103) IS1_Chrysene-d12	12.974	240	293705	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 94.23%			
112) IS1_Perylene-d12	14.380	264	302646	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 92.42%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.116	112	14489	0.907	ug/ml	-0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 18.14%			
7) Phenol-d6	5.351	99	20729	0.973	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19.46%			
19) Nitrobenzene-d5	6.451	82	22773	0.993	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39.72%			
45) 2-Fluorobiphenyl	8.386	172	48393	0.993	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39.72%			
78) 2,4,6-Tribromophenol	9.769	330	7248	0.936	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 18.72%			
95) 4-Terphenyl-d14	11.998	244	67976	1.044	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.76%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.399	74	10852	0.984	ug/ml#	84
3) Pyridine	1.452	79	15477	0.834	ug/ml#	65
5) Aniline	5.263	93	25738	0.960	ug/ml	98
6) 2-Chlorophenol	5.422	128	16707	0.928	ug/ml	98
8) Phenol	5.369	94	22157	0.980	ug/ml#	89
9) Bis(2-chloroethyl)ether	5.440	93	18015	1.009	ug/ml#	81
10) 1,3-Dichlorobenzene	5.628	146	20635	1.023	ug/ml	97
11) 1,4-Dichlorobenzene	5.740	146	20192	0.999	ug/ml	89
12) 1,2-Dichlorobenzene	5.940	146	19244	0.997	ug/ml	99
13) Benzyl alcohol	5.987	79	16924	0.967	ug/ml	91
14) Bis(2-chloroisopropyl)...	6.181	45	26311	1.004	ug/ml#	50

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.187	108	15062	0.957	ug/ml#	97
16) Hexachloroethane	6.357	117	8678	0.979	ug/ml#	69
17) n-Nitrosodi-n-propylamine	6.345	70	15126	0.989	ug/ml#	87
18) 3-Methylphenol/4-Methy...	6.392	108	16594	0.959	ug/ml	99
20) Nitrobenzene	6.475	77	20687	0.919	ug/ml	97
21) Isophorone	6.775	82	38642	0.981	ug/ml	95
22) 2-Nitrophenol	6.851	139	8762	0.985	ug/ml#	92
23) 2,4-Dimethylphenol	6.987	107	17730	0.964	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.075	93	25040	1.051	ug/ml	98
25) 2,4-Dichlorophenol	7.128	162	16288	0.956	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.198	180	19492	0.983	ug/ml	96
35) Naphthalene	7.263	128	54055	0.975	ug/ml	98
36) Benzoic Acid	7.069	105	10957	0.825	ug/ml	96
37) 4-Chloroaniline	7.369	65	8528	0.997	ug/ml	93
38) Hexachlorobutadiene	7.445	225	13570	0.962	ug/ml	95
39) p-Chloro-m-cresol	7.922	107	18274	1.018	ug/ml	92
40) 2-Methylnaphthalene	7.992	142	36817	0.975	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	15475M3	1.011	ug/ml	
42) Hexachlorocyclopentadiene	8.175	237	14480	0.987	ug/ml	99
43) 2,4,6-Trichlorophenol	8.298	196	14035	0.938	ug/ml	99
44) 2,4,5-Trichlorophenol	8.328	196	14859	0.920	ug/ml	97
46) 2-Chloronaphthalene	8.463	162	41090	1.044	ug/ml	96
47) 2-Nitroaniline	8.592	138	11180	0.957	ug/ml	96
48) 1,4-Dinitrobenzene	8.733	168	5634	0.877	ug/ml	98
49) 1,3-Dinitrobenzene	8.804	168	6234	0.855	ug/ml#	1
50) Dimethyl phthalate	8.810	163	53014	1.002	ug/ml#	98
51) Acenaphthylene	8.863	152	59714	0.969	ug/ml	100
52) 2,6-Dinitrotoluene	8.845	165	10254	0.952	ug/ml#	81
53) 1,2-Dinitrobenzene	8.880	168	4203	0.967	ug/ml#	1
63) 3-Nitroaniline	8.998	138	10150	0.973	ug/ml#	65
64) Acenaphthene	9.033	154	36617	1.056	ug/ml	94
65) 2,4-Dinitrophenol	9.098	184	5009	0.831	ug/ml#	83
66) Dibenzofuran	9.210	168	60523	1.051	ug/ml#	71
67) 2,4-Dinitrotoluene	9.228	165	14057	0.943	ug/ml	87
68) 4-Nitrophenol	9.204	65	10392	0.869	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	13146	0.965	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.345	232	12938	1.004	ug/ml	97
71) Diethyl phthalate	9.504	149	53342	1.028	ug/ml	99
72) Fluorene	9.533	166	51209	1.099	ug/ml	99
73) 4-Chlorophenyl phenyl ...	9.569	204	26449	1.098	ug/ml	92

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	10960	1.022	ug/ml#	83
75)	4,6-Dinitro-o-cresol	9.616	198	7287	0.881	ug/ml#	71
76)	NDPA/DPA	9.686	169	40680	1.025	ug/ml	94
77)	Azobenzene	9.716	77	49915	1.003	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.033	248	15202	1.030	ug/ml	88
80)	Hexachlorobenzene	10.069	284	17080	1.038	ug/ml#	85
81)	Pentachlorophenol	10.269	266	9154	0.875	ug/ml	99
88)	Phenanthrene	10.445	178	76381	1.052	ug/ml	99
89)	Anthracene	10.492	178	77115	1.048	ug/ml	98
90)	Carbazole	10.669	167	70897	1.017	ug/ml	100
91)	Di-n-butylphthalate	11.086	149	81865	0.948	ug/ml	98
92)	Fluoranthene	11.580	202	88674	1.023	ug/ml#	93
93)	Benzidine	11.751	184	46889	0.862	ug/ml#	95
94)	Pyrene	11.786	202	93139	1.027	ug/ml	98
96)	Butyl benzyl phthalate	12.516	149	33157	0.902	ug/ml	94
104)	Benzo(a)anthracene	12.963	228	88727	1.009	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.986	252	28938	0.922	ug/ml	97
106)	Chrysene	12.998	228	91393	1.080	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.139	149	51569	0.954	ug/ml#	91
108)	Di-n-octylphthalate	13.792	149	77121	0.865	ug/ml#	73
109)	Benzo(b)fluoranthene	14.021	252	78611	0.919	ug/ml#	92
110)	Benzo(k)fluoranthene	14.051	252	84294	1.118	ug/ml#	93
111)	Benzo(a)pyrene	14.321	252	71947	0.986	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	15.304	276	68228	1.009	ug/mL#	86
114)	Dibenzo(a,h)anthracene	15.333	278	66018	0.996	ug/ml#	90
115)	Benzo(ghi)perylene	15.515	276	65343	1.020	ug/ml#	85

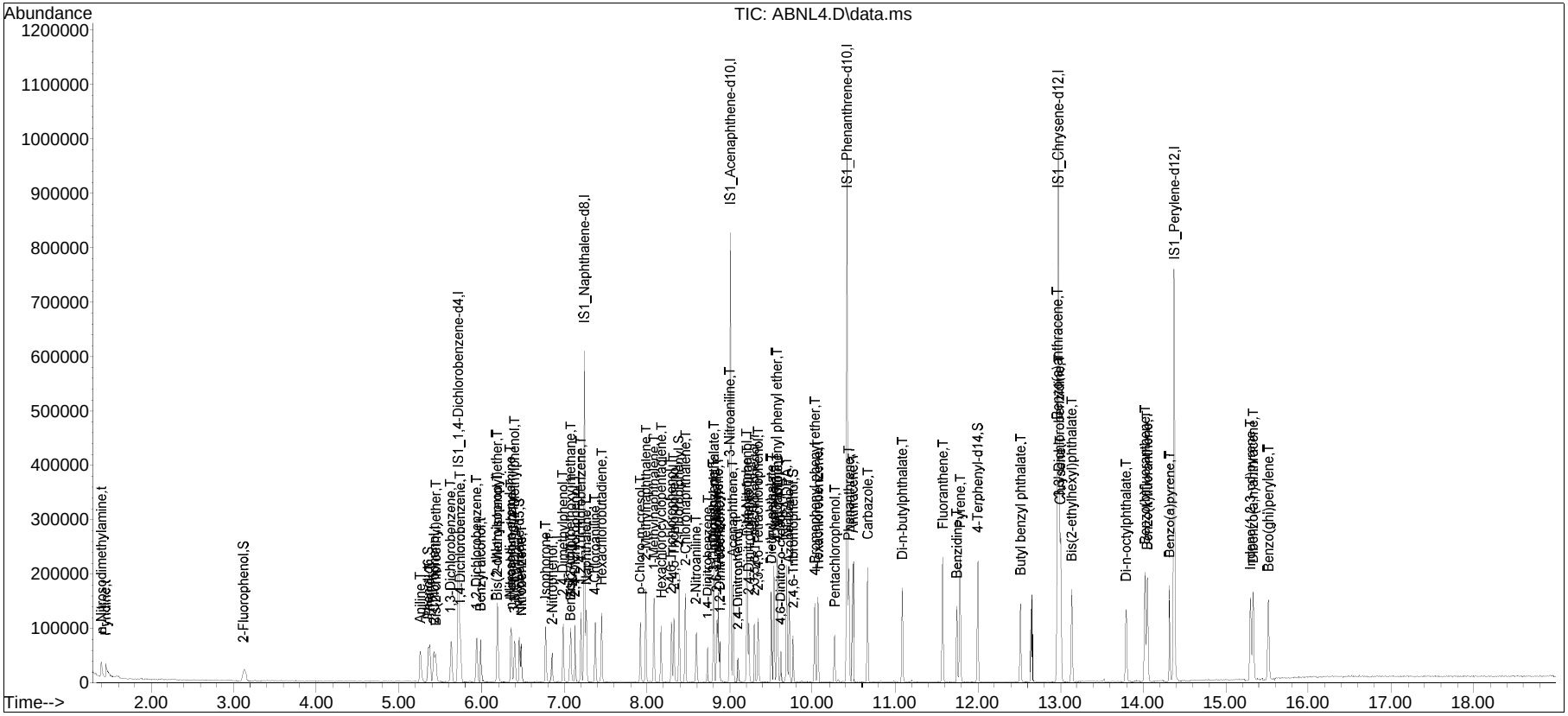
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

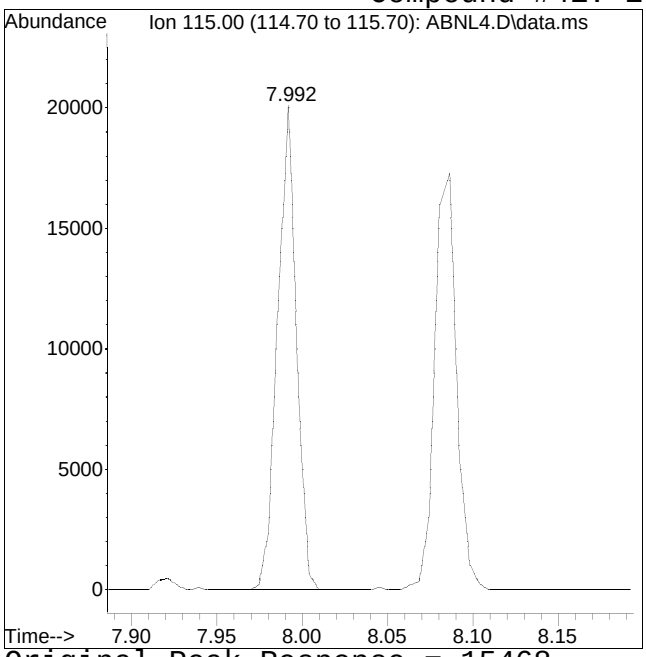
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

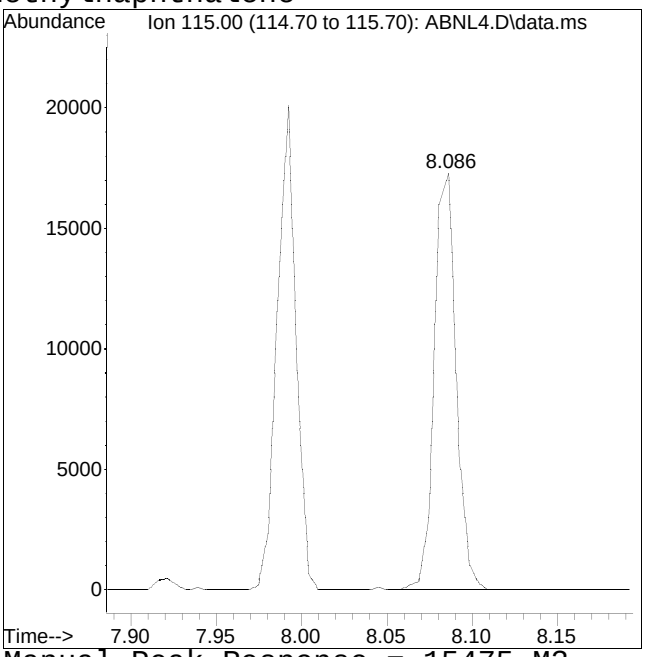


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL4.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 10:51 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 4/19/2024 1:19 pm

Compound #41: 1-Methylnaphthalene





Original Peak Response = 15468 Manual Peak Response = 15475 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	61248	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 94.49%			
34) IS1_Naphthalene-d8	7.239	136	219448	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 93.29%			
62) IS1_Acenaphthene-d10	9.004	164	147890	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 91.16%			
87) IS1_Phenanthrene-d10	10.421	188	326641	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 92.05%			
103) IS1_Chrysene-d12	12.974	240	283933	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 91.10%			
112) IS1_Perylene-d12	14.380	264	299020	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 91.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	9516	0.593	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 11.86%#			
7) Phenol-d6	5.351	99	11919	0.557	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 11.14%#			
19) Nitrobenzene-d5	6.451	82	12986	0.564	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 22.56%#			
45) 2-Fluorobiphenyl	8.386	172	27773	0.586	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 23.44%#			
78) 2,4,6-Tribromophenol	9.769	330	4680	0.615	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 12.30%#			
95) 4-Terphenyl-d14	11.992	244	35852	0.559	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 22.36%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.404	74	6085	0.549	ug/ml#	81
3) Pyridine	1.469	79	8974	0.482	ug/ml#	32
5) Aniline	5.263	93	15618	0.580	ug/ml	92
6) 2-Chlorophenol	5.422	128	9669	0.535	ug/ml	97
8) Phenol	5.369	94	13397	0.590	ug/ml	95
9) Bis(2-chloroethyl)ether	5.445	93	9834	0.549	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	11472	0.566	ug/ml	93
11) 1,4-Dichlorobenzene	5.745	146	12378M3	0.610	ug/ml	
12) 1,2-Dichlorobenzene	5.939	146	11729	0.605	ug/ml	95
13) Benzyl alcohol	5.992	79	9449	0.538	ug/ml	89
14) Bis(2-chloroisopropyl)...	6.186	45	15112	0.574	ug/ml#	44

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	8777	0.555	ug/ml	98
16) Hexachloroethane	6.357	117	4840	0.544	ug/ml#	55
17) n-Nitrosodi-n-propylamine	6.345	70	7986	0.520	ug/ml#	93
18) 3-Methylphenol/4-Methy...	6.392	108	10310	0.594	ug/ml	90
20) Nitrobenzene	6.475	77	11465	0.507	ug/ml	94
21) Isophorone	6.781	82	21138	0.534	ug/ml#	87
22) 2-Nitrophenol	6.851	139	4692	0.525	ug/ml#	92
23) 2,4-Dimethylphenol	6.986	107	9652	0.522	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.080	93	13036	0.545	ug/ml#	96
25) 2,4-Dichlorophenol	7.128	162	8863	0.518	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.198	180	11351	0.570	ug/ml	96
35) Naphthalene	7.257	128	33424	0.620	ug/ml	98
36) Benzoic Acid	7.063	105	3337	0.258	ug/ml	90
37) 4-Chloroaniline	7.369	65	4846	0.583	ug/ml	81
38) Hexachlorobutadiene	7.445	225	8393	0.612	ug/ml	98
39) p-Chloro-m-cresol	7.922	107	9063	0.519	ug/ml	92
40) 2-Methylnaphthalene	7.992	142	20740	0.565	ug/ml#	92
41) 1-Methylnaphthalene	8.086	115	8805	0.592	ug/ml#	68
42) Hexachlorocyclopentadiene	8.175	237	7635	0.535	ug/ml	93
43) 2,4,6-Trichlorophenol	8.298	196	6962	0.479	ug/ml	97
44) 2,4,5-Trichlorophenol	8.327	196	8194	0.522	ug/ml	95
46) 2-Chloronaphthalene	8.463	162	22700	0.594	ug/ml	96
47) 2-Nitroaniline	8.592	138	6043	0.532	ug/ml	94
48) 1,4-Dinitrobenzene	8.733	168	3442	0.552	ug/ml	82
49) 1,3-Dinitrobenzene	8.810	168	3937	0.555	ug/ml#	1
50) Dimethyl phthalate	8.810	163	28093	0.546	ug/ml#	95
51) Acenaphthylene	8.863	152	33337	0.556	ug/ml	99
52) 2,6-Dinitrotoluene	8.845	165	4873	0.465	ug/ml#	72
53) 1,2-Dinitrobenzene	8.880	168	2521	0.597	ug/ml	99
63) 3-Nitroaniline	8.992	138	5351	0.522	ug/ml#	47
64) Acenaphthene	9.033	154	19037	0.558	ug/ml	88
65) 2,4-Dinitrophenol	9.098	184	1841	0.311	ug/ml	95
66) Dibenzofuran	9.210	168	34329	0.606	ug/ml#	80
67) 2,4-Dinitrotoluene	9.227	165	8401	0.573	ug/ml#	80
68) 4-Nitrophenol	9.204	65	5226	0.445	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	6045	0.451	ug/ml	95
70) 2,3,4,6-Tetrachlorophenol	9.345	232	6851	0.541	ug/ml	95
71) Diethyl phthalate	9.504	149	28547	0.560	ug/ml	98
72) Fluorene	9.533	166	26230	0.572	ug/ml	97
73) 4-Chlorophenyl phenyl ...	9.569	204	14410	0.608	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.574	138	5647	0.536	ug/ml#	86
75)	4,6-Dinitro-o-cresol	9.616	198	3575	0.440	ug/ml#	77
76)	NDPA/DPA	9.686	169	20900	0.535	ug/ml	90
77)	Azobenzene	9.716	77	29129	0.596	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.033	248	8841	0.609	ug/ml#	85
80)	Hexachlorobenzene	10.069	284	9363	0.579	ug/ml	87
81)	Pentachlorophenol	10.269	266	4707	0.457	ug/ml	92
88)	Phenanthrene	10.445	178	41660	0.582	ug/ml	99
89)	Anthracene	10.492	178	40760	0.562	ug/ml	97
90)	Carbazole	10.668	167	37148	0.541	ug/ml	98
91)	Di-n-butylphthalate	11.086	149	43066	0.506	ug/ml	97
92)	Fluoranthene	11.580	202	47429	0.555	ug/ml#	90
93)	Benzidine	11.751	184	23762	0.443	ug/ml#	95
94)	Pyrene	11.786	202	52551	0.588	ug/ml	96
96)	Butyl benzyl phthalate	12.515	149	18261	0.504	ug/ml	88
104)	Benzo(a)anthracene	12.962	228	47424	0.558	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.986	252	15631	0.515	ug/ml	96
106)	Chrysene	12.998	228	50483	0.617	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.139	149	27283	0.522	ug/ml#	92
108)	Di-n-octylphthalate	13.792	149	40918	0.475	ug/ml#	76
109)	Benzo(b)fluoranthene	14.021	252	42172	0.510	ug/ml#	95
110)	Benzo(k)fluoranthene	14.051	252	44657	0.613	ug/ml#	92
111)	Benzo(a)pyrene	14.321	252	37671	0.534	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	15.303	276	34577	0.518	ug/mL#	86
114)	Dibenzo(a,h)anthracene	15.333	278	34890	0.533	ug/ml#	91
115)	Benzo(ghi)perylene	15.515	276	34165	0.540	ug/ml#	84

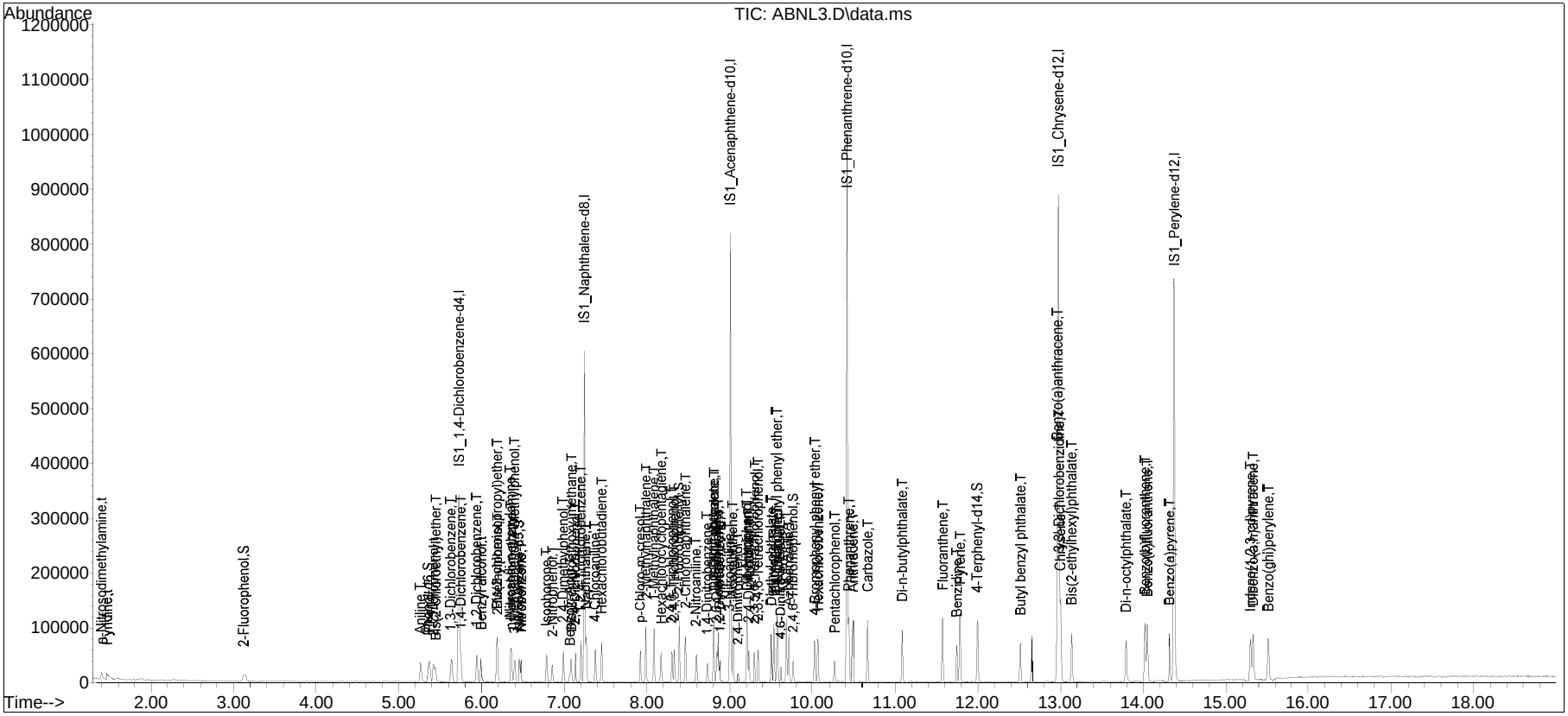
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

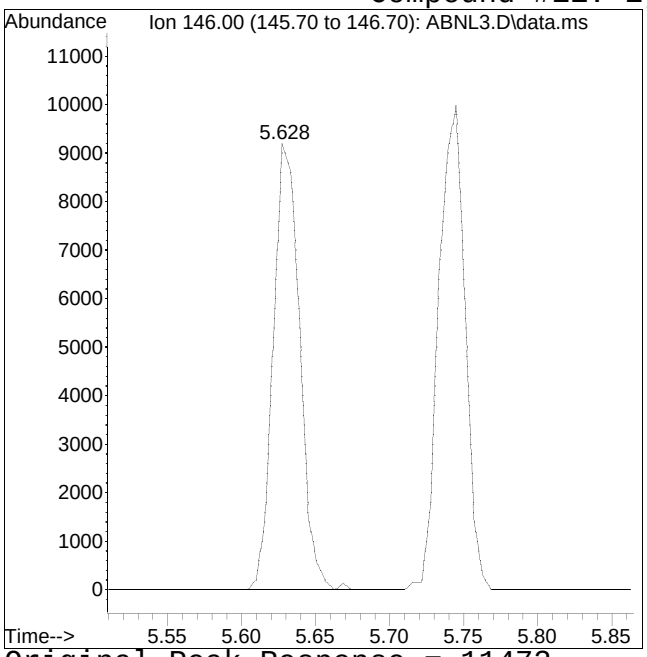
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

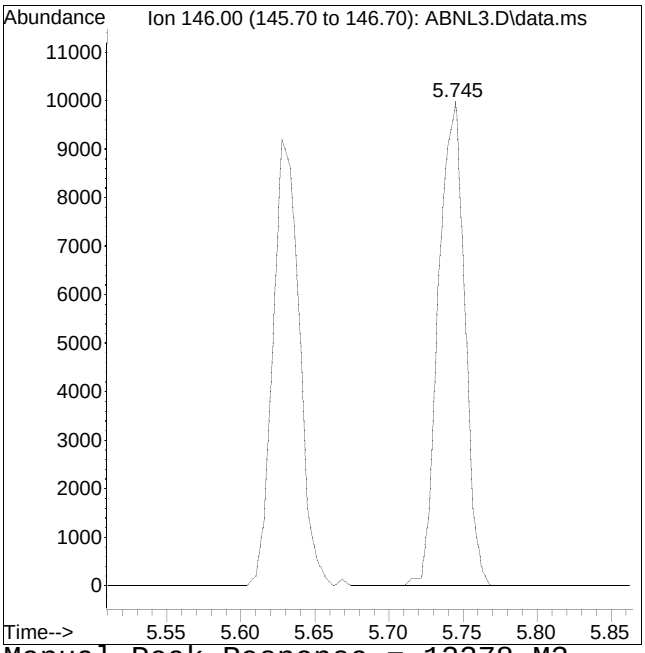


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL3.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:15 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 4/19/2024 1:19 pm

Compound #11: 1,4-Dichlorobenzene





Original Peak Response = 11472 Manual Peak Response = 12378 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.722	152	62113	4.000 ug/ml	0.00
Standard Area 1 = 64818			Recovery = 95.83%		
34) IS1_Naphthalene-d8	7.239	136	228711	4.000 ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 97.23%		
62) IS1_Acenaphthene-d10	9.004	164	153406	4.000 ug/ml	0.00
Standard Area 1 = 162232			Recovery = 94.56%		
87) IS1_Phenanthrene-d10	10.422	188	337870	4.000 ug/ml	0.00
Standard Area 1 = 354854			Recovery = 95.21%		
103) IS1_Chrysene-d12	12.974	240	289762	4.000 ug/ml	0.00
Standard Area 1 = 311680			Recovery = 92.97%		
112) IS1_Perylene-d12	14.374	264	301663	4.000 ug/ml	0.00
Standard Area 1 = 327460			Recovery = 92.12%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.128	112	3701	0.227 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4.54%#		
7) Phenol-d6	5.351	99	4896	0.226 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4.52%#		
19) Nitrobenzene-d5	6.451	82	5144	0.220 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.80%#		
45) 2-Fluorobiphenyl	8.386	172	12220	0.248 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9.92%#		
78) 2,4,6-Tribromophenol	9.769	330	1455	0.184 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.68%#		
95) 4-Terphenyl-d14	11.998	244	15843	0.239 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9.56%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.404	74	2720	0.242 ug/ml#	75
3) Pyridine	1.499	79	3367M1	0.178 ug/ml	
5) Aniline	5.269	93	6652	0.244 ug/ml	94
6) 2-Chlorophenol	5.422	128	4144	0.226 ug/ml	95
8) Phenol	5.369	94	5060	0.220 ug/ml#	86
9) Bis(2-chloroethyl)ether	5.445	93	3989	0.219 ug/ml#	67
10) 1,3-Dichlorobenzene	5.634	146	5303	0.258 ug/ml	95
11) 1,4-Dichlorobenzene	5.745	146	5596M3	0.272 ug/ml	
12) 1,2-Dichlorobenzene	5.939	146	4799	0.244 ug/ml	87
13) Benzyl alcohol	5.992	79	3716	0.209 ug/ml	87
14) Bis(2-chloroisopropyl)...	6.181	45	6285	0.235 ug/ml#	46

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	3360	0.210	ug/ml	89
16) Hexachloroethane	6.363	117	1936	0.214	ug/ml#	58
17) n-Nitrosodi-n-propylamine	6.351	70	3621	0.232	ug/ml#	83
18) 3-Methylphenol/4-Methy...	6.398	108	4055	0.230	ug/ml	95
20) Nitrobenzene	6.475	77	4951	0.216	ug/ml	95
21) Isophorone	6.781	82	8361	0.208	ug/ml#	90
22) 2-Nitrophenol	6.851	139	2065	0.228	ug/ml	97
23) 2,4-Dimethylphenol	6.986	107	4508	0.241	ug/ml#	85
24) Bis(2-chloroethoxy)met...	7.081	93	6209	0.256	ug/ml#	90
25) 2,4-Dichlorophenol	7.128	162	3983	0.230	ug/ml	88
26) 1,2,4-Trichlorobenzene	7.198	180	4947	0.245	ug/ml	98
35) Naphthalene	7.263	128	13185	0.235	ug/ml	95
36) Benzoic Acid	7.063	105	578	0.043	ug/ml#	67
37) 4-Chloroaniline	7.369	65	1784	0.206	ug/ml	99
38) Hexachlorobutadiene	7.445	225	3617	0.253	ug/ml	90
39) p-Chloro-m-cresol	7.922	107	3871	0.213	ug/ml	88
40) 2-Methylnaphthalene	7.992	142	8921	0.233	ug/ml#	94
41) 1-Methylnaphthalene	8.086	115	3723	0.240	ug/ml	76
42) Hexachlorocyclopentadiene	8.175	237	2846	0.191	ug/ml#	81
43) 2,4,6-Trichlorophenol	8.298	196	2543M3	0.168	ug/ml	
44) 2,4,5-Trichlorophenol	8.328	196	3587	0.219	ug/ml	86
46) 2-Chloronaphthalene	8.469	162	9143	0.229	ug/ml	95
47) 2-Nitroaniline	8.592	138	2306	0.195	ug/ml#	88
48) 1,4-Dinitrobenzene	8.733	168	1121	0.172	ug/ml	95
49) 1,3-Dinitrobenzene	8.804	168	1425	0.193	ug/ml#	1
50) Dimethyl phthalate	8.810	163	12951	0.242	ug/ml#	88
51) Acenaphthylene	8.863	152	14176	0.227	ug/ml	99
52) 2,6-Dinitrotoluene	8.845	165	2127	0.195	ug/ml#	66
53) 1,2-Dinitrobenzene	8.880	168	780	0.177	ug/ml#	1
63) 3-Nitroaniline	8.998	138	2411	0.227	ug/ml#	39
64) Acenaphthene	9.033	154	7893	0.223	ug/ml#	82
65) 2,4-Dinitrophenol	9.098	184	490M2	0.080	ug/ml	
66) Dibenzofuran	9.204	168	14613	0.249	ug/ml#	78
67) 2,4-Dinitrotoluene	9.227	165	2908	0.191	ug/ml	86
68) 4-Nitrophenol	9.204	65	2092	0.172	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	2443	0.176	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.345	232	2117	0.161	ug/ml	87
71) Diethyl phthalate	9.504	149	11706	0.221	ug/ml#	97
72) Fluorene	9.533	166	11363	0.239	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.569	204	5779	0.235	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	1993	0.182	ug/ml#	71
75)	4,6-Dinitro-o-cresol	9.616	198	1109	0.131	ug/ml#	81
76)	NDPA/DPA	9.686	169	8931	0.221	ug/ml	97
77)	Azobenzene	9.716	77	11602	0.229	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.033	248	3471	0.231	ug/ml	88
80)	Hexachlorobenzene	10.069	284	4511	0.269	ug/ml#	86
81)	Pentachlorophenol	10.269	266	1933	0.181	ug/ml#	85
88)	Phenanthrene	10.445	178	19003	0.257	ug/ml	95
89)	Anthracene	10.492	178	17777	0.237	ug/ml	98
90)	Carbazole	10.669	167	14911	0.210	ug/ml	97
91)	Di-n-butylphthalate	11.086	149	18075	0.205	ug/ml#	97
92)	Fluoranthene	11.580	202	19789M3	0.224	ug/ml	
93)	Benzidine	11.751	184	8512	0.153	ug/ml#	95
94)	Pyrene	11.786	202	21002	0.227	ug/ml	98
96)	Butyl benzyl phthalate	12.516	149	7071	0.189	ug/ml	89
104)	Benzo(a)anthracene	12.963	228	20816	0.240	ug/ml	98
105)	3,3'-Dichlorobenzidine	12.986	252	6178	0.200	ug/ml#	92
106)	Chrysene	12.998	228	21314	0.255	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.139	149	10773	0.202	ug/ml#	93
108)	Di-n-octylphthalate	13.792	149	15357	0.175	ug/ml#	75
109)	Benzo(b)fluoranthene	14.021	252	17412M3	0.206	ug/ml	
110)	Benzo(k)fluoranthene	14.051	252	17346	0.233	ug/ml	95
111)	Benzo(a)pyrene	14.321	252	14796	0.206	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	15.304	276	13913	0.206	ug/mL	93
114)	Dibenzo(a,h)anthracene	15.339	278	13009	0.197	ug/ml#	92
115)	Benzo(ghi)perylene	15.509	276	14590	0.228	ug/ml#	87

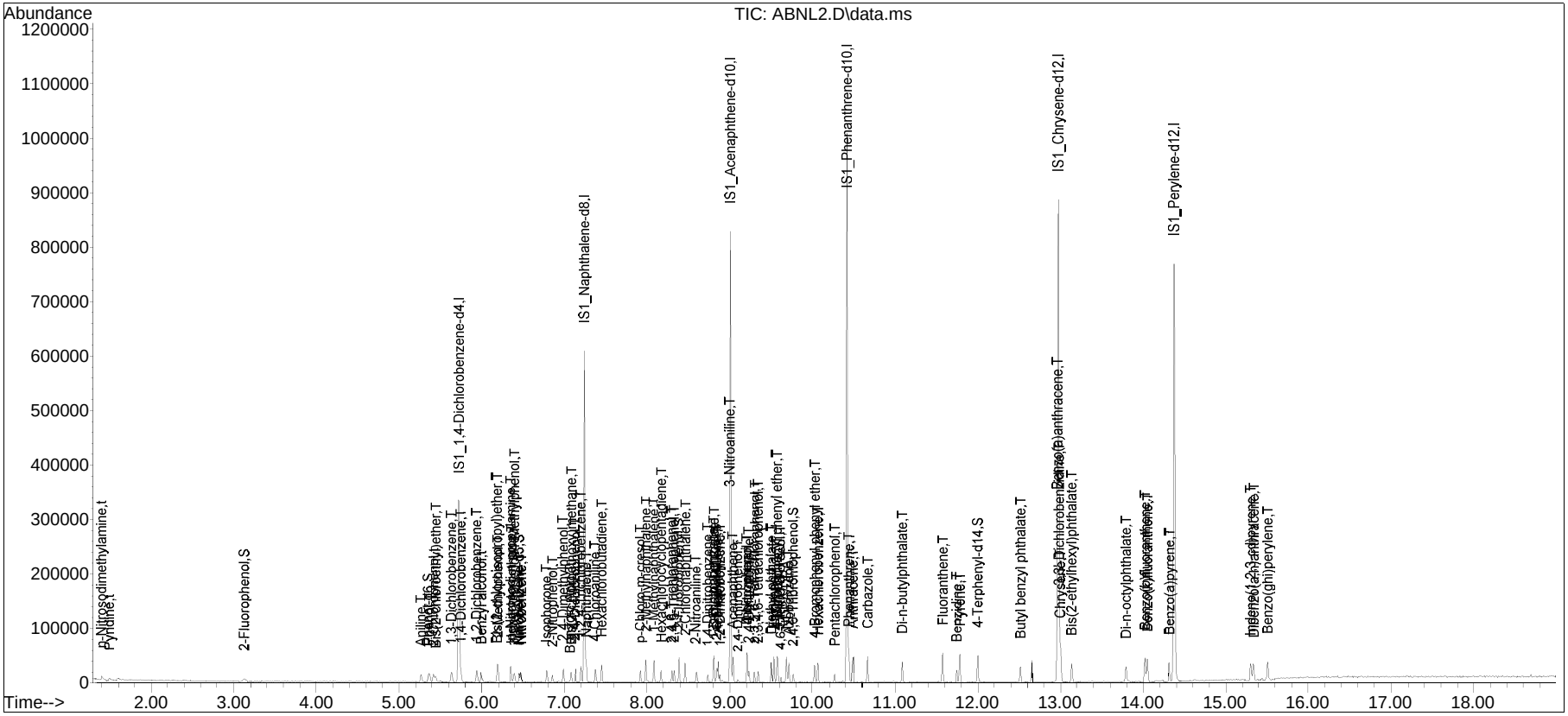
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

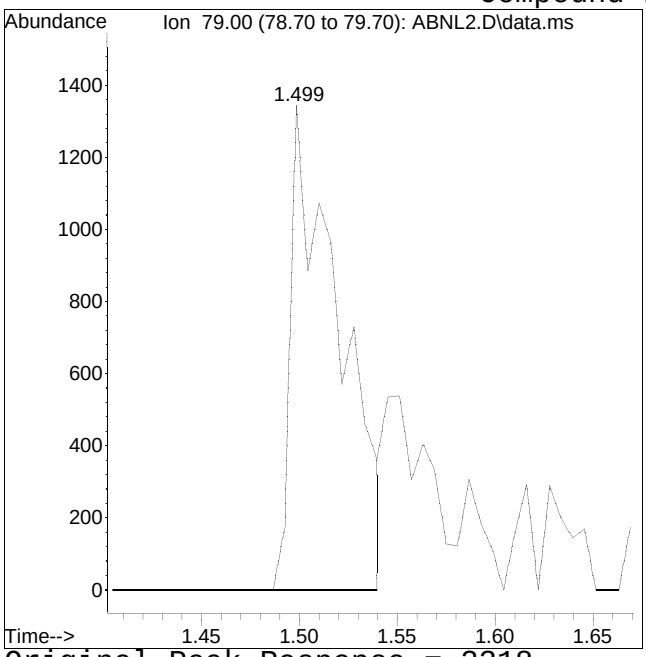
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

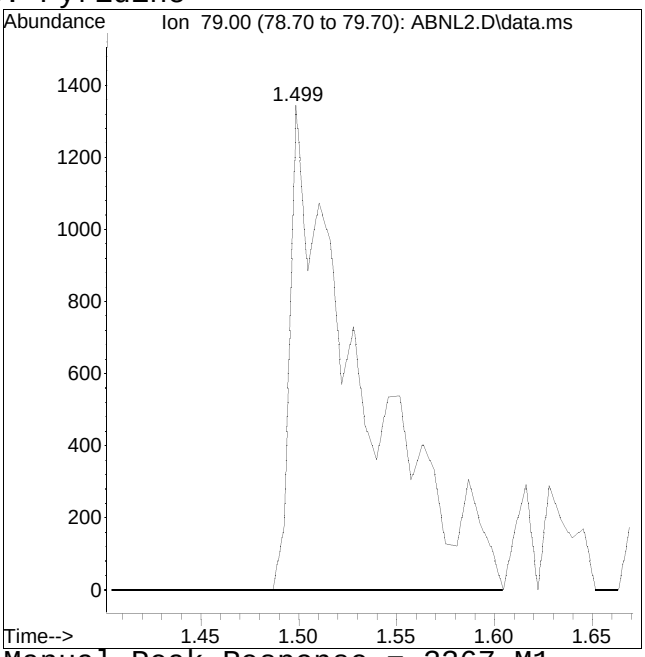


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #3: Pyridine



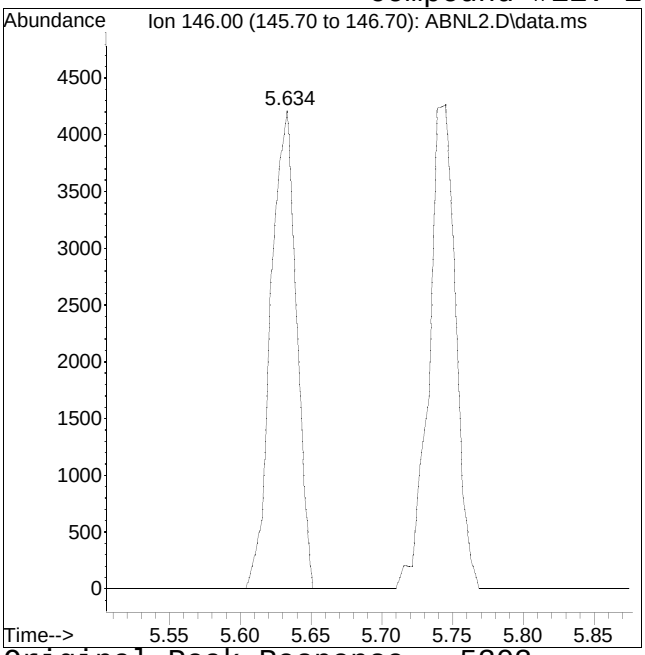


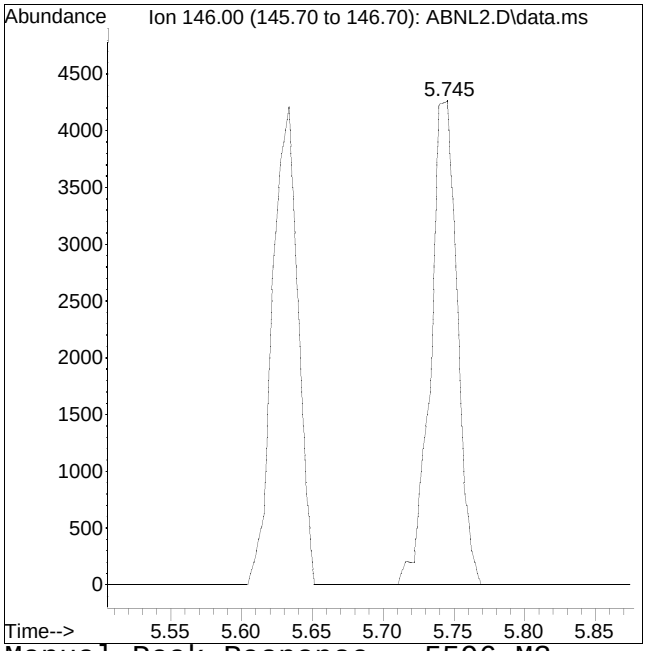
Original Peak Response = 2318 Manual Peak Response = 3367 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #11: 1,4-Dichlorobenzene





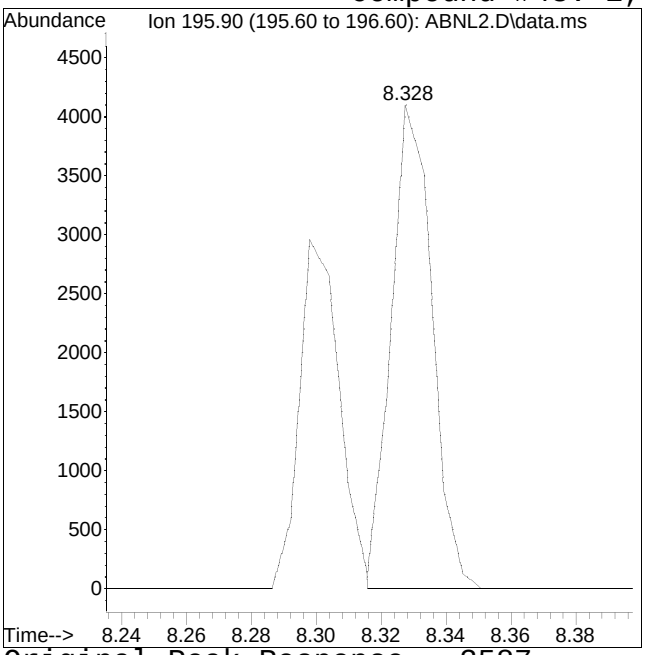
Original Peak Response = 5303 Manual Peak Response = 5596 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

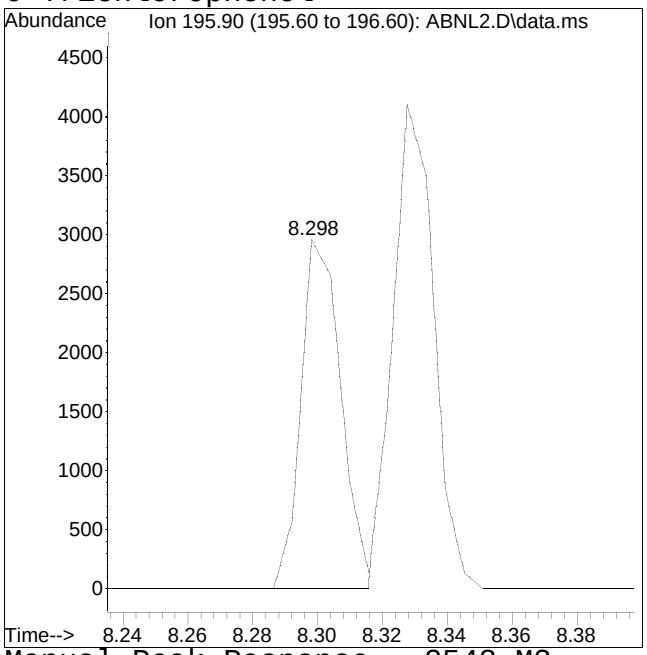
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #43: 2,4,6-Trichlorophenol



Original Peak Response = 3587



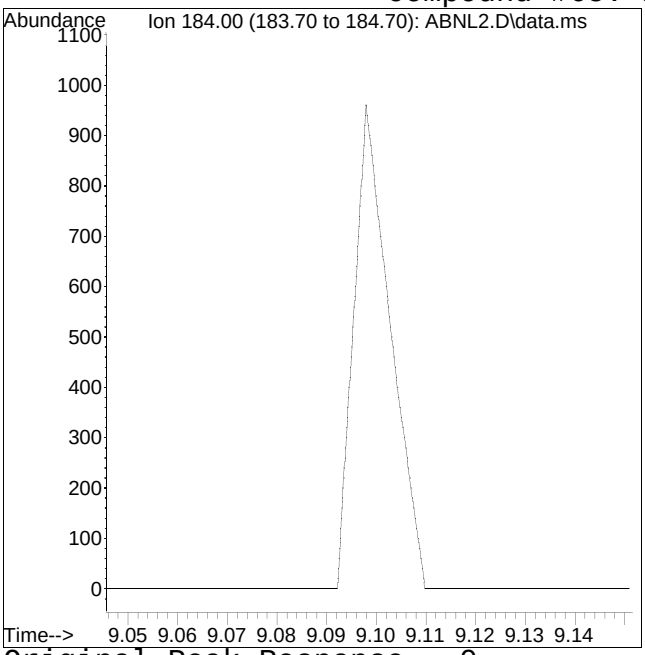
Manual Peak Response = 2543 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

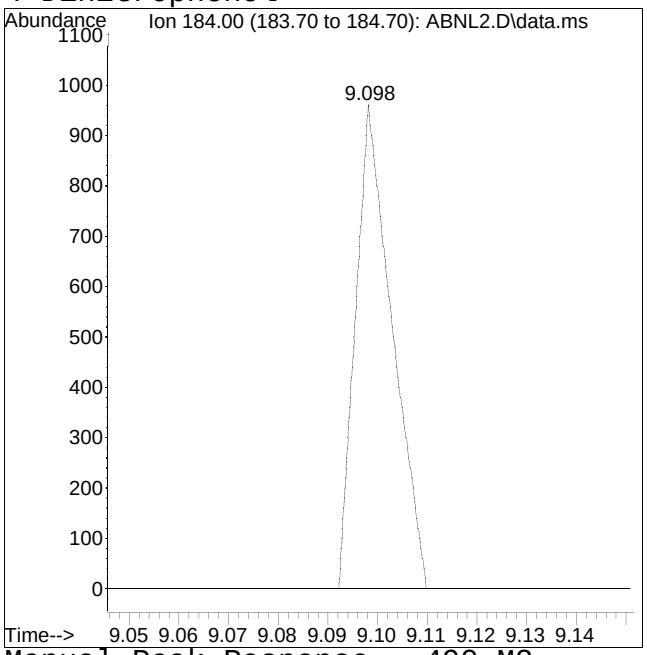
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #65: 2,4-Dinitrophenol



Original Peak Response = 0



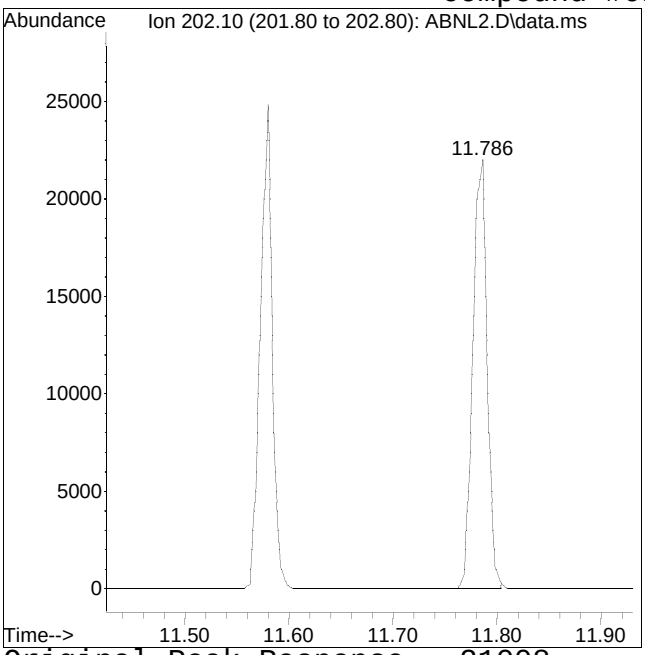
Manual Peak Response = 490 M2

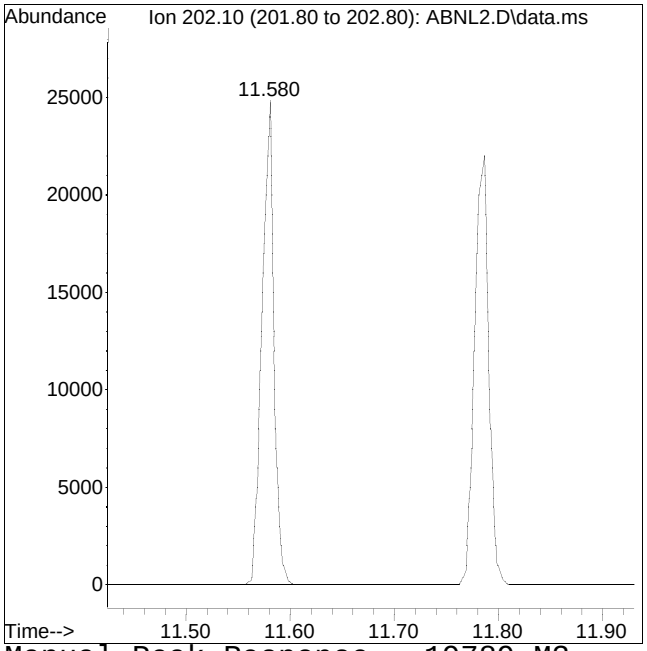
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #92: Fluoranthene



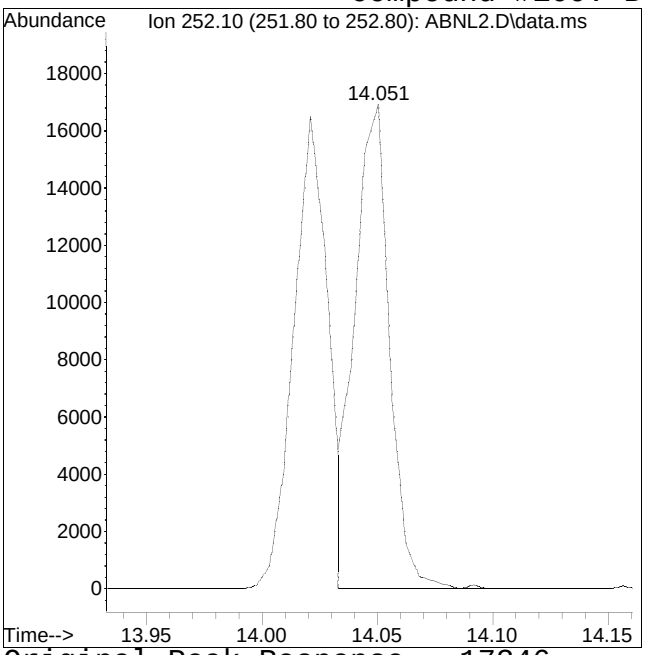


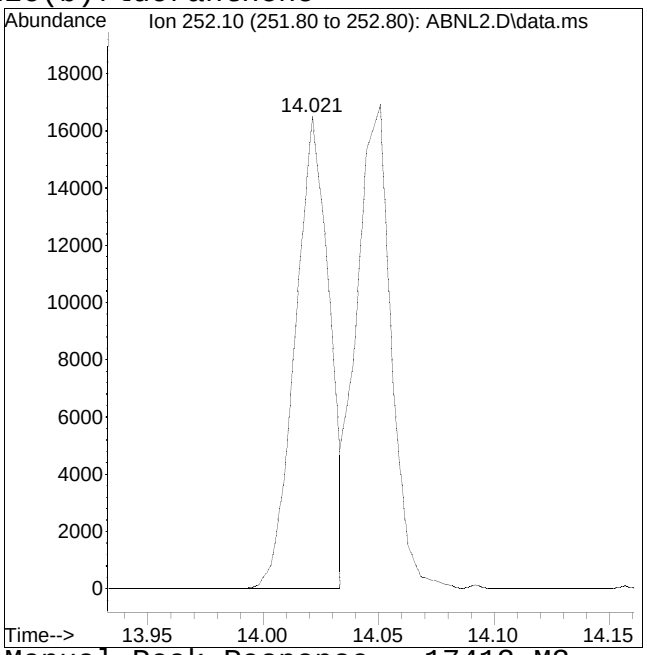
Original Peak Response = 21008 Manual Peak Response = 19789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #109: Benzo(b)fluoranthene





Original Peak Response = 17346 Manual Peak Response = 17412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	60755	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 93.73%			
34) IS1_Naphthalene-d8	7.240	136	216723	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 92.13%			
62) IS1_Acenaphthene-d10	9.004	164	142325	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 87.73%			
87) IS1_Phenanthrene-d10	10.422	188	314149	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 88.53%			
103) IS1_Chrysene-d12	12.974	240	264683	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 84.92%			
112) IS1_Perylene-d12	14.374	264	281946	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 86.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.134	112	1958	0.123	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 2.46%#			
7) Phenol-d6	5.351	99	2086	0.098	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1.96%#			
19) Nitrobenzene-d5	6.457	82	2331	0.102	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4.08%#			
45) 2-Fluorobiphenyl	8.386	172	5000	0.107	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4.28%#			
78) 2,4,6-Tribromophenol	9.769	330	639	0.087	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1.74%#			
95) 4-Terphenyl-d14	11.998	244	6849	0.111	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4.44%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.410	74	1470	0.134	ug/ml#	57
3) Pyridine	1.534	79	1726M1	0.093	ug/ml	
5) Aniline	5.275	93	2786	0.104	ug/ml	92
6) 2-Chlorophenol	5.422	128	2010	0.112	ug/ml	94
8) Phenol	5.369	94	2248	0.100	ug/ml#	82
9) Bis(2-chloroethyl)ether	5.446	93	1884	0.106	ug/ml	93
10) 1,3-Dichlorobenzene	5.628	146	2147	0.107	ug/ml#	77
11) 1,4-Dichlorobenzene	5.745	146	2554	0.127	ug/ml#	84
12) 1,2-Dichlorobenzene	5.940	146	1888	0.098	ug/ml#	68
13) Benzyl alcohol	5.998	79	1808	0.104	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.187	45	2911	0.112	ug/ml#	57

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.193	108	2005	0.128	ug/ml#	82
16) Hexachloroethane	6.357	117	961	0.109	ug/ml#	36
17) n-Nitrosodi-n-propylamine	6.357	70	1569	0.103	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.398	108	1799	0.104	ug/ml#	86
20) Nitrobenzene	6.481	77	2416	0.108	ug/ml#	85
21) Isophorone	6.787	82	4079	0.104	ug/ml#	89
22) 2-Nitrophenol	6.851	139	986	0.111	ug/ml#	70
23) 2,4-Dimethylphenol	6.987	107	1893	0.103	ug/ml#	83
24) Bis(2-chloroethoxy)met...	7.081	93	2562	0.108	ug/ml#	91
25) 2,4-Dichlorophenol	7.128	162	1685	0.099	ug/ml#	84
26) 1,2,4-Trichlorobenzene	7.204	180	2440	0.123	ug/ml	93
35) Naphthalene	7.263	128	6312	0.119	ug/ml#	83
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.375	65	905	0.110	ug/ml	94
38) Hexachlorobutadiene	7.445	225	1779	0.131	ug/ml	94
39) p-Chloro-m-cresol	7.922	107	1526	0.089	ug/ml#	80
40) 2-Methylnaphthalene	7.992	142	4009	0.111	ug/ml#	92
41) 1-Methylnaphthalene	8.087	115	1872	0.127	ug/ml#	70
42) Hexachlorocyclopentadiene	8.175	237	1452	0.103	ug/ml#	84
43) 2,4,6-Trichlorophenol	8.304	196	1343	0.093	ug/ml#	86
44) 2,4,5-Trichlorophenol	8.334	196	1362	0.088	ug/ml#	80
46) 2-Chloronaphthalene	8.469	162	4640	0.123	ug/ml	99
47) 2-Nitroaniline	8.592	138	1333	0.119	ug/ml#	85
48) 1,4-Dinitrobenzene	8.734	168	541M3	0.088	ug/ml	
49) 1,3-Dinitrobenzene	8.804	168	641	0.092	ug/ml#	1
50) Dimethyl phthalate	8.810	163	5434	0.107	ug/ml#	90
51) Acenaphthylene	8.863	152	6552	0.111	ug/ml	96
52) 2,6-Dinitrotoluene	8.845	165	1261	0.122	ug/ml#	84
53) 1,2-Dinitrobenzene	8.886	168	323M3	0.077	ug/ml	
63) 3-Nitroaniline	8.998	138	1003	0.102	ug/ml#	1
64) Acenaphthene	9.039	154	3620	0.110	ug/ml#	77
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.210	168	7311	0.134	ug/ml#	84
67) 2,4-Dinitrotoluene	9.233	165	1139	0.081	ug/ml#	62
68) 4-Nitrophenol	9.204	65	1035	0.092	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.310	232	932	0.072	ug/ml#	80
70) 2,3,4,6-Tetrachlorophenol	9.351	232	982	0.081	ug/ml#	64
71) Diethyl phthalate	9.504	149	4790	0.098	ug/ml#	87
72) Fluorene	9.533	166	5163	0.117	ug/ml#	95
73) 4-Chlorophenyl phenyl ...	9.569	204	2959	0.130	ug/ml#	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	932	0.092	ug/ml#	80
75)	4,6-Dinitro-o-cresol	9.616	198	275M2	0.035	ug/ml	
76)	NDPA/DPA	9.686	169	4377	0.117	ug/ml	96
77)	Azobenzene	9.716	77	5184	0.110	ug/ml	93
79)	4-Bromophenyl phenyl e...	10.033	248	1598	0.114	ug/ml#	85
80)	Hexachlorobenzene	10.069	284	1942	0.125	ug/ml#	85
81)	Pentachlorophenol	10.263	266	628	0.063	ug/ml#	19
88)	Phenanthrene	10.445	178	8776	0.128	ug/ml	96
89)	Anthracene	10.492	178	8020	0.115	ug/ml	97
90)	Carbazole	10.669	167	7192	0.109	ug/ml	96
91)	Di-n-butylphthalate	11.086	149	8066	0.099	ug/ml#	93
92)	Fluoranthene	11.580	202	9183	0.112	ug/ml#	92
93)	Benzidine	11.751	184	3025	0.059	ug/ml#	68
94)	Pyrene	11.786	202	7953M3	0.093	ug/ml	
96)	Butyl benzyl phthalate	12.516	149	3346	0.096	ug/ml	88
104)	Benzo(a)anthracene	12.963	228	9282	0.117	ug/ml	96
105)	3,3'-Dichlorobenzidine	12.986	252	2857	0.101	ug/ml#	82
106)	Chrysene	12.998	228	10226	0.134	ug/ml	96
107)	Bis(2-ethylhexyl)phtha...	13.139	149	4739	0.097	ug/ml#	93
108)	Di-n-octylphthalate	13.798	149	6825	0.085	ug/ml#	76
109)	Benzo(b)fluoranthene	14.021	252	7806	0.101	ug/ml	99
110)	Benzo(k)fluoranthene	14.045	252	7144	0.105	ug/ml	94
111)	Benzo(a)pyrene	14.321	252	6916	0.105	ug/ml	95
113)	Indeno(1,2,3-cd)pyrene	15.304	276	5677M3	0.090	ug/mL	
114)	Dibenzo(a,h)anthracene	15.333	278	5866	0.095	ug/ml	95
115)	Benzo(ghi)perylene	15.515	276	6087	0.102	ug/ml#	90

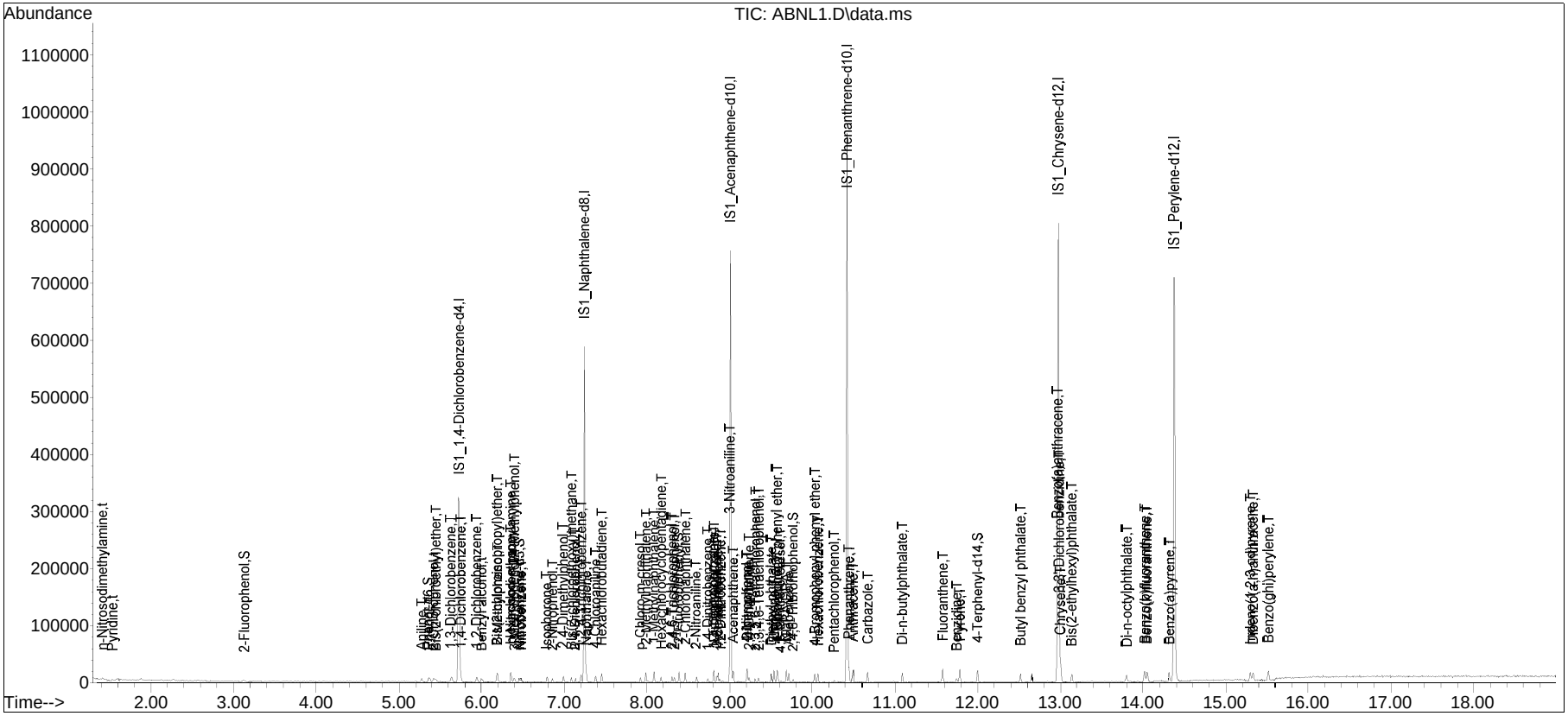
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

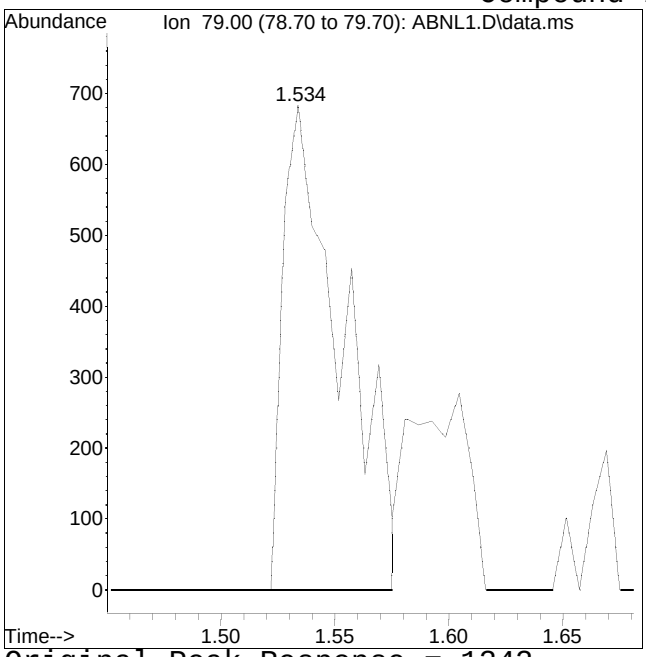
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

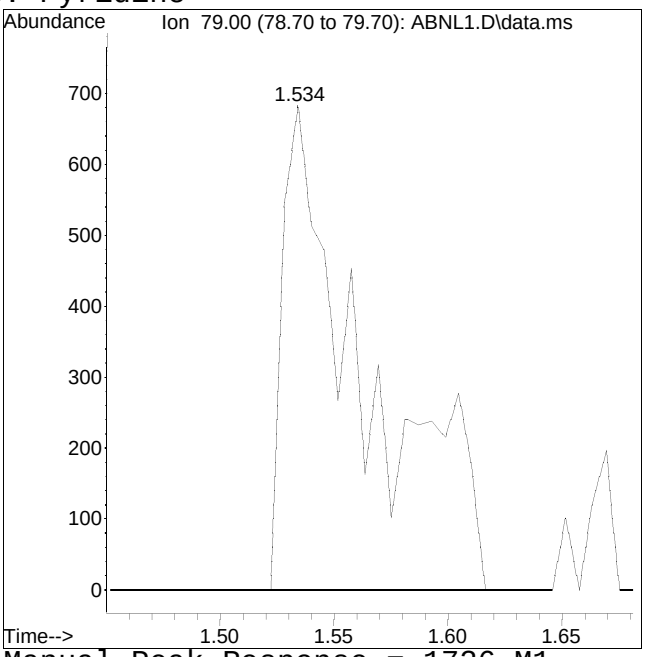


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #3: Pyridine



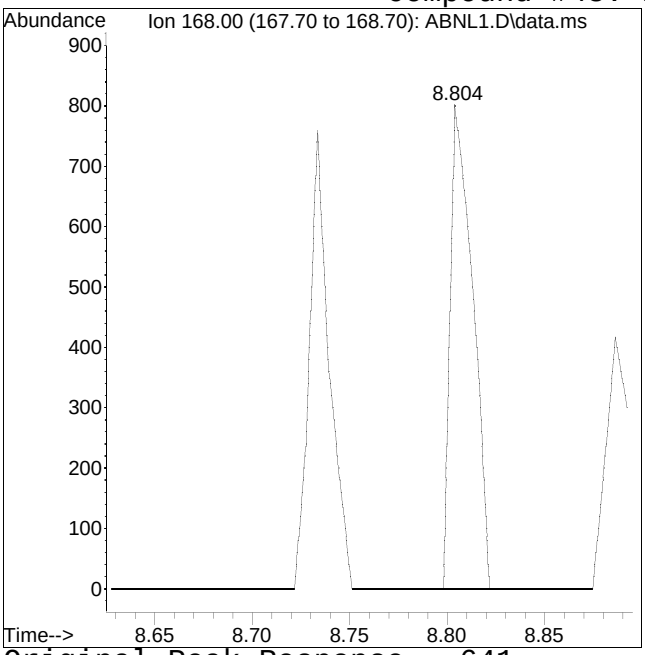


Original Peak Response = 1242 Manual Peak Response = 1726 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

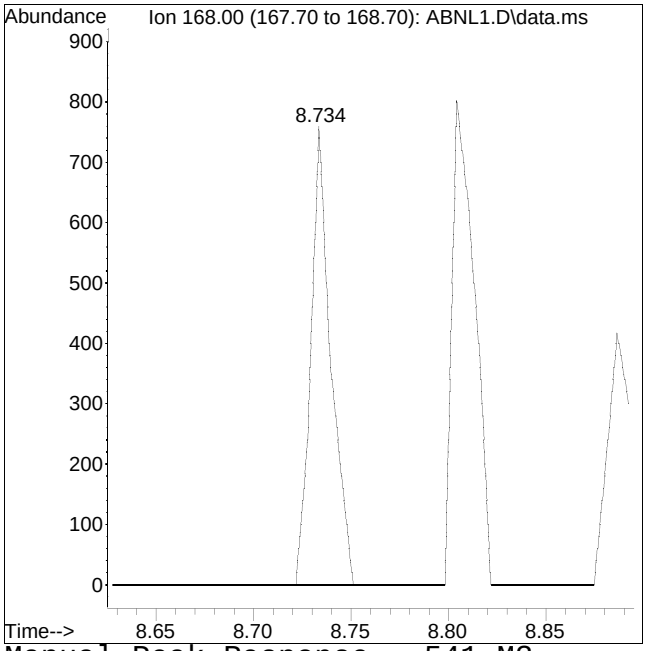
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 641



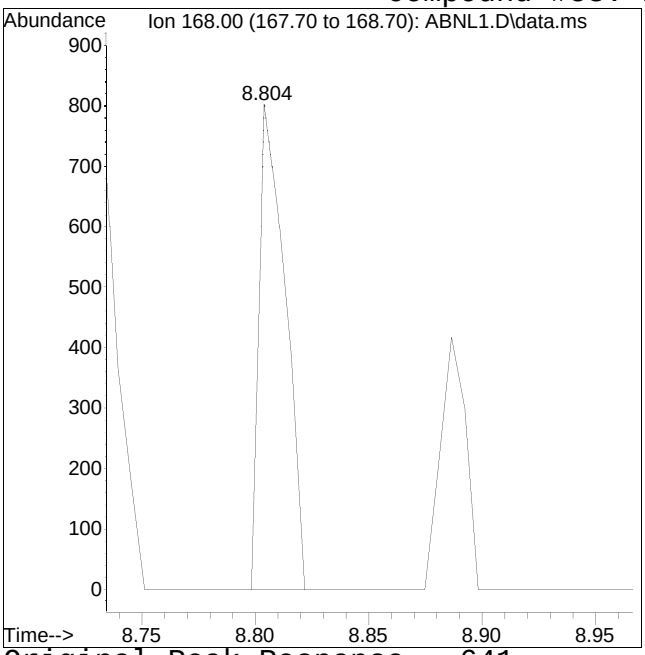
Manual Peak Response = 541 M3

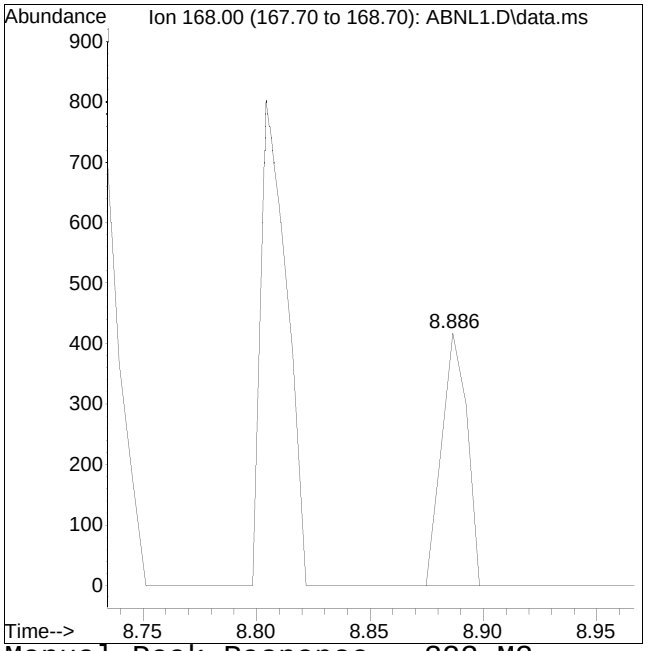
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #53: 1,2-Dinitrobenzene





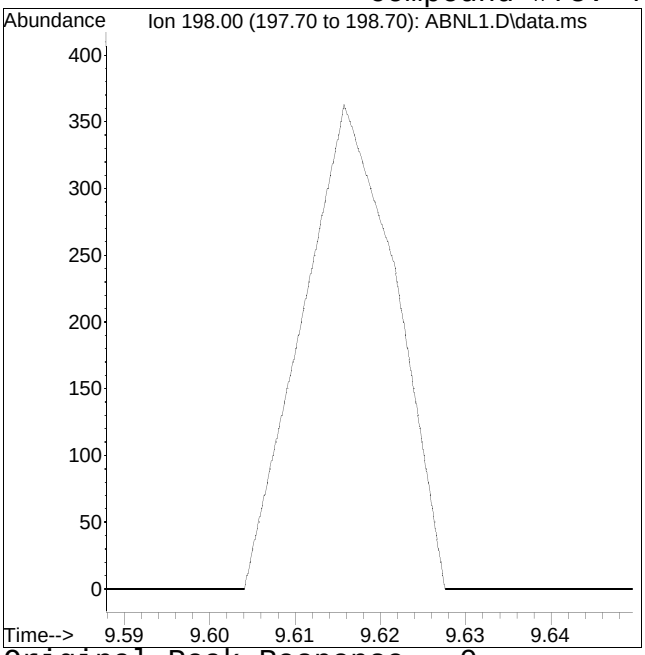
Original Peak Response = 641 Manual Peak Response = 323 M3

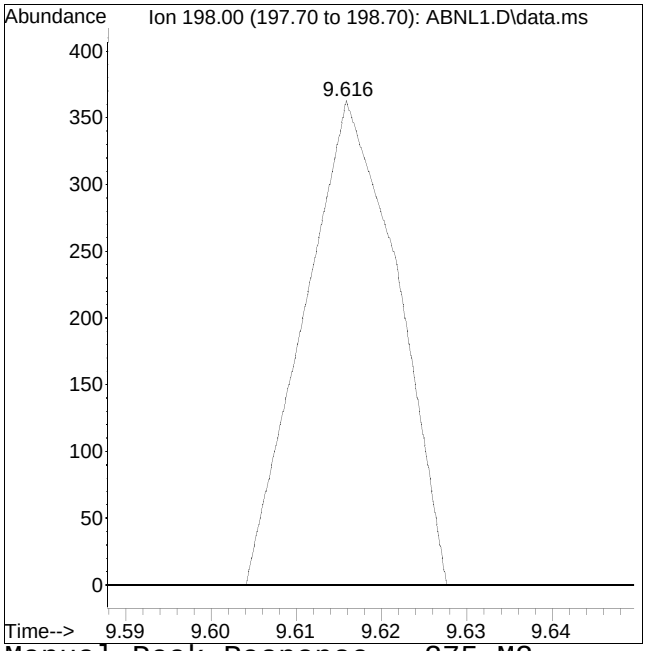
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #75: 4,6-Dinitro-o-cresol



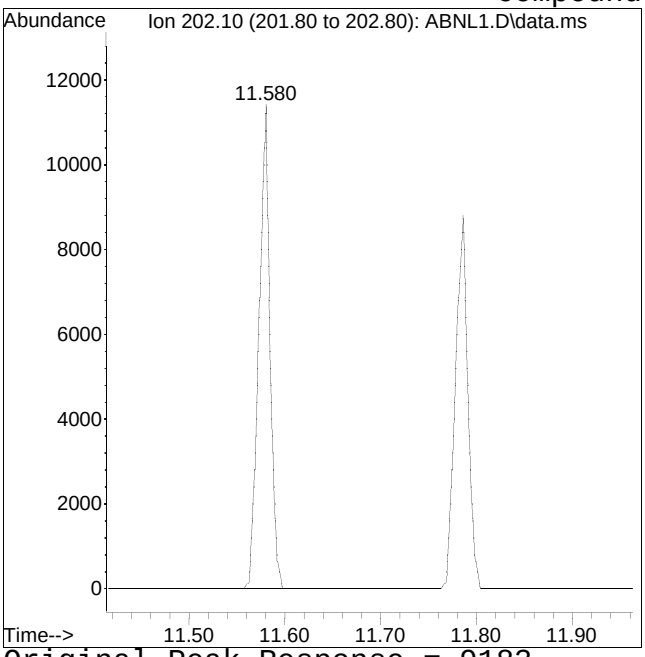


Original Peak Response = 0 Manual Peak Response = 275 M2
M2 = Peak not found by automatic integration algorithm.

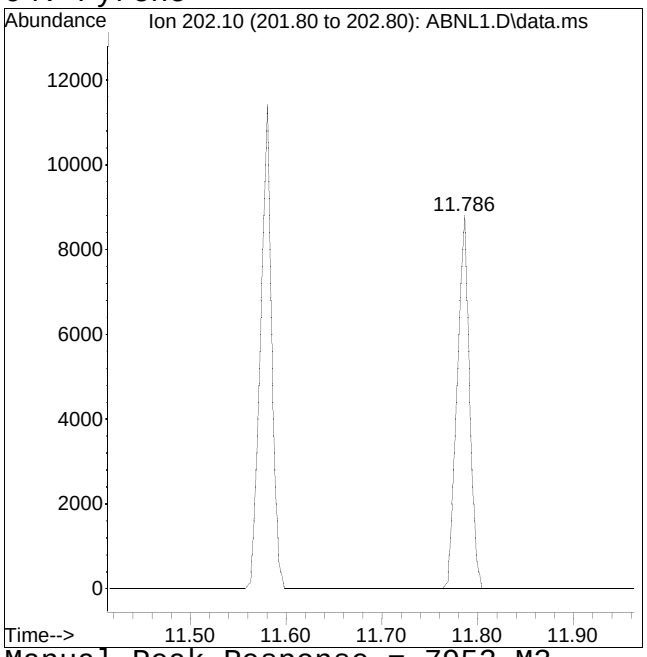
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #94: Pyrene



Original Peak Response = 9183



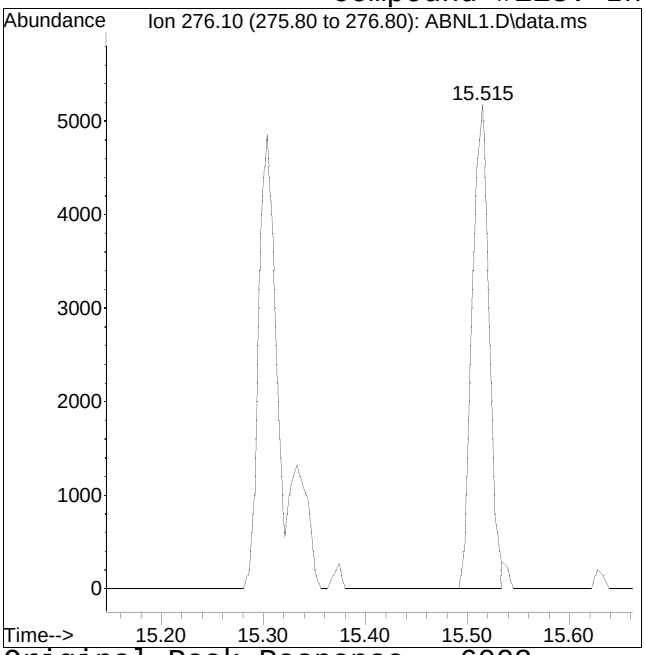
Manual Peak Response = 7953 M3

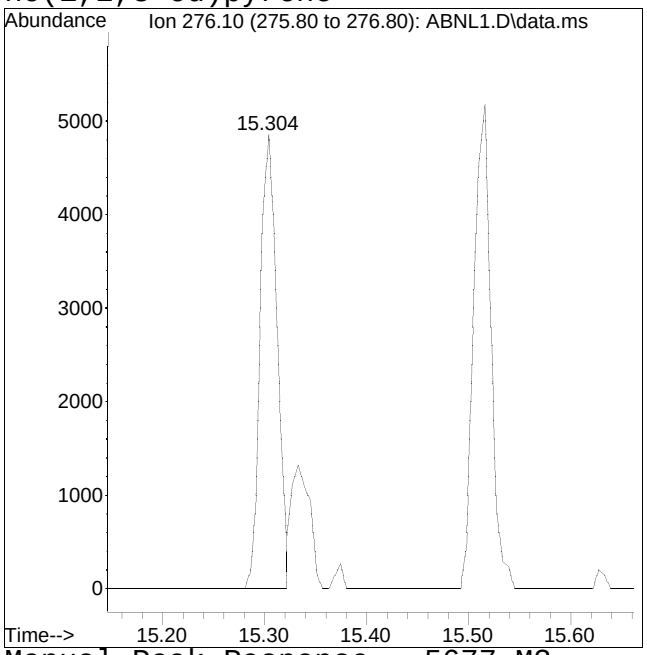
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #113: Indeno(1,2,3-cd)pyrene





Original Peak Response = 6003 Manual Peak Response = 5677 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L9.D
Acq On : 19 Apr 2024 12:27 am
Operator : SV106:cmm
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1911693,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 19 13:48:08 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	58211	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 95.54%			
54) IS2_Naphthalene-d8	7.239	136	209175	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 95.05%			
82) IS2_Acenaphthene-d10	9.004	164	132916	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 94.44%			
97) IS2_Phenanthrene-d10	10.421	188	296396	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 95.47%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.028	105	798309	57.567	ug/ml	95
29) Acetophenone	6.286	105	1473683	57.324	ug/ml#	84
30) m-Toluidine	6.398	106	1358608	56.905	ug/ml	96
31) 2-Chloroaniline	6.816	127	1225901	56.869	ug/ml	98
55) a-Terpineol	7.345	59	943662	58.290	ug/ml#	81
56) 3-Chloroaniline	7.351	65	522207	55.583	ug/ml#	68
57) 2,6-Dichlorophenol	7.375	162	861474	59.410	ug/ml#	87
58) 1-chloro-2-nitrobenzene	7.639	111	457987	57.861	ug/ml#	1
59) Caprolactam	7.728	55	500922	59.094	ug/ml#	73
60) 1,2,4,5-Tetrachloroben...	8.169	216	1236388	56.488	ug/ml	98
61) Biphenyl	8.475	154	2444961	54.966	ug/ml	99
83) Dichloran	10.145	206	405910	65.894	ug/ml#	76
84) Pentachloronitrobenzene	10.286	237	442335	62.094	ug/ml#	79
98) Diphenamid	11.351	167	1908407	58.334	ug/ml	83

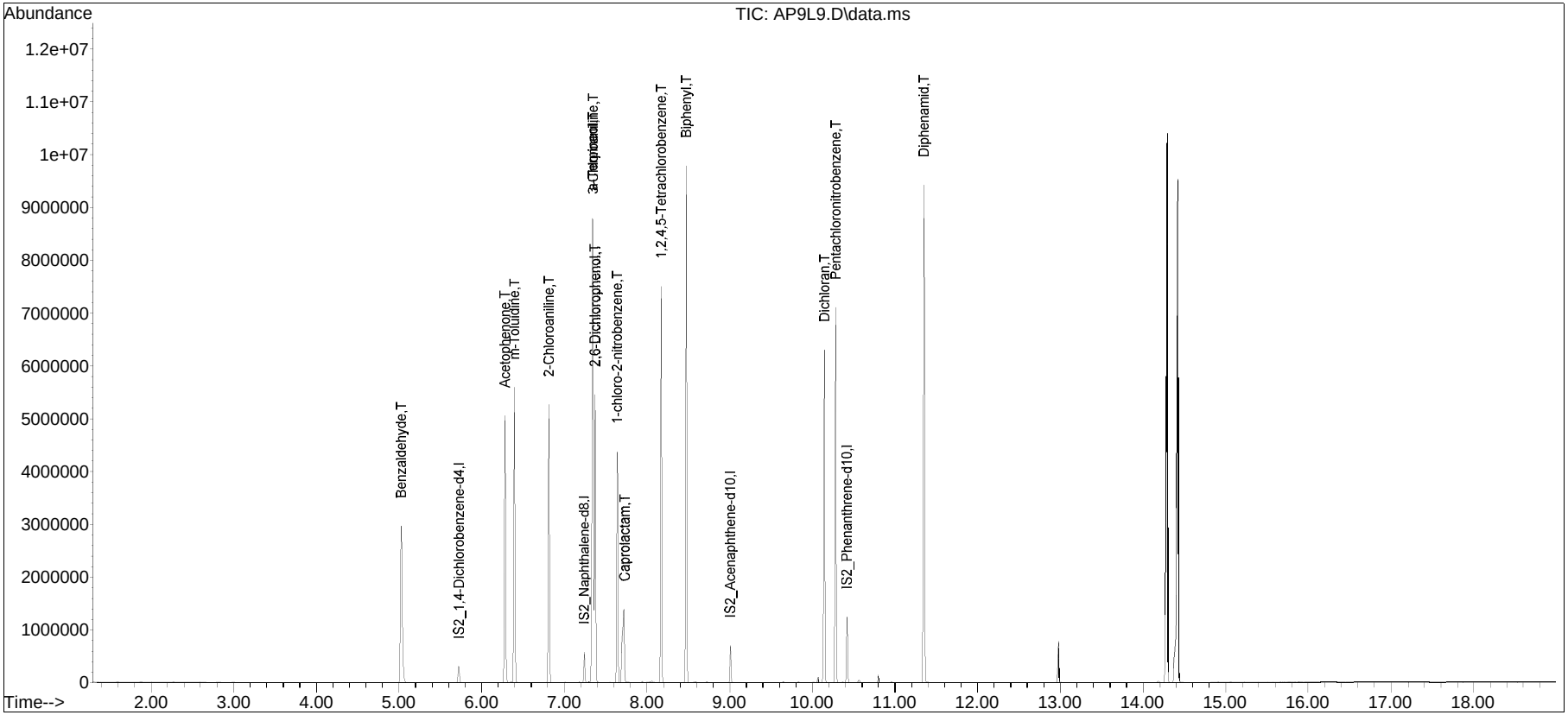
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L9.D
Acq On : 19 Apr 2024 12:27 am
Operator : SV106:cmm
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1911693,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 19 13:48:08 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L9.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 12:27 am	Instrument	: SV 106
Sample	: IL2,32,,AP9L50 Lot# 10700	Quant Date	: 4/19/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L8.D
Acq On : 19 Apr 2024 12:51 am
Operator : SV106:cmm
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1911693,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 19 13:47:42 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	62719	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 102.94%			
54) IS2_Naphthalene-d8	7.239	136	224534	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 102.03%			
82) IS2_Acenaphthene-d10	9.004	164	148016	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 105.17%			
97) IS2_Phenanthrene-d10	10.421	188	330387	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 106.42%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.028	105	413868	27.700	ug/ml	96
29) Acetophenone	6.286	105	767164	27.697	ug/ml#	84
30) m-Toluidine	6.398	106	707760	27.514	ug/ml	96
31) 2-Chloroaniline	6.816	127	634295	27.310	ug/ml	98
55) a-Terpineol	7.339	59	491190	28.265	ug/ml#	82
56) 3-Chloroaniline	7.351	65	269738	26.747	ug/ml#	69
57) 2,6-Dichlorophenol	7.375	162	453217	29.117	ug/ml#	86
58) 1-chloro-2-nitrobenzene	7.639	111	239730	28.215	ug/ml#	1
59) Caprolactam	7.710	55	269607	29.630	ug/ml#	74
60) 1,2,4,5-Tetrachloroben...	8.169	216	642037	27.327	ug/ml	98
61) Biphenyl	8.475	154	1296001	27.143	ug/ml	99
83) Dichloran	10.139	206	208331	30.369	ug/ml#	77
84) Pentachloronitrobenzene	10.280	237	238185	30.025	ug/ml#	78
98) Diphenamid	11.351	167	1031789	28.294	ug/ml	82

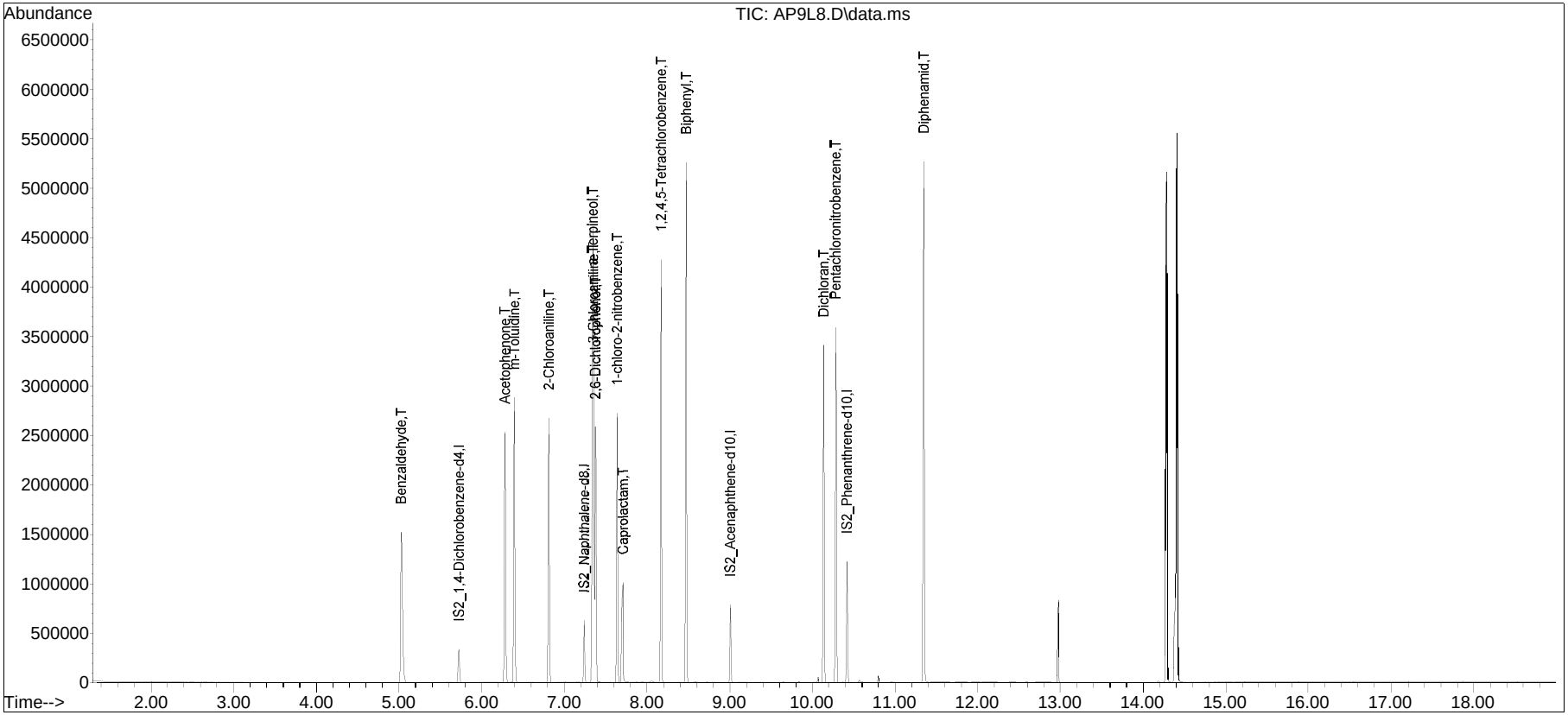
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L8.D
Acq On : 19 Apr 2024 12:51 am
Operator : SV106:cmm
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1911693,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 19 13:47:42 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L8.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 12:51 am	Instrument	: SV 106
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 4/19/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L7.D
Acq On : 19 Apr 2024 1:16 am
Operator : SV106:cmm
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1911693,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 19 13:47:14 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	59667	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 97.93%			
54) IS2_Naphthalene-d8	7.239	136	221841	4.000	ug/ml	0.00
Standard Area 1 = 220065			Recovery = 100.81%			
82) IS2_Acenaphthene-d10	9.004	164	140692	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 99.97%			
97) IS2_Phenanthrene-d10	10.421	188	311224	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 100.24%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.034	105	163828	11.526	ug/ml	96
29) Acetophenone	6.286	105	301459	11.440	ug/ml#	84
30) m-Toluidine	6.398	106	275847	11.272	ug/ml	94
31) 2-Chloroaniline	6.816	127	245376	11.105	ug/ml	98
55) a-Terpineol	7.339	59	186733	10.876	ug/ml#	80
56) 3-Chloroaniline	7.345	65	106267	10.665	ug/ml#	67
57) 2,6-Dichlorophenol	7.369	162	170890	11.112	ug/ml#	87
58) 1-chloro-2-nitrobenzene	7.639	111	89920	10.712	ug/ml#	1
59) Caprolactam	7.692	55	98701	10.979	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.169	216	247304	10.654	ug/ml	98
61) Biphenyl	8.475	154	492588	10.442	ug/ml	98
83) Dichloran	10.139	206	74885	11.485	ug/ml#	76
84) Pentachloronitrobenzene	10.280	237	85987	11.404	ug/ml#	80
98) Diphenamid	11.345	167	376050	10.947	ug/ml	82

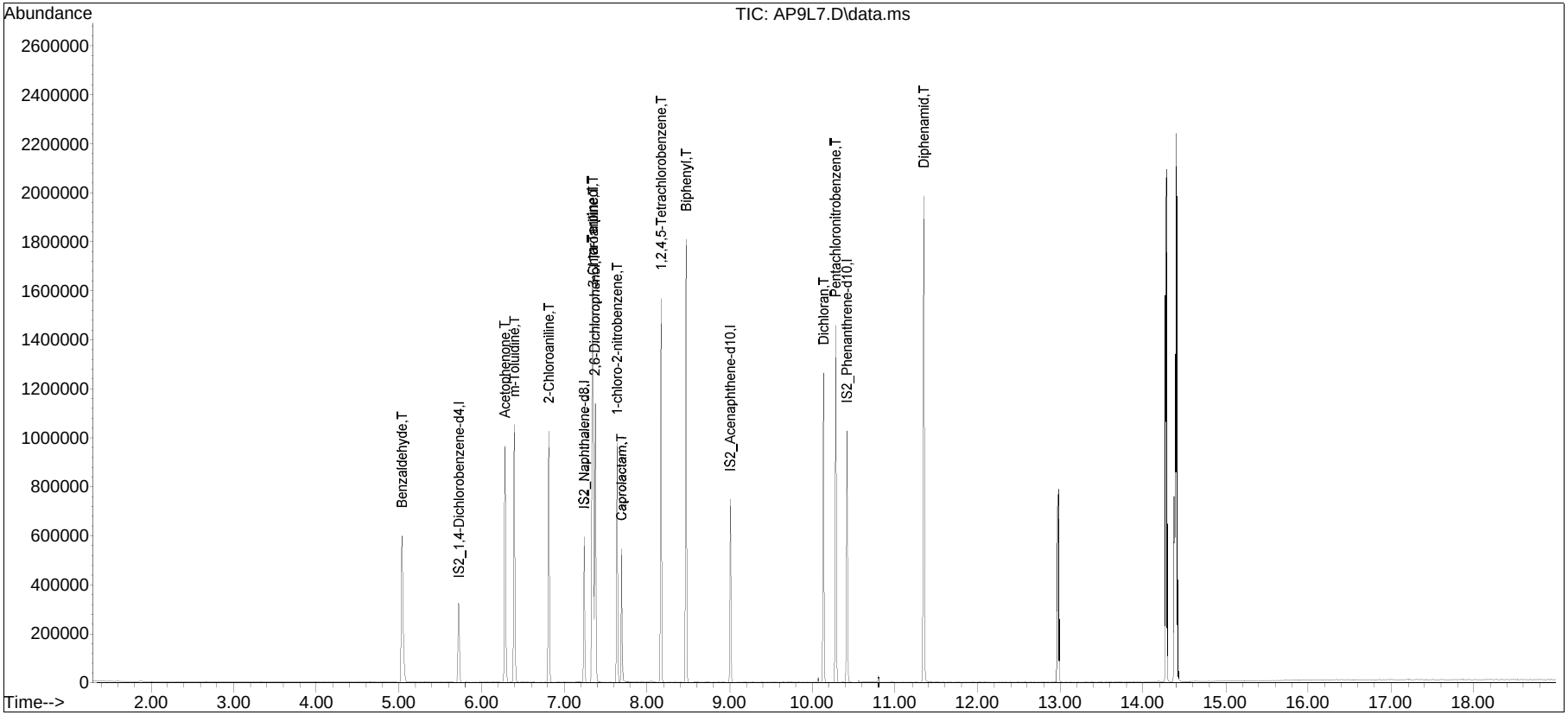
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L7.D
Acq On : 19 Apr 2024 1:16 am
Operator : SV106:cmm
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1911693,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 19 13:47:14 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L7.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 1:16 am	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 4/19/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L6.D
Acq On : 19 Apr 2024 1:39 am
Operator : SV106:cmm
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1911693,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 19 13:46:53 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	5.722	152	60927	4.000	ug/ml		0.00
Standard Area 1 = 60927			Recovery =	100.00%			
54) IS2_Naphthalene-d8	7.239	136	220065	4.000	ug/ml	#	0.00
Standard Area 1 = 220065			Recovery =	100.00%			
82) IS2_Acenaphthene-d10	9.004	164	140738	4.000	ug/ml		0.00
Standard Area 1 = 140738			Recovery =	100.00%			
97) IS2_Phenanthrene-d10	10.421	188	310465	4.000	ug/ml		0.00
Standard Area 1 = 310465			Recovery =	100.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.039	105	72572	5.000	ug/ml		93
29) Acetophenone	6.286	105	134537	5.000	ug/ml	#	85
30) m-Toluidine	6.398	106	124944	5.000	ug/ml		95
31) 2-Chloroaniline	6.816	127	112812	5.000	ug/ml		98
55) a-Terpineol	7.333	59	85160	5.000	ug/ml	#	79
56) 3-Chloroaniline	7.345	65	49421	5.000	ug/ml	#	66
57) 2,6-Dichlorophenol	7.369	162	76277	5.000	ug/ml	#	84
58) 1-chloro-2-nitrobenzene	7.639	111	41637	5.000	ug/ml	#	1
59) Caprolactam	7.686	55	44590	5.000	ug/ml	#	69
60) 1,2,4,5-Tetrachloroben...	8.169	216	115135	5.000	ug/ml		98
61) Biphenyl	8.475	154	233984	5.000	ug/ml		99
83) Dichloran	10.139	206	32613	5.000	ug/ml	#	75
84) Pentachloronitrobenzene	10.280	237	37714	5.000	ug/ml	#	80
98) Diphenamid	11.345	167	171340	5.000	ug/ml		82

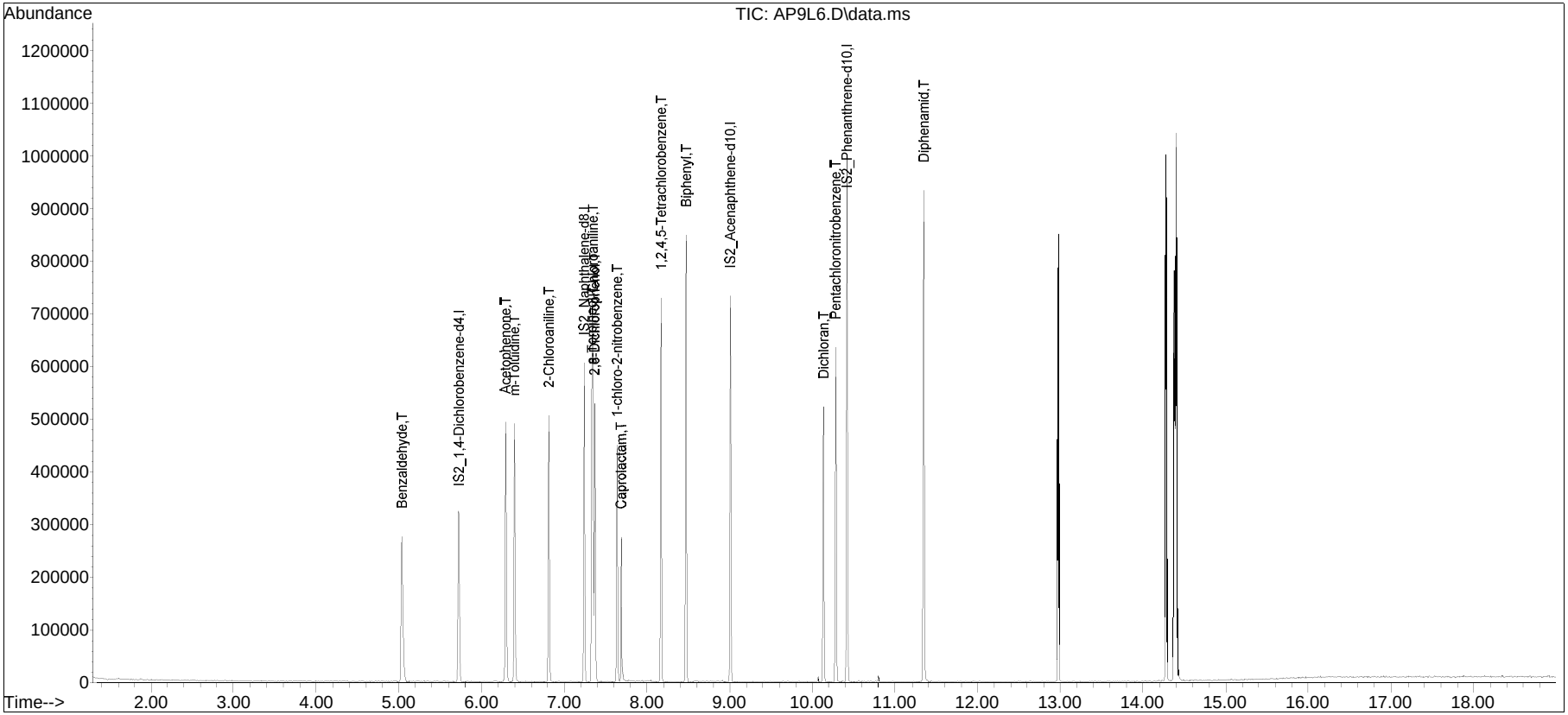
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L6.D
Acq On : 19 Apr 2024 1:39 am
Operator : SV106:cmm
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1911693,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 19 13:46:53 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L6.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 1:39 am	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 4/19/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L5.D
Acq On : 19 Apr 2024 2:03 am
Operator : SV106:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1911693,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 19 13:46:31 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	61482	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery =	100.91%		
54) IS2_Naphthalene-d8	7.239	136	215263	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery =	97.82%		
82) IS2_Acenaphthene-d10	9.004	164	143710	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery =	102.11%		
97) IS2_Phenanthrene-d10	10.422	188	314521	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery =	101.31%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.040	105	37918	2.589	ug/ml	92
29) Acetophenone	6.287	105	70093	2.581	ug/ml#	85
30) m-Toluidine	6.398	106	65167	2.584	ug/ml	94
31) 2-Chloroaniline	6.816	127	58030	2.549	ug/ml	98
55) a-Terpineol	7.333	59	42191	2.532	ug/ml#	79
56) 3-Chloroaniline	7.345	65	25063	2.592	ug/ml#	68
57) 2,6-Dichlorophenol	7.369	162	38650	2.590	ug/ml#	89
58) 1-chloro-2-nitrobenzene	7.639	111	21765	2.672	ug/ml#	1
59) Caprolactam	7.686	55	22315	2.558	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.169	216	59819	2.656	ug/ml	97
61) Biphenyl	8.475	154	116509	2.545	ug/ml	97
83) Dichloran	10.139	206	16120	2.420	ug/ml#	73
84) Pentachloronitrobenzene	10.280	237	18197	2.363	ug/ml#	78
98) Diphenamid	11.345	167	83331	2.400	ug/ml	82

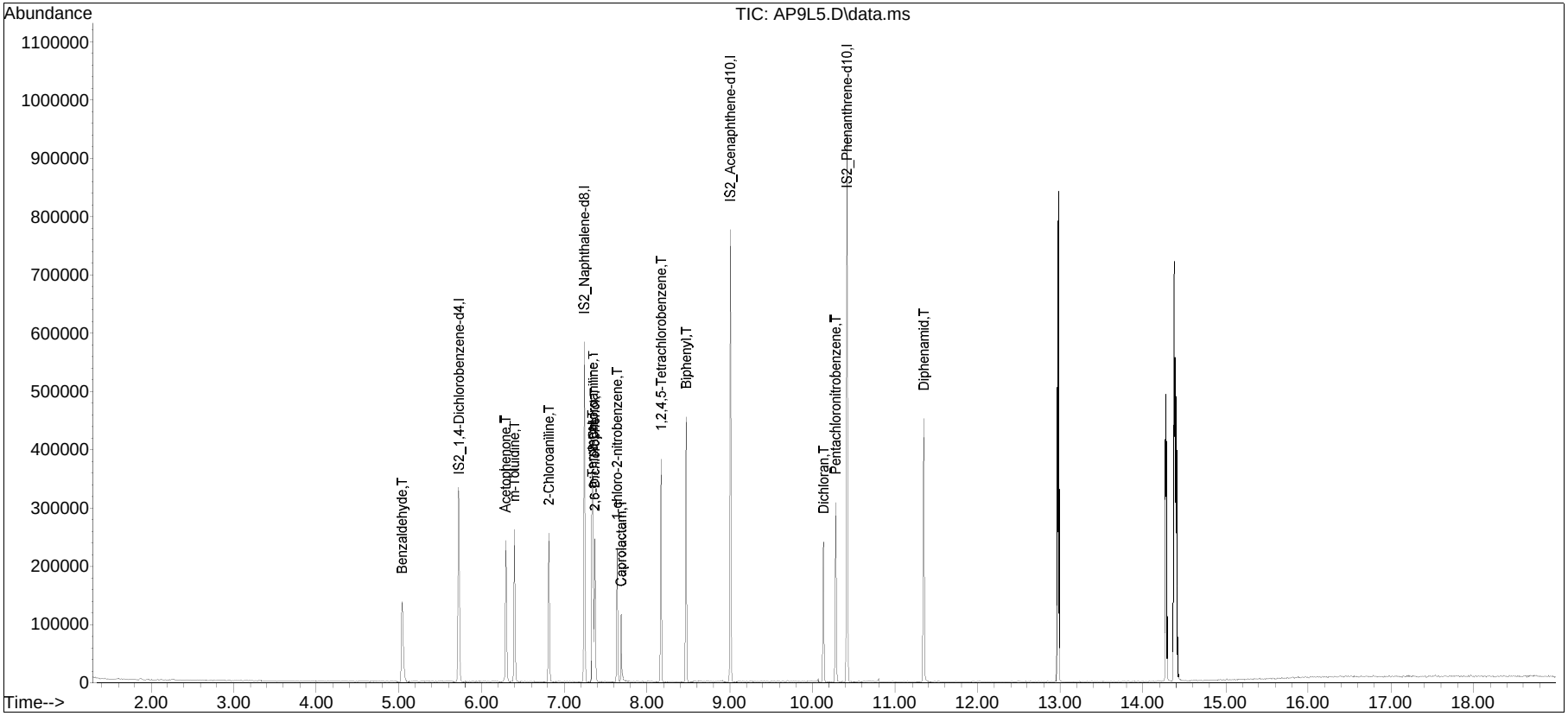
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L5.D
Acq On : 19 Apr 2024 2:03 am
Operator : SV106:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1911693,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 19 13:46:31 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L5.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 2:03 am	Instrument	: SV 106
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 4/19/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L4.D
Acq On : 19 Apr 2024 2:28 am
Operator : SV106:cmm
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1911693,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 19 13:46:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	5.722	152	60660	4.000	ug/ml		0.00
Standard Area 1 = 60927			Recovery = 99.56%				
54) IS2_Naphthalene-d8	7.239	136	223251	4.000	ug/ml	#	0.00
Standard Area 1 = 220065			Recovery = 101.45%				
82) IS2_Acenaphthene-d10	9.004	164	147365	4.000	ug/ml		0.00
Standard Area 1 = 140738			Recovery = 104.71%				
97) IS2_Phenanthrene-d10	10.422	188	330153	4.000	ug/ml		0.00
Standard Area 1 = 310465			Recovery = 106.34%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.045	105	16145	1.117	ug/ml		98
29) Acetophenone	6.292	105	31098	1.161	ug/ml	#	84
30) m-Toluidine	6.398	106	25188	1.012	ug/ml	#	93
31) 2-Chloroaniline	6.816	127	23966	1.067	ug/ml		99
55) a-Terpineol	7.339	59	17984	1.041	ug/ml	#	80
56) 3-Chloroaniline	7.345	65	9640	0.961	ug/ml		79
57) 2,6-Dichlorophenol	7.369	162	16092	1.040	ug/ml	#	82
58) 1-chloro-2-nitrobenzene	7.639	111	9427	1.116	ug/ml	#	1
59) Caprolactam	7.686	55	9828	1.086	ug/ml	#	81
60) 1,2,4,5-Tetrachloroben...	8.169	216	27333	1.170	ug/ml		98
61) Biphenyl	8.475	154	53024	1.117	ug/ml		98
83) Dichloran	10.139	206	6182	0.905	ug/ml	#	80
84) Pentachloronitrobenzene	10.280	237	7983	1.011	ug/ml	#	77
98) Diphenamid	11.345	167	35887	0.985	ug/ml	#	82

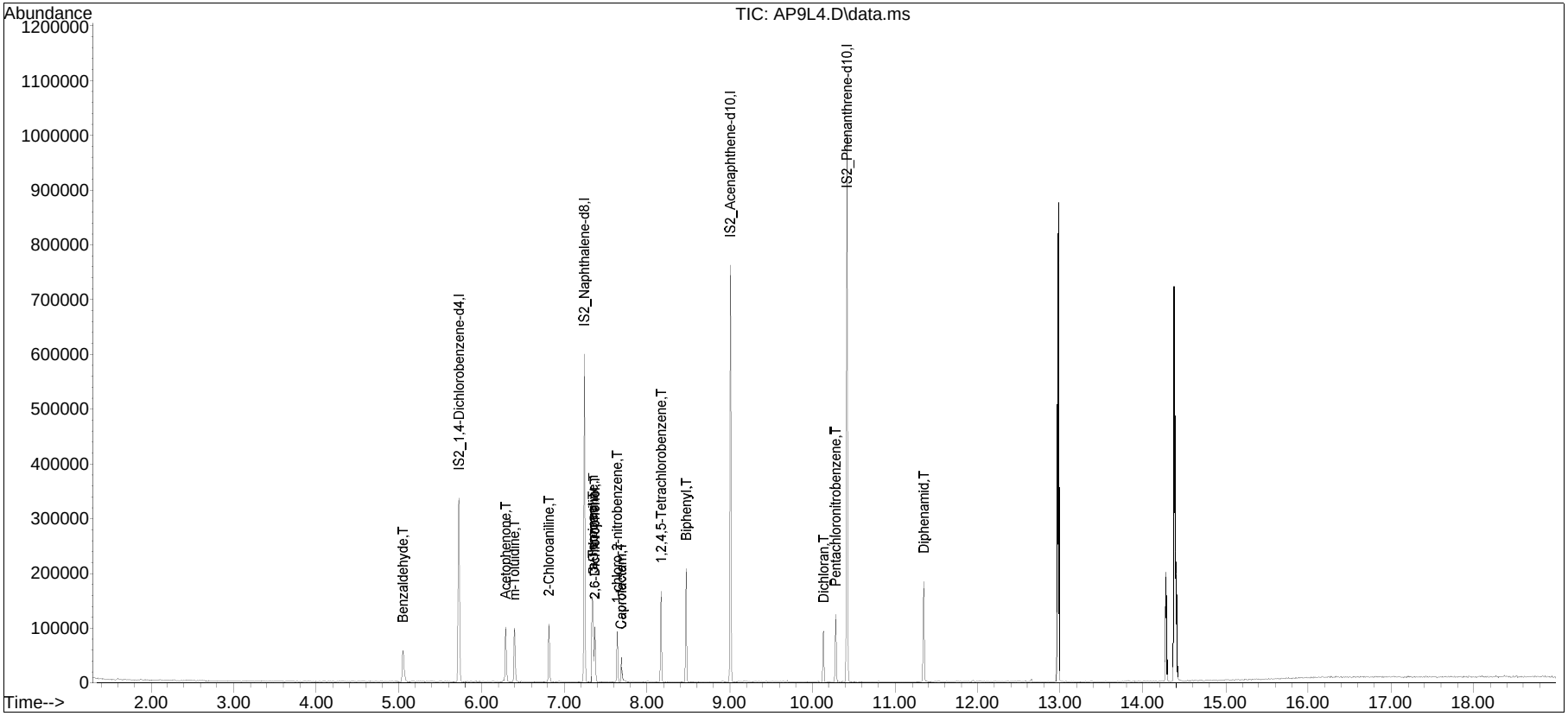
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L4.D
Acq On : 19 Apr 2024 2:28 am
Operator : SV106:cmm
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1911693,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 19 13:46:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L4.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 2:28 am	Instrument	: SV 106
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 4/19/2024 1:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L3.D
Acq On : 19 Apr 2024 2:52 am
Operator : SV106:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1911693,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 19 13:45:46 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	57771	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 94.82%			
54) IS2_Naphthalene-d8	7.239	136	215705	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 98.02%			
82) IS2_Acenaphthene-d10	9.004	164	140733	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 100.00%			
97) IS2_Phenanthrene-d10	10.422	188	311297	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 100.27%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.051	105	8601	0.625	ug/ml	100
29) Acetophenone	6.292	105	14861	0.582	ug/ml#	84
30) m-Toluidine	6.404	106	12695	0.536	ug/ml	85
31) 2-Chloroaniline	6.816	127	12449	0.582	ug/ml	98
55) a-Terpineol	7.339	59	9064	0.543	ug/ml#	74
56) 3-Chloroaniline	7.351	65	5101	0.527	ug/ml#	73
57) 2,6-Dichlorophenol	7.369	162	8279	0.554	ug/ml	92
58) 1-chloro-2-nitrobenzene	7.645	111	4693	0.575	ug/ml#	1
59) Caprolactam	7.692	55	4367	0.500	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.169	216	13001	0.576	ug/ml	97
61) Biphenyl	8.475	154	23264	0.507	ug/ml	92
83) Dichloran	10.139	206	2775	0.425	ug/ml#	78
84) Pentachloronitrobenzene	10.280	237	3751	0.497	ug/ml#	73
98) Diphenamid	11.345	167	17090	0.497	ug/ml	84

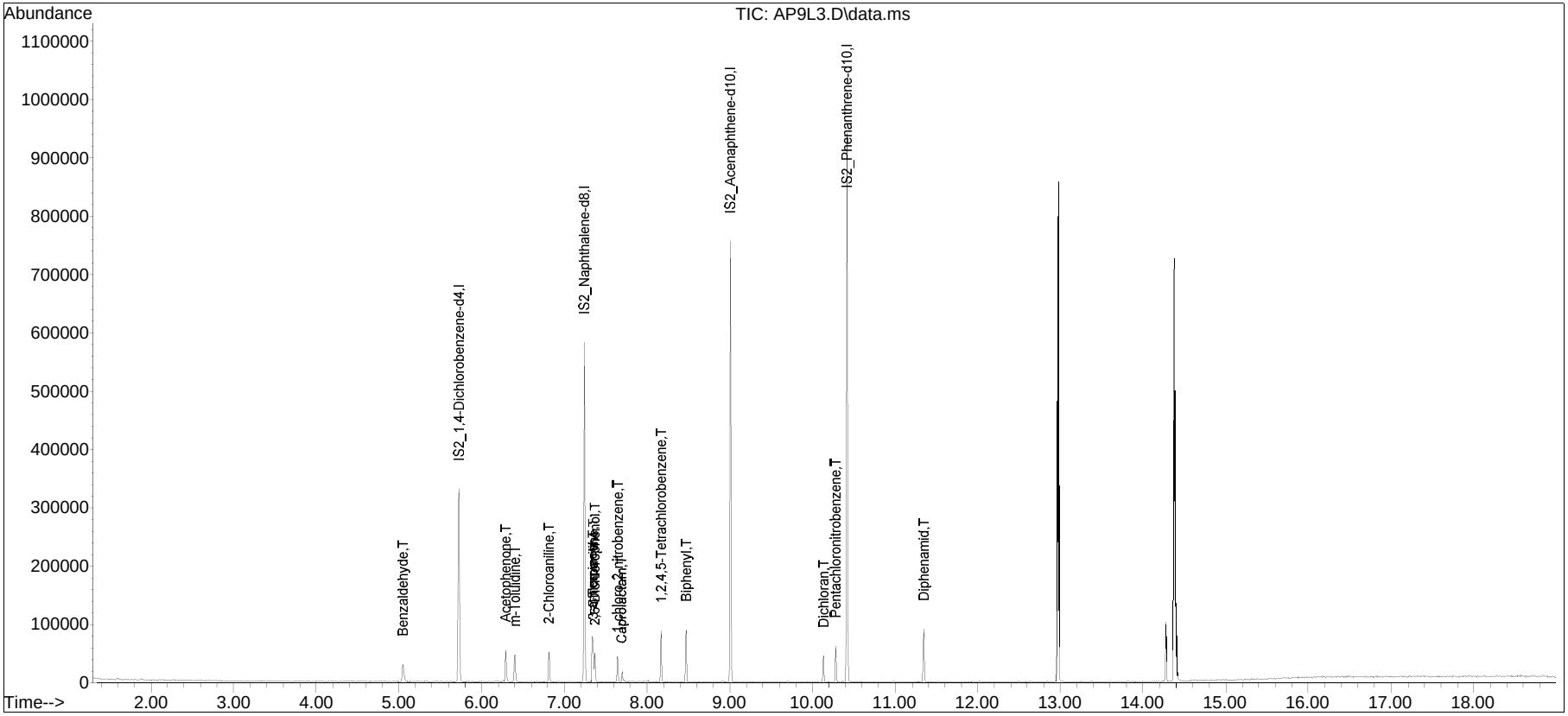
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L3.D
Acq On : 19 Apr 2024 2:52 am
Operator : SV106:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1911693,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 19 13:45:46 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L3.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 2:52 am	Instrument	: SV 106
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 4/19/2024 1:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L2.D
Acq On : 19 Apr 2024 3:16 am
Operator : SV106:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1911693,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 19 13:44:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	60445	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 99.21%			
54) IS2_Naphthalene-d8	7.239	136	215815	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 98.07%			
82) IS2_Acenaphthene-d10	9.004	164	137034	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 97.37%			
97) IS2_Phenanthrene-d10	10.422	188	309920	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 99.82%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.051	105	3703	0.257	ug/ml	96
29) Acetophenone	6.298	105	6488	0.243	ug/ml#	89
30) m-Toluidine	6.404	106	4725	0.191	ug/ml	94
31) 2-Chloroaniline	6.816	127	4811	0.215	ug/ml#	91
55) a-Terpineol	7.339	59	3968	0.238	ug/ml#	86
56) 3-Chloroaniline	7.351	65	1768	0.182	ug/ml	96
57) 2,6-Dichlorophenol	7.369	162	3017	0.202	ug/ml	89
58) 1-chloro-2-nitrobenzene	7.645	111	1941	0.238	ug/ml#	1
59) Caprolactam	7.704	55	1870	0.214	ug/ml#	84
60) 1,2,4,5-Tetrachloroben...	8.169	216	5342	0.237	ug/ml	99
61) Biphenyl	8.475	154	9755	0.213	ug/ml#	90
83) Dichloran	10.139	206	1387	0.218	ug/ml#	67
84) Pentachloronitrobenzene	10.280	237	1291	0.176	ug/ml	91
98) Diphenamid	11.345	167	6193	0.181	ug/ml	85

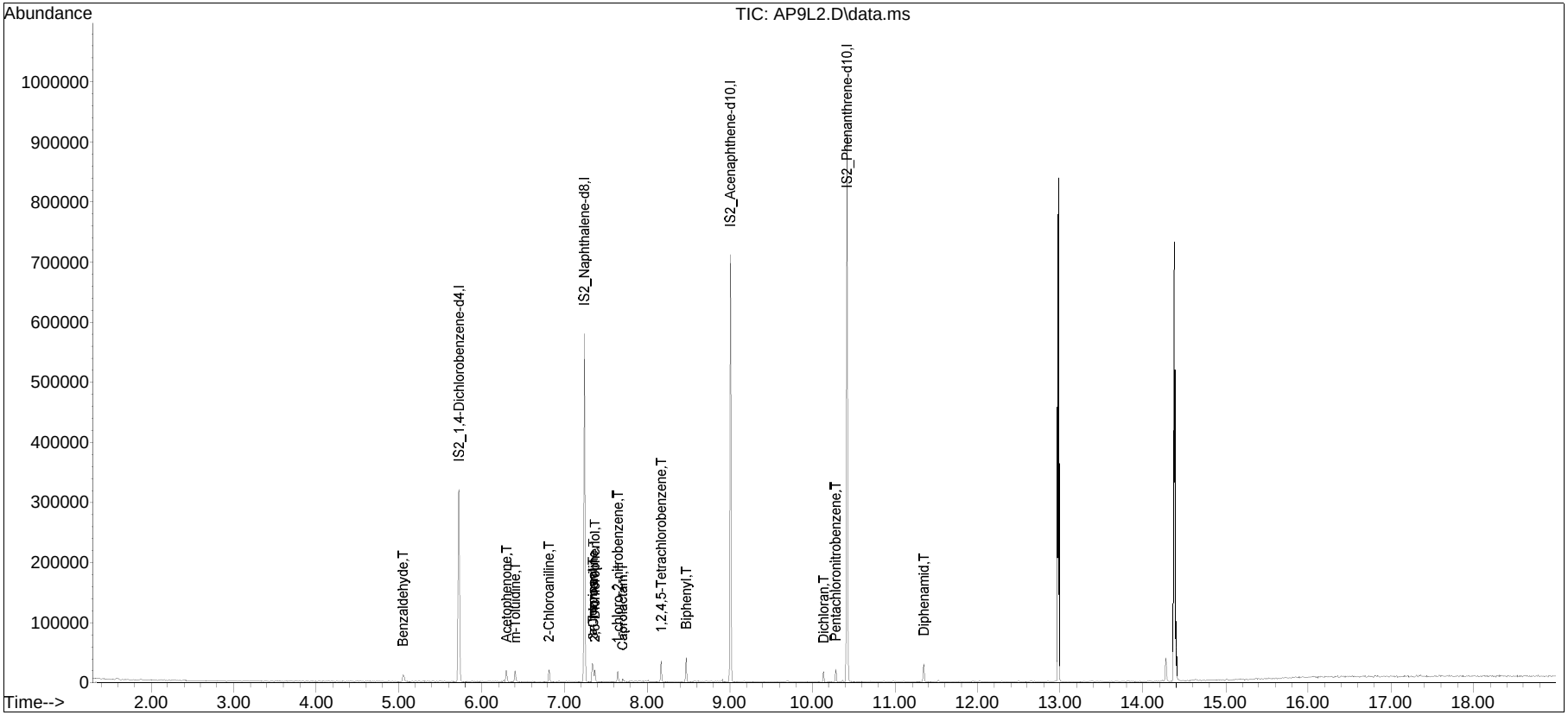
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L2.D
Acq On : 19 Apr 2024 3:16 am
Operator : SV106:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1911693,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 19 13:44:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L2.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 3:16 am	Instrument	: SV 106
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 4/19/2024 1:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L1.D
Acq On : 19 Apr 2024 3:41 am
Operator : SV106:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1911693,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 19 13:44:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	60089	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 98.62%			
54) IS2_Naphthalene-d8	7.239	136	216553	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 98.40%			
82) IS2_Acenaphthene-d10	9.004	164	141473	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 100.52%			
97) IS2_Phenanthrene-d10	10.422	188	312954	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 100.80%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.057	105	1783	0.125	ug/ml	88
29) Acetophenone	6.298	105	2777	0.105	ug/ml#	87
30) m-Toluidine	6.410	106	1988	0.081	ug/ml#	92
31) 2-Chloroaniline	6.822	127	2608	0.117	ug/ml#	86
55) a-Terpineol	7.339	59	1497	0.089	ug/ml#	63
56) 3-Chloroaniline	7.351	65	840	0.086	ug/ml	93
57) 2,6-Dichlorophenol	7.369	162	1610	0.107	ug/ml	94
58) 1-chloro-2-nitrobenzene	7.645	111	1088	0.133	ug/ml#	1
59) Caprolactam	7.710	55	990	0.113	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.169	216	2375	0.105	ug/ml	96
61) Biphenyl	8.475	154	5035	0.109	ug/ml	98
83) Dichloran	10.145	206	521	0.079	ug/ml#	47
84) Pentachloronitrobenzene	10.280	237	1011	0.133	ug/ml#	72
98) Diphenamid	11.345	167	3323	0.096	ug/ml#	76

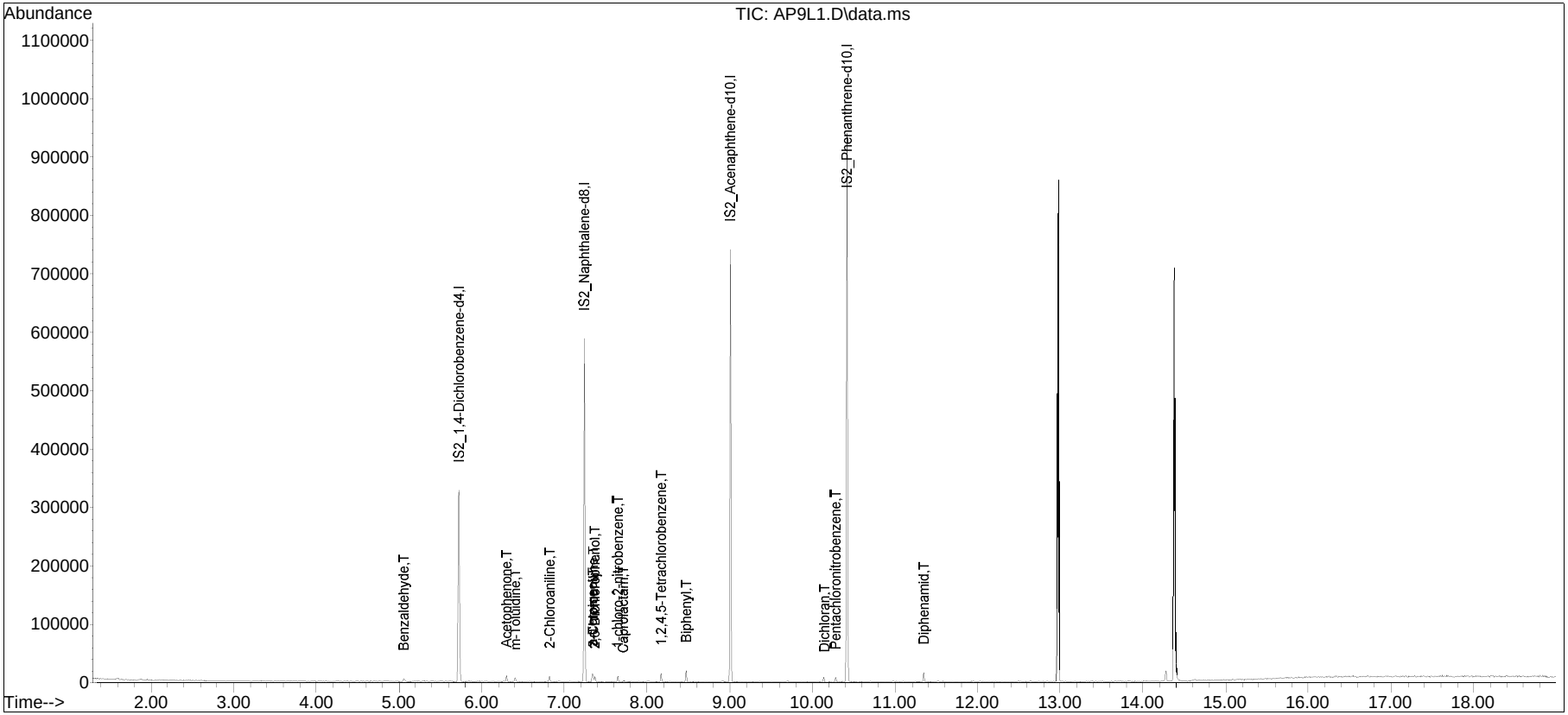
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L1.D
Acq On : 19 Apr 2024 3:41 am
Operator : SV106:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1911693,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 19 13:44:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L1.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 3:41 am	Instrument	: SV 106
Sample	: IL10,32,,AP9L0.1 Lot# 1070	Quant Date	: 4/19/2024 1:20 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	85	0.00
2	t	n-Nitrosodimethylamine		0.789	0.866	-9.8	102	0.00
3	t	Pyridine		1.181	1.432	-21.3#	101	0.00
4	S	2-Fluorophenol		1.131	1.216	-7.5	99	-0.02
5	T	Aniline		1.890	2.039	-7.9	99	0.00
6	t	2-Chlorophenol		1.230	1.314	-6.8	95	0.00
7	S	Phenol-d6		1.461	1.634	-11.8	100	0.00
8	T	Phenol		1.557	1.735	-11.4	100	0.00
9	T	Bis(2-chloroethyl)ether		1.229	1.344	-9.4	98	0.00
10	T	1,3-Dichlorobenzene		1.423	1.577	-10.8	102	0.00
11	T	1,4-Dichlorobenzene		1.486	1.572	-5.8	101	0.00
12	T	1,2-Dichlorobenzene		1.357	1.469	-8.3	99	0.00
13	t	Benzyl alcohol		1.189	1.302	-9.5	97	0.00
14	T	Bis(2-chloroisopropyl)ether		1.817	1.923	-5.8	96	0.00
15	T	2-Methylphenol		1.108	1.188	-7.2	98	0.00
16	T	Hexachloroethane		0.606	0.620	-2.3	91	0.00
17	T	n-Nitrosodi-n-propylamine		1.034	1.065	-3.0	91	0.00
18	T	3-Methylphenol/4-Methylphen		1.204	1.301	-8.1	98	0.00
19	S	Nitrobenzene-d5		1.564	1.724	-10.2	98	0.00
20	T	Nitrobenzene		1.505	1.600	-6.3	93	0.00
21	T	Isophorone		2.670	2.886	-8.1	95	0.00
22	T	2-Nitrophenol		0.622	0.640	-2.9	94	0.00
23	T	2,4-Dimethylphenol		1.261	1.304	-3.4	92	0.00
24	T	Bis(2-chloroethoxy)methane		1.675	1.740	-3.9	95	0.00
25	T	2,4-Dichlorophenol		1.149	1.218	-6.0	93	0.00
26	T	1,2,4-Trichlorobenzene		1.404	1.498	-6.7	98	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	85	0.00
35	T	Naphthalene		1.066	1.101	-3.3	95	0.00
36	T	Benzoic Acid	*	5.000	4.789	4.2	91	0.00
37	T	4-Chloroaniline		0.160	0.169	-5.6	95	0.00
38	T	Hexachlorobutadiene		0.275	0.281	-2.2	96	0.00
39	T	p-Chloro-m-cresol		0.327	0.358	-9.5	96	0.00
40	T	2-Methylnaphthalene		0.711	0.766	-7.7	97	0.00
41	T	1-Methylnaphthalene		0.297	0.318	-7.1	100	0.00
42	T	Hexachlorocyclopentadiene		0.273	0.308	-12.8	101	0.00
43	T	2,4,6-Trichlorophenol		0.266	0.297	-11.7	95	0.00
44	T	2,4,5-Trichlorophenol		0.289	0.321	-11.1	95	0.00
45	S	2-Fluorobiphenyl		0.928	0.978	-5.4	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.743	0.767	-3.2	94	0.00
47	T	2-Nitroaniline		0.215	0.229	-6.5	94	0.00
48	T	1,4-Dinitrobenzene		0.114	0.124	-8.8	93	0.00
49	T	1,3-Dinitrobenzene		0.130	0.135	-3.8	89	0.00
50	T	Dimethyl phthalate		0.982	1.017	-3.6	92	0.00
51	T	Acenaphthylene		1.155	1.251	-8.3	97	0.00
52	T	2,6-Dinitrotoluene		0.197	0.205	-4.1	92	0.00
53	T	1,2-Dinitrobenzene		0.078	0.079	-1.3	87	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	82	0.00
63	T	3-Nitroaniline		0.293	0.329	-12.3	97	0.00
64	T	Acenaphthene		0.991	1.081	-9.1	96	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.702	6.0	88	0.00
66	T	Dibenzofuran		1.734	1.785	-2.9	95	0.00
67	T	2,4-Dinitrotoluene		0.398	0.425	-6.8	88	0.00
68	T	4-Nitrophenol		0.314	0.345	-9.9	89	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.353	0.416	-17.8	94	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.346	0.396	-14.5	95	0.00
71	T	Diethyl phthalate		1.443	1.548	-7.3	92	0.00
72	T	Fluorene		1.363	1.429	-4.8	94	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.764	-6.6	98	0.00
74	T	4-Nitroaniline		0.287	0.313	-9.1	90	0.00
75	T	4,6-Dinitro-o-cresol		0.224	0.245	-9.4	91	0.00
76	T	NDPA/DPA		1.122	1.206	-7.5	94	0.00
77	T	Azobenzene		1.430	1.530	-7.0	95	0.00
78	S	2,4,6-Tribromophenol		0.213	0.232	-8.9	92	0.00
79	T	4-Bromophenyl phenyl ether		0.427	0.446	-4.4	93	0.00
80	T	Hexachlorobenzene		0.494	0.522	-5.7	98	0.00
81	T	Pentachlorophenol		0.288	0.288	0.0	85	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	79	0.00
88	T	Phenanthrene		0.988	1.040	-5.3	94	0.00
89	T	Anthracene		0.977	1.055	-8.0	94	0.00
90	T	Carbazole		0.894	0.978	-9.4	92	0.00
91	T	Di-n-butylphthalate		1.089	1.212	-11.3	92	0.00
92	T	Fluoranthene		1.131	1.240	-9.6	94	0.00
93	T	Benzidine		0.648	0.751	-15.9	91	0.00
94	T	Pyrene		1.194	1.341	-12.3	97	0.00
95	S	4-Terphenyl-d14		0.861	0.950	-10.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.463	0.503	-8.6	90	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	81	0.00
104	T	Benzo(a)anthracene	1.294	1.432	-10.7	97	0.00
105	T	3,3'-Dichlorobenzidine	0.446	0.499	-11.9	94	0.00
106	T	Chrysene	1.277	1.332	-4.3	94	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.767	0.846	-10.3	93	0.00
108	T	Di-n-octylphthalate	1.257	1.392	-10.7	93	0.00
109	T	Benzo(b)fluoranthene	1.181	1.381	-16.9	96	0.00
110	T	Benzo(k)fluoranthene	1.154	1.306	-13.2	103	0.00
111	T	Benzo(a)pyrene	1.058	1.265	-19.6	103	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	85	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.983	1.065	-8.3	101	0.00
114	T	Dibenzo(a,h)anthracene	0.935	1.064	-13.8	103	0.00
115	T	Benzo(ghi)perylene	0.923	1.041	-12.8	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	55403	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 85.47%			
34) IS1_Naphthalene-d8	7.239	136	200130	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 85.08%			
62) IS1_Acenaphthene-d10	9.004	164	132834	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 81.88%			
87) IS1_Phenanthrene-d10	10.421	188	280810	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 79.13%			
103) IS1_Chrysene-d12	12.974	240	252444	4.000	ug/ml	# 0.00
Standard Area 1 = 311680			Recovery = 80.99%			
112) IS1_Perylene-d12	14.380	264	277166	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 84.64%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.110	112	84185	5.375	ug/ml	-0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 107.50%			
7) Phenol-d6	5.351	99	113147	5.592	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 111.84%#			
19) Nitrobenzene-d5	6.445	82	119426	5.512	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 220.48%#			
45) 2-Fluorobiphenyl	8.386	172	244541	5.270	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 210.80%#			
78) 2,4,6-Tribromophenol	9.769	330	38602	5.462	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 109.24%			
95) 4-Terphenyl-d14	11.998	244	333456	5.514	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 220.56%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.387	74	59999	5.492	ug/ml	83
3) Pyridine	1.416	79	99204	6.066	ug/ml#	64
5) Aniline	5.257	93	141221	5.395	ug/ml	100
6) 2-Chlorophenol	5.416	128	91025	5.345	ug/ml	98
8) Phenol	5.369	94	120165	5.574	ug/ml	92
9) Bis(2-chloroethyl)ether	5.434	93	93061	5.466	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	109198	5.541	ug/ml	98
11) 1,4-Dichlorobenzene	5.739	146	108839	5.287	ug/ml	95
12) 1,2-Dichlorobenzene	5.939	146	101739	5.414	ug/ml	94
13) Benzyl alcohol	5.986	79	90140	5.474	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.181	45	133201	5.293	ug/ml#	44

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.186	108	82305	5.365	ug/ml	97
16) Hexachloroethane	6.357	117	42924	5.114	ug/ml#	51
17) n-Nitrosodi-n-propylamine	6.339	70	73780	5.150	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.392	108	90130	5.405	ug/ml	95
20) Nitrobenzene	6.469	77	110784	5.315	ug/ml	94
21) Isophorone	6.775	82	199881	5.405	ug/ml#	92
22) 2-Nitrophenol	6.845	139	44317	5.141	ug/ml#	94
23) 2,4-Dimethylphenol	6.986	107	90318	5.172	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.075	93	120495	5.193	ug/ml#	96
25) 2,4-Dichlorophenol	7.128	162	84379	5.301	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.198	180	103737	5.336	ug/ml	98
35) Naphthalene	7.257	128	275355	5.161	ug/ml	99
36) Benzoic Acid	7.104	105	62908	4.789	ug/ml	94
37) 4-Chloroaniline	7.369	65	42321	5.290	ug/ml	93
38) Hexachlorobutadiene	7.445	225	70394	5.116	ug/ml	98
39) p-Chloro-m-cresol	7.922	107	89489	5.472	ug/ml	93
40) 2-Methylnaphthalene	7.992	142	191594	5.390	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	79496M3	5.349	ug/ml	
42) Hexachlorocyclopentadiene	8.175	237	77101	5.645	ug/ml	97
43) 2,4,6-Trichlorophenol	8.304	196	74268	5.589	ug/ml	96
44) 2,4,5-Trichlorophenol	8.327	196	80319	5.549	ug/ml	96
46) 2-Chloronaphthalene	8.469	162	191892	5.162	ug/ml	97
47) 2-Nitroaniline	8.592	138	57318	5.325	ug/ml	97
48) 1,4-Dinitrobenzene	8.733	168	31021	5.441	ug/ml	91
49) 1,3-Dinitrobenzene	8.804	168	33761	5.179	ug/ml#	1
50) Dimethyl phthalate	8.816	163	254529	5.181	ug/ml#	98
51) Acenaphthylene	8.863	152	312930	5.413	ug/ml	100
52) 2,6-Dinitrotoluene	8.845	165	51382	5.208	ug/ml#	80
53) 1,2-Dinitrobenzene	8.880	168	19683	5.073	ug/ml#	1
63) 3-Nitroaniline	8.998	138	54675	5.623	ug/ml#	87
64) Acenaphthene	9.039	154	179537	5.458	ug/ml	91
65) 2,4-Dinitrophenol	9.098	184	28601	4.702	ug/ml	92
66) Dibenzofuran	9.210	168	296371	5.146	ug/ml#	72
67) 2,4-Dinitrotoluene	9.227	165	70591	5.336	ug/ml	89
68) 4-Nitrophenol	9.204	65	57342	5.496	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	69156	5.906	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.345	232	65816	5.725	ug/ml	96
71) Diethyl phthalate	9.504	149	257035	5.363	ug/ml	99
72) Fluorene	9.539	166	237323	5.245	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.569	204	126901	5.331	ug/ml	94

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-Nitroaniline	9.580	138	51943	5.454	ug/ml	#	72
75)	4,6-Dinitro-o-cresol	9.616	198	40670	5.457	ug/ml	#	66
76)	NDPA/DPA	9.686	169	200321	5.376	ug/ml		96
77)	Azobenzene	9.716	77	253969	5.349	ug/ml		99
79)	4-Bromophenyl phenyl e...	10.033	248	74105	5.225	ug/ml	#	89
80)	Hexachlorobenzene	10.069	284	86665	5.278	ug/ml	#	86
81)	Pentachlorophenol	10.269	266	47842	5.000	ug/ml		93
88)	Phenanthrene	10.445	178	364896	5.263	ug/ml		99
89)	Anthracene	10.492	178	370163	5.397	ug/ml		98
90)	Carbazole	10.669	167	343325	5.471	ug/ml		98
91)	Di-n-butylphthalate	11.086	149	425422	5.563	ug/ml		99
92)	Fluoranthene	11.580	202	435270	5.484	ug/ml	#	90
93)	Benzidine	11.751	184	263663	5.794	ug/ml	#	95
94)	Pyrene	11.786	202	470653	5.615	ug/ml		99
96)	Butyl benzyl phthalate	12.515	149	176719	5.433	ug/ml		92
104)	Benzo(a)anthracene	12.968	228	451936	5.534	ug/ml		99
105)	3,3'-Dichlorobenzidine	12.986	252	157325	5.593	ug/ml	#	96
106)	Chrysene	13.004	228	420177	5.213	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.145	149	267105	5.517	ug/ml	#	92
108)	Di-n-octylphthalate	13.798	149	439310	5.539	ug/ml	#	75
109)	Benzo(b)fluoranthene	14.027	252	435829	5.845	ug/ml	#	93
110)	Benzo(k)fluoranthene	14.051	252	412234	5.660	ug/ml	#	92
111)	Benzo(a)pyrene	14.321	252	399059	5.976	ug/ml	#	92
113)	Indeno(1,2,3-cd)pyrene	15.309	276	368948	5.417	ug/mL	#	88
114)	Dibenzo(a,h)anthracene	15.339	278	368679	5.693	ug/ml	#	88
115)	Benzo(ghi)perylene	15.521	276	360504	5.639	ug/ml	#	82

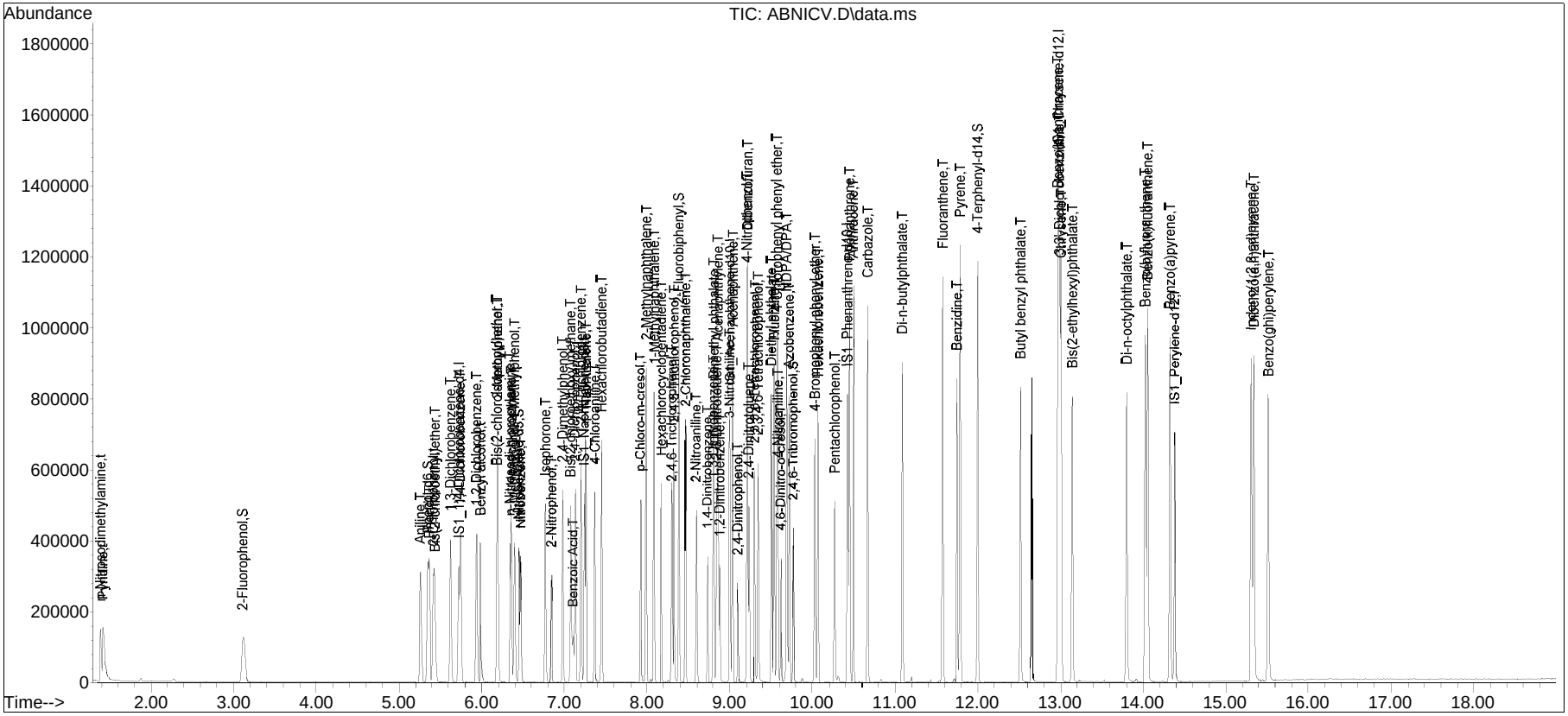
(#) = qualifier out of range (m) = manual integration (+) = signals summed

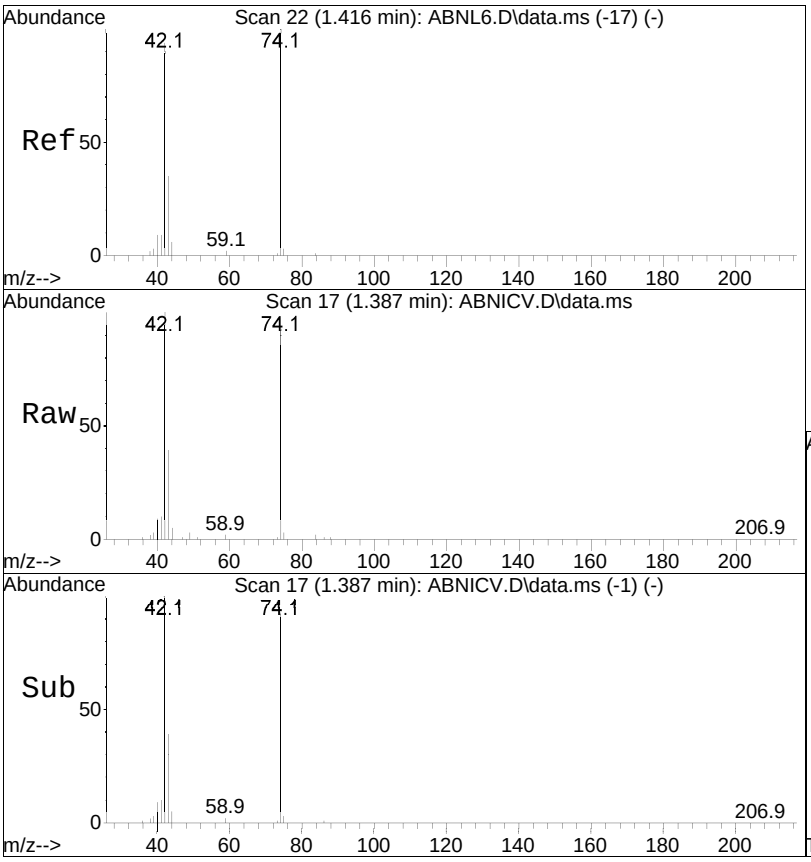
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

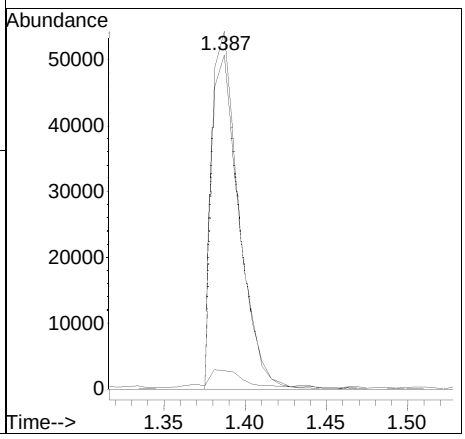


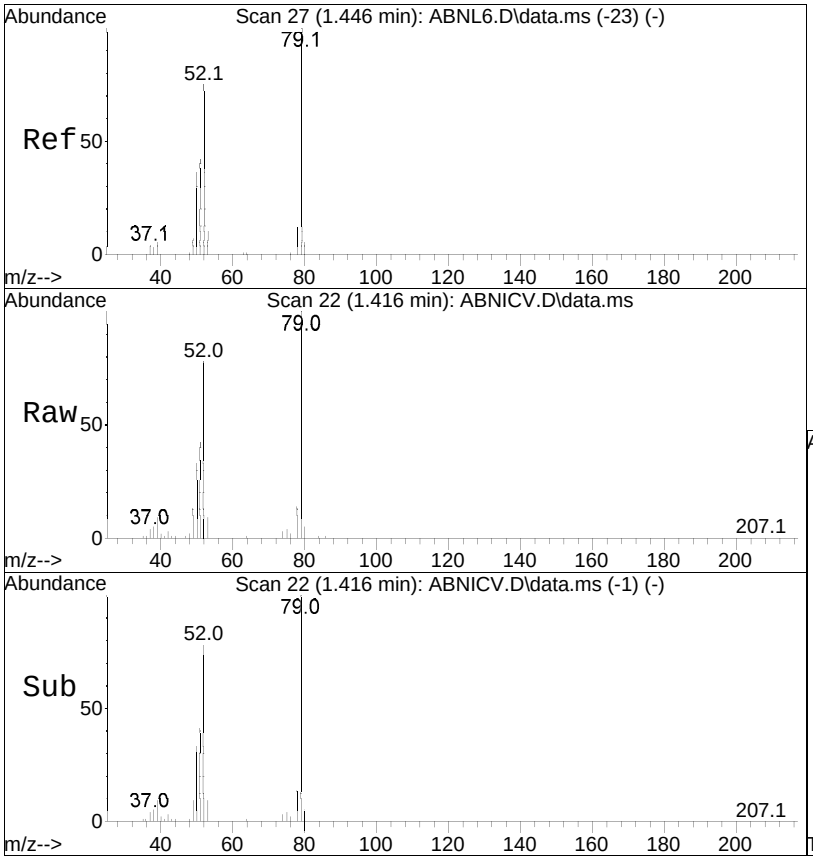


#2
n-Nitrosodimethylamine
Concen: 5.49 ug/ml
RT: 1.387 min Scan# 17
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 74 Resp: 59999

Ion	Ratio	Lower	Upper
74	100		
42	103.9	100.0	150.0
44	7.9	6.7	10.1

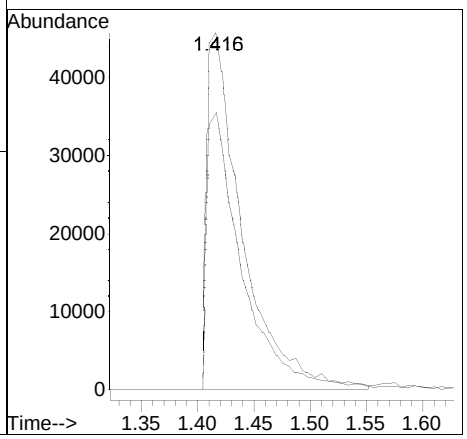


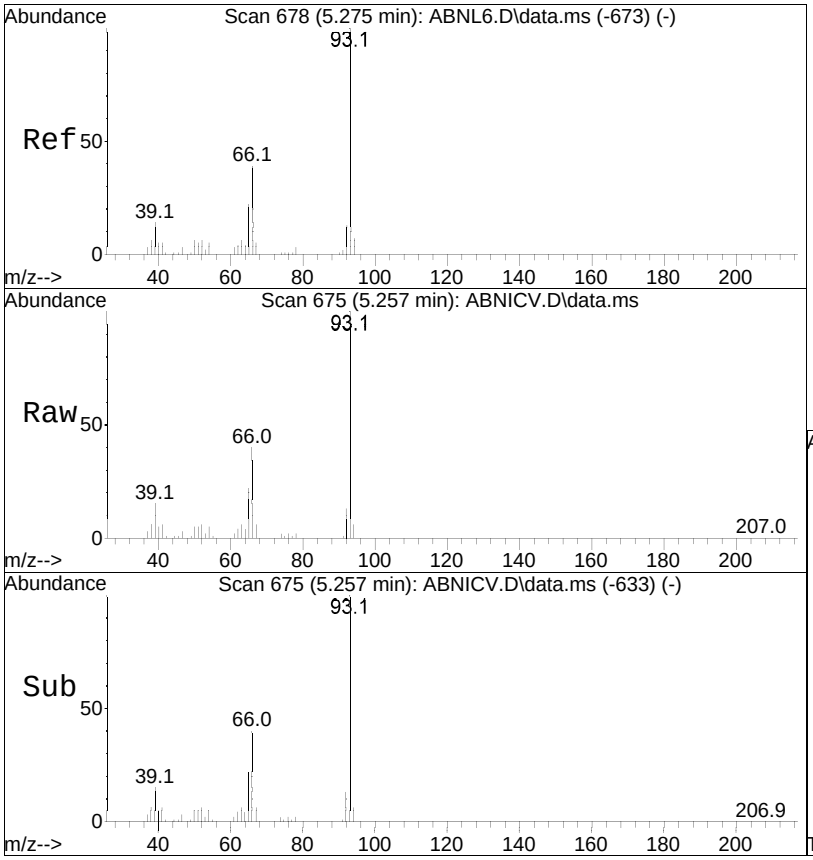


#3
Pyridine
Concen: 6.07 ug/ml
RT: 1.416 min Scan# 22
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 79 Resp: 99204

Ion	Ratio	Lower	Upper
79	100		
52	77.2	93.1	139.7#

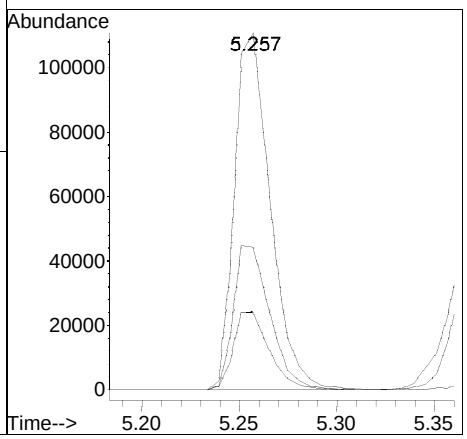


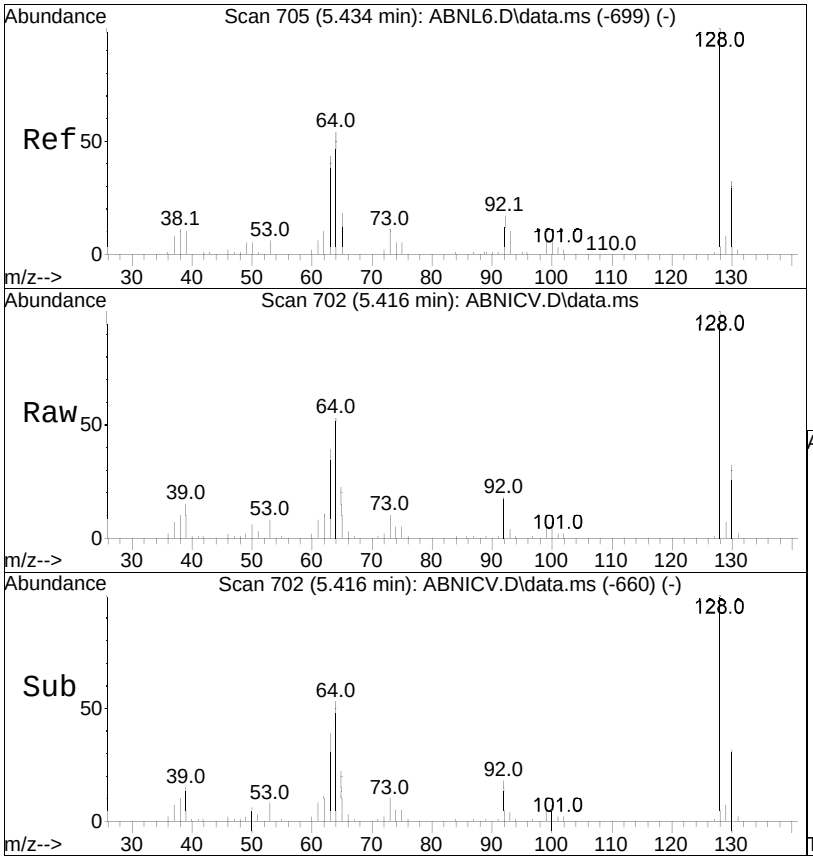


#5
Aniline
Concen: 5.39 ug/ml
RT: 5.257 min Scan# 675
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 93 Resp: 141221

Ion	Ratio	Lower	Upper
93	100		
66	41.1	32.6	49.0
65	22.0	17.6	26.4

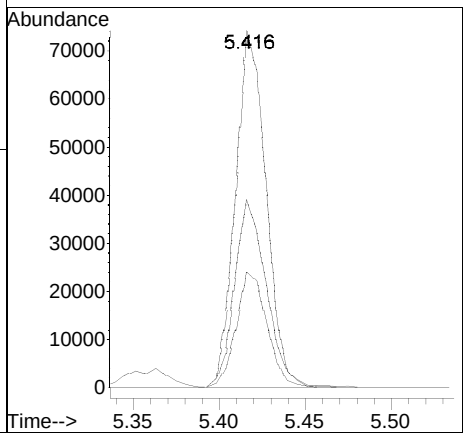


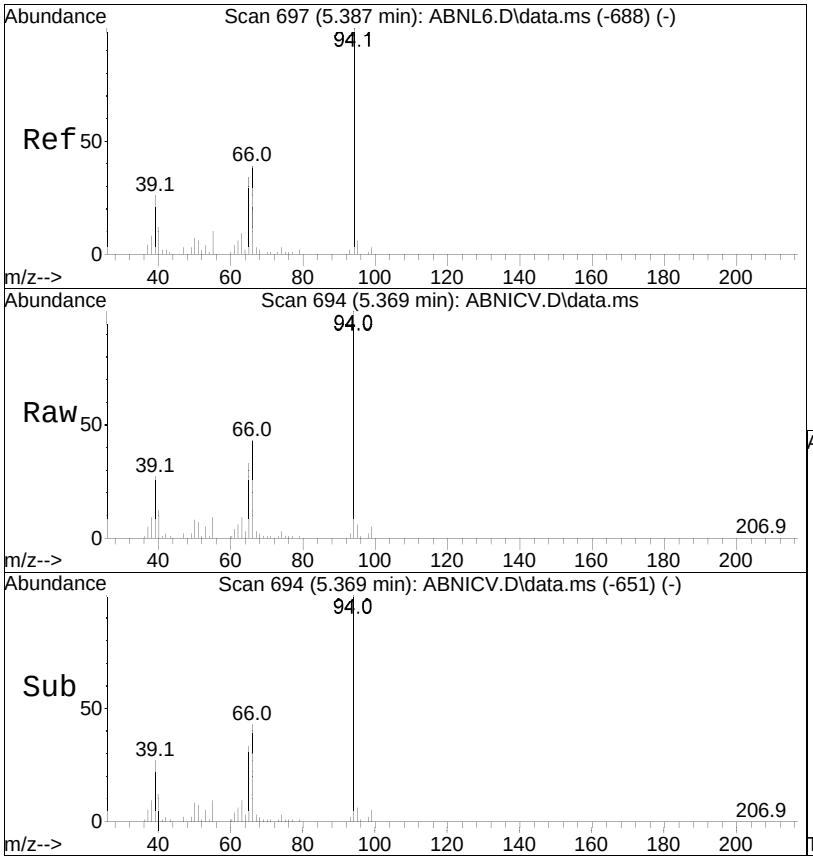


#6
2-Chlorophenol
Concen: 5.35 ug/ml
RT: 5.416 min Scan# 702
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:128 Resp: 91025

Ion	Ratio	Lower	Upper
128	100		
64	54.7	45.1	67.7
130	32.8	26.2	39.4

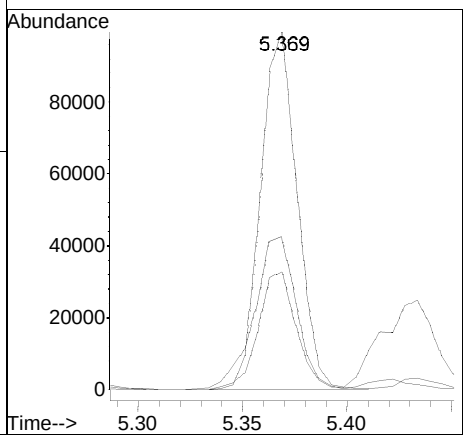


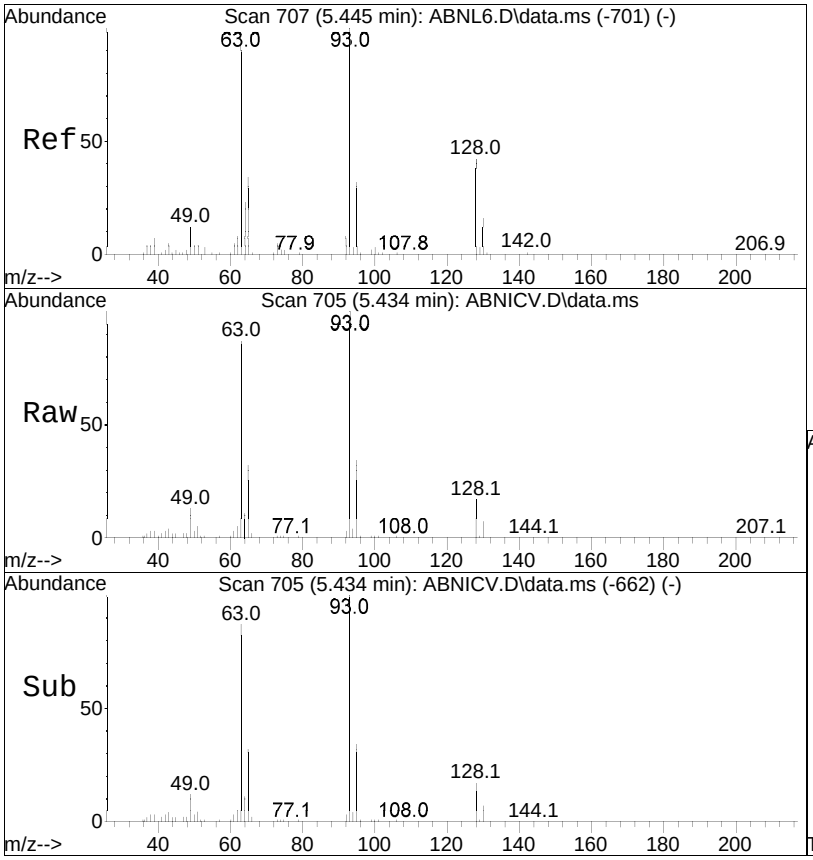


#8
Phenol
Concen: 5.57 ug/ml
RT: 5.369 min Scan# 694
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 94 Resp: 120165

Ion	Ratio	Lower	Upper
94	100		
65	34.7	26.0	39.0
66	49.7	33.8	50.8

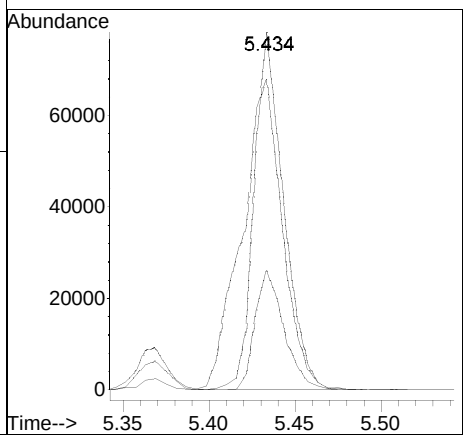


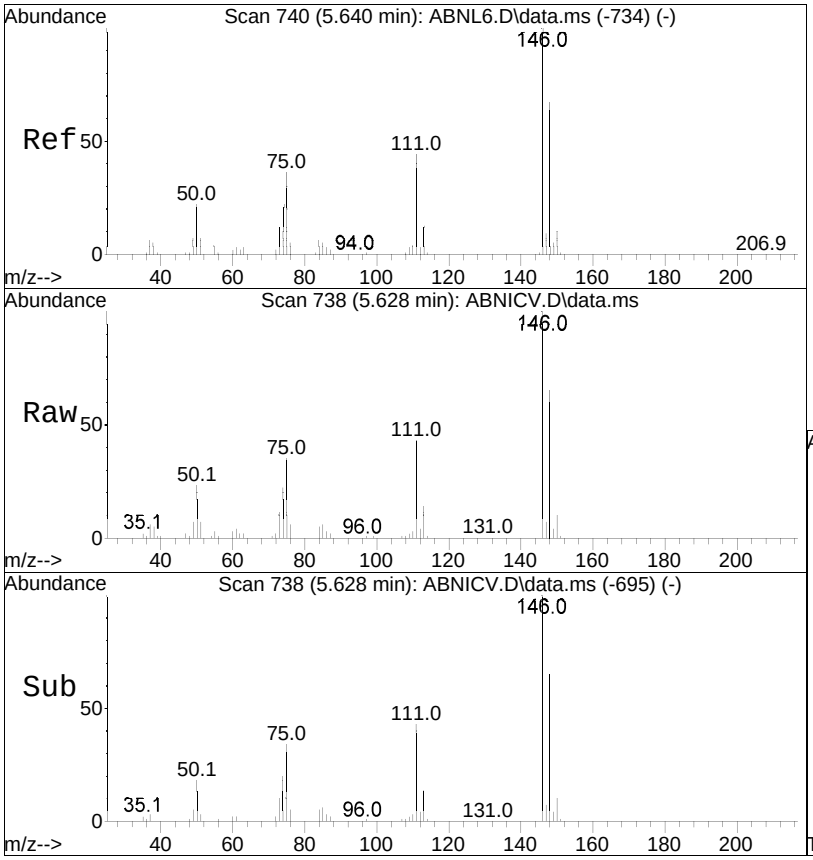


#9
Bis(2-chloroethyl)ether
Concen: 5.47 ug/ml
RT: 5.434 min Scan# 705
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 93 Resp: 93061

Ion	Ratio	Lower	Upper
93	100		
63	118.6	74.6	111.8#
95	32.7	25.9	38.9

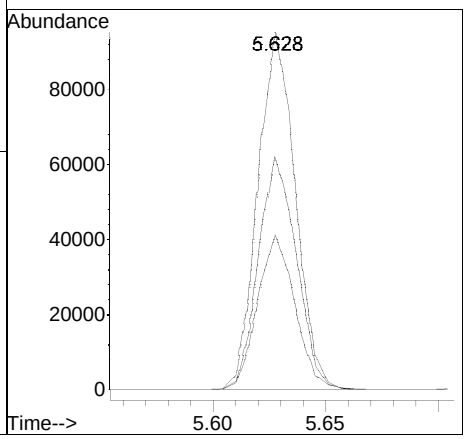


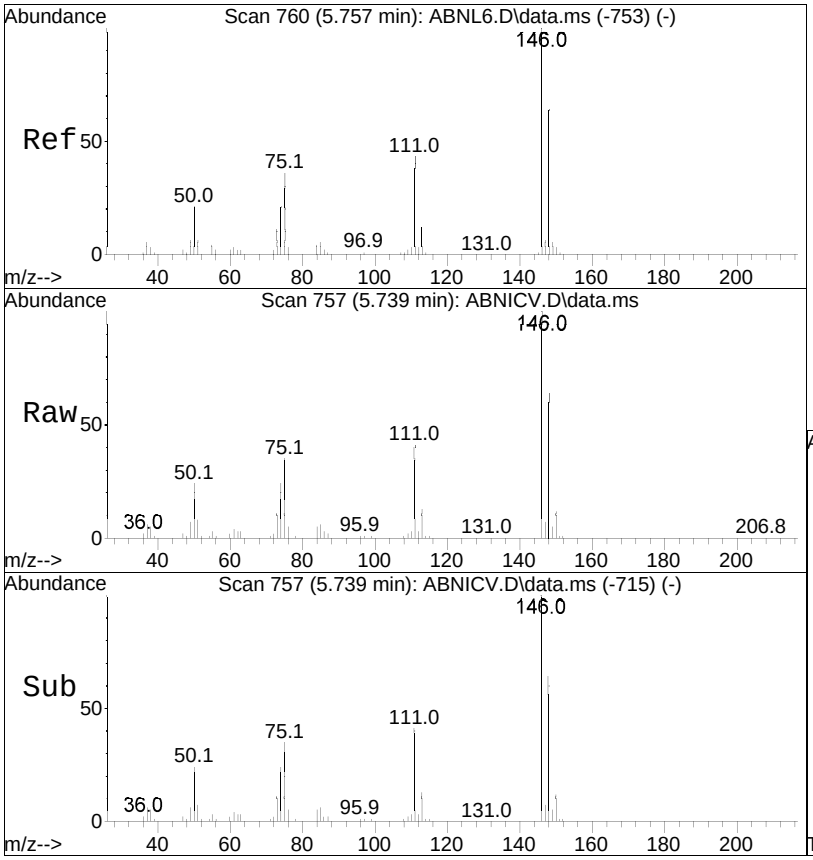


#10
1,3-Dichlorobenzene
Concen: 5.54 ug/ml
RT: 5.628 min Scan# 738
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:146 Resp: 109198

Ion	Ratio	Lower	Upper
146	100		
111	43.3	34.3	51.5
148	66.2	50.8	76.2

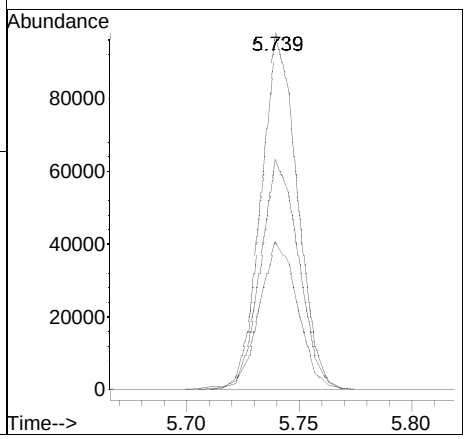


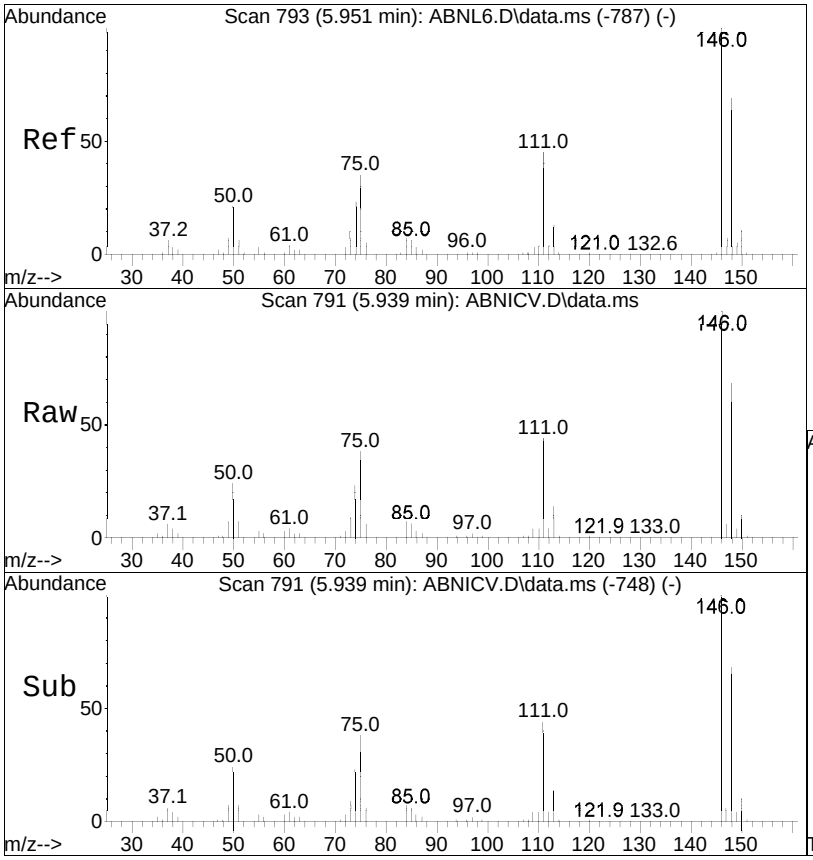


#11
1,4-Dichlorobenzene
Concen: 5.29 ug/ml
RT: 5.739 min Scan# 757
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:146 Resp: 108839

Ion	Ratio	Lower	Upper
146	100		
148	67.9	50.7	76.1
111	44.7	33.4	50.0

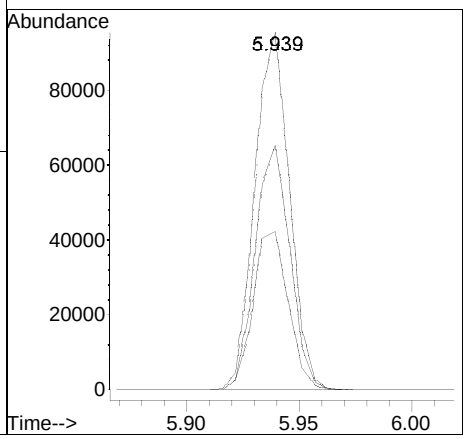


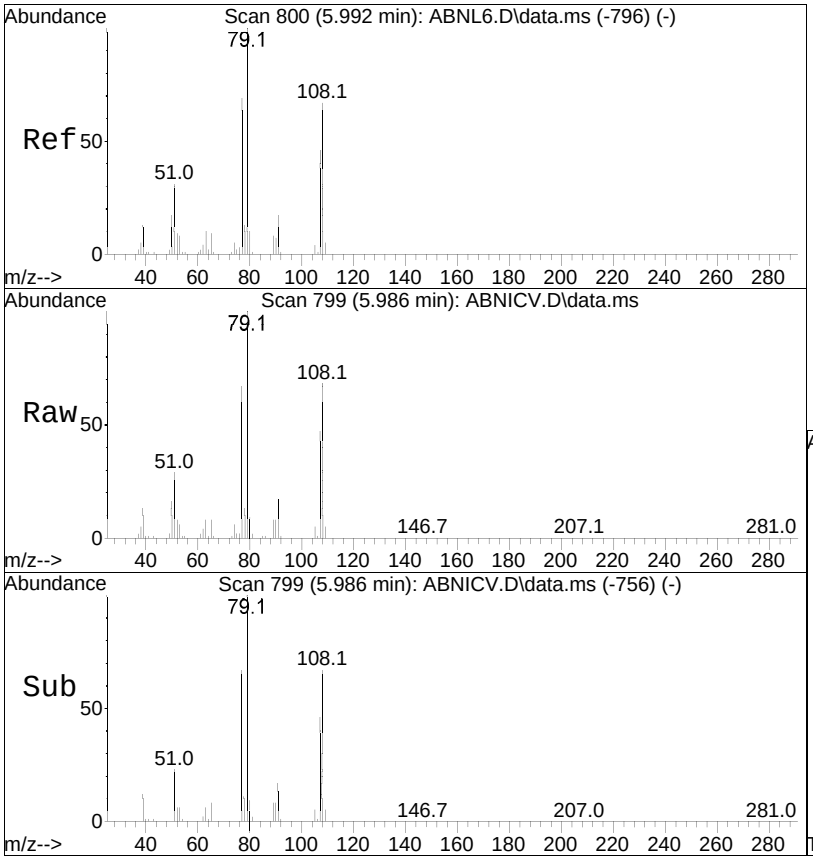


#12
1,2-Dichlorobenzene
Concen: 5.41 ug/ml
RT: 5.939 min Scan# 791
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:146 Resp: 101739

Ion	Ratio	Lower	Upper
146	100		
111	45.2	34.6	52.0
148	68.6	50.2	75.4

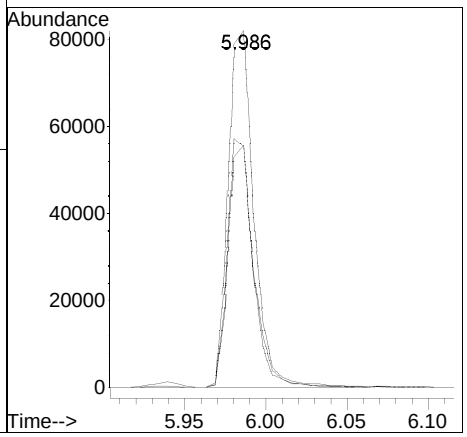


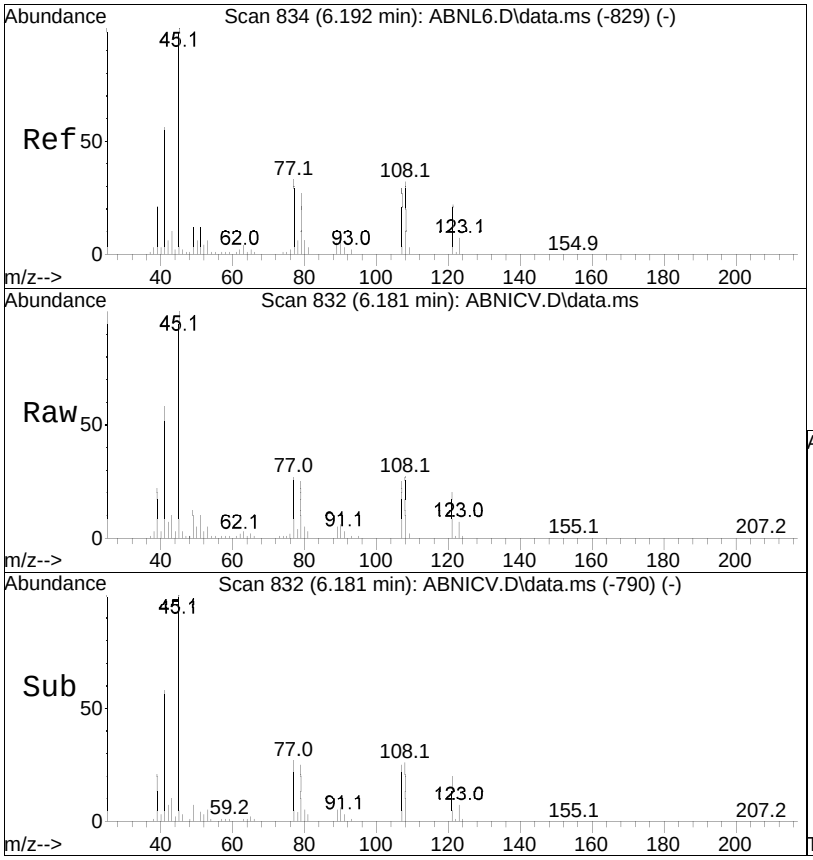


#13
Benzyl alcohol
Concen: 5.47 ug/ml
RT: 5.986 min Scan# 799
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 79 Resp: 90140

Ion	Ratio	Lower	Upper
79	100		
77	68.8	54.9	82.3
108	68.1	63.1	94.7

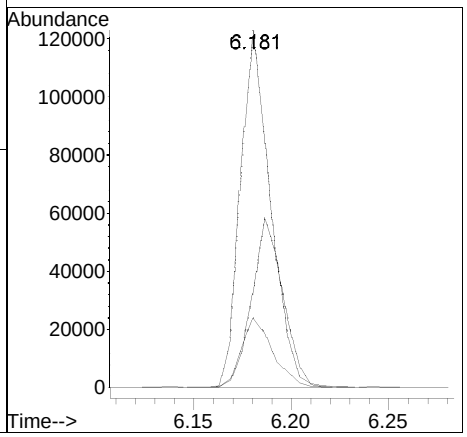


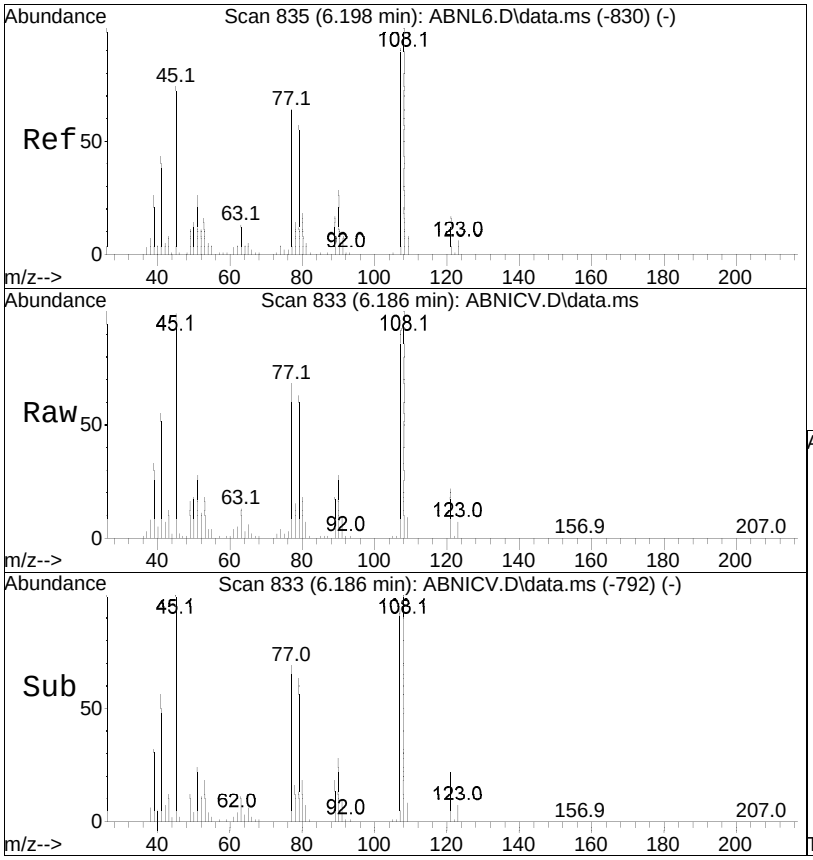


#14
Bis(2-chloroisopropyl)ether
Concen: 5.29 ug/ml
RT: 6.181 min Scan# 832
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 45 Resp: 133201

Ion	Ratio	Lower	Upper
45	100		
121	20.3	9.8	14.6#
77	46.6	6.1	9.1#

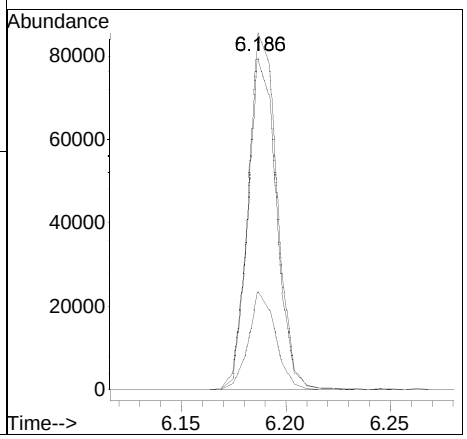


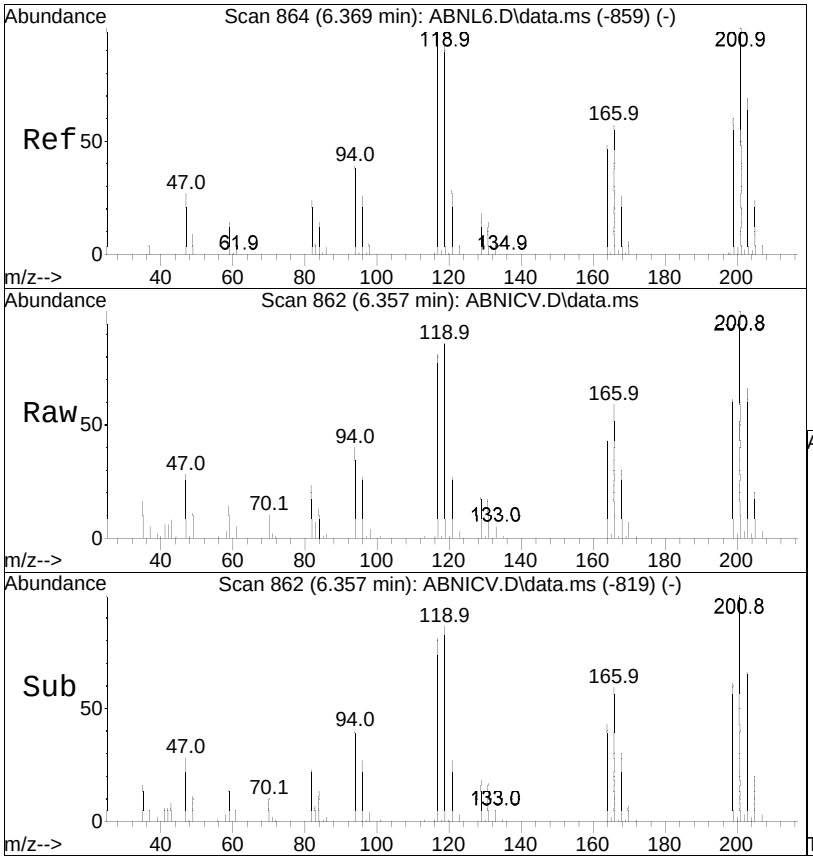


#15
2-Methylphenol
Concen: 5.37 ug/ml
RT: 6.186 min Scan# 833
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:108 Resp: 82305

Ion	Ratio	Lower	Upper
108	100		
107	91.0	70.7	106.1
90	25.6	18.7	28.1

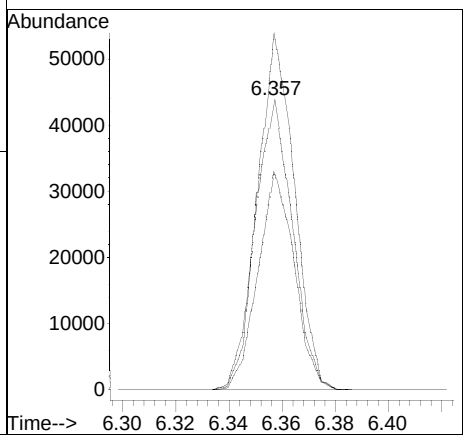


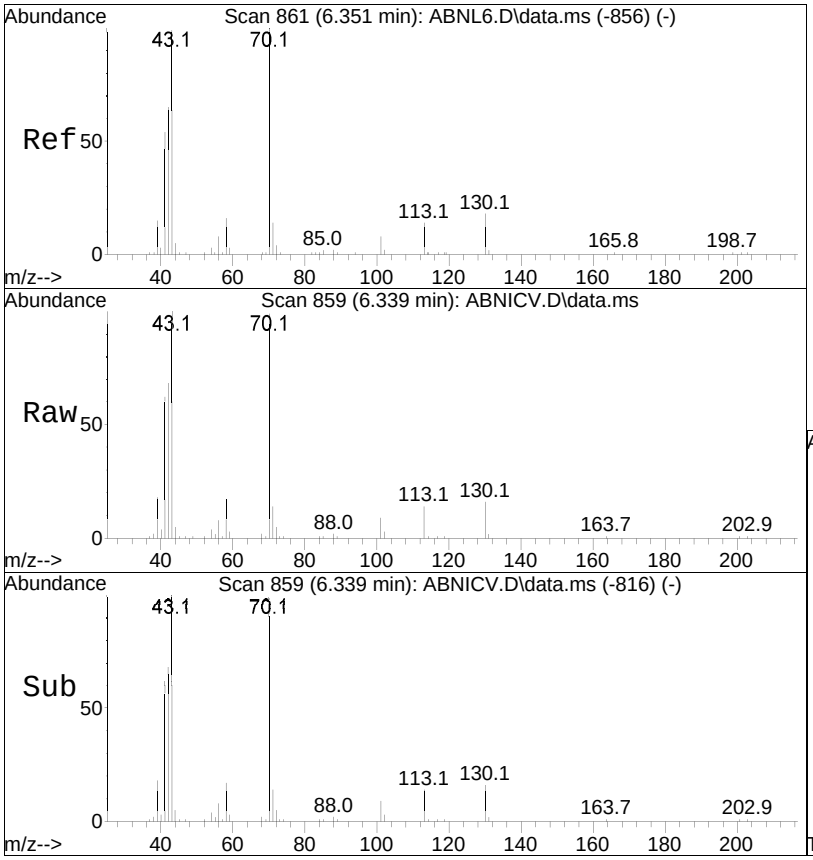


#16
Hexachloroethane
Concen: 5.11 ug/ml
RT: 6.357 min Scan# 862
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:117 Resp: 42924

Ion	Ratio	Lower	Upper
117	100		
201	119.7	58.6	87.8#
199	72.7	36.9	55.3#

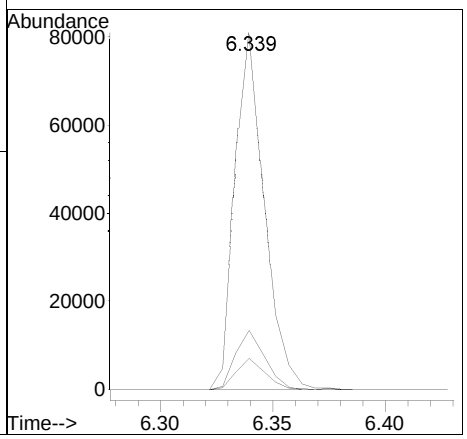


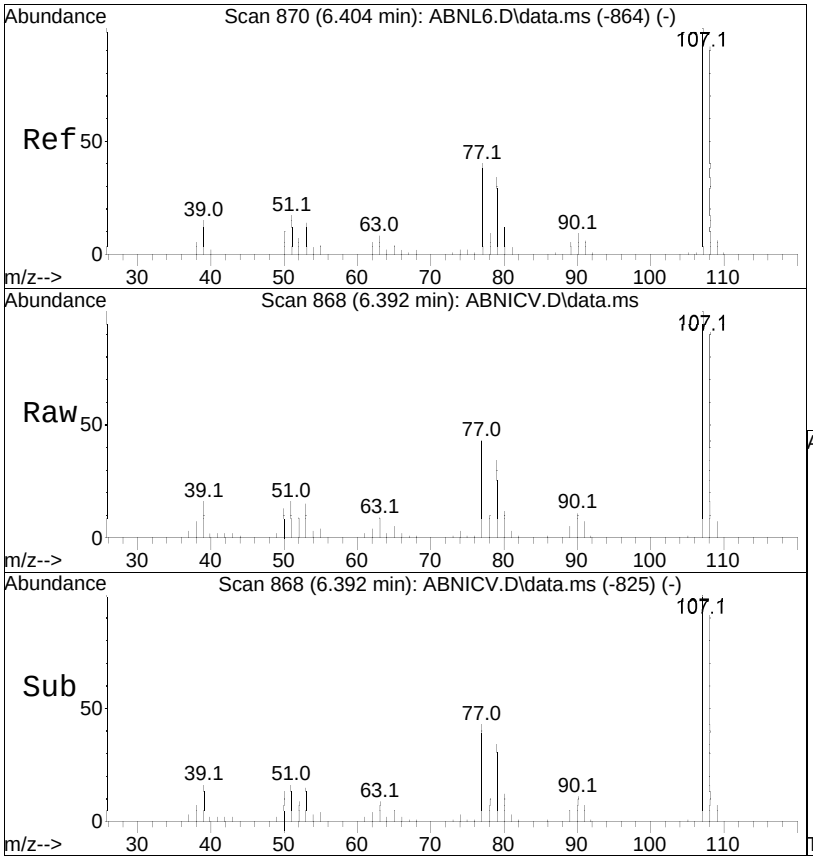


#17
n-Nitrosodi-n-propylamine
Concen: 5.15 ug/ml
RT: 6.339 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 70 Resp: 73780

Ion	Ratio	Lower	Upper
70	100		
130	16.5	18.2	27.4#
101	8.7	7.8	11.8

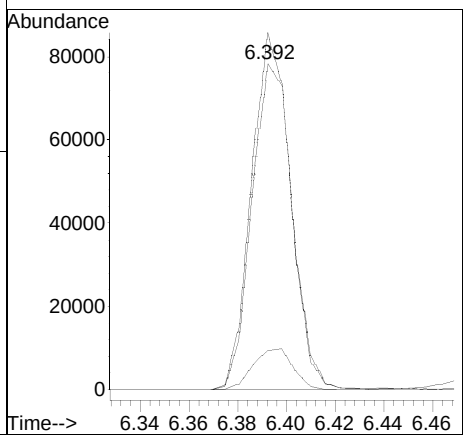


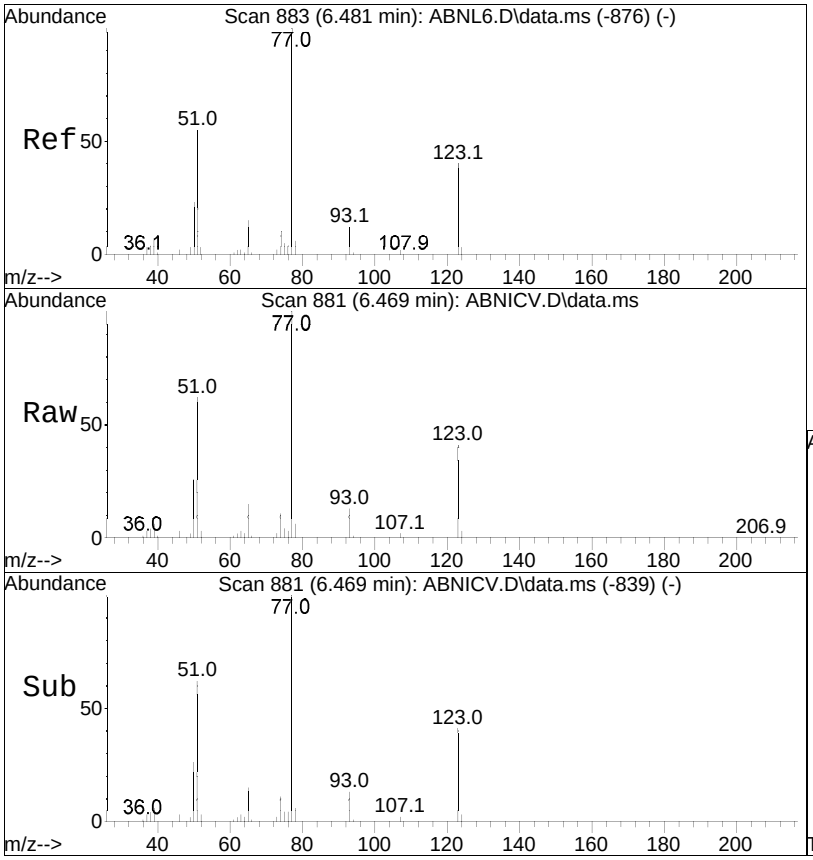


#18
3-Methylphenol/4-Methylphenol
Concen: 5.40 ug/ml
RT: 6.392 min Scan# 868
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:108 Resp: 90130

Ion	Ratio	Lower	Upper
108	100		
107	105.5	88.6	132.8
90	12.6	8.8	13.2

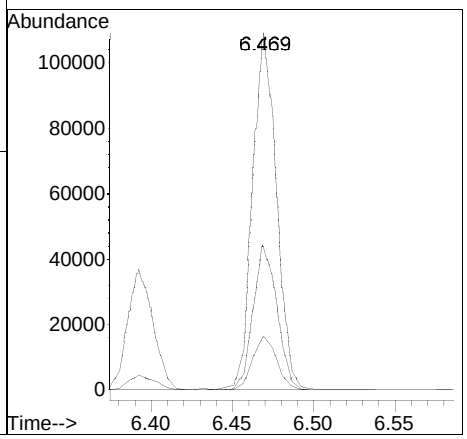


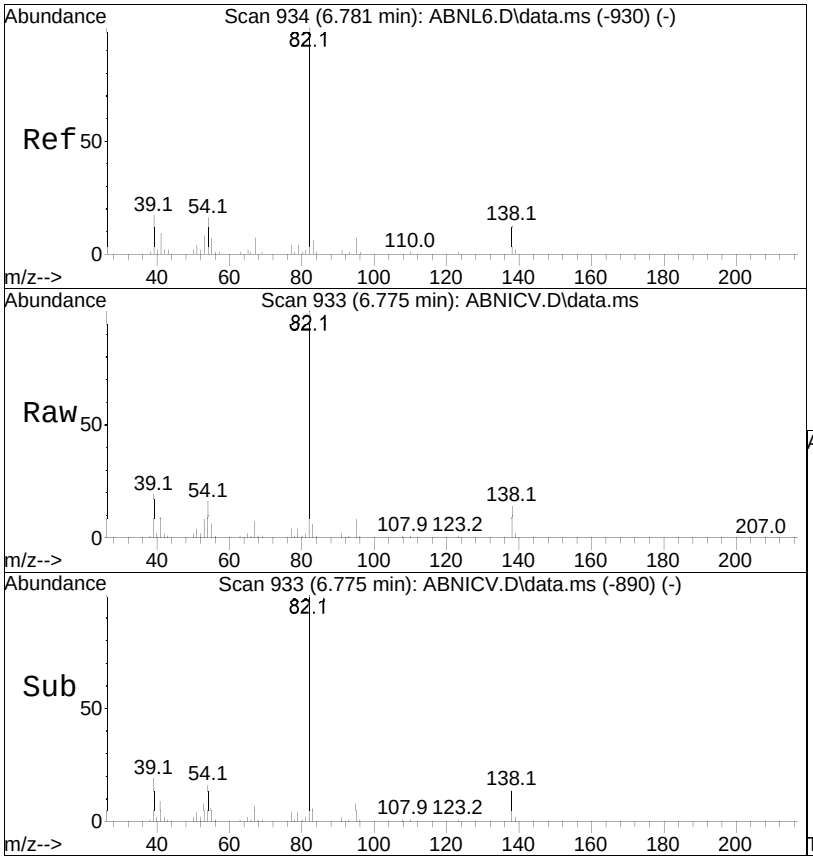


#20
Nitrobenzene
Concen: 5.31 ug/ml
RT: 6.469 min Scan# 881
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 77 Resp: 110784

Ion	Ratio	Lower	Upper
77	100		
123	40.6	36.3	54.5
65	15.1	11.6	17.4

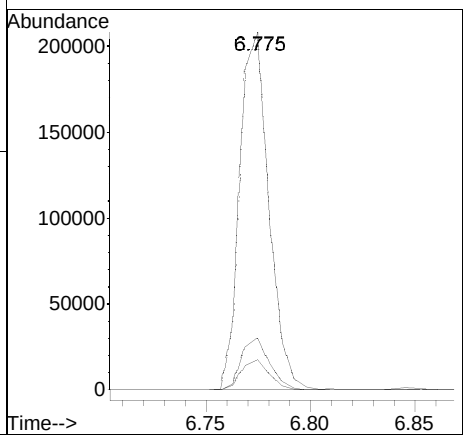


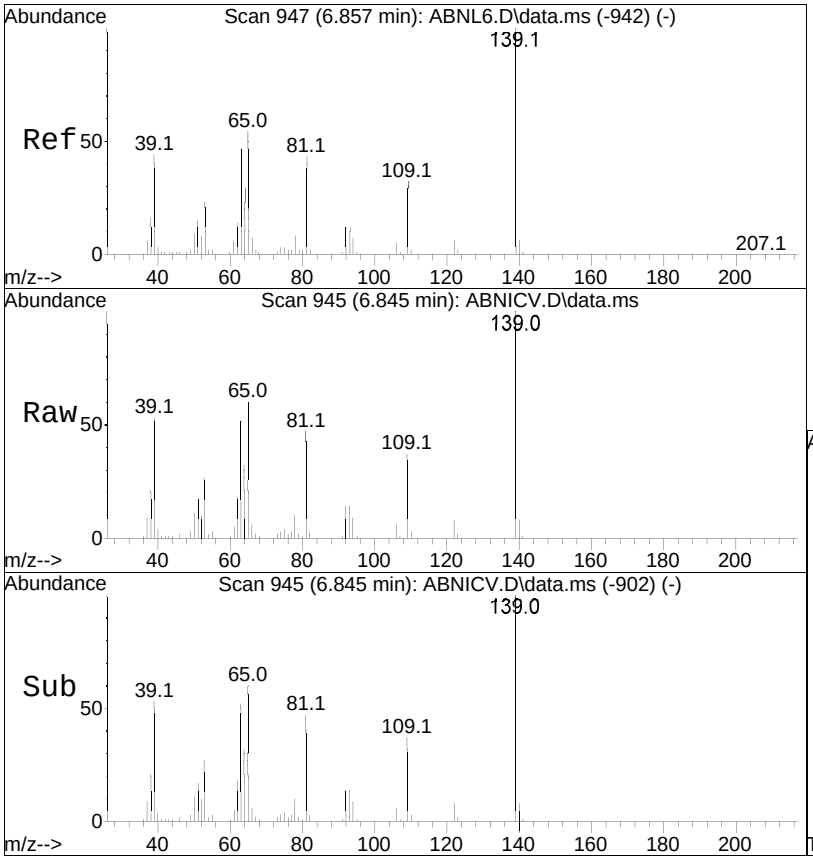


#21
Isophorone
Concen: 5.40 ug/ml
RT: 6.775 min Scan# 933
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 82 Resp: 199881

Ion	Ratio	Lower	Upper
82	100		
138	14.2	14.7	22.1#
95	8.3	5.2	7.8#

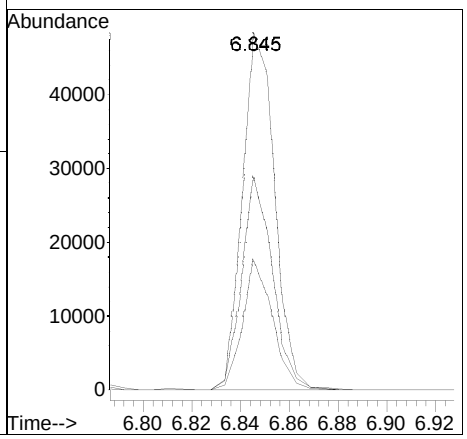


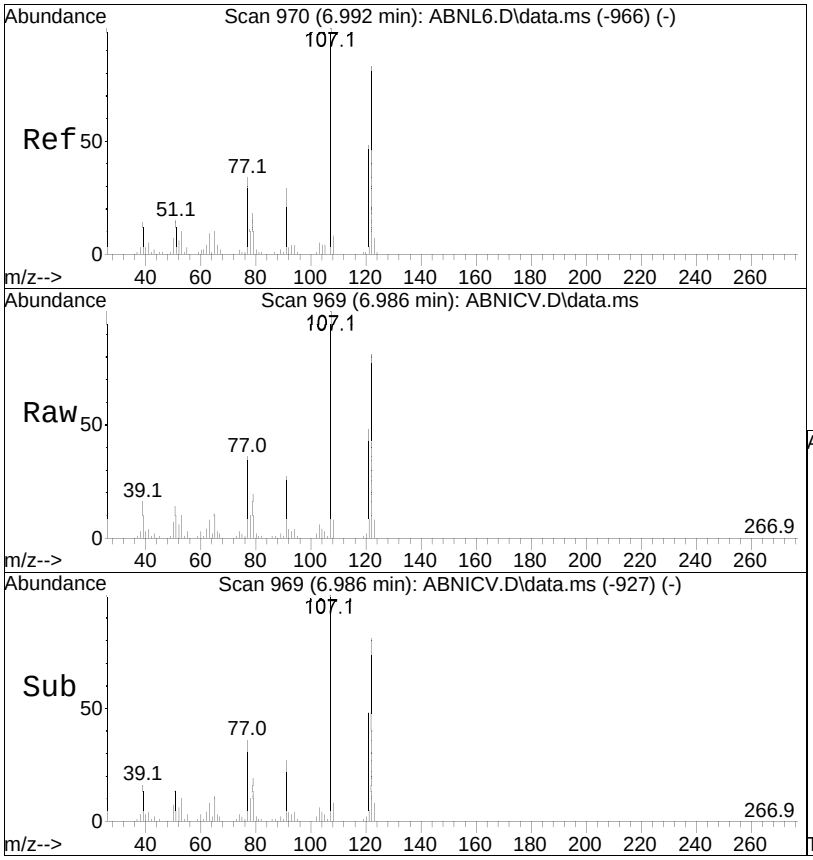


#22
2-Nitrophenol
Concen: 5.14 ug/ml
RT: 6.845 min Scan# 945
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:139 Resp: 44317

Ion	Ratio	Lower	Upper
139	100		
109	34.0	19.4	29.0#
65	57.0	46.1	69.1

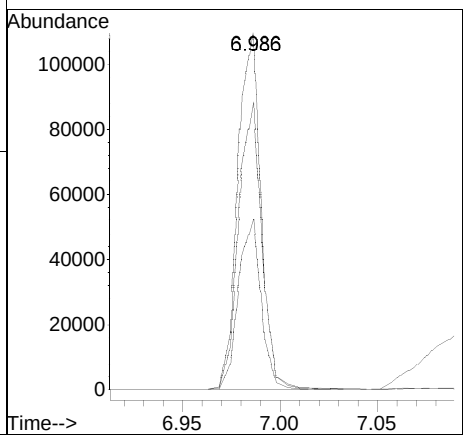


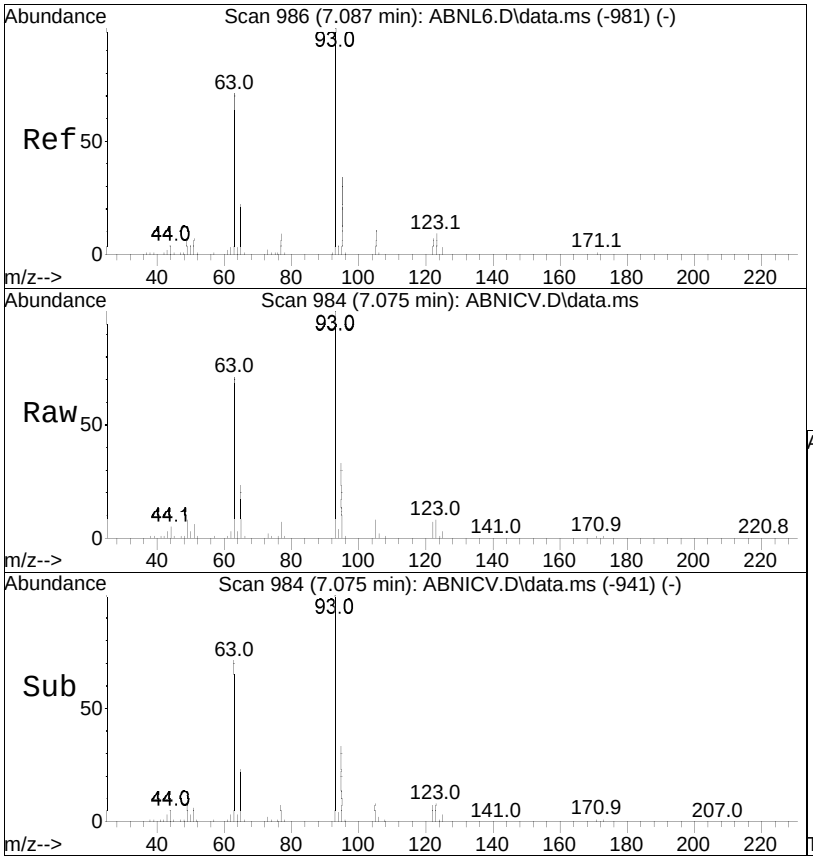


#23
2,4-Dimethylphenol
Concen: 5.17 ug/ml
RT: 6.986 min Scan# 969
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:107 Resp: 90318

Ion	Ratio	Lower	Upper
107	100		
121	46.7	40.0	60.0
122	80.4	70.2	105.4

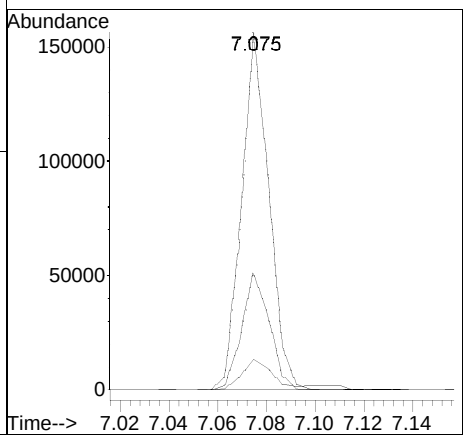


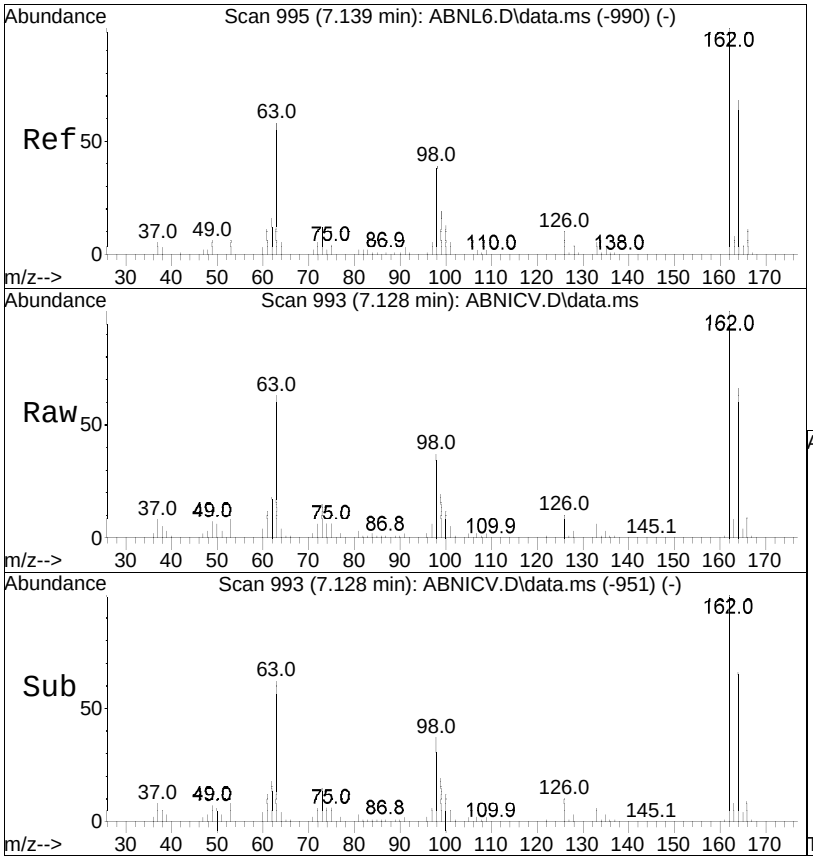


#24
Bis(2-chloroethoxy)methane
Concen: 5.19 ug/ml
RT: 7.075 min Scan# 984
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 93 Resp: 120495

Ion	Ratio	Lower	Upper
93	100		
95	33.4	25.8	38.8
123	9.6	10.1	15.1#

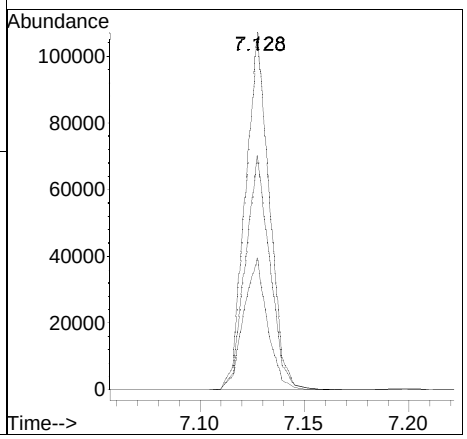


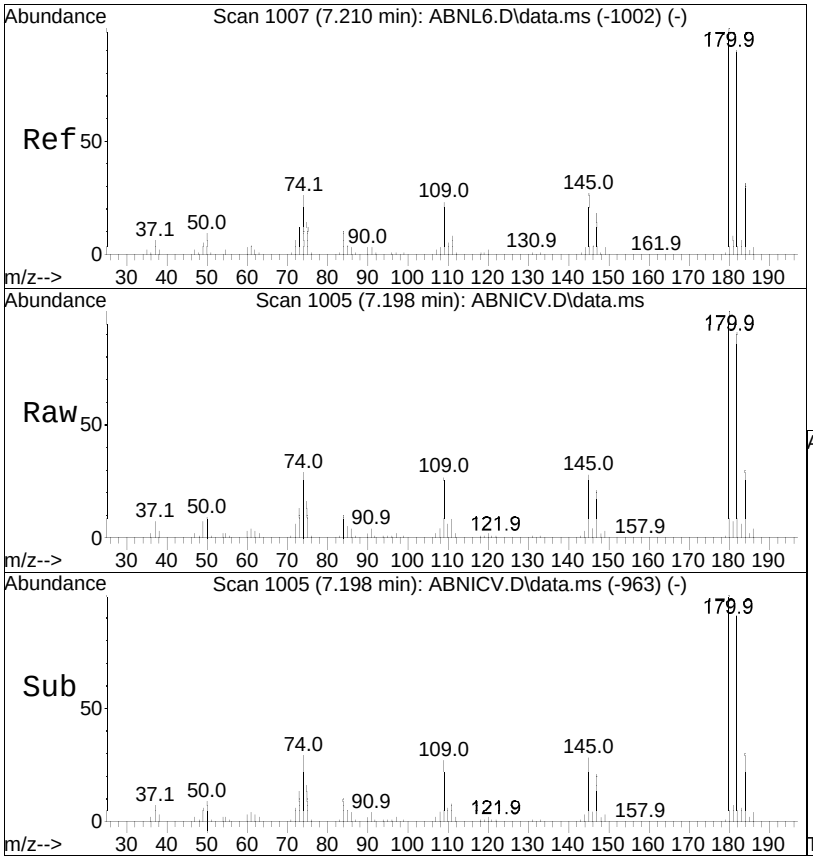


#25
2,4-Dichlorophenol
Concen: 5.30 ug/ml
RT: 7.128 min Scan# 993
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:162 Resp: 84379

Ion	Ratio	Lower	Upper
162	100		
164	67.1	51.0	76.4
98	37.2	32.2	48.2

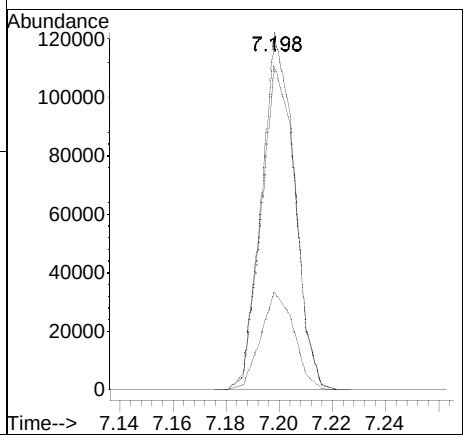


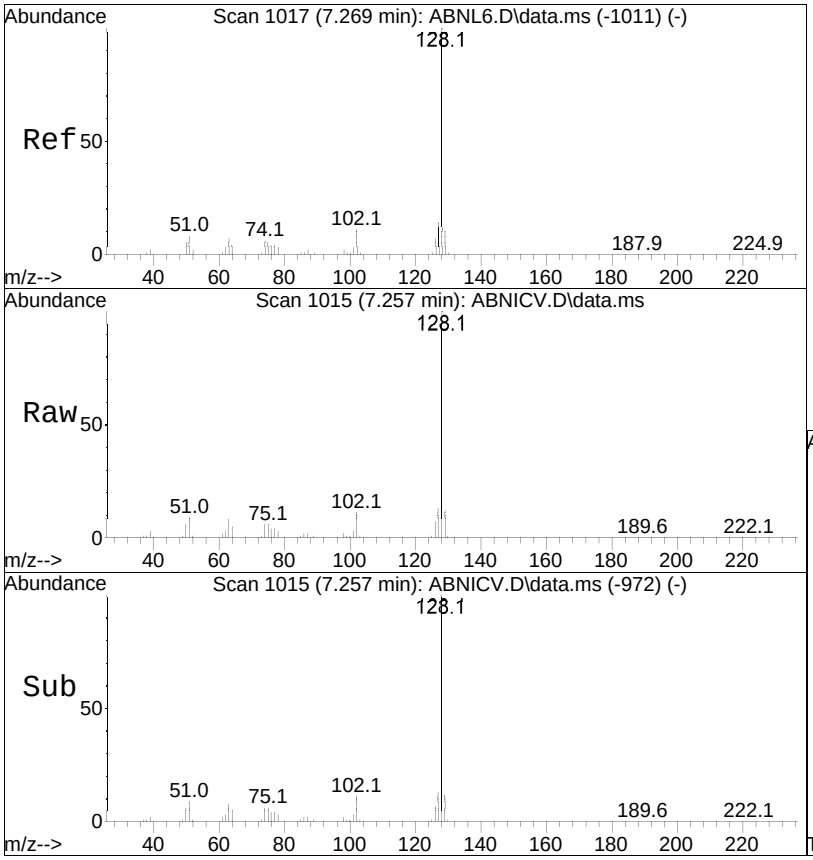


#26
1,2,4-Trichlorobenzene
Concen: 5.34 ug/ml
RT: 7.198 min Scan# 1005
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:180 Resp: 103737

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.0	114.0
145	27.9	25.7	38.5

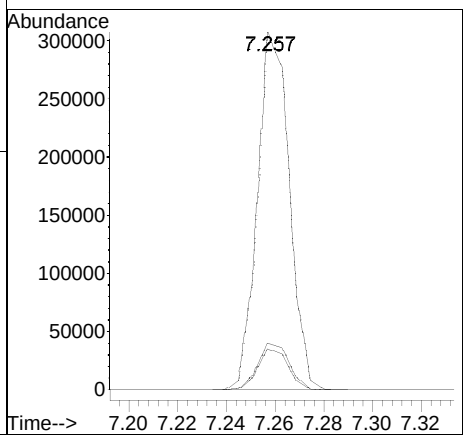


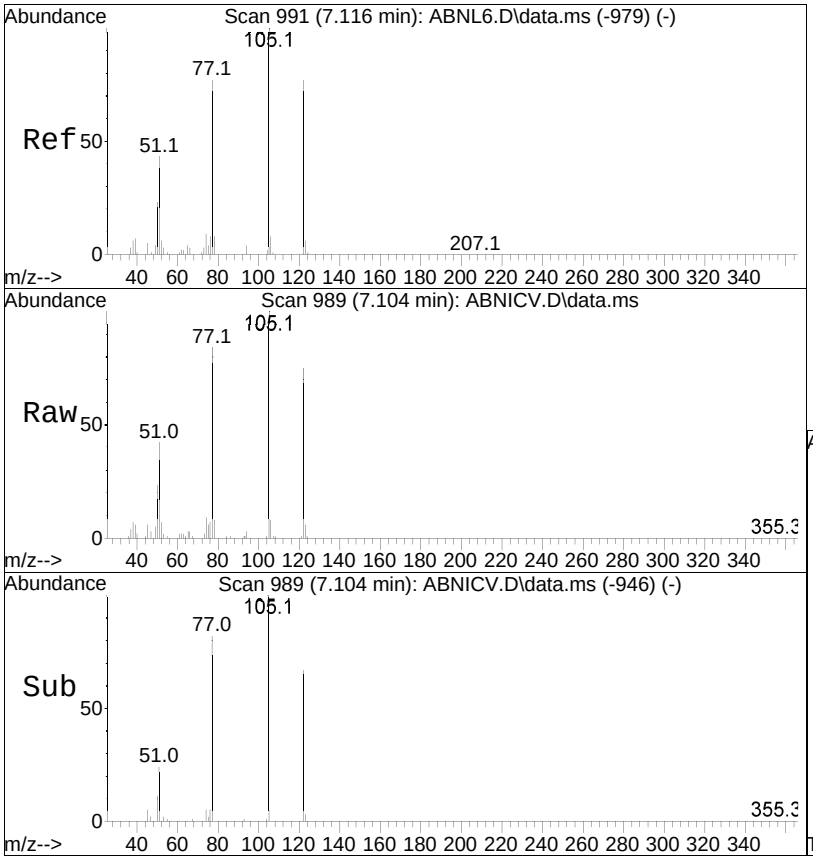


#35
Naphthalene
Concen: 5.16 ug/ml
RT: 7.257 min Scan# 1015
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:128 Resp: 275355

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.7	13.1
127	13.2	10.3	15.5

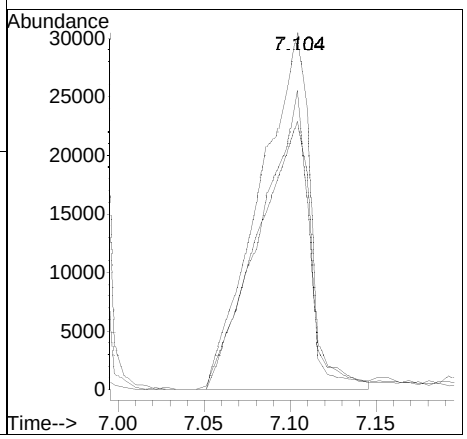


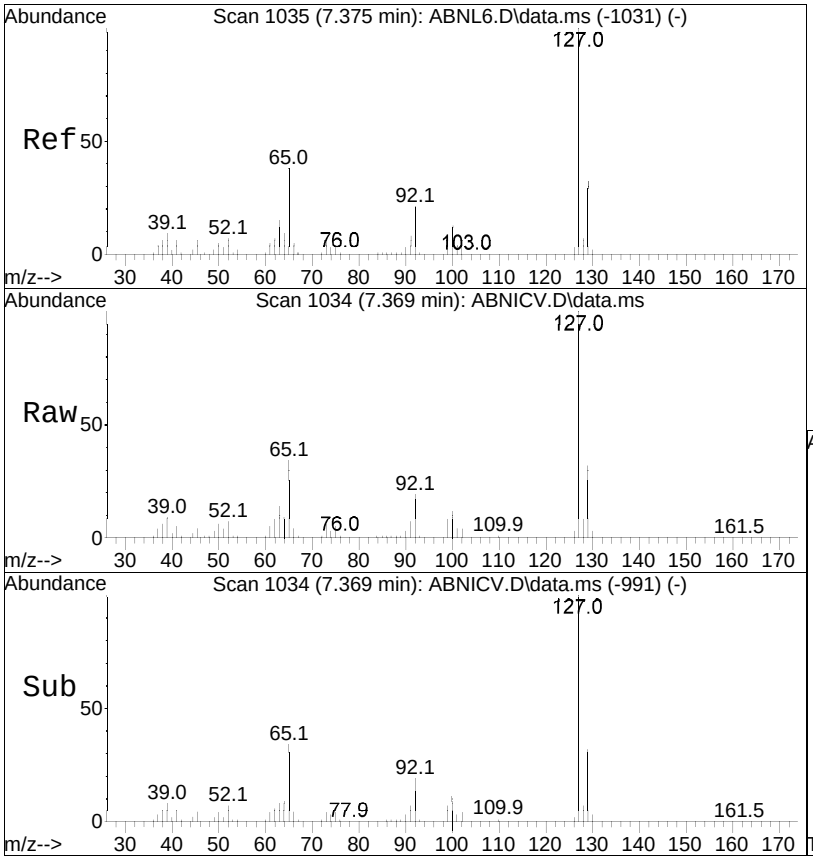


#36
Benzoic Acid
Concen: 4.79 ug/ml
RT: 7.104 min Scan# 989
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:105 Resp: 62908

Ion	Ratio	Lower	Upper
105	100		
122	79.1	59.9	89.9
77	80.8	60.1	90.1

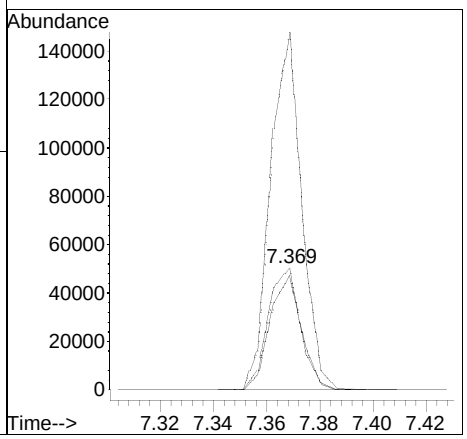


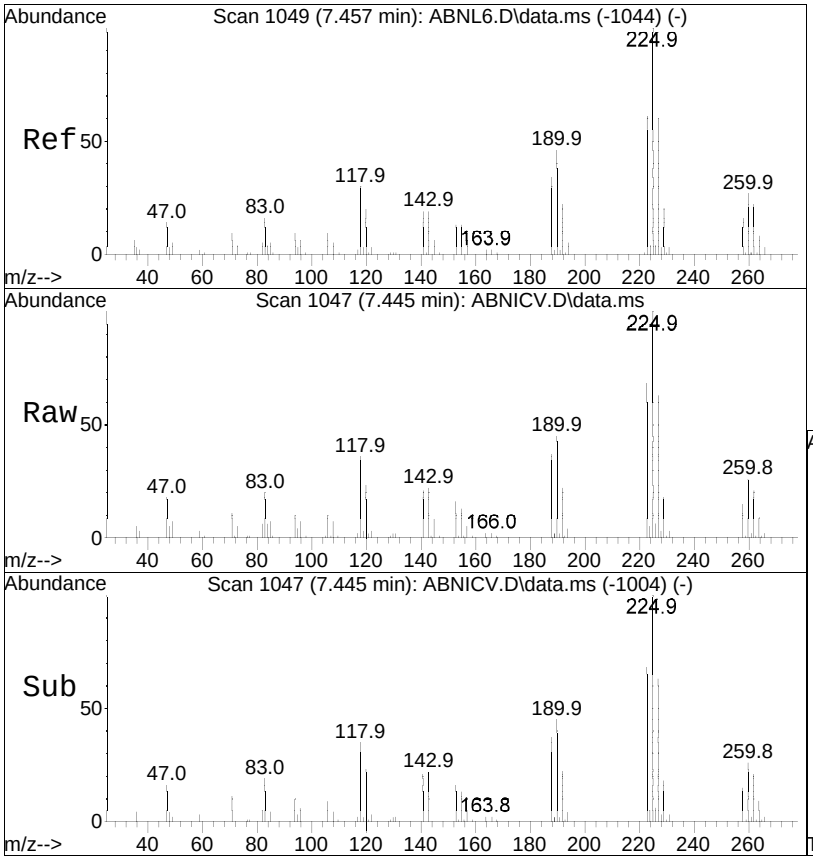


#37
4-Chloroaniline
Concen: 5.29 ug/ml
RT: 7.369 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 65 Resp: 42321

Ion	Ratio	Lower	Upper
65	100		
127	282.4	237.6	356.4
129	91.5	76.3	114.5

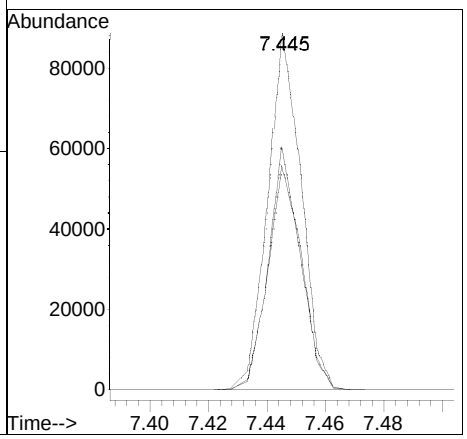


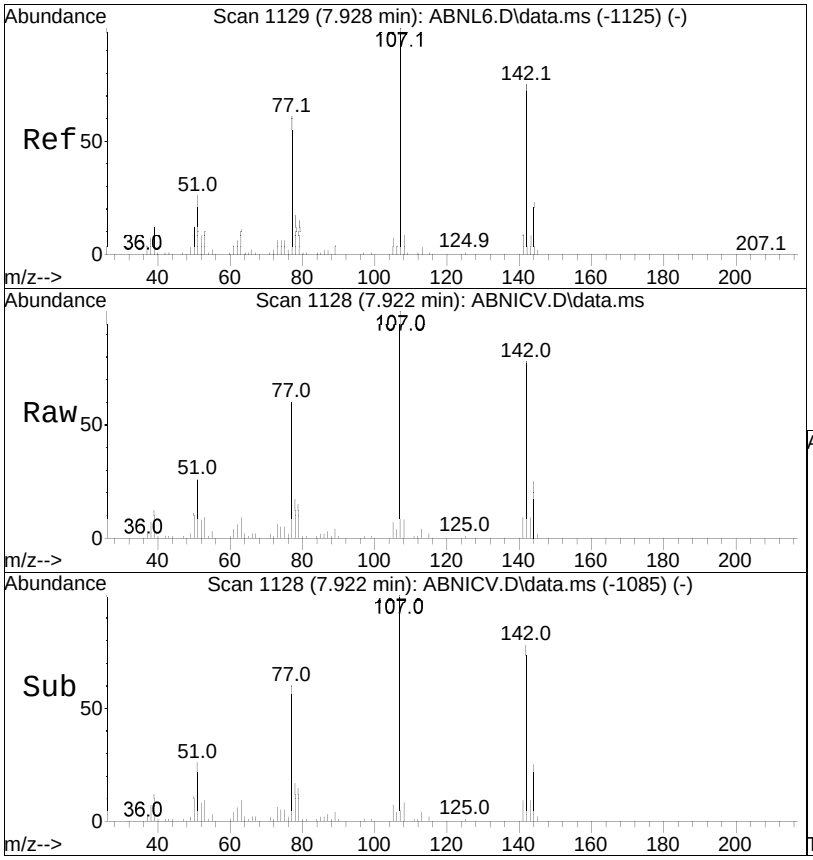


#38
Hexachlorobutadiene
Concen: 5.12 ug/ml
RT: 7.445 min Scan# 1047
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:225 Resp: 70394

Ion	Ratio	Lower	Upper
225	100		
223	65.2	50.3	75.5
227	63.8	52.2	78.2

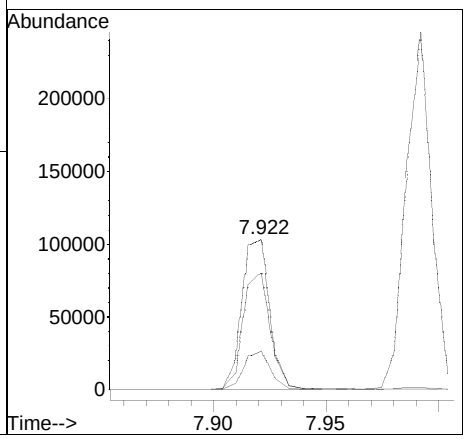


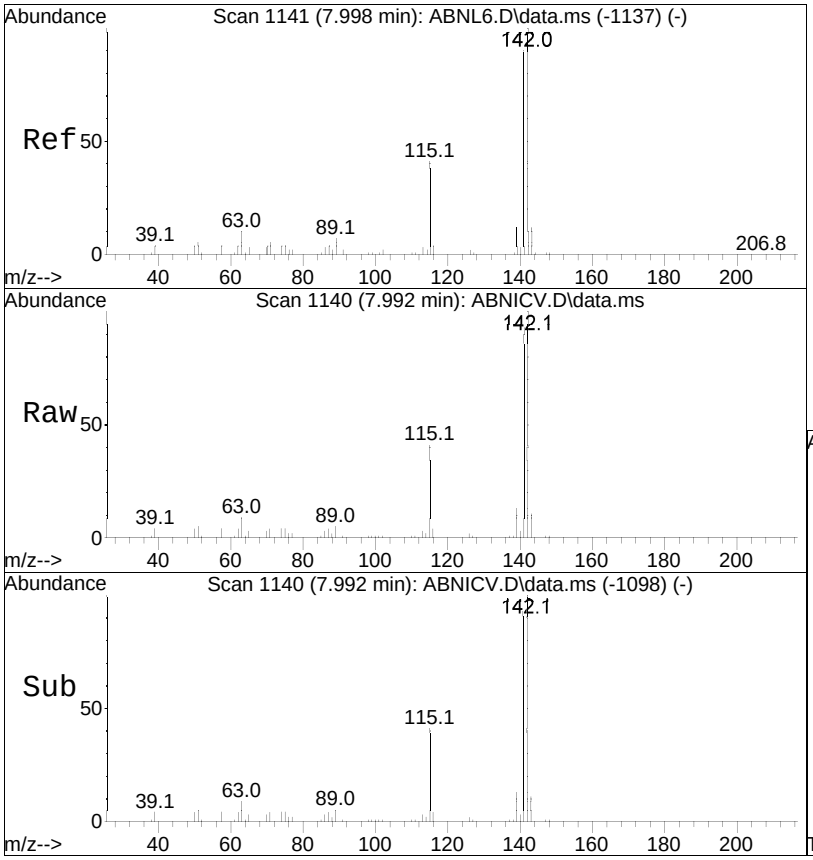


#39
p-Chloro-m-cresol
Concen: 5.47 ug/ml
RT: 7.922 min Scan# 1128
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:107 Resp: 89489

Ion	Ratio	Lower	Upper
107	100		
144	24.3	20.9	31.3
142	75.9	66.1	99.1

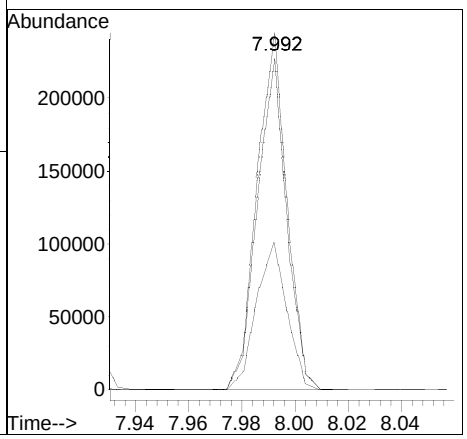


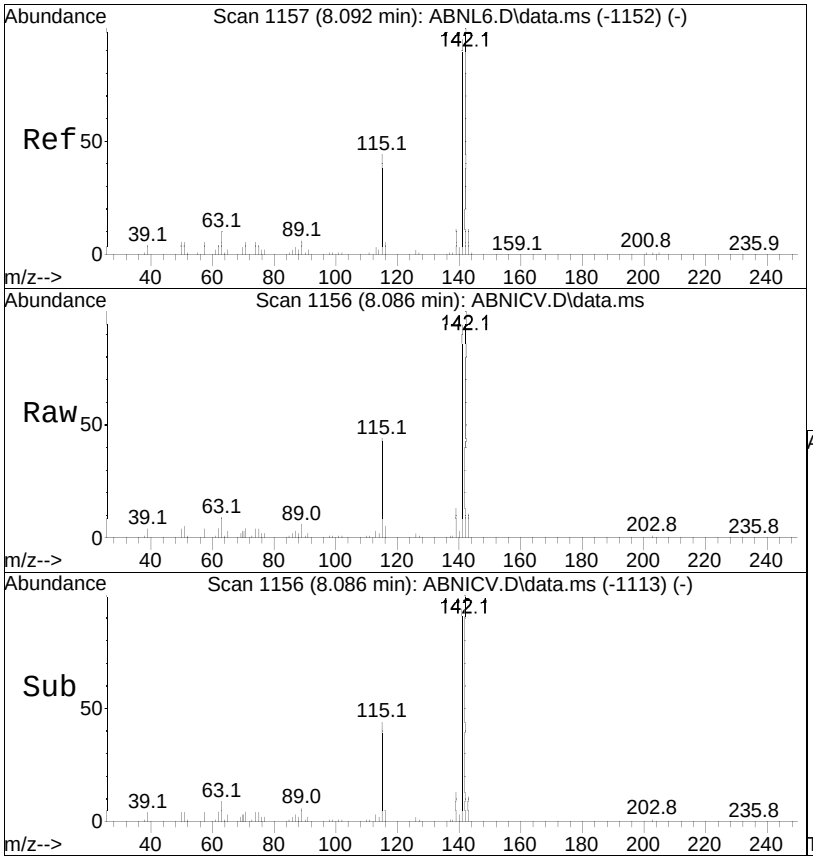


#40
2-Methylnaphthalene
Concen: 5.39 ug/ml
RT: 7.992 min Scan# 1140
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:142 Resp: 191594

Ion	Ratio	Lower	Upper
142	100		
141	90.8	69.6	104.4
115	42.5	26.6	40.0#

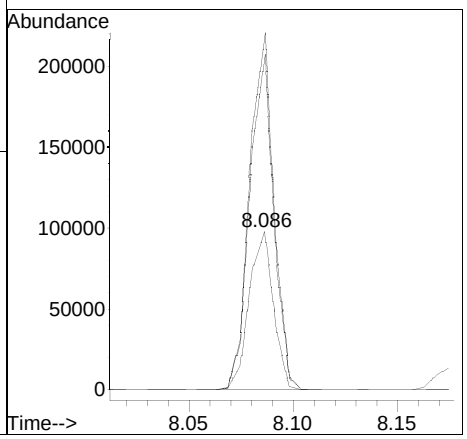


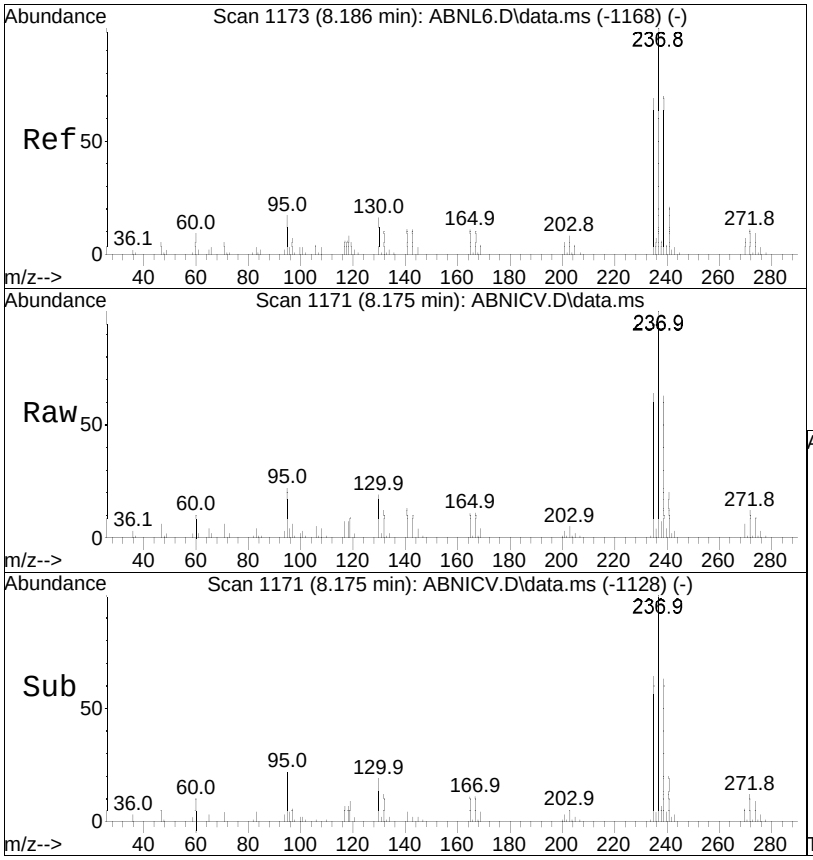


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml M3
RT: 8.086 min Scan# 1156
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:115 Resp: 79496

Ion	Ratio	Lower	Upper
115	100		
141	218.8	207.8	311.6
142	241.0	226.8	340.2

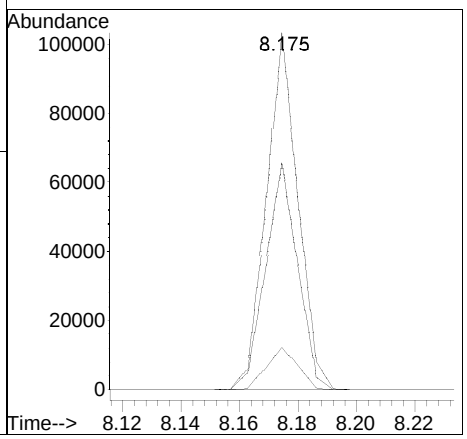


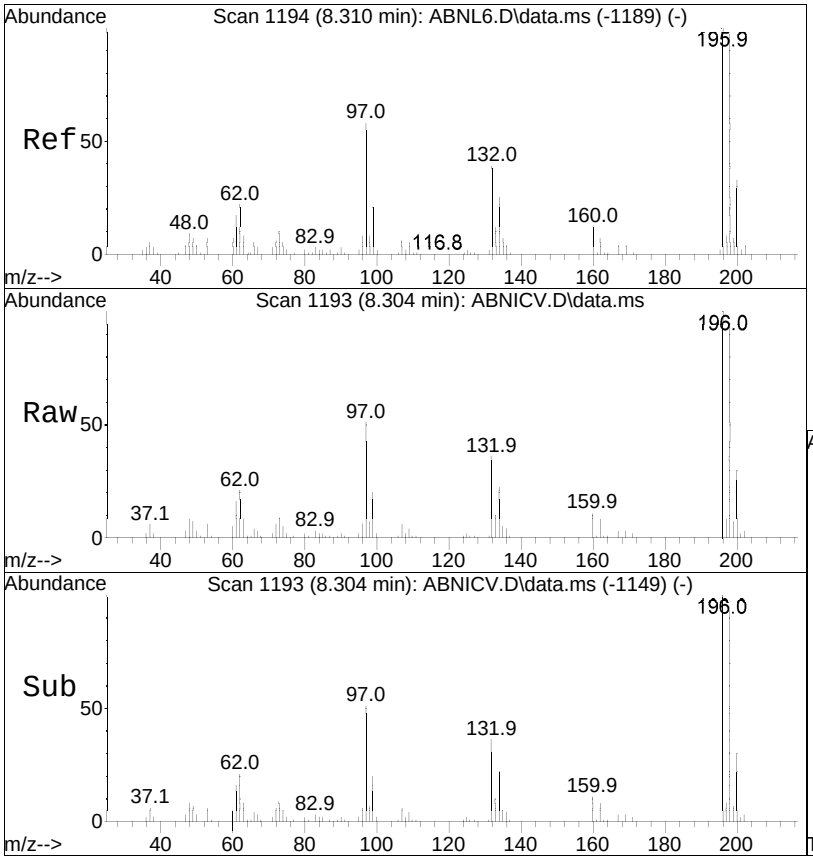


#42
Hexachlorocyclopentadiene
Concen: 5.64 ug/ml
RT: 8.175 min Scan# 1171
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:237 Resp: 77101

Ion	Ratio	Lower	Upper
237	100		
235	64.7	49.7	74.5
272	12.1	9.8	14.6

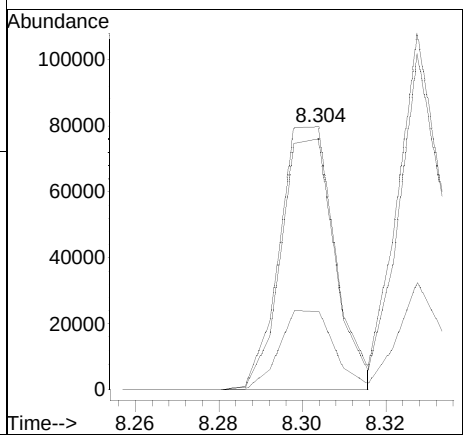


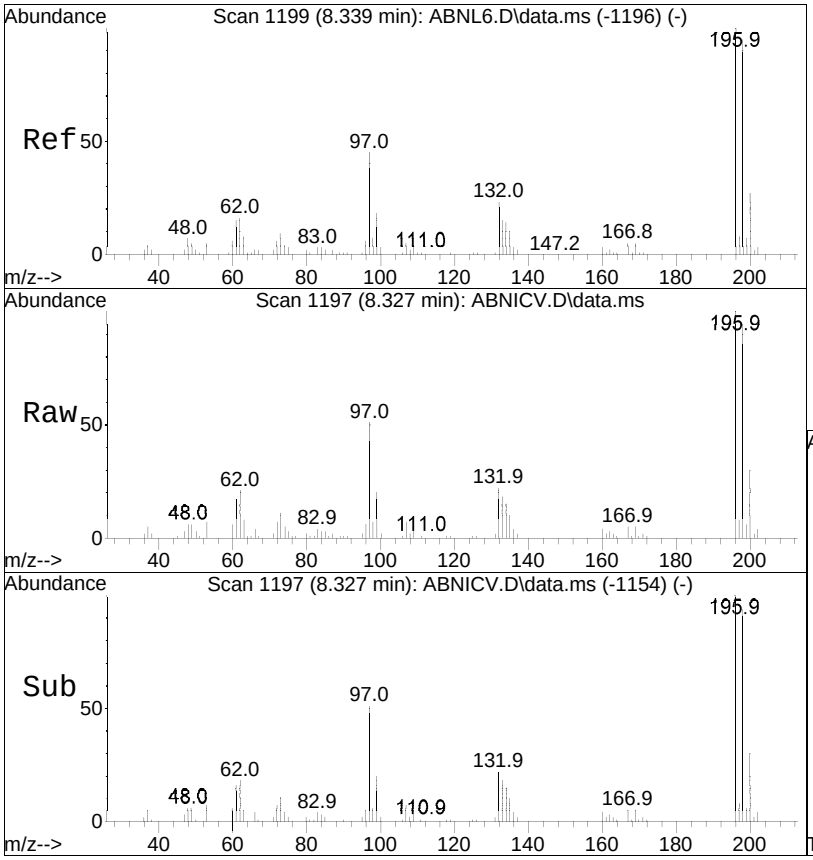


#43
2,4,6-Trichlorophenol
Concen: 5.59 ug/ml
RT: 8.304 min Scan# 1193
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:196 Resp: 74268

Ion	Ratio	Lower	Upper
196	100		
198	92.4	77.5	116.3
200	29.7	23.8	35.6

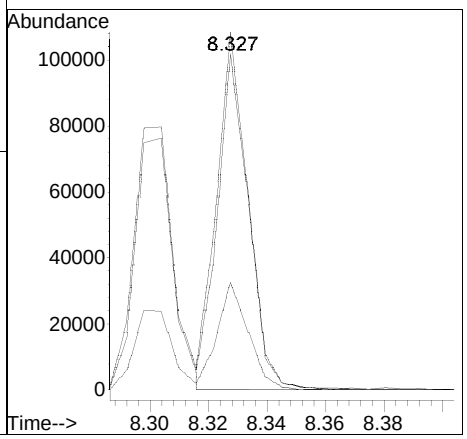


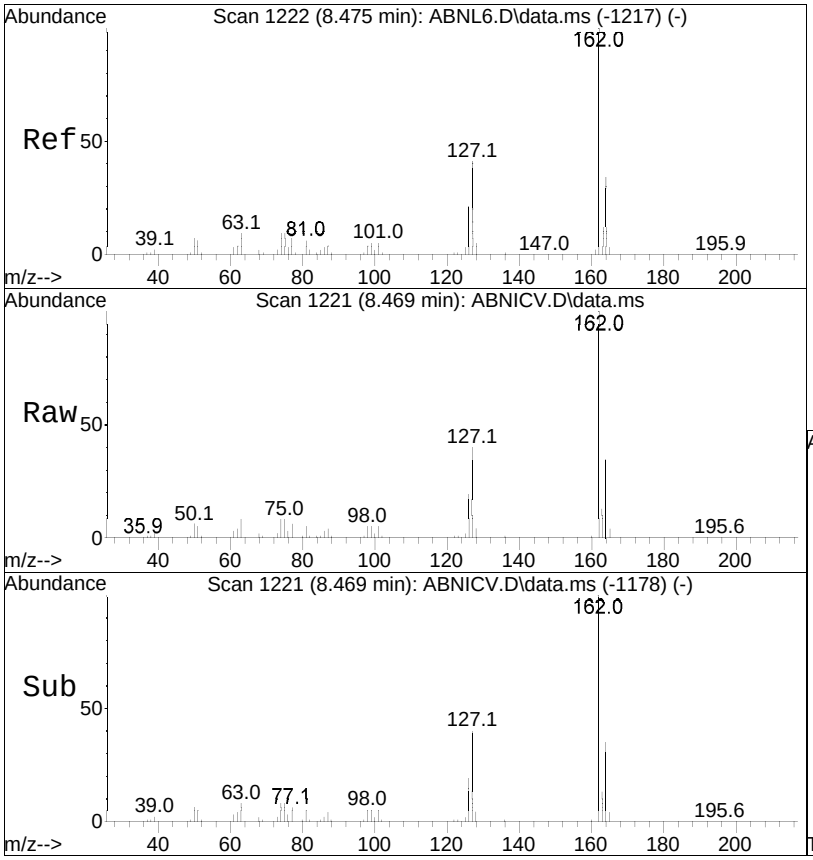


#44
2,4,5-Trichlorophenol
Concen: 5.55 ug/ml
RT: 8.327 min Scan# 1197
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:196 Resp: 80319

Ion	Ratio	Lower	Upper
196	100		
200	30.4	25.4	38.0
198	92.5	78.0	117.0

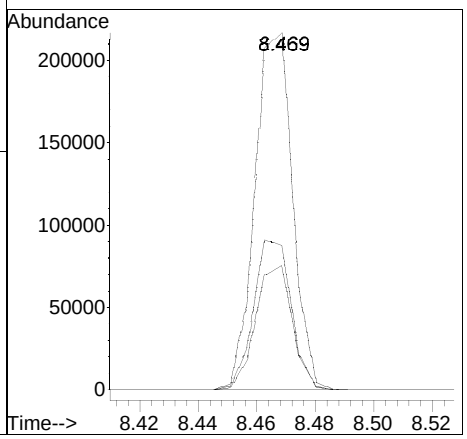


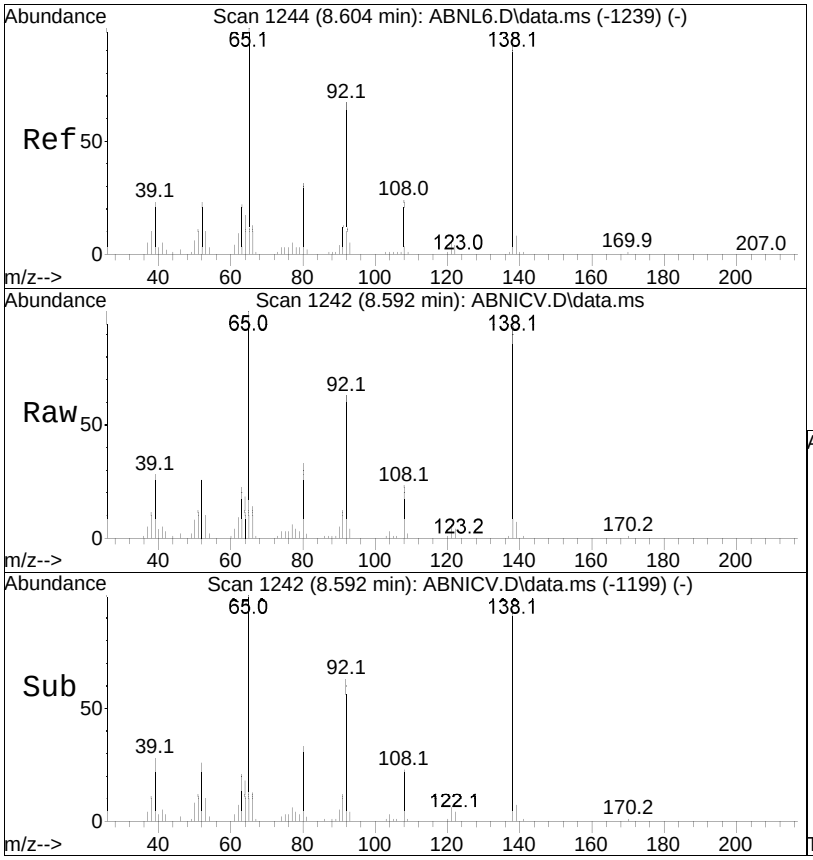


#46
2-Chloronaphthalene
Concen: 5.16 ug/ml
RT: 8.469 min Scan# 1221
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:162 Resp: 191892

Ion	Ratio	Lower	Upper
162	100		
127	42.1	32.2	48.4
164	34.2	25.7	38.5

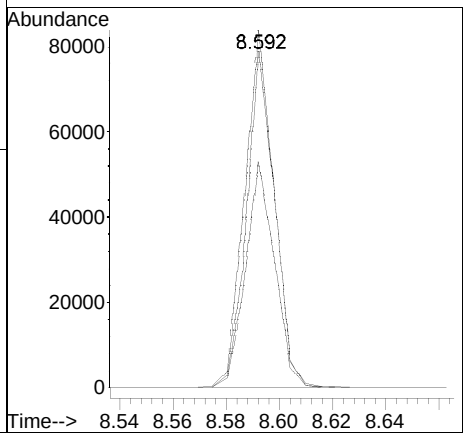


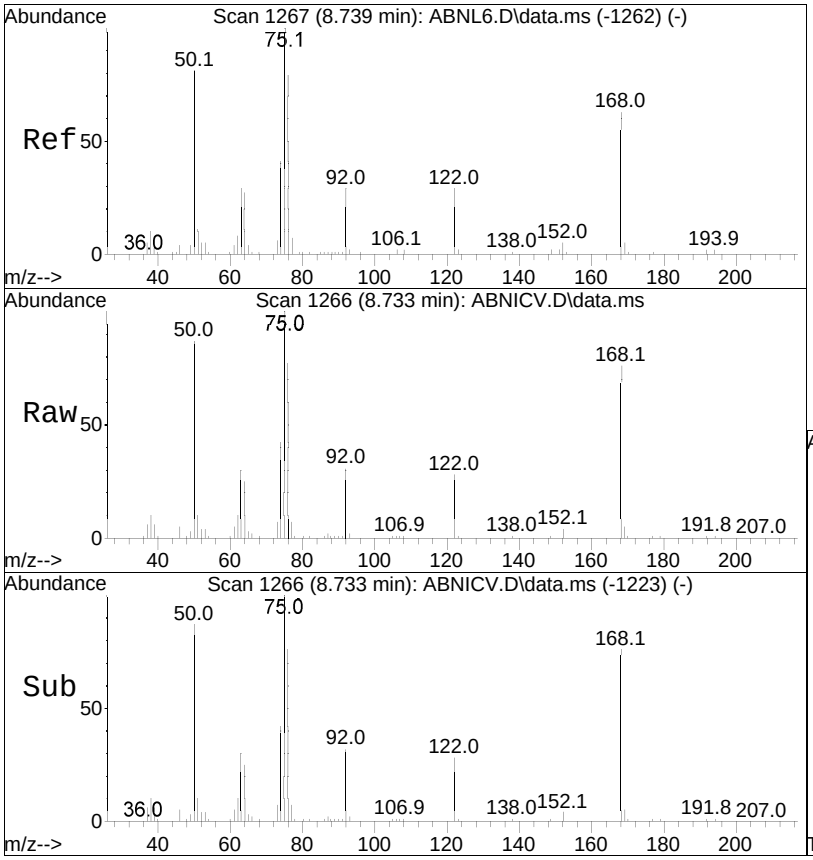


#47
2-Nitroaniline
Concen: 5.32 ug/ml
RT: 8.592 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:138 Resp: 57318

Ion	Ratio	Lower	Upper
138	100		
92	69.6	53.5	80.3
65	111.2	86.3	129.5

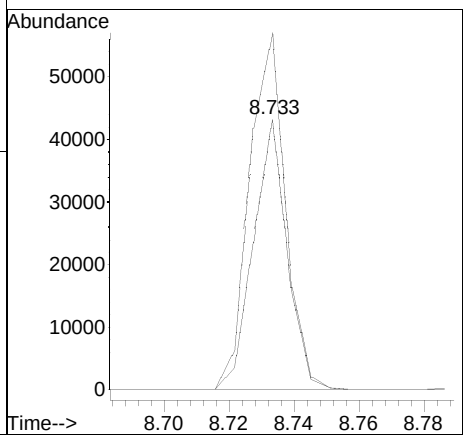


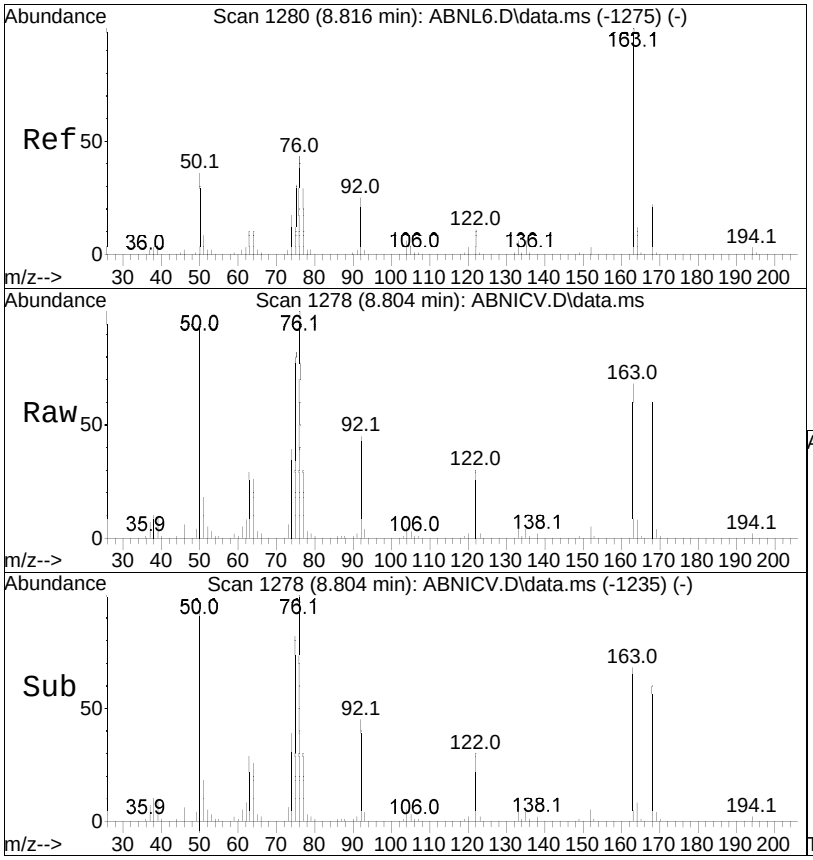


#48
1,4-Dinitrobenzene
Concen: 5.44 ug/ml
RT: 8.733 min Scan# 1266
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 31021

Ion	Ratio	Lower	Upper
168	100		
75	140.8	121.8	182.8

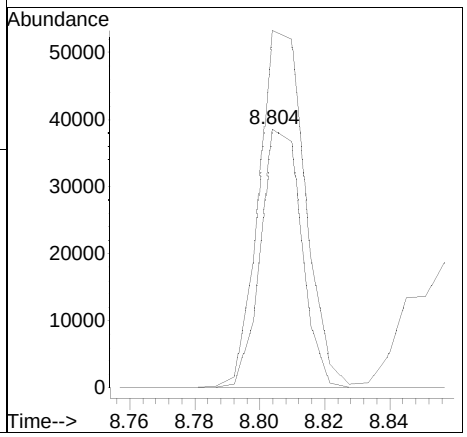


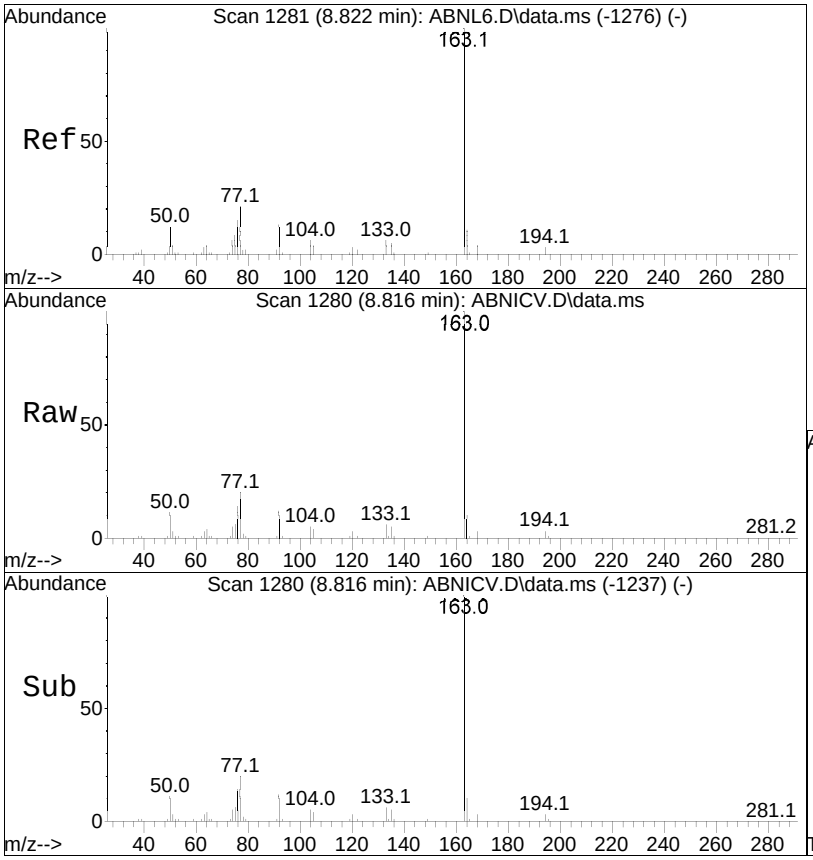


#49
1,3-Dinitrobenzene
Concen: 5.18 ug/ml
RT: 8.804 min Scan# 1278
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 33761

Ion	Ratio	Lower	Upper
168	100		
75	156.0	22.7	34.1#

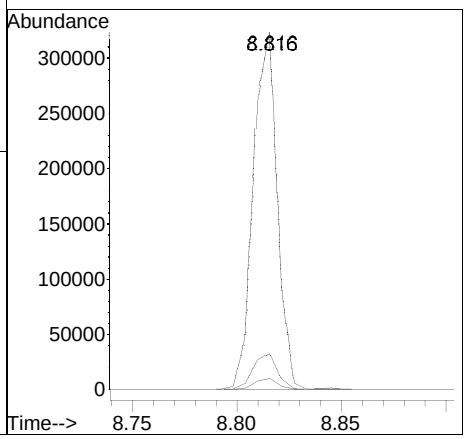


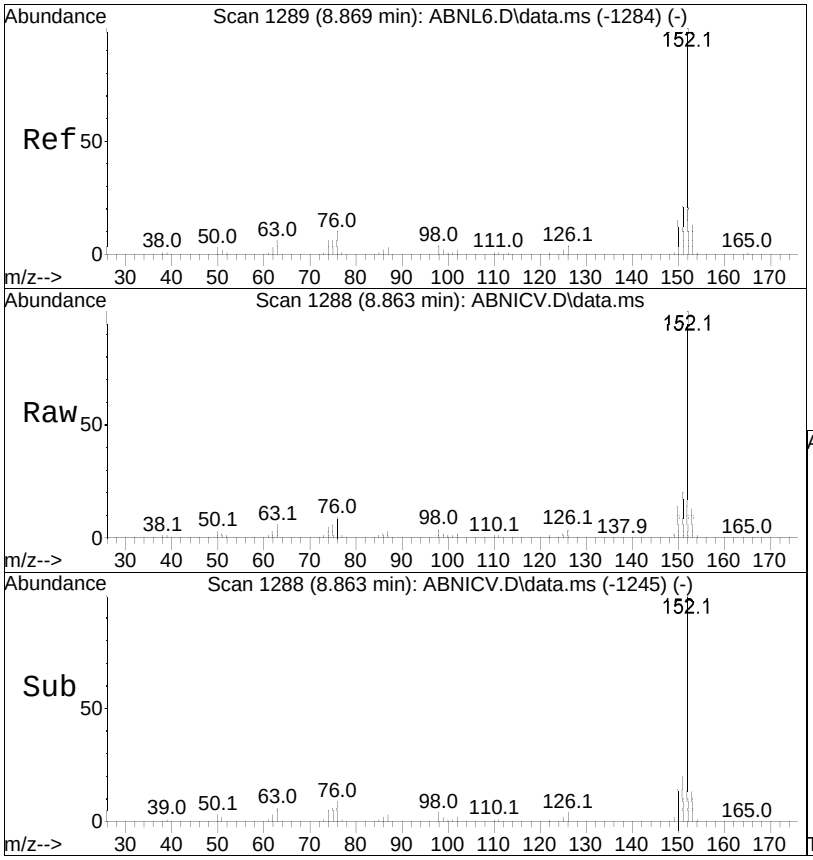


#50
Dimethyl phthalate
Concen: 5.18 ug/ml
RT: 8.816 min Scan# 1280
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:163 Resp: 254529

Ion	Ratio	Lower	Upper
163	100		
194	2.8	3.5	5.3#
164	10.3	7.9	11.9

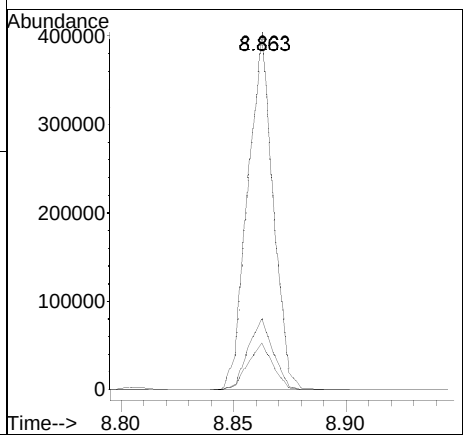


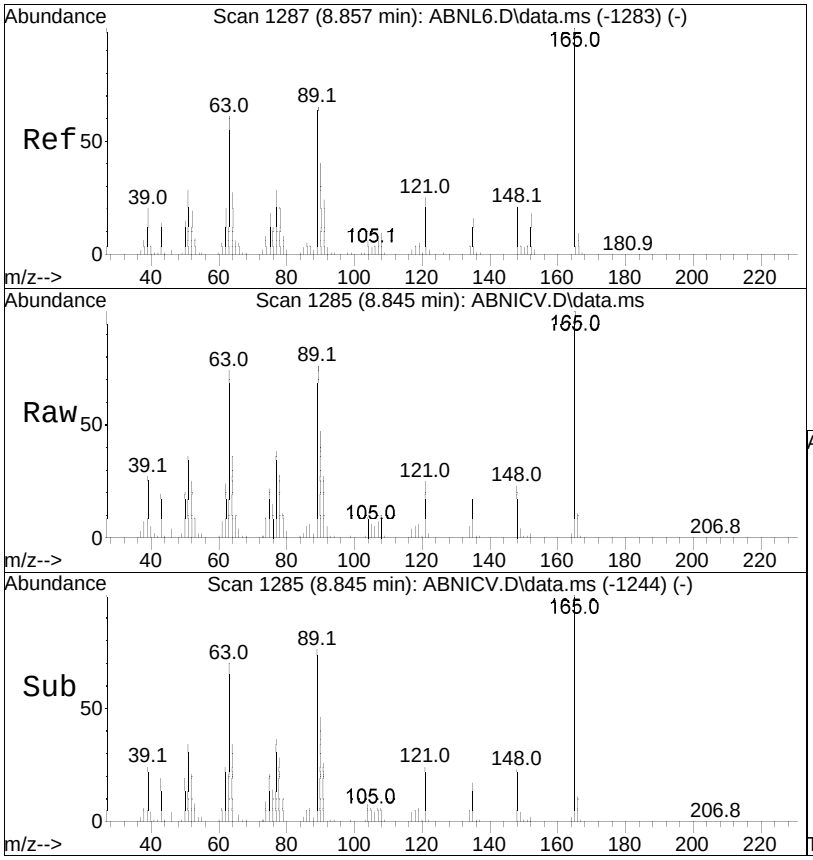


#51
Acenaphthylene
Concen: 5.41 ug/ml
RT: 8.863 min Scan# 1288
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:152 Resp: 312930

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.1	10.5	15.7

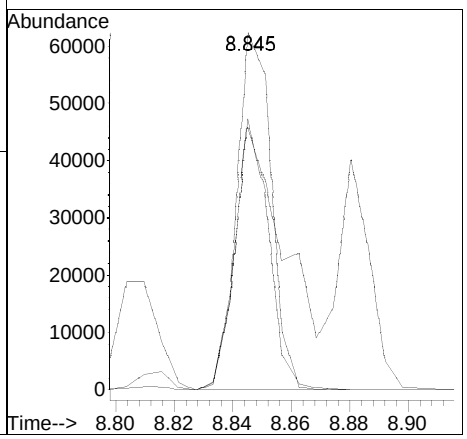


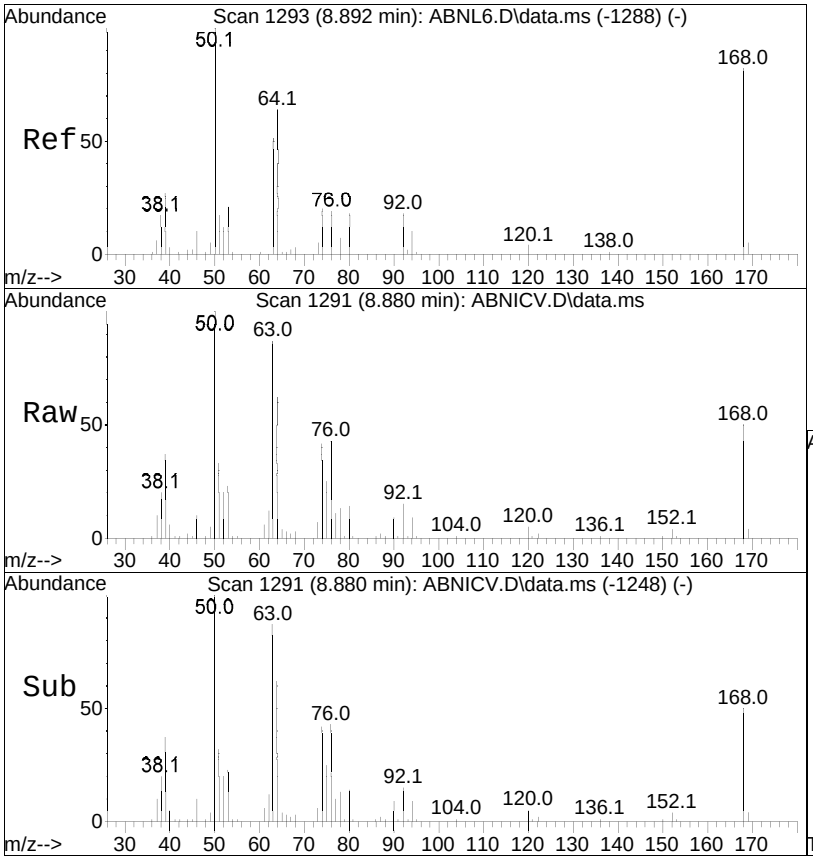


#52
2,6-Dinitrotoluene
Concen: 5.21 ug/ml
RT: 8.845 min Scan# 1285
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:165 Resp: 51382

Ion	Ratio	Lower	Upper
165	100		
89	73.0	54.2	81.2
63	107.2	64.2	96.2#

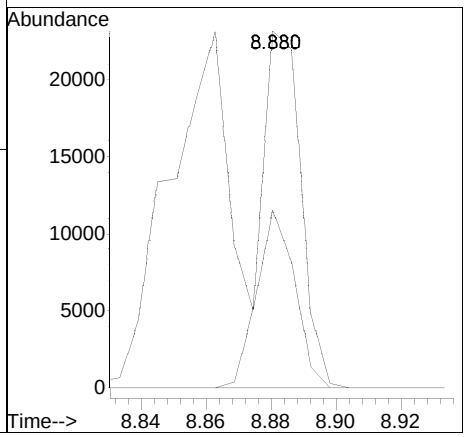


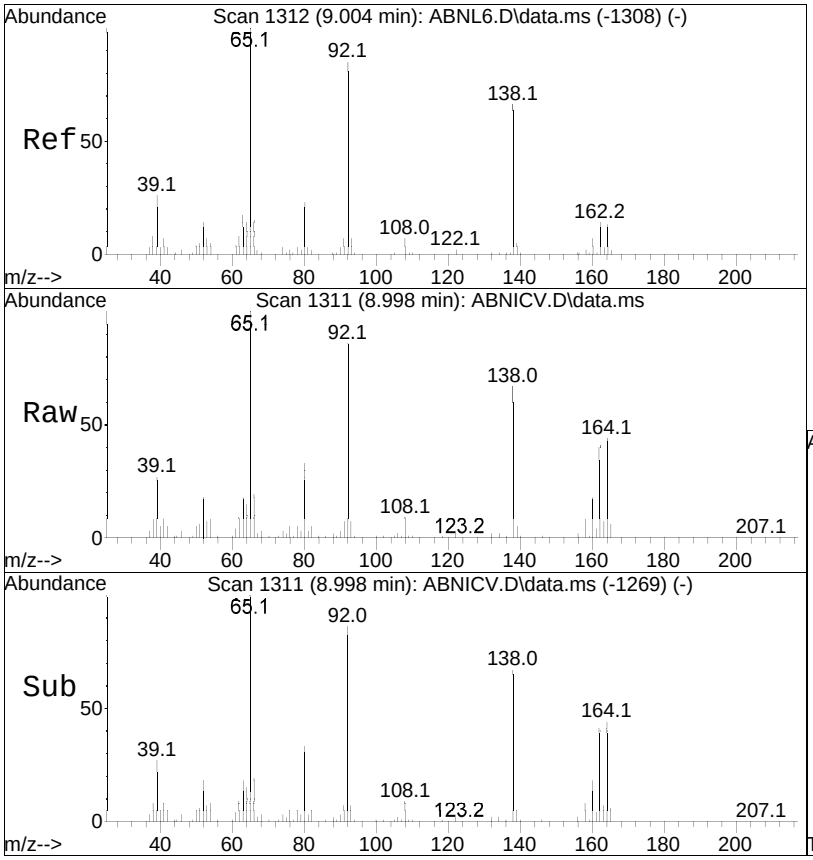


#53
1,2-Dinitrobenzene
Concen: 5.07 ug/ml
RT: 8.880 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 19683

Ion	Ratio	Lower	Upper
168	100		
75	151.7	30.9	46.3#

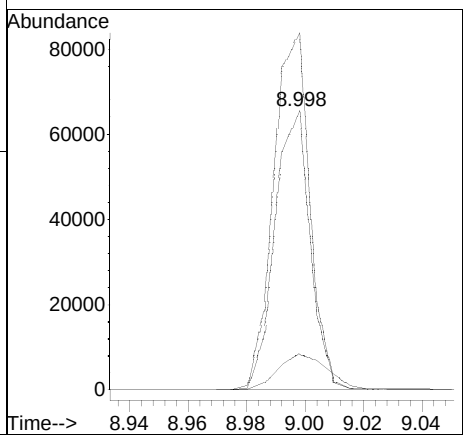


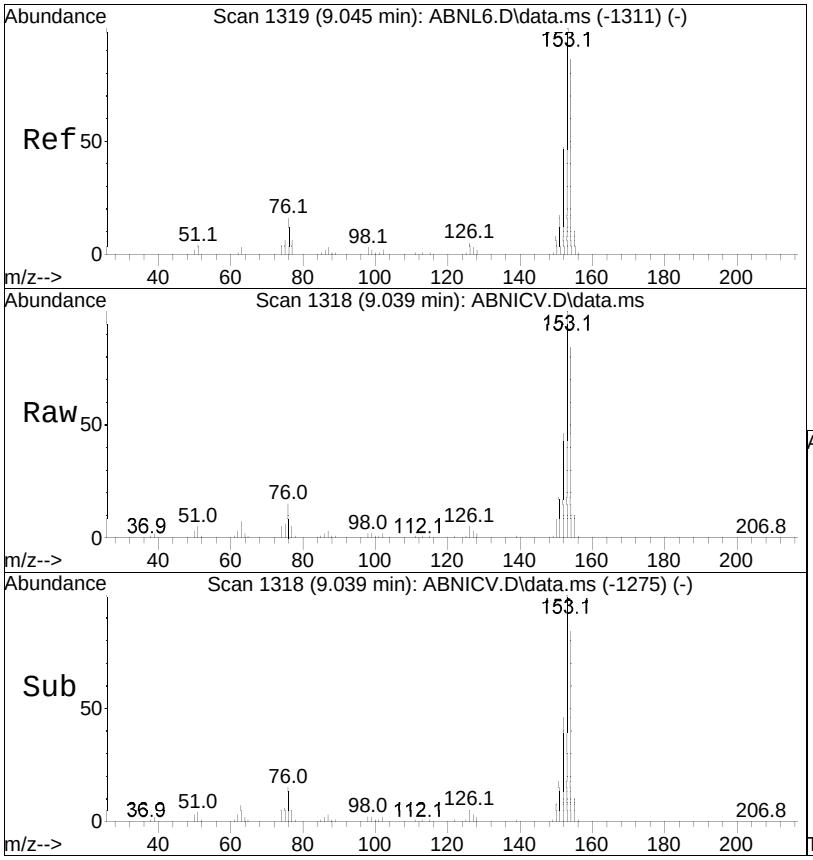


#63
3-Nitroaniline
Concen: 5.62 ug/ml
RT: 8.998 min Scan# 1311
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:138 Resp: 54675

Ion	Ratio	Lower	Upper
138	100		
92	131.0	93.4	140.2
108	18.0	9.5	14.3#

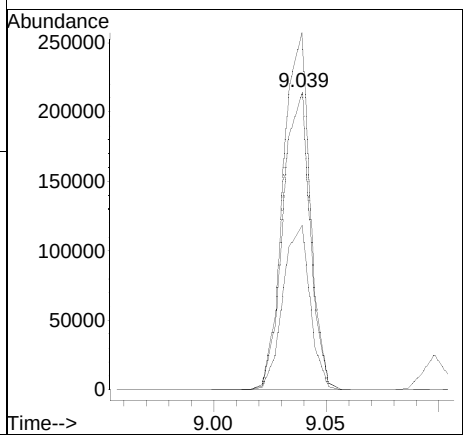


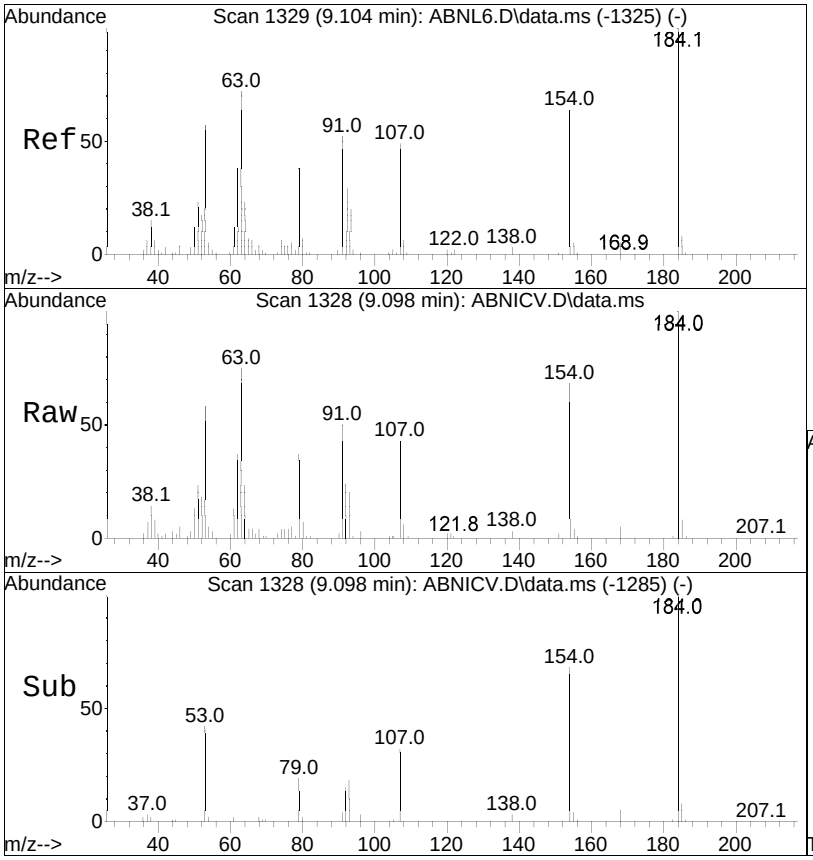


#64
Acenaphthene
Concen: 5.46 ug/ml
RT: 9.039 min Scan# 1318
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:154 Resp: 179537

Ion	Ratio	Lower	Upper
154	100		
153	118.3	85.3	127.9
152	55.4	41.4	62.0

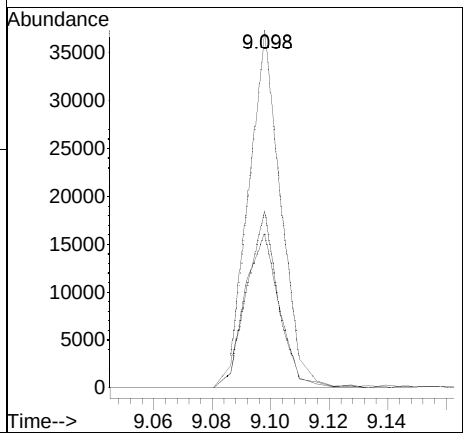


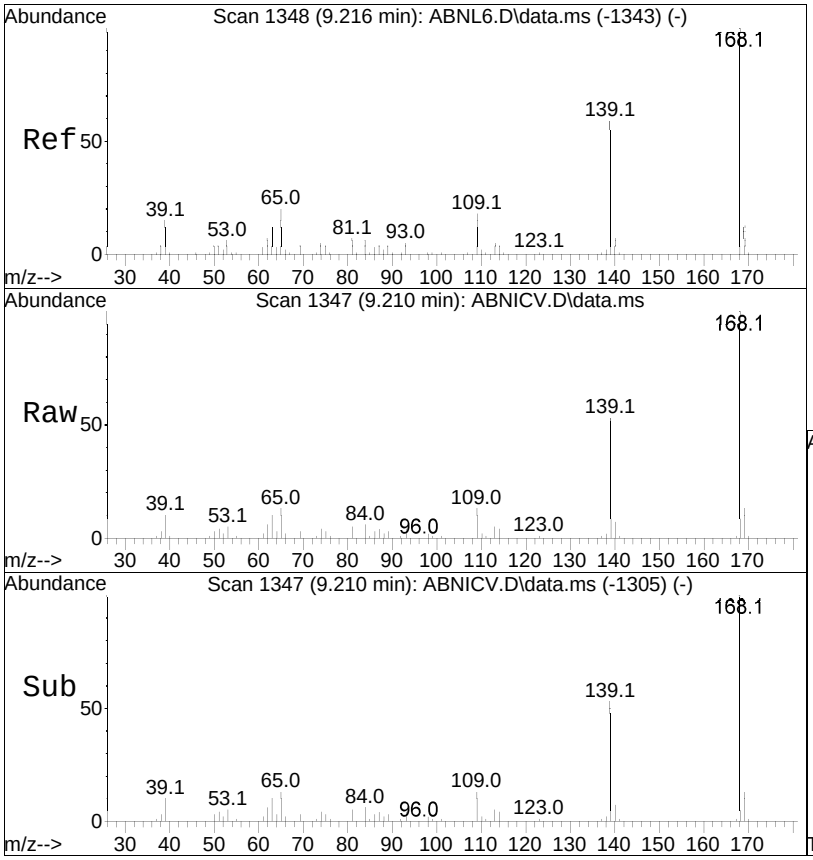


#65
2,4-Dinitrophenol
Concen: 4.70 ug/ml
RT: 9.098 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:184 Resp: 28601

Ion	Ratio	Lower	Upper
184	100		
107	47.0	37.7	56.5
91	47.8	46.3	69.5

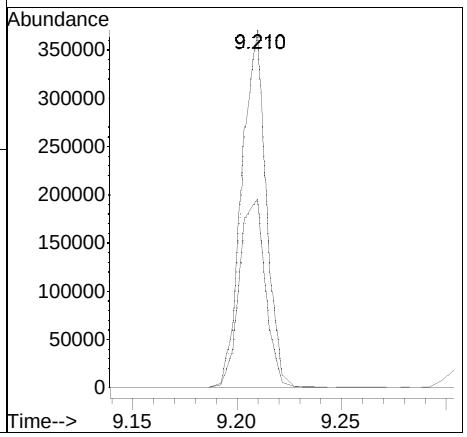


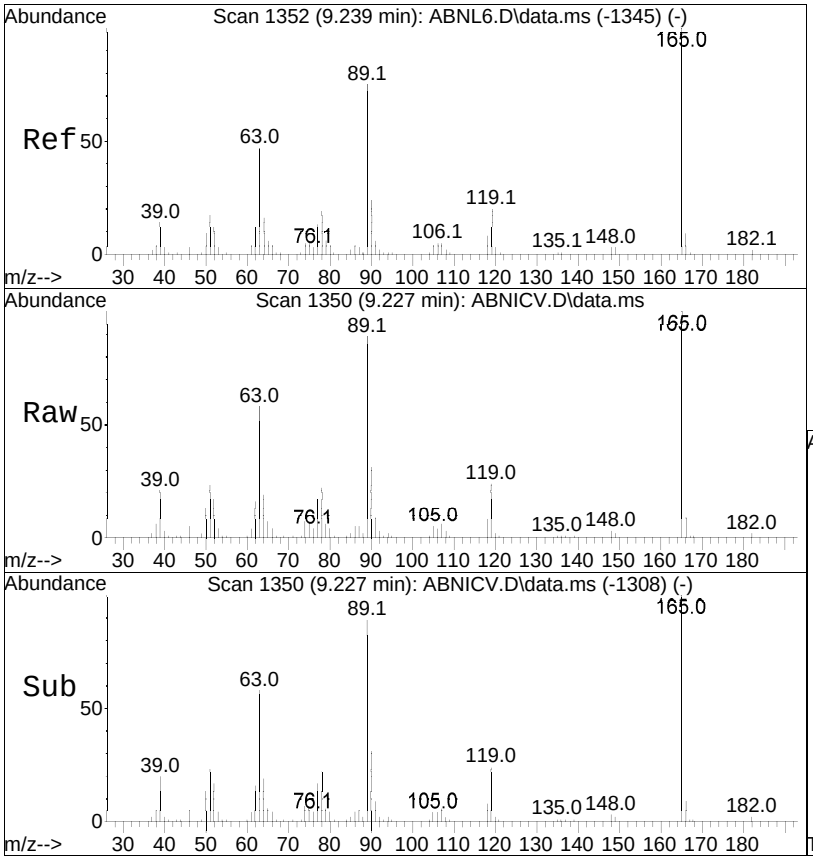


#66
Dibenzofuran
Concen: 5.15 ug/ml
RT: 9.210 min Scan# 1347
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 296371

Ion	Ratio	Lower	Upper
168	100		
139	56.6	31.4	47.2#

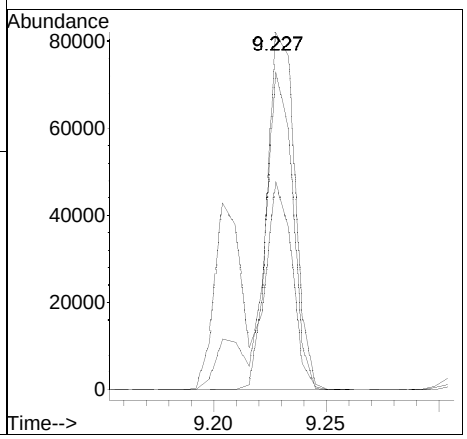


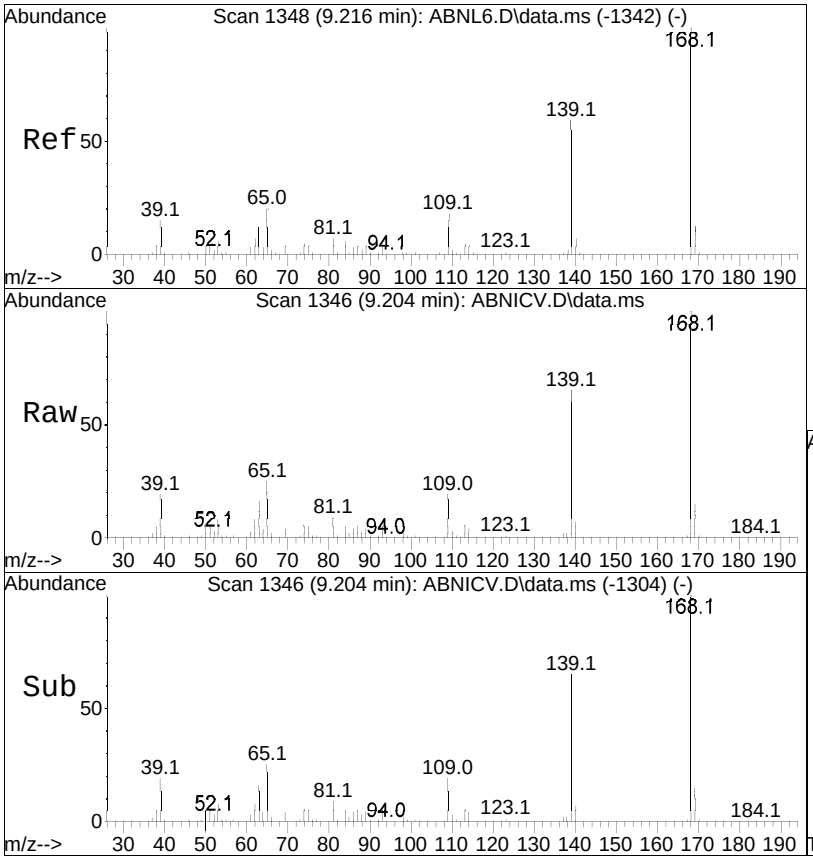


#67
2,4-Dinitrotoluene
Concen: 5.34 ug/ml
RT: 9.227 min Scan# 1350
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:165 Resp: 70591

Ion	Ratio	Lower	Upper
165	100		
89	99.0	72.0	108.0
63	54.9	52.7	79.1

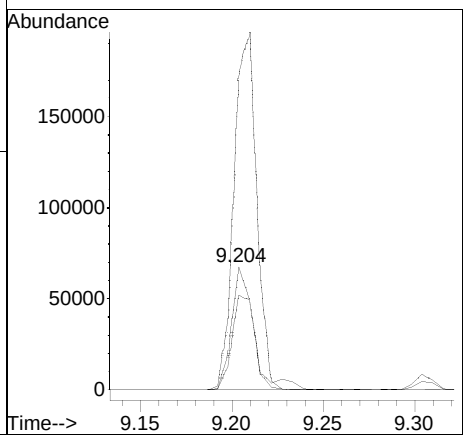


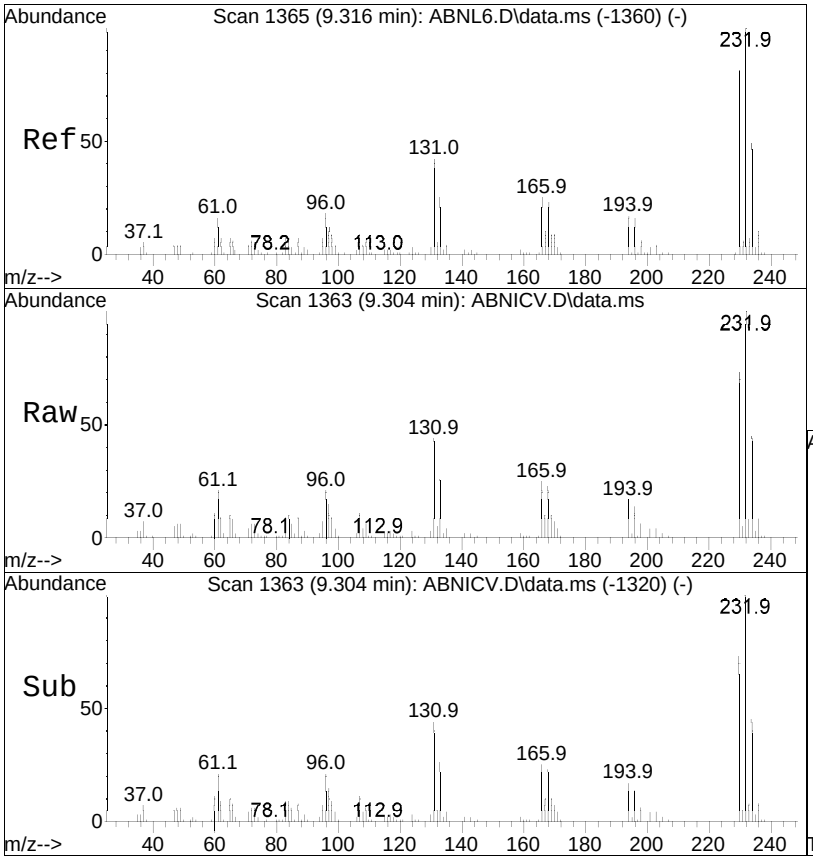


#68
4-Nitrophenol
Concen: 5.50 ug/ml
RT: 9.204 min Scan# 1346
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 65 Resp: 57342

Ion	Ratio	Lower	Upper
65	100		
109	78.0	47.4	71.2#
139	292.4	76.6	115.0#

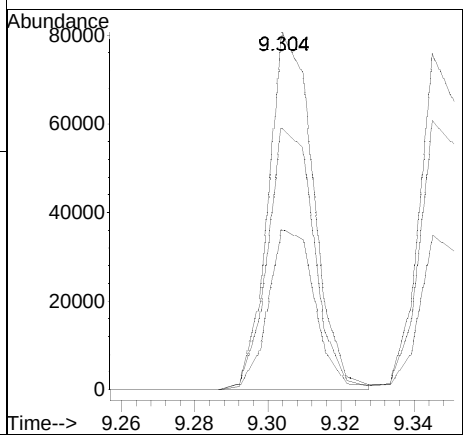


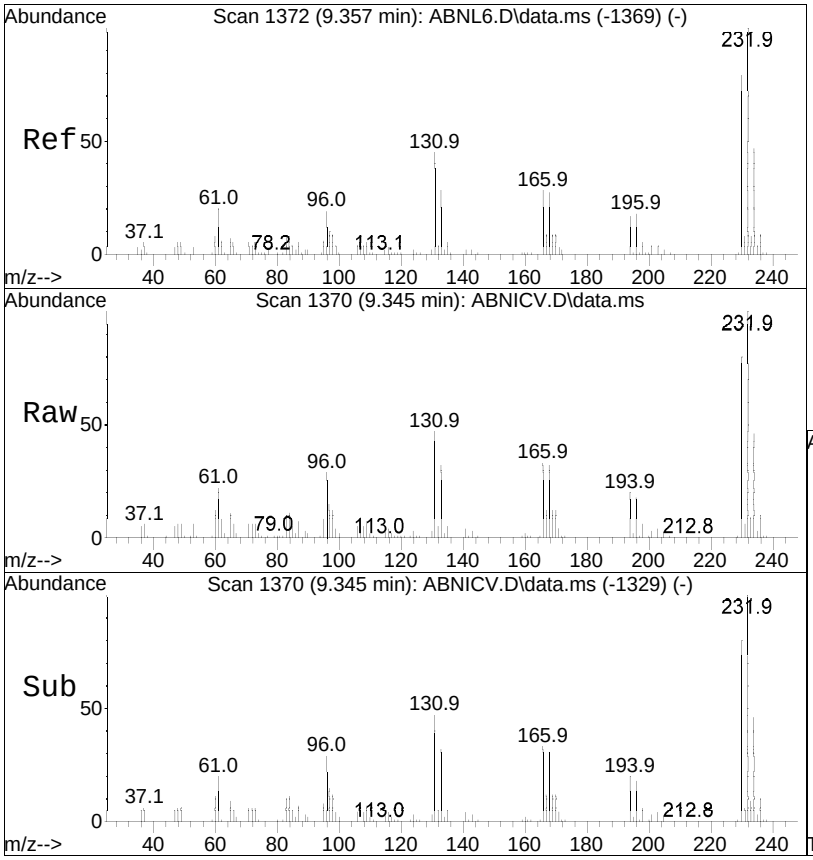


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.91 ug/ml
RT: 9.304 min Scan# 1363
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:232 Resp: 69156

Ion	Ratio	Lower	Upper
232	100		
230	75.2	64.2	96.4
234	46.5	38.1	57.1

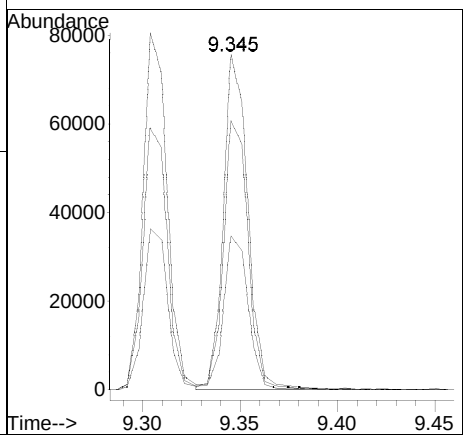


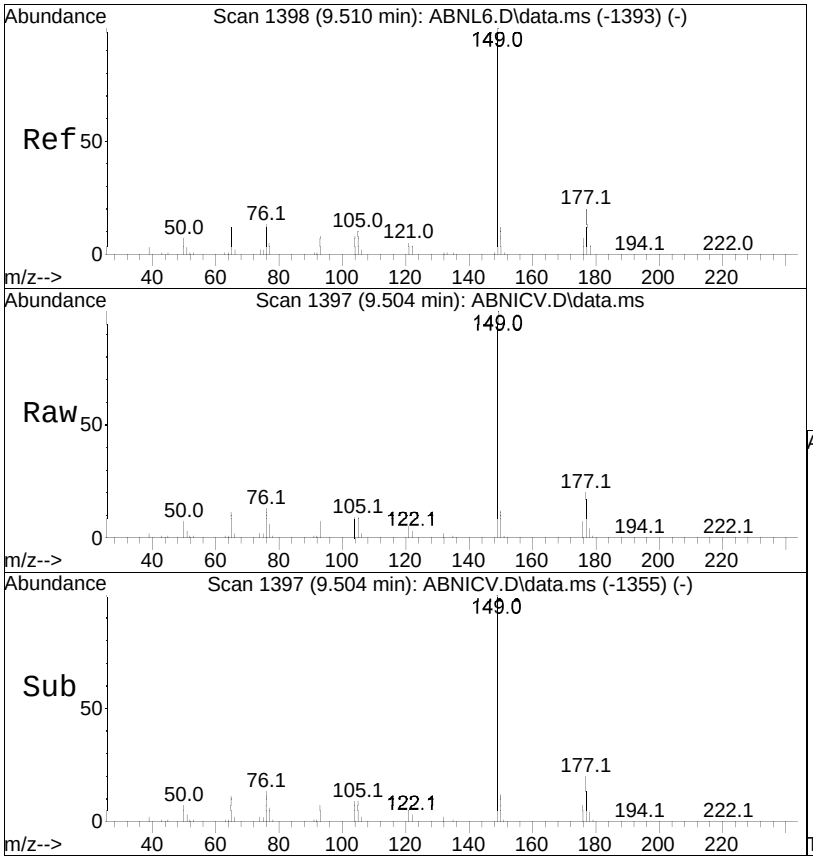


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.73 ug/ml
RT: 9.345 min Scan# 1370
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:232 Resp: 65816

Ion	Ratio	Lower	Upper
232	100		
230	82.0	61.8	92.8
234	47.1	36.2	54.2

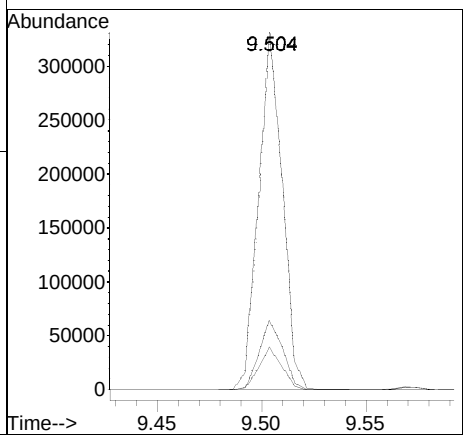


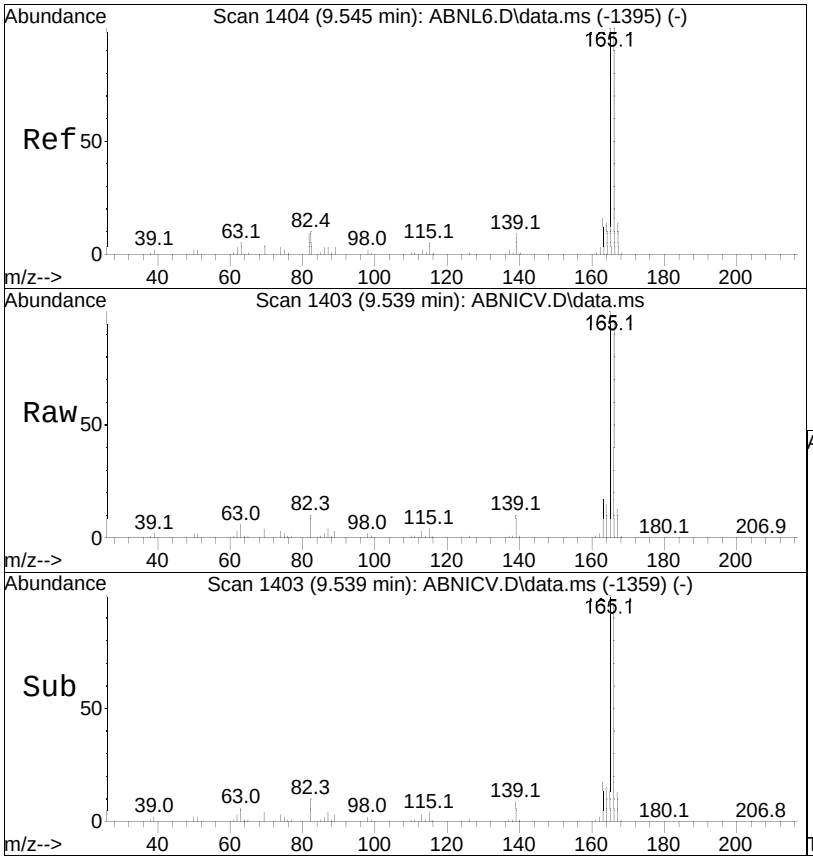


#71
Diethyl phthalate
Concen: 5.36 ug/ml
RT: 9.504 min Scan# 1397
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 257035

Ion	Ratio	Lower	Upper
149	100		
177	19.7	16.1	24.1
150	11.7	9.4	14.2

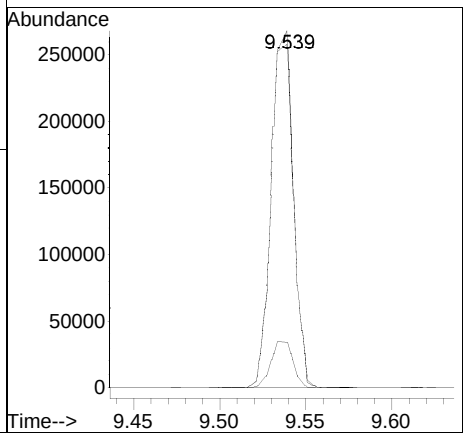


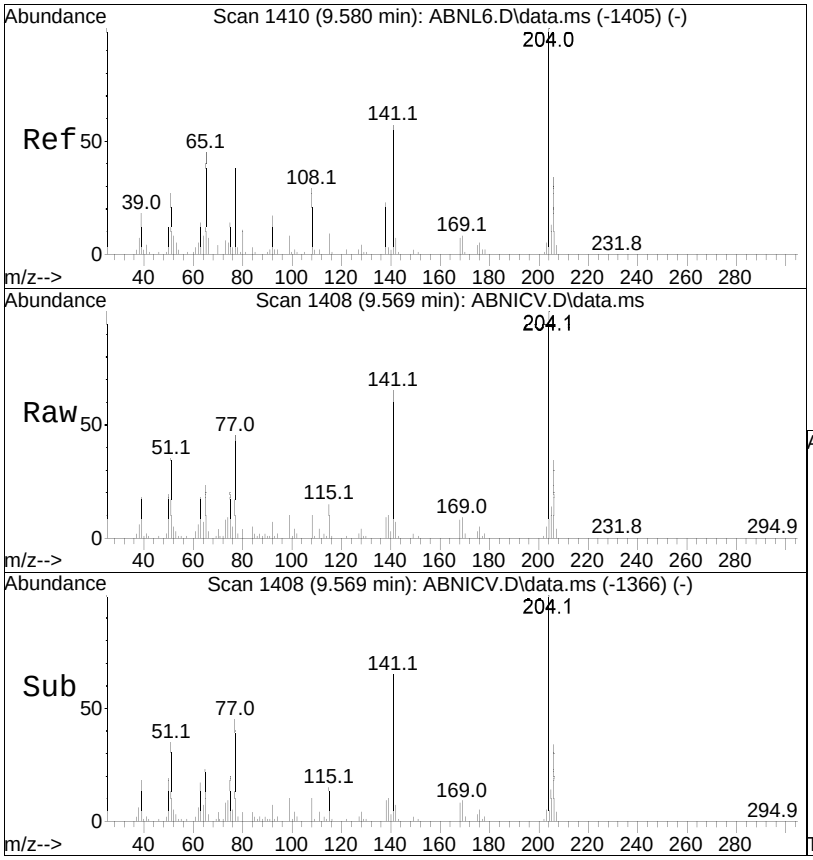


#72
Fluorene
Concen: 5.24 ug/ml
RT: 9.539 min Scan# 1403
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:166 Resp: 237323

Ion	Ratio	Lower	Upper
166	100		
165	101.2	76.2	114.2
167	13.2	10.6	15.8

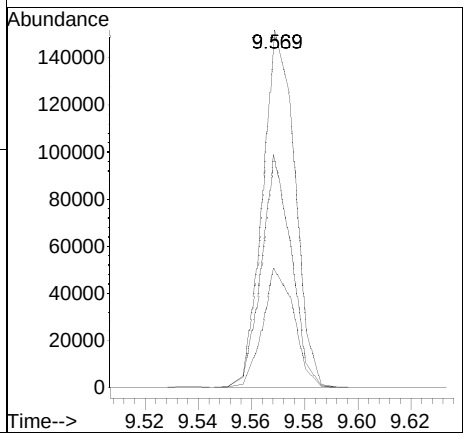


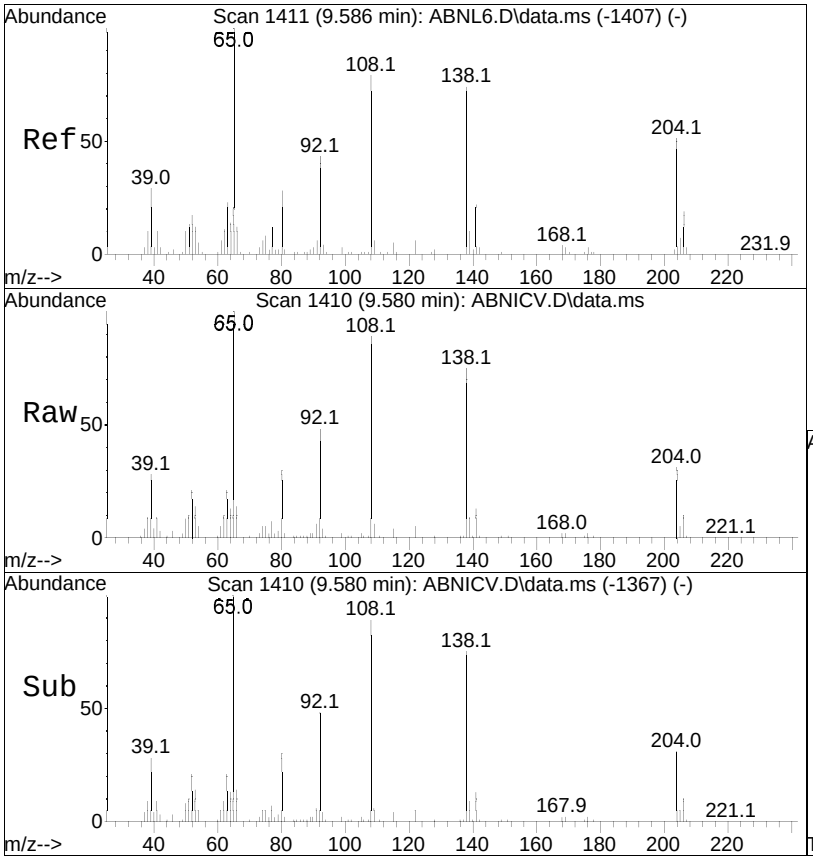


#73
4-Chlorophenyl phenyl ether
Concen: 5.33 ug/ml
RT: 9.569 min Scan# 1408
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:204 Resp: 126901

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	60.1	53.6	80.4

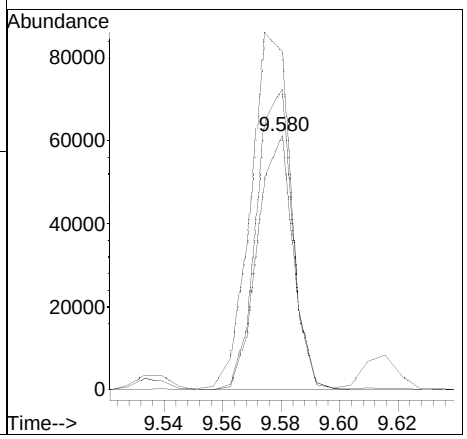


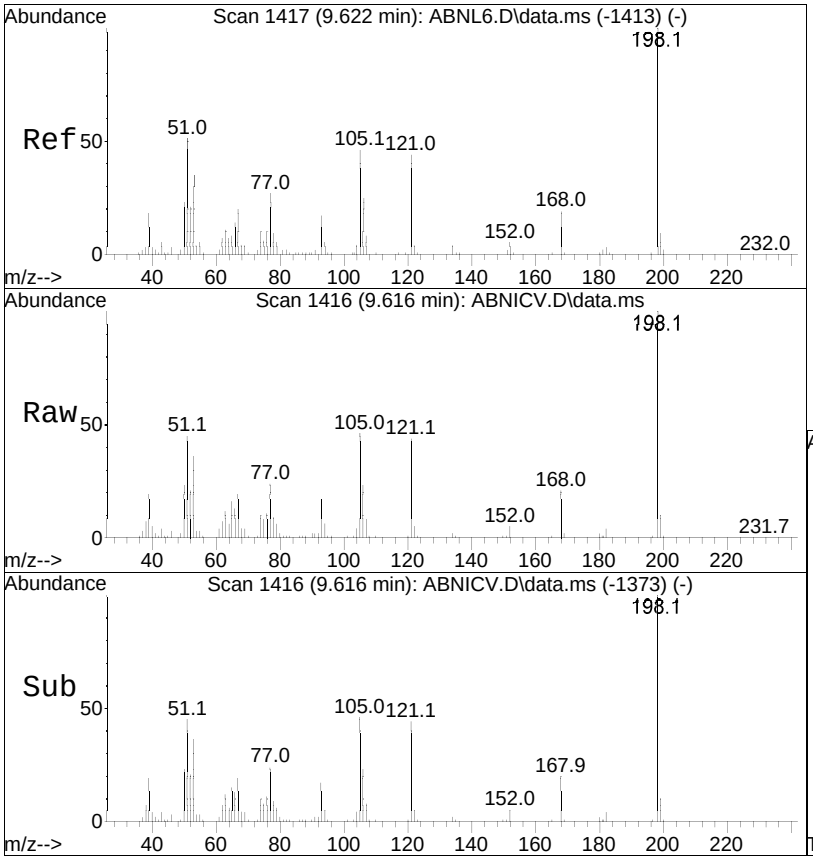


#74
4-Nitroaniline
Concen: 5.45 ug/ml
RT: 9.580 min Scan# 1410
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:138 Resp: 51943

Ion	Ratio	Lower	Upper
138	100		
108	118.8	52.1	78.1#
65	156.1	115.0	172.6

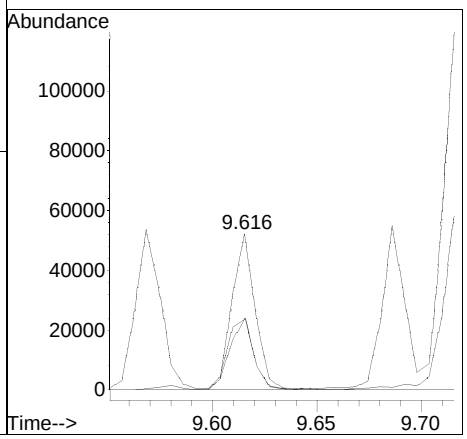


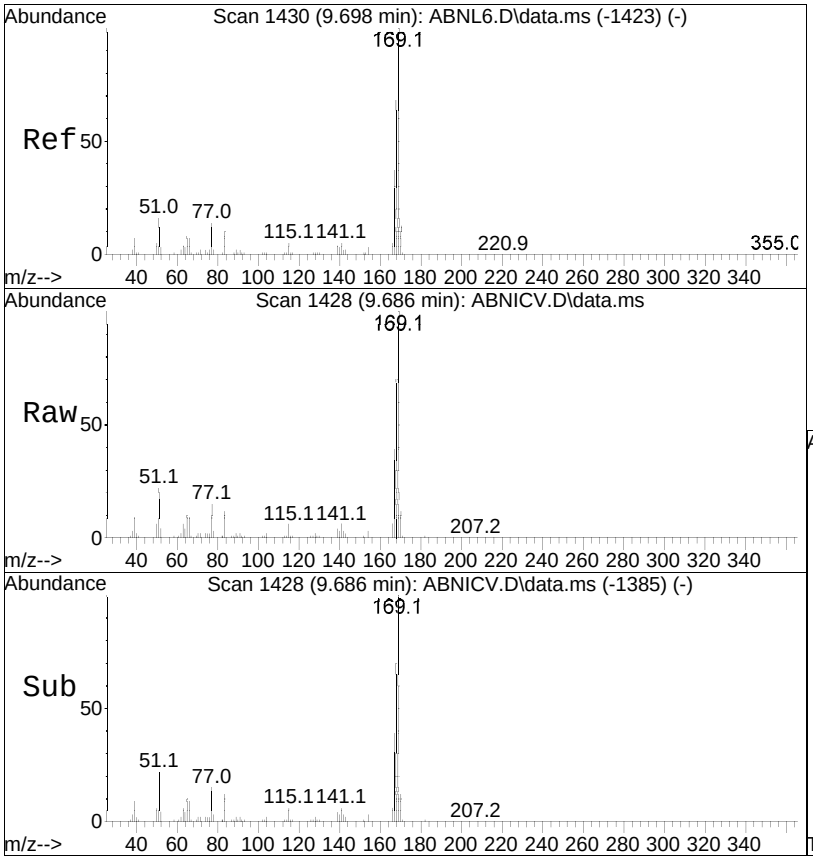


#75
4,6-Dinitro-o-cresol
Concen: 5.46 ug/ml
RT: 9.616 min Scan# 1416
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:198 Resp: 40670

Ion	Ratio	Lower	Upper
198	100		
51	50.4	76.0	114.0#
105	47.1	45.6	68.4

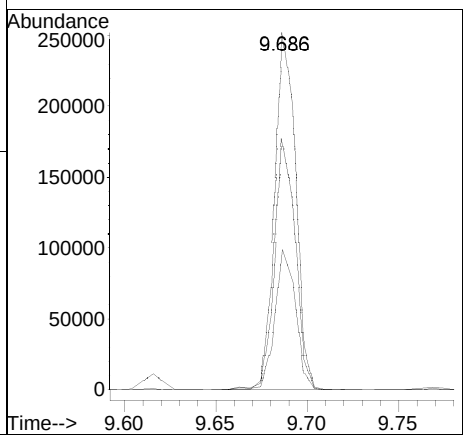


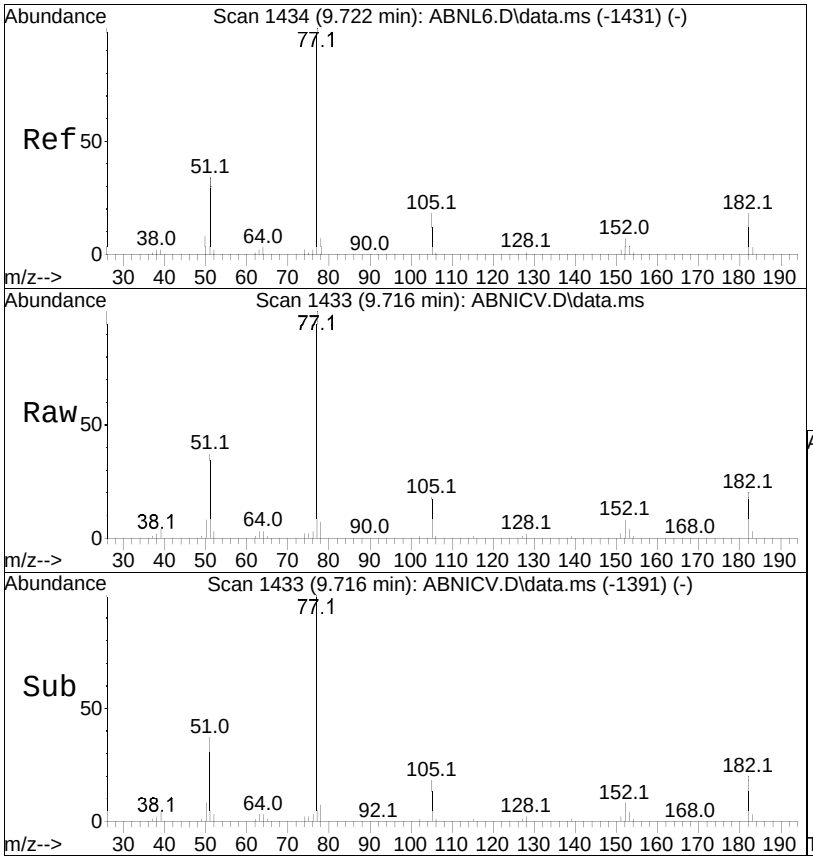


#76
NDPA/DPA
Concen: 5.38 ug/ml
RT: 9.686 min Scan# 1428
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:169 Resp: 200321

Ion	Ratio	Lower	Upper
169	100		
168	69.9	54.0	81.0
167	39.4	28.6	42.8

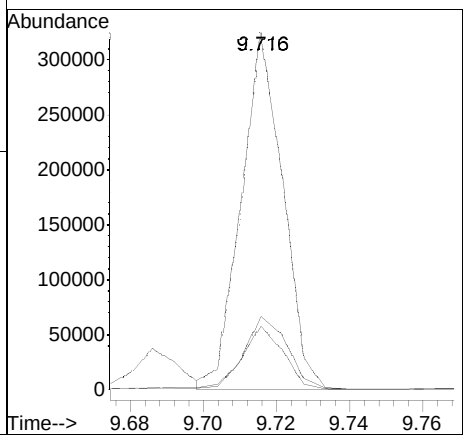


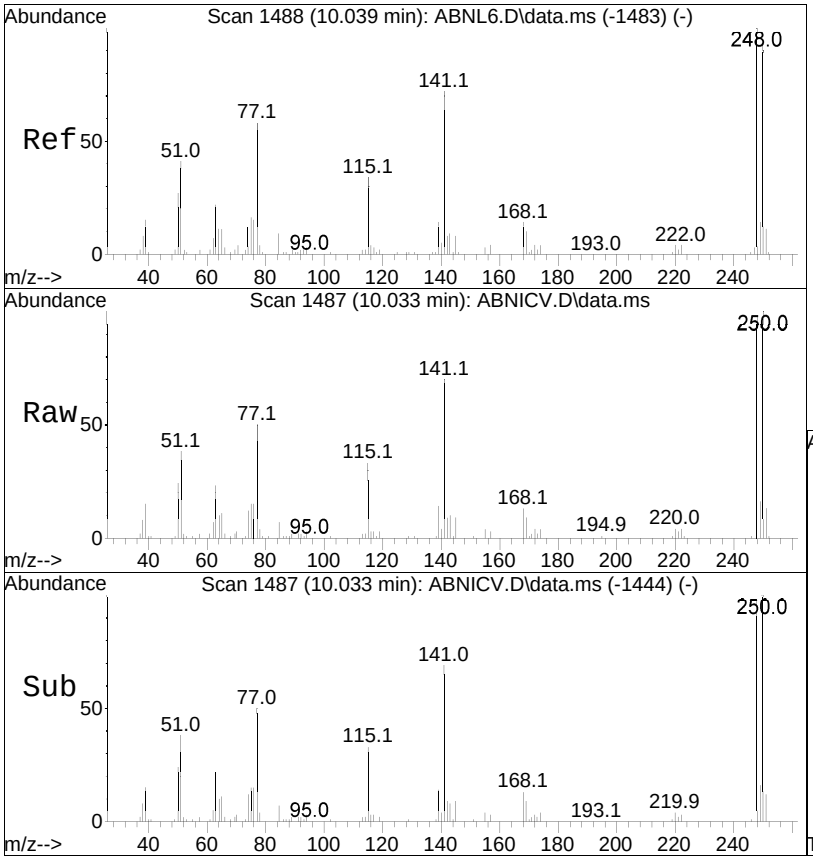


#77
Azobenzene
Concen: 5.35 ug/ml
RT: 9.716 min Scan# 1433
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 77 Resp: 253969

Ion	Ratio	Lower	Upper
77	100		
182	22.1	17.4	26.2
105	18.8	15.4	23.2

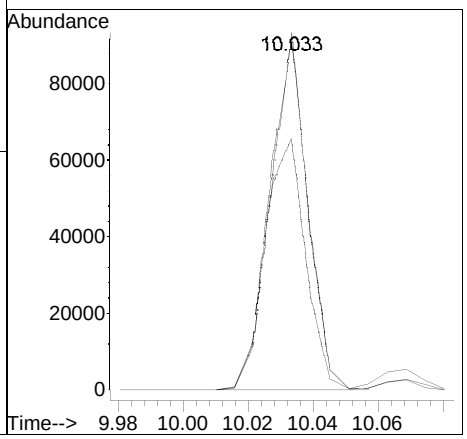


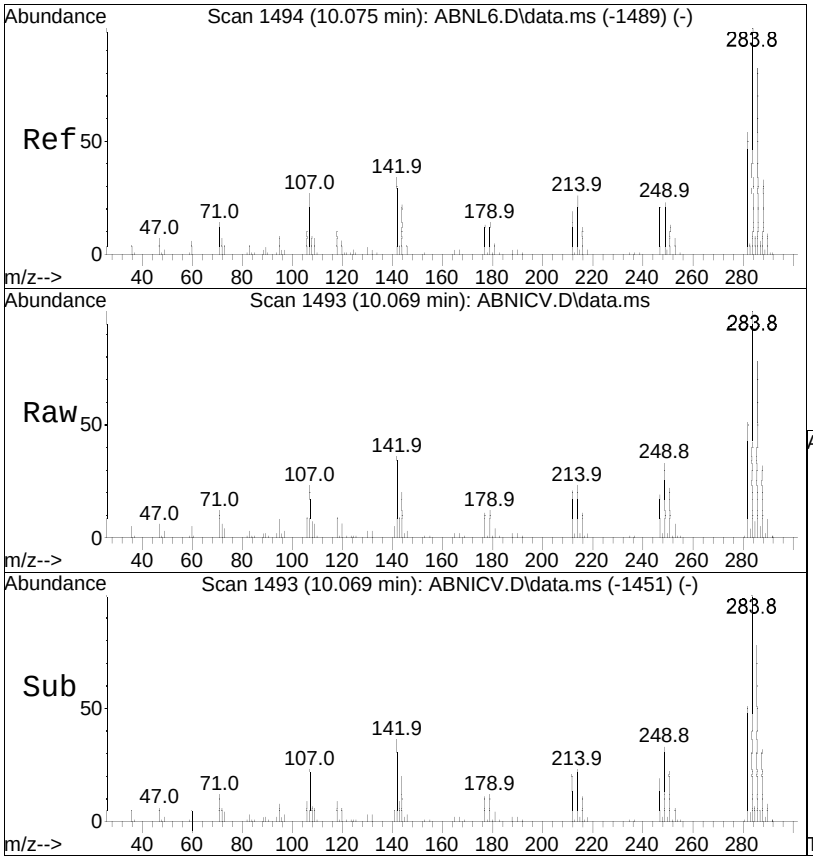


#79
4-Bromophenyl phenyl ether
Concen: 5.23 ug/ml
RT: 10.033 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:248 Resp: 74105

Ion	Ratio	Lower	Upper
248	100		
141	76.2	76.6	114.8#
250	97.7	77.3	115.9

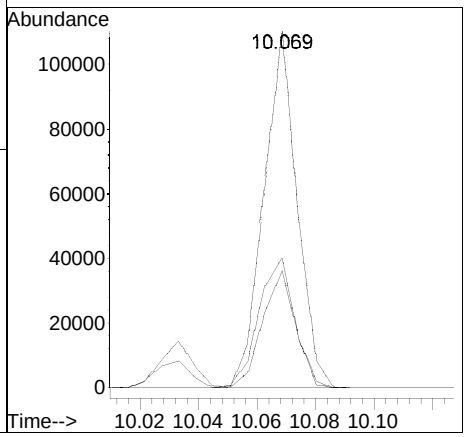


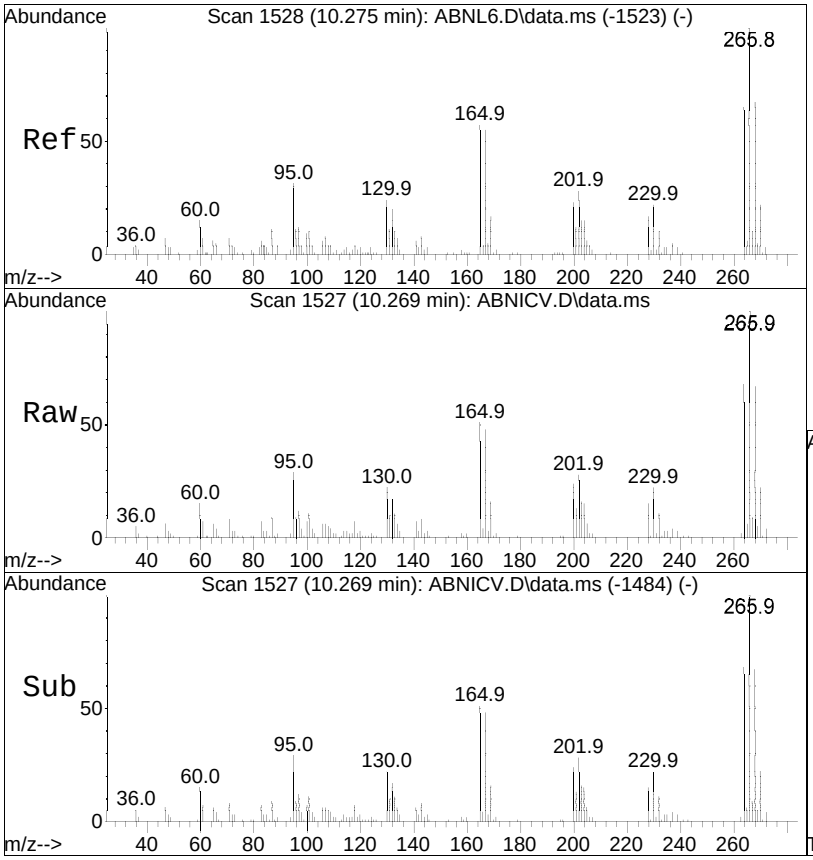


#80
Hexachlorobenzene
Concen: 5.28 ug/ml
RT: 10.069 min Scan# 1493
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:284 Resp: 86665

Ion	Ratio	Lower	Upper
284	100		
142	39.4	41.9	62.9#
249	33.1	24.1	36.1

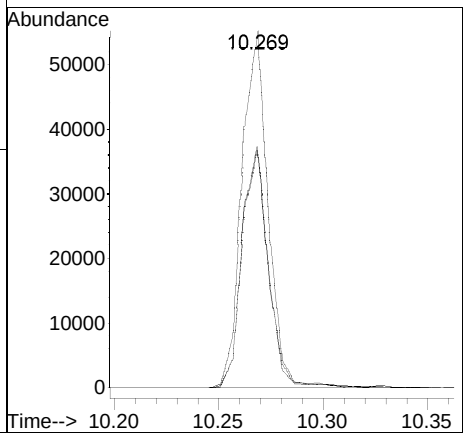


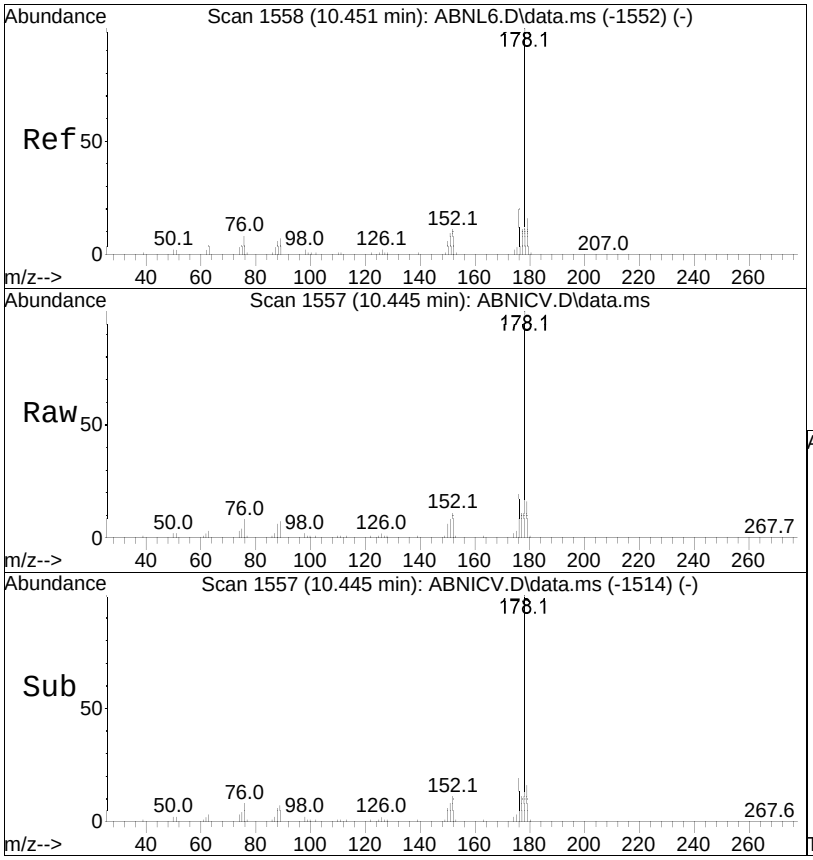


#81
Pentachlorophenol
Concen: 5.00 ug/ml
RT: 10.269 min Scan# 1527
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:266 Resp: 47842

Ion	Ratio	Lower	Upper
266	100		
264	68.7	49.7	74.5
268	67.6	50.5	75.7

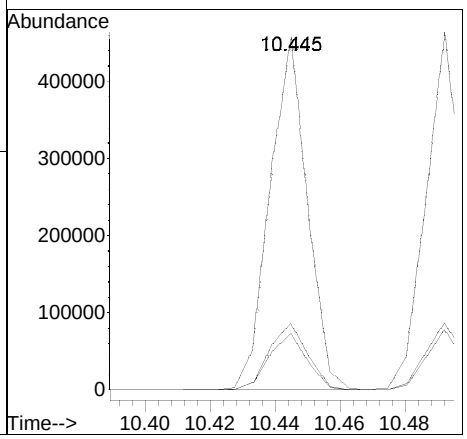


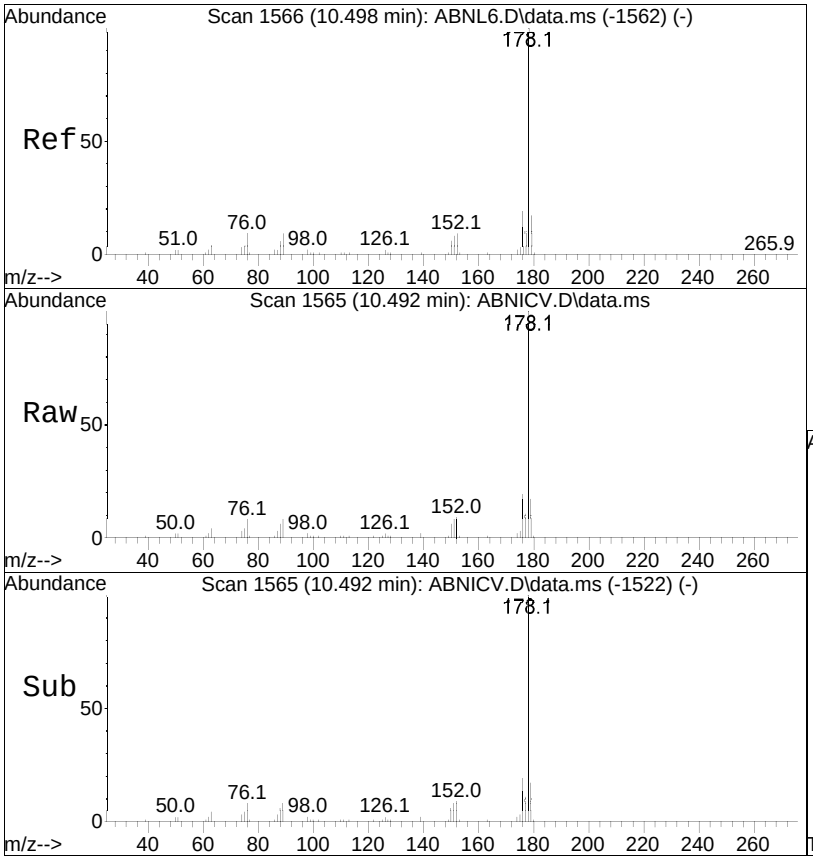


#88
Phenanthrene
Concen: 5.26 ug/ml
RT: 10.445 min Scan# 1557
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:178 Resp: 364896

Ion	Ratio	Lower	Upper
178	100		
179	16.2	12.2	18.2
176	19.3	15.4	23.2

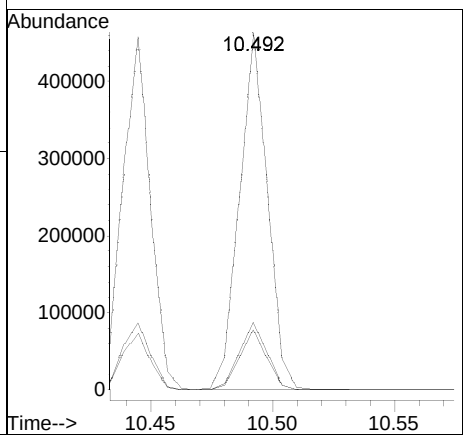


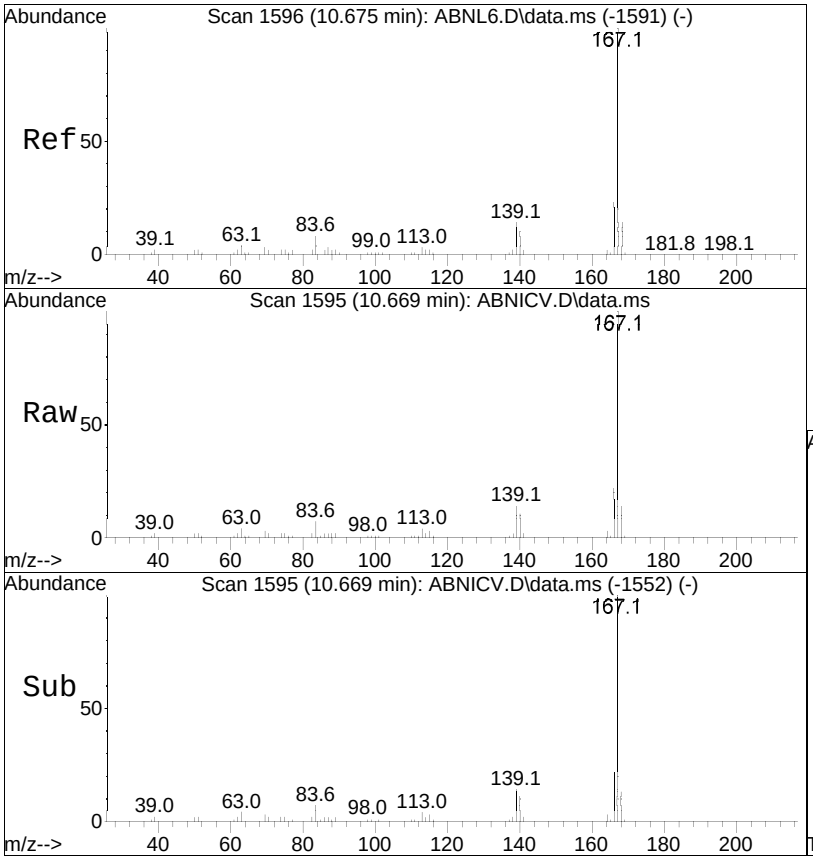


#89
Anthracene
Concen: 5.40 ug/ml
RT: 10.492 min Scan# 1565
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:178 Resp: 370163

Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.0	18.0
176	18.8	14.6	22.0

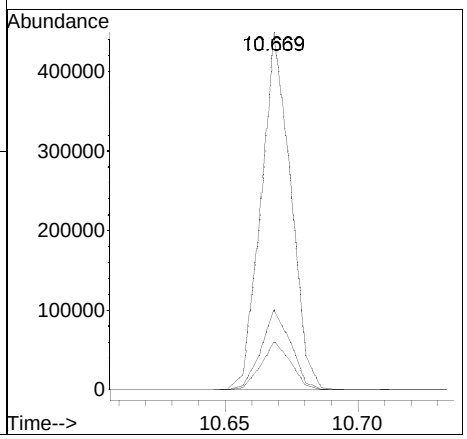


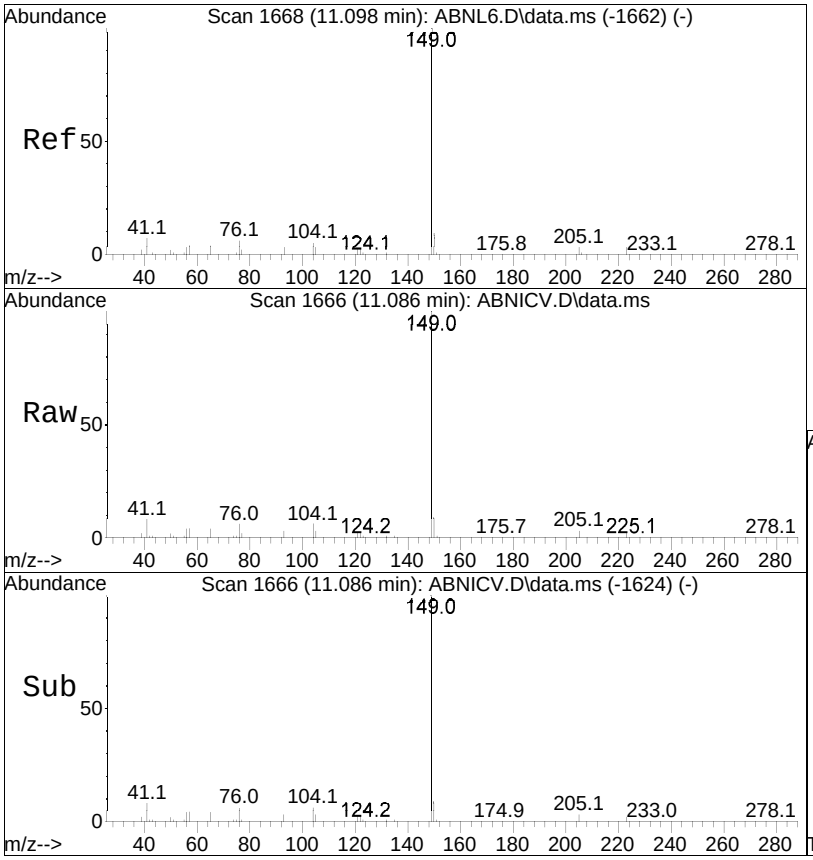


#90
Carbazole
Concen: 5.47 ug/ml
RT: 10.669 min Scan# 1595
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:167 Resp: 343325

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.6	17.4	26.0

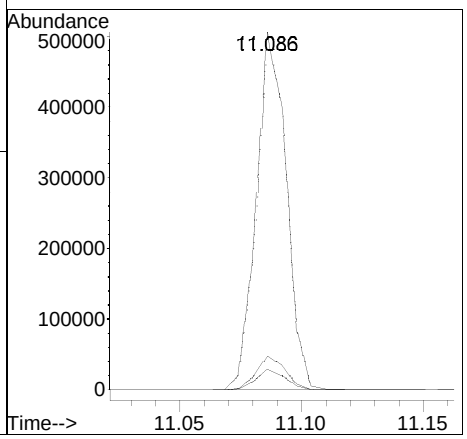


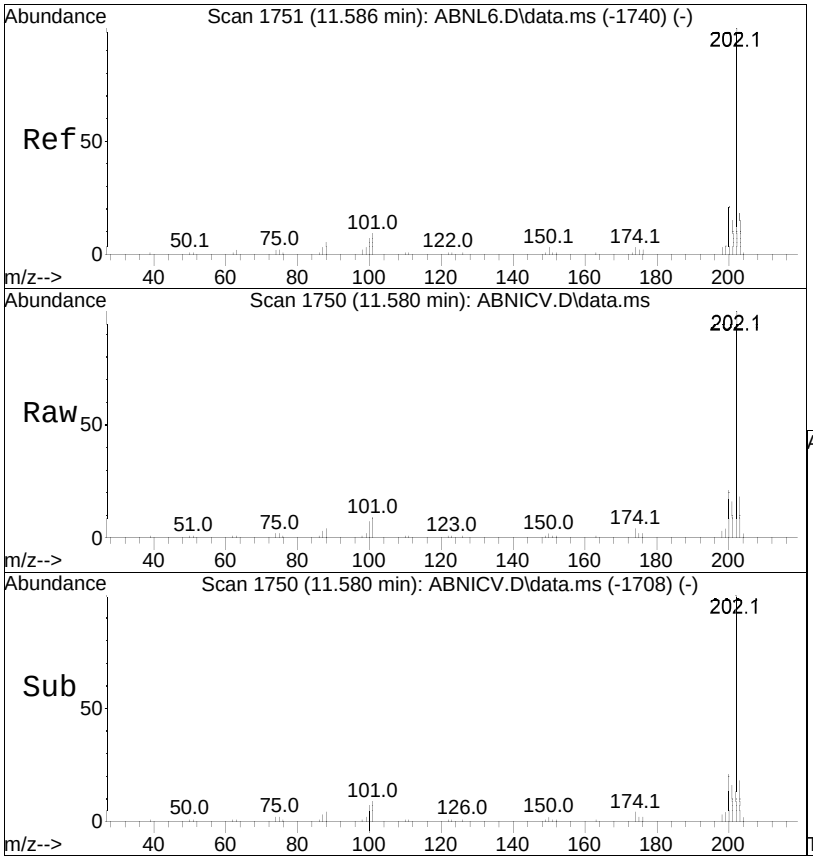


#91
Di-n-butylphthalate
Concen: 5.56 ug/ml
RT: 11.086 min Scan# 1666
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 425422

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.8	4.5	6.7

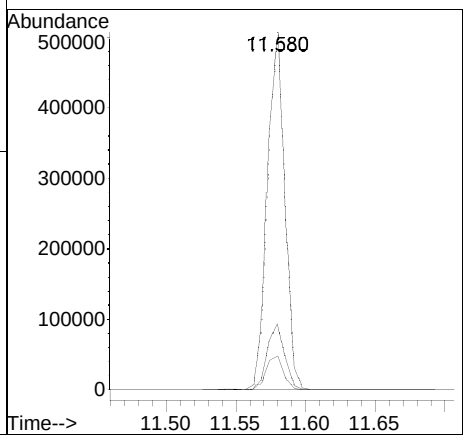


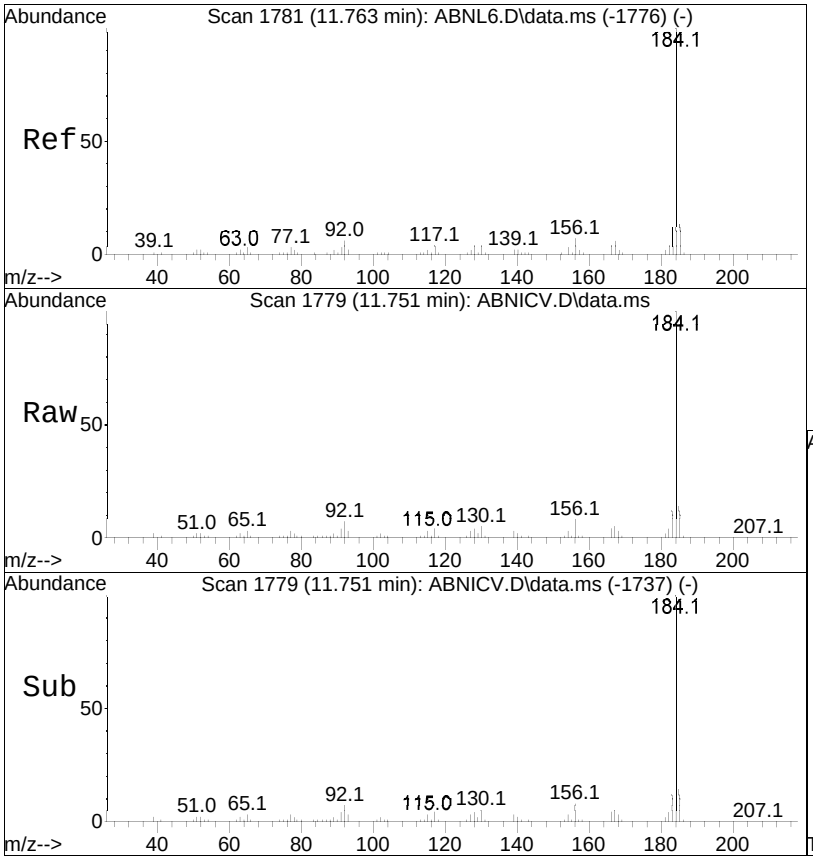


#92
Fluoranthene
Concen: 5.48 ug/ml
RT: 11.580 min Scan# 1750
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:202 Resp: 435270

Ion	Ratio	Lower	Upper
202	100		
101	9.7	13.5	20.3#
203	18.5	13.6	20.4

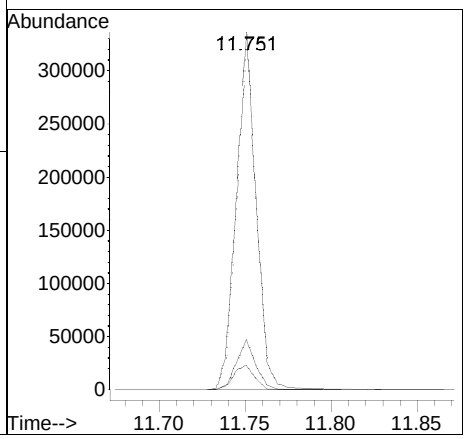


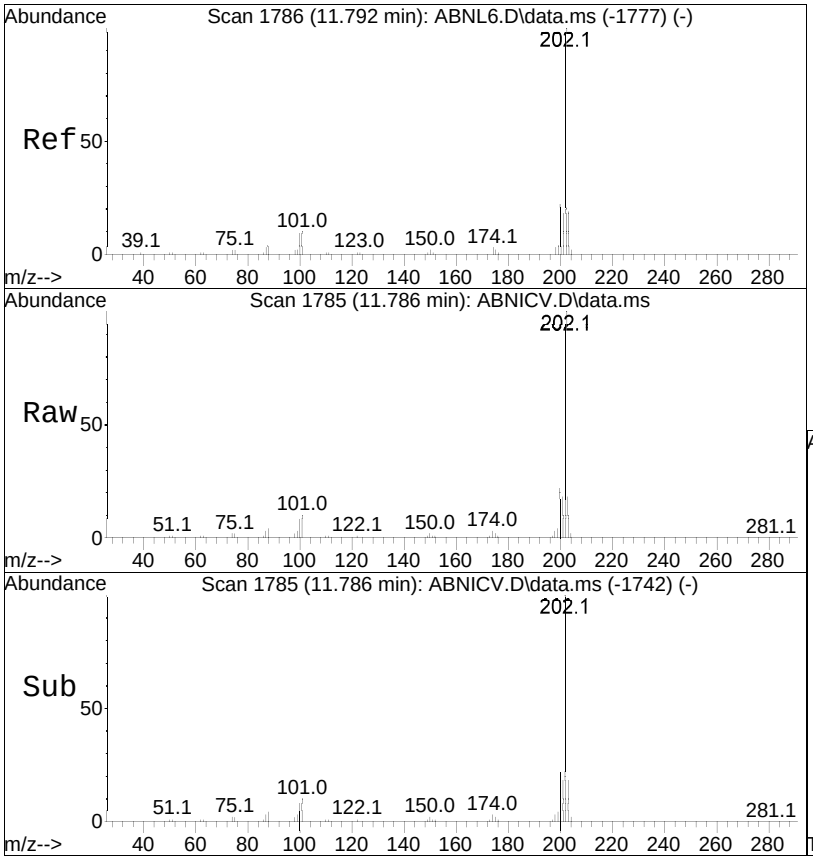


#93
Benzidine
Concen: 5.79 ug/ml
RT: 11.751 min Scan# 1779
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:184 Resp: 263663

Ion	Ratio	Lower	Upper
184	100		
92	7.6	9.1	13.7#
185	14.2	11.1	16.7

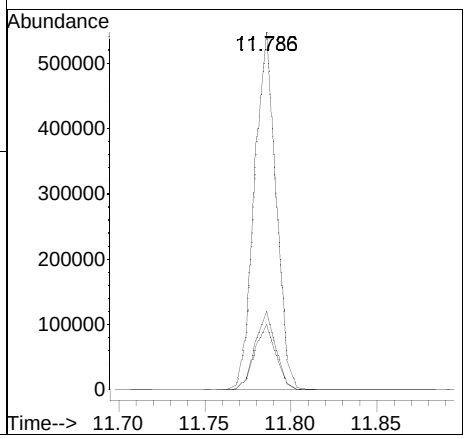


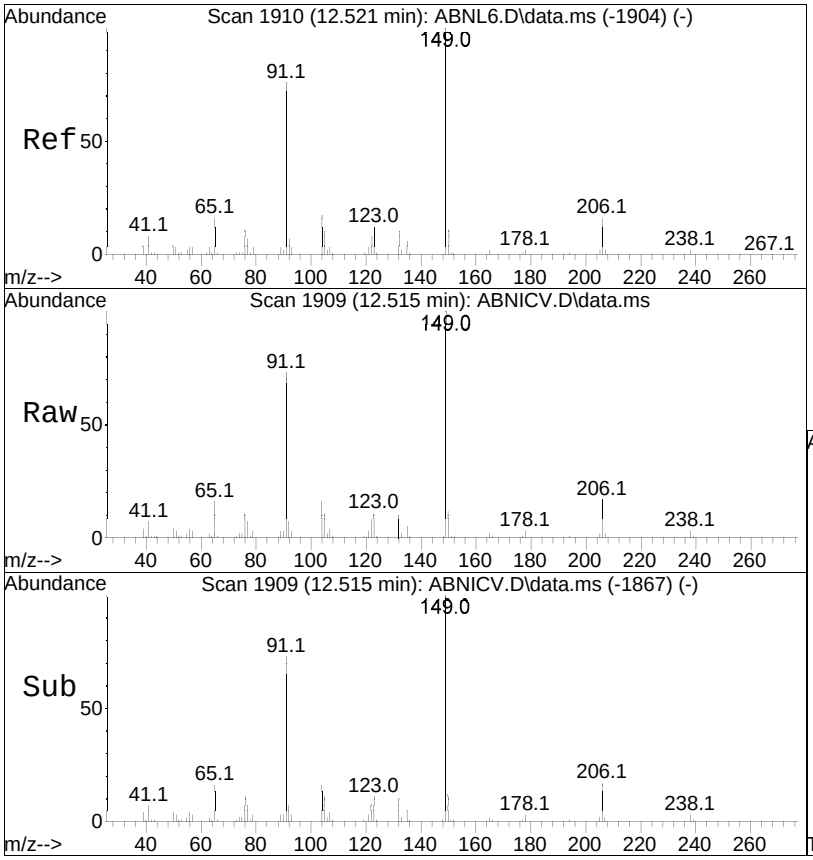


#94
Pyrene
Concen: 5.62 ug/ml
RT: 11.786 min Scan# 1785
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:202 Resp: 470653

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	18.3	14.2	21.4

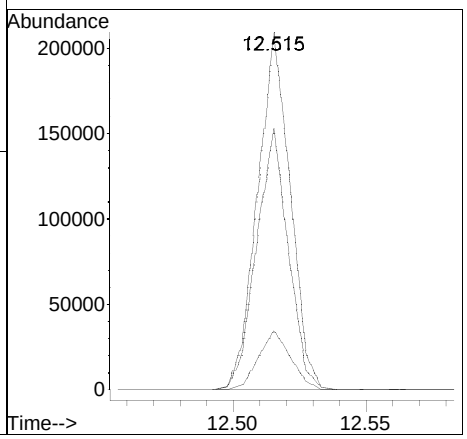


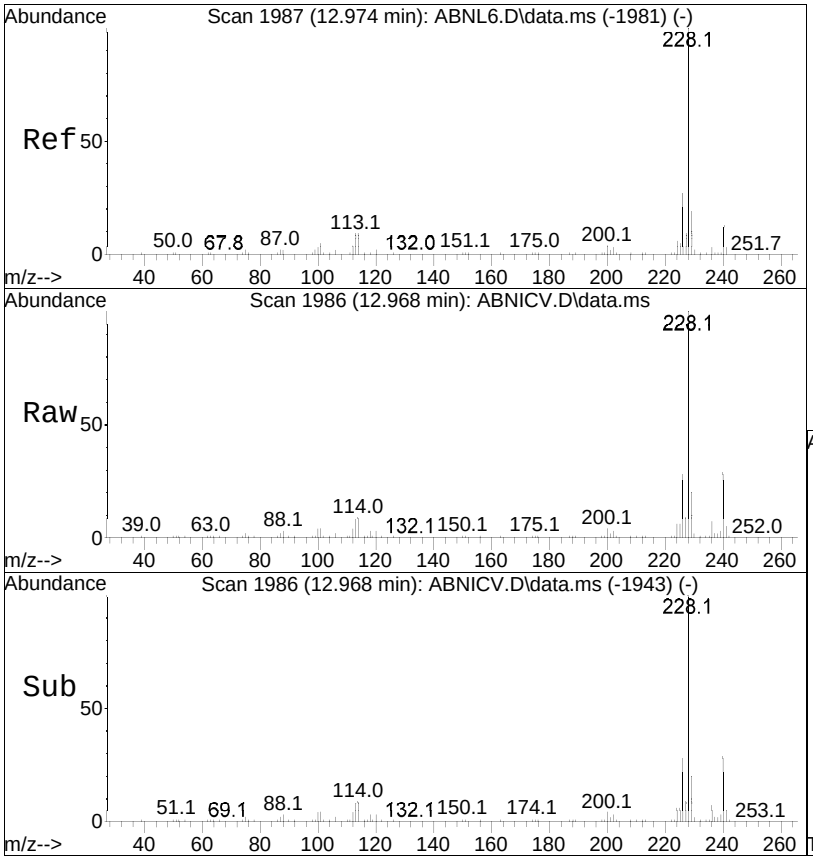


#96
Butyl benzyl phthalate
Concen: 5.43 ug/ml
RT: 12.515 min Scan# 1909
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 176719

Ion	Ratio	Lower	Upper
149	100		
91	71.3	63.3	94.9
206	16.3	13.9	20.9

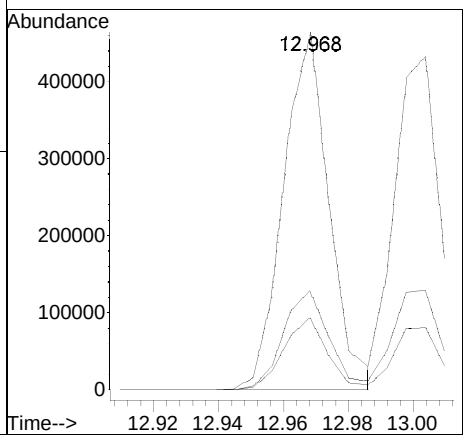


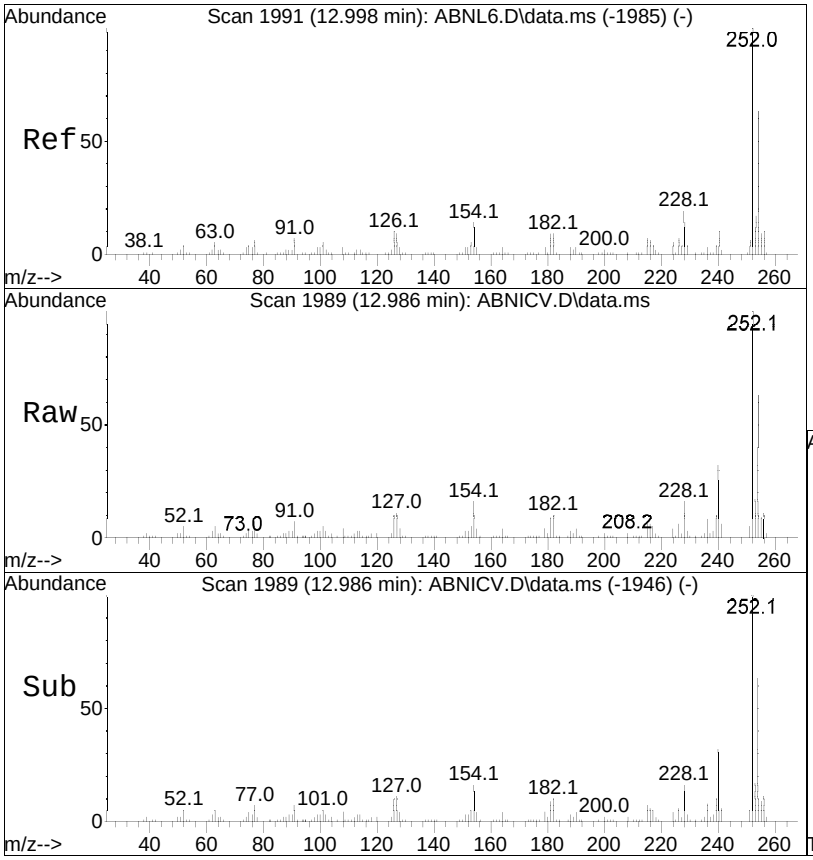


#104
Benzo(a)anthracene
Concen: 5.53 ug/ml
RT: 12.968 min Scan# 1986
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:228 Resp: 451936

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.2	33.4
229	19.5	15.6	23.4

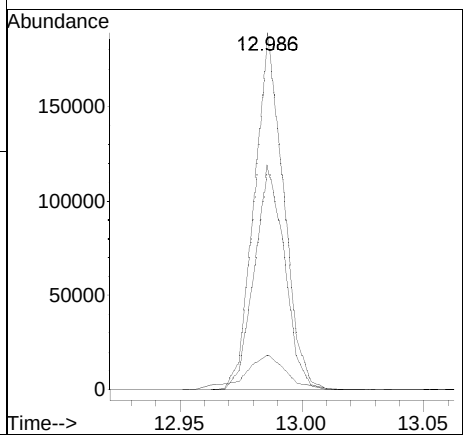


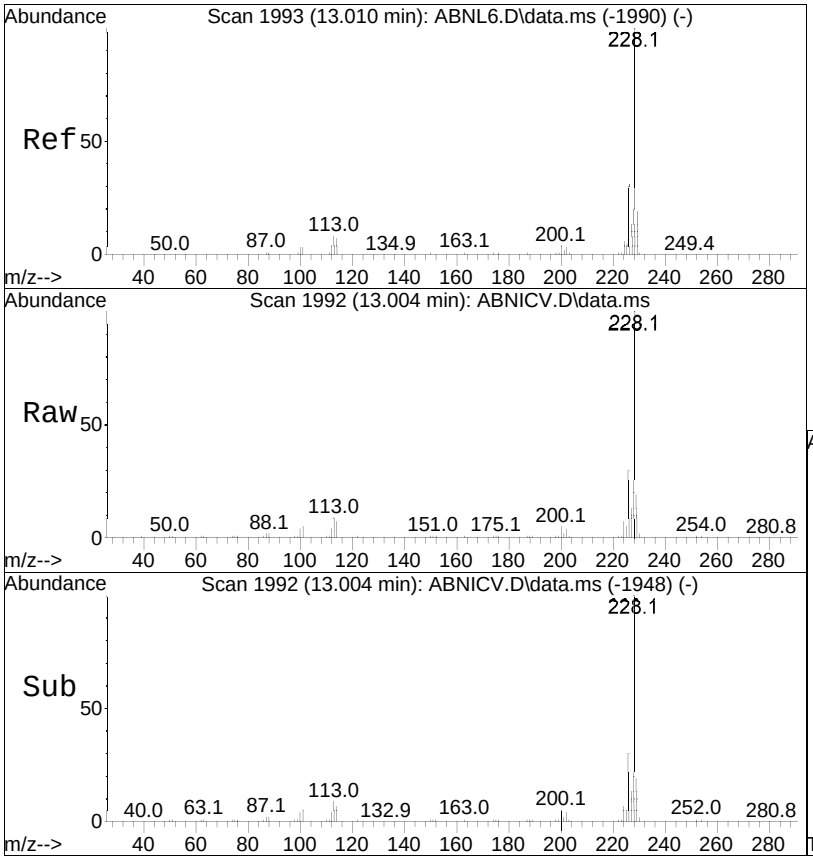


#105
3,3'-Dichlorobenzidine
Concen: 5.59 ug/ml
RT: 12.986 min Scan# 1989
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 157325

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	65.6	51.2	76.8

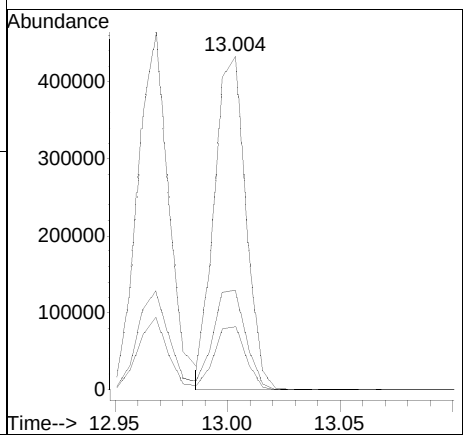


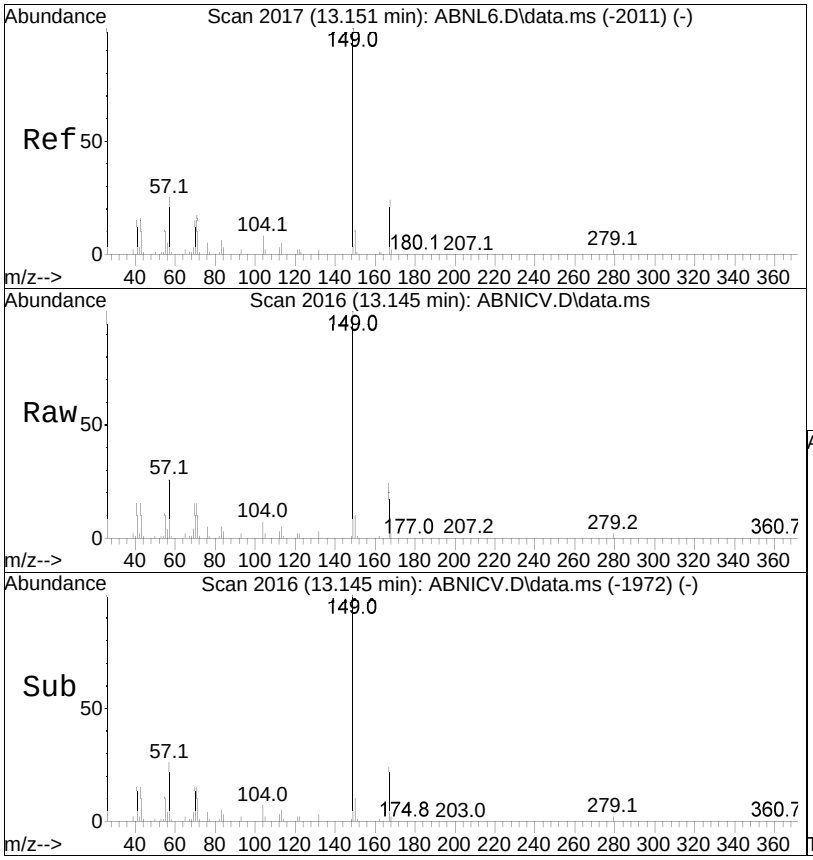


#106
Chrysene
Concen: 5.21 ug/ml
RT: 13.004 min Scan# 1992
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:228 Resp: 420177

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.0	36.0
229	19.0	15.8	23.8

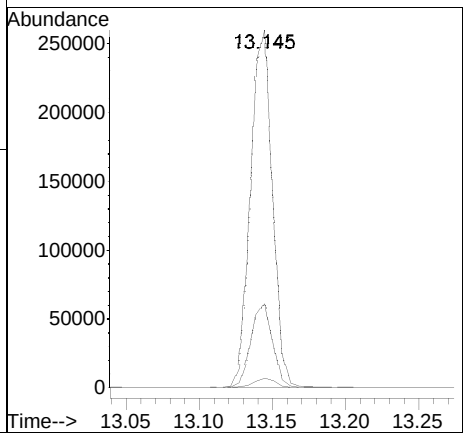


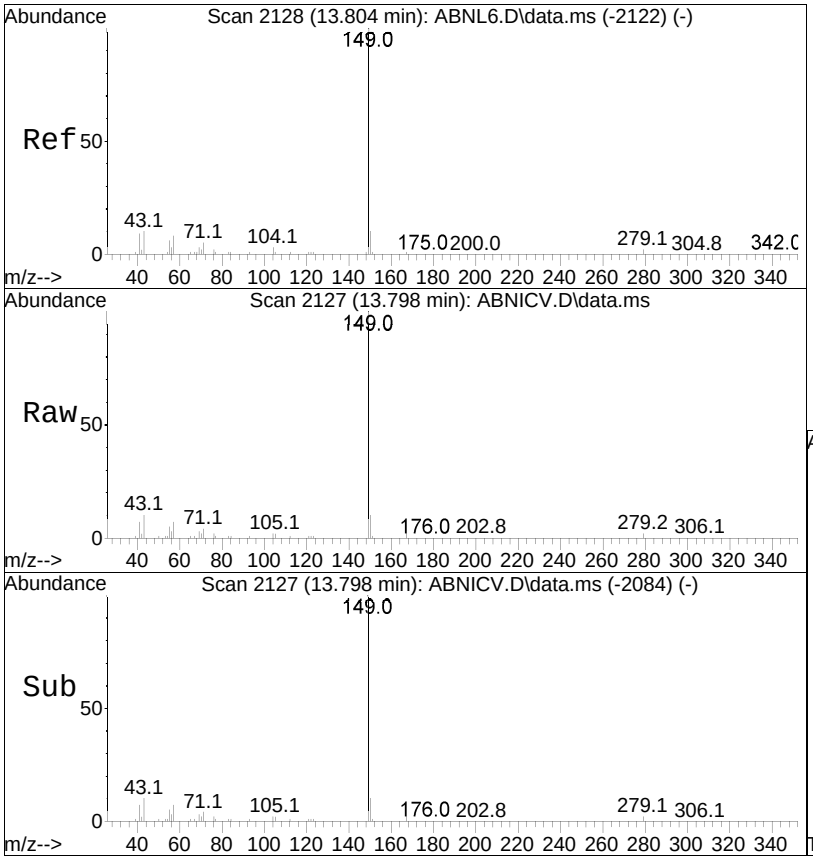


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.52 ug/ml
RT: 13.145 min Scan# 2016
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 267105

Ion	Ratio	Lower	Upper
149	100		
167	23.3	22.1	33.1
279	2.4	3.0	4.4#

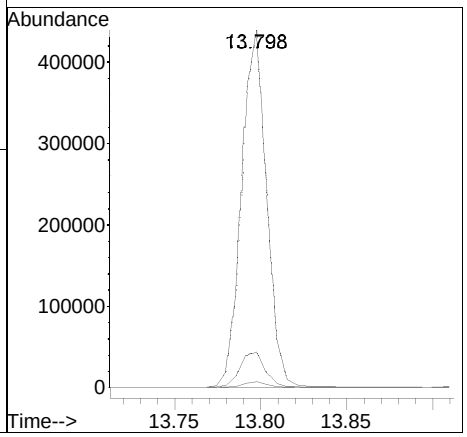


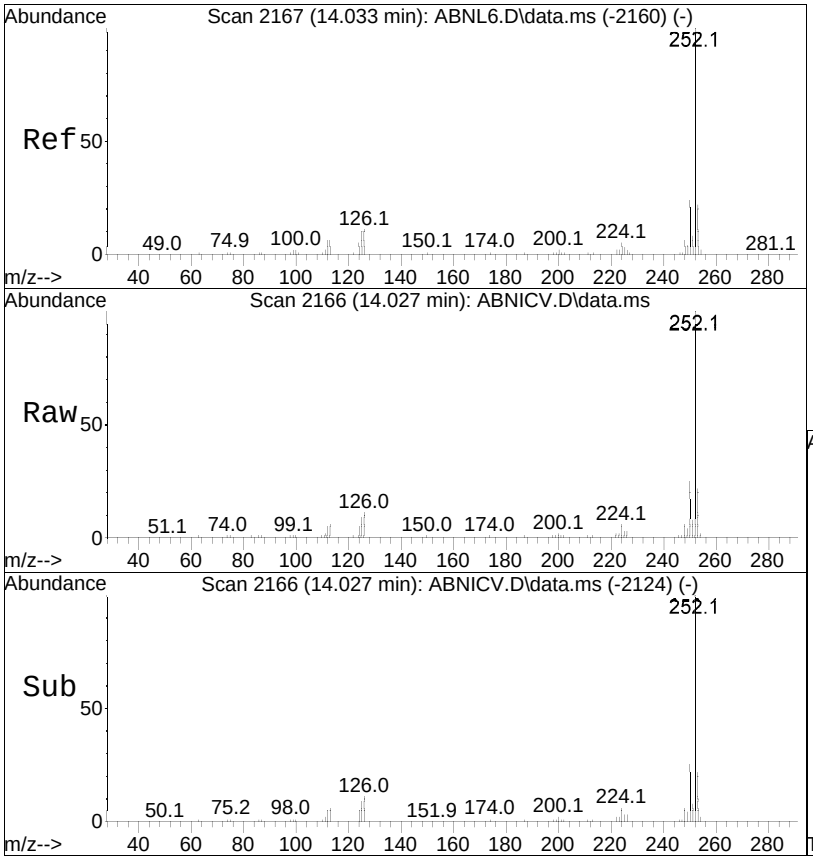


#108
Di-n-octylphthalate
Concen: 5.54 ug/ml
RT: 13.798 min Scan# 2127
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 439310

Ion	Ratio	Lower	Upper
149	100		
43	10.3	18.8	28.2#
167	1.4	1.3	1.9

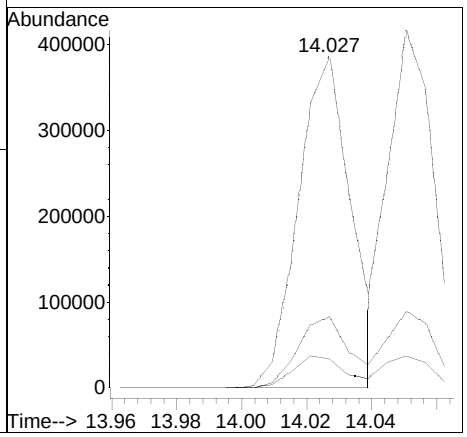


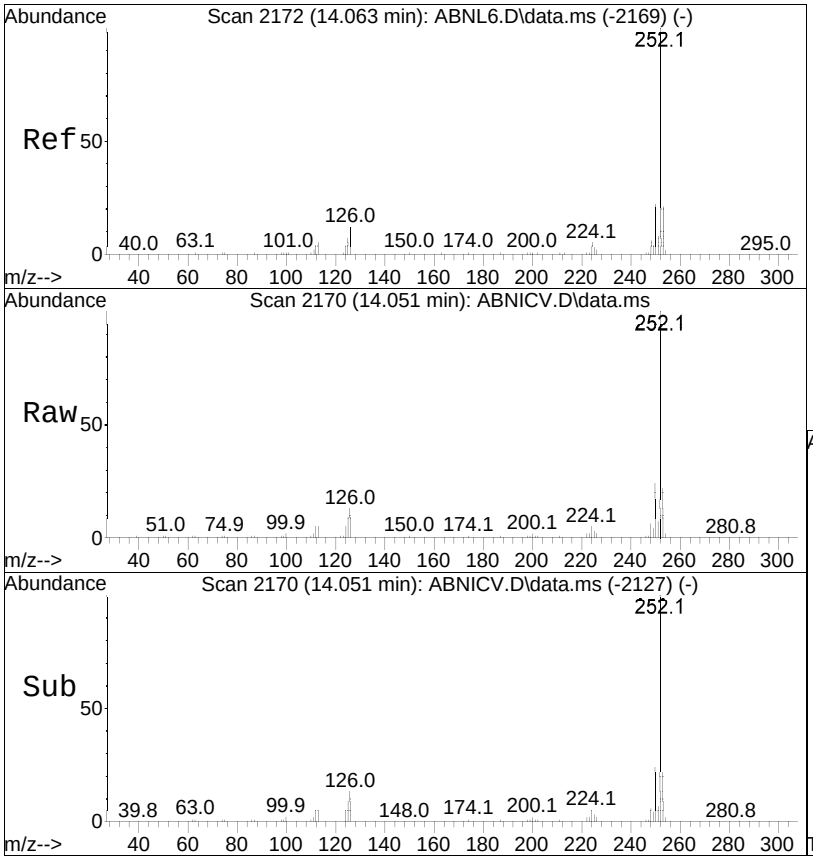


#109
Benzo(b)fluoranthene
Concen: 5.85 ug/ml
RT: 14.027 min Scan# 2166
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 435829

Ion	Ratio	Lower	Upper
252	100		
125	9.8	13.3	19.9#
253	21.4	17.1	25.7

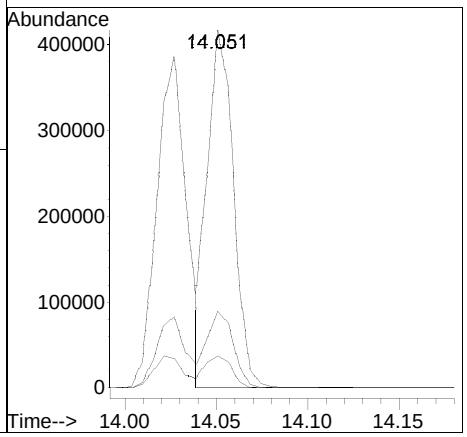


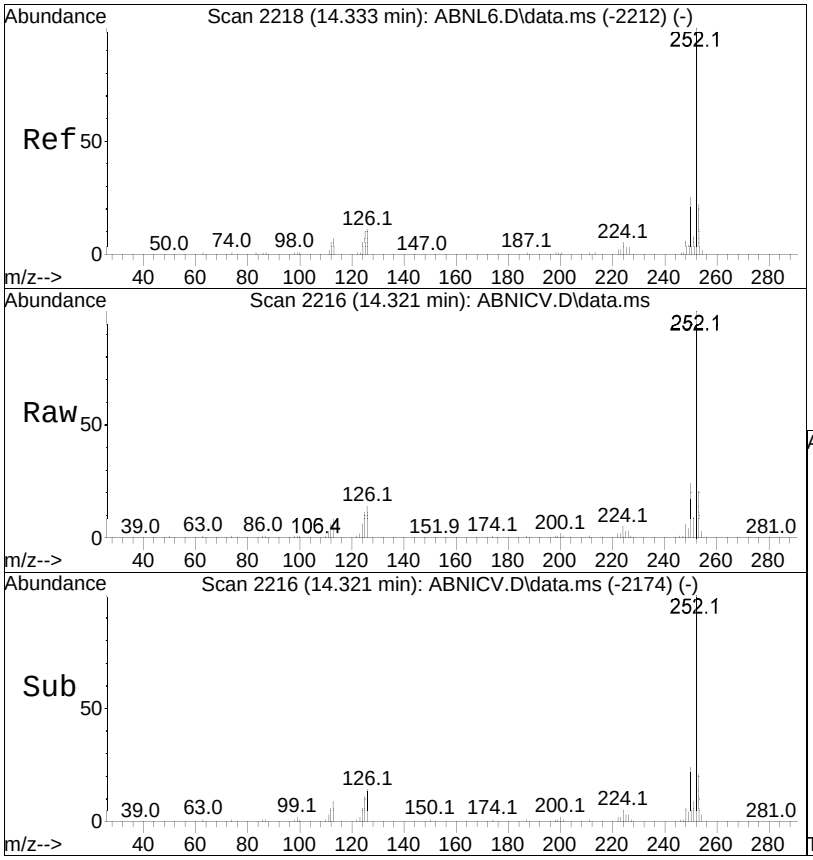


#110
Benzo(k)fluoranthene
Concen: 5.66 ug/ml
RT: 14.051 min Scan# 2170
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 412234

Ion	Ratio	Lower	Upper
252	100		
125	9.0	13.0	19.6#
253	21.6	16.8	25.2

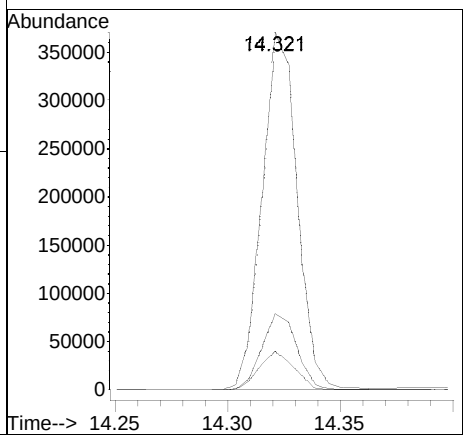


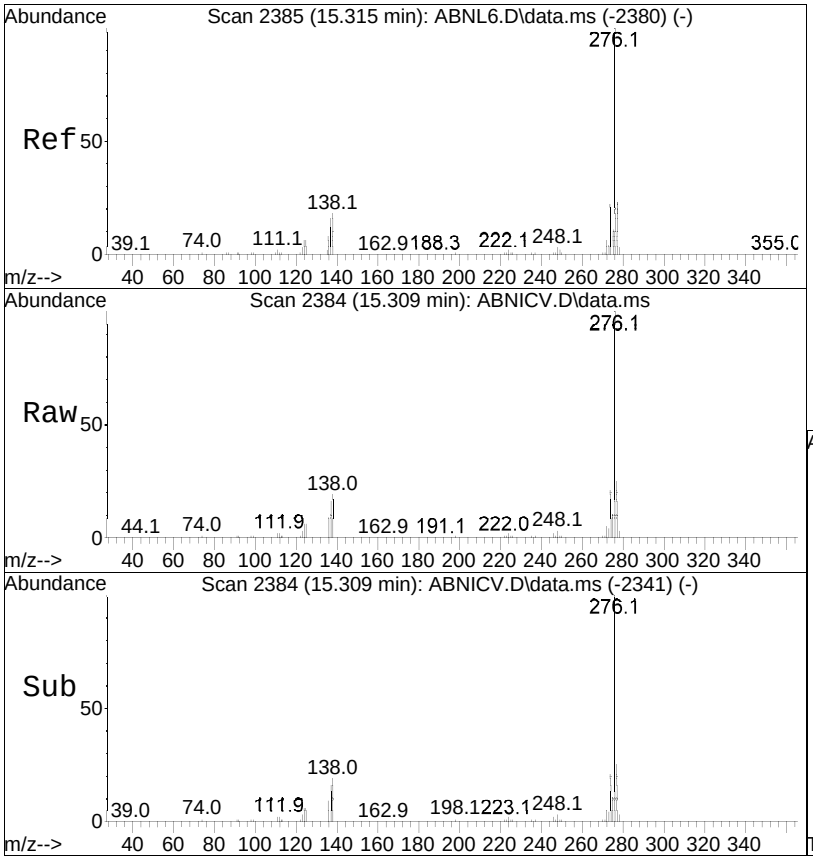


#111
Benzo(a)pyrene
Concen: 5.98 ug/ml
RT: 14.321 min Scan# 2216
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 399059

Ion	Ratio	Lower	Upper
252	100		
125	10.9	14.2	21.2#
253	21.6	16.9	25.3

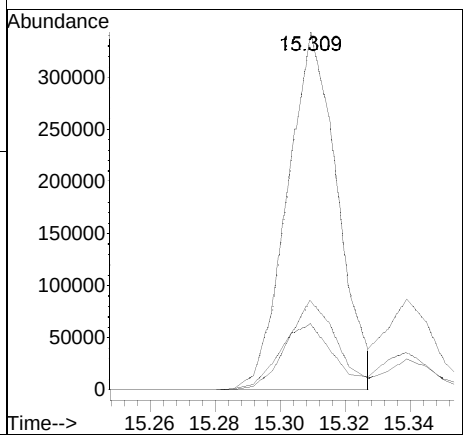


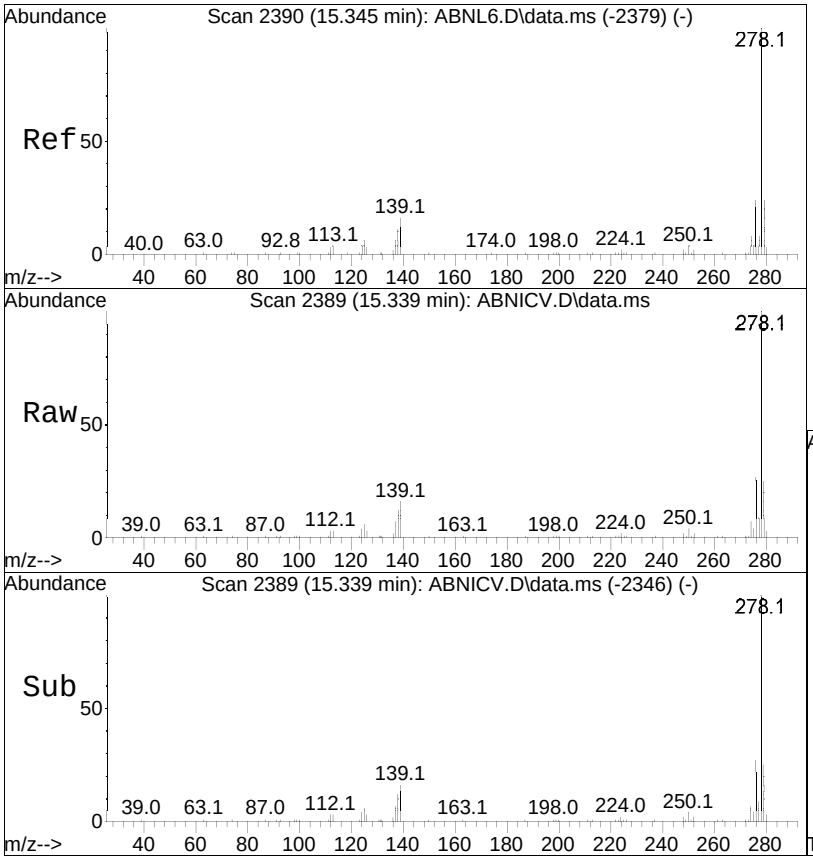


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.42 ug/mL
RT: 15.309 min Scan# 2384
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:276 Resp: 368948

Ion	Ratio	Lower	Upper
276	100		
138	20.7	25.1	37.7#
277	24.7	18.6	28.0

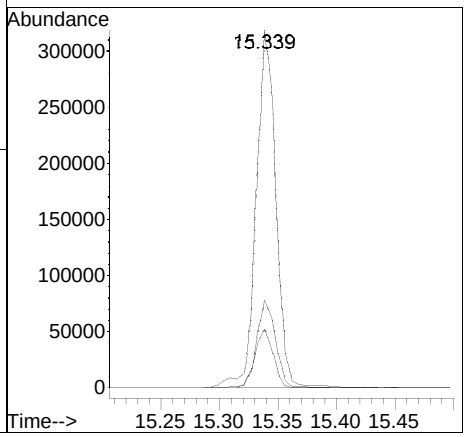


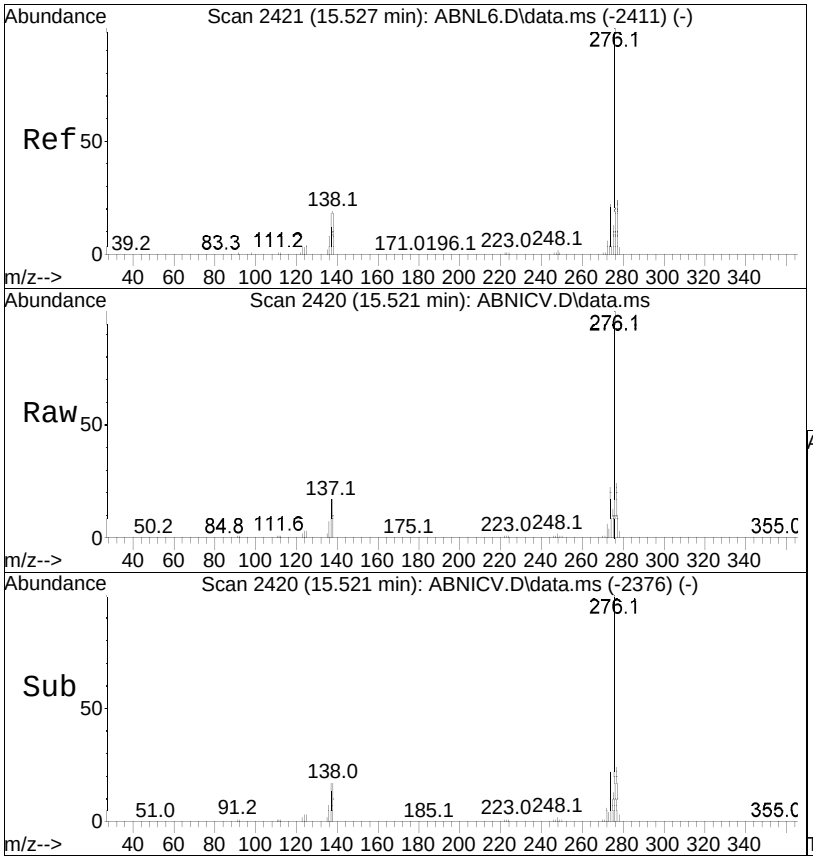


#114
Dibenzo(a,h)anthracene
Concen: 5.69 ug/ml
RT: 15.339 min Scan# 2389
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:278 Resp: 368679

Ion	Ratio	Lower	Upper
278	100		
139	15.5	20.8	31.2#
279	23.9	18.3	27.5

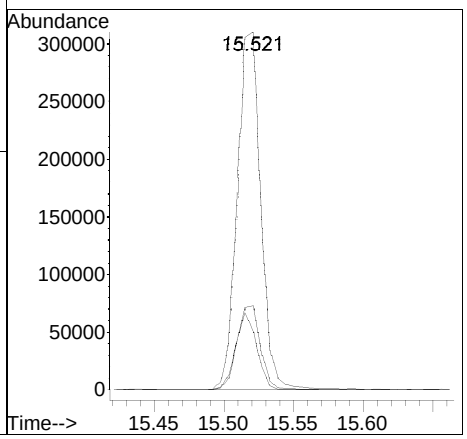




#115
Benzo(ghi)perylene
Concen: 5.64 ug/ml
RT: 15.521 min Scan# 2420
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:276 Resp: 360504

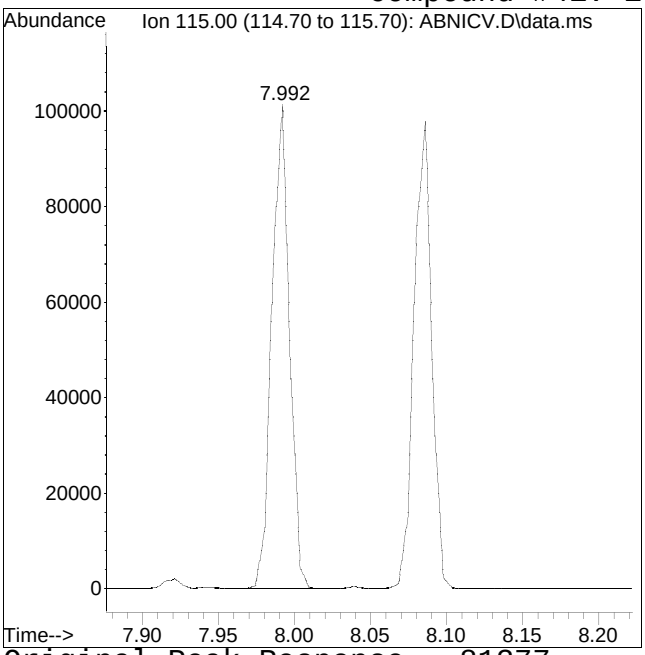
Ion	Ratio	Lower	Upper
276	100		
138	19.7	29.2	43.8#
277	23.9	18.8	28.2

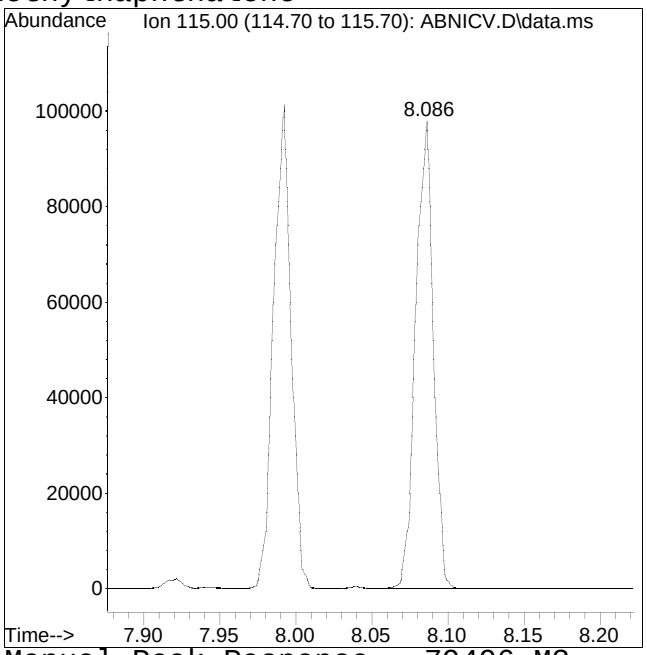


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNICV.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 4:04 am Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 106Quant Date : 4/19/2024 1:35 pm

Compound #41: 1-Methylnaphthalene





Original Peak Response = 81377 Manual Peak Response = 79496 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9ICV.D
Acq On : 19 Apr 2024 4:29 am
Operator : SV106:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1911693,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 19 13:49:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:48:18 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
28	T	Benzaldehyde	1.095	1.033	5.7	102	0.00
29	T	Acetophenone	1.981	1.914	3.4	102	0.00
30	T	m-Toluidine	1.685	1.741	-3.3	100	0.00
31	T	2-Chloroaniline	1.619	1.562	3.5	99	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	92	0.00
55	T	a-Terpineol	0.330	0.331	-0.3	98	0.00
56	T	3-Chloroaniline	0.181	0.190	-5.0	97	0.00
57	T	2,6-Dichlorophenol	0.300	0.299	0.3	99	0.00
58	T	1-chloro-2-nitrobenzene	0.172	0.165	4.1	100	0.00
59	T	Caprolactam	0.176	0.169	4.0	95	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.461	0.454	1.5	100	0.00
61	T	Biphenyl	0.901	0.895	0.7	97	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	92	0.00
83	T	Dichloran	0.191	0.193	-1.0	96	0.00
84	T	Pentachloronitrobenzene	0.232	0.225	3.0	97	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	93	0.00
98	T	Diphenamid	0.451	0.463	-2.7	97	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9ICV.D
Acq On : 19 Apr 2024 4:29 am
Operator : SV106:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1911693,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 19 13:49:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:48:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	57397	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 94.21%			
54) IS2_Naphthalene-d8	7.239	136	201893	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 91.74%			
82) IS2_Acenaphthene-d10	9.004	164	129534	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 92.04%			
97) IS2_Phenanthrene-d10	10.422	188	288179	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 92.82%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.040	105	74088	4.713	ug/ml	94
29) Acetophenone	6.287	105	137309	4.830	ug/ml#	84
30) m-Toluidine	6.398	106	124919	5.167	ug/ml	96
31) 2-Chloroaniline	6.816	127	112103	4.825	ug/ml	97
55) a-Terpineol	7.334	59	83487	5.007	ug/ml#	79
56) 3-Chloroaniline	7.345	65	48016	5.251	ug/ml#	68
57) 2,6-Dichlorophenol	7.369	162	75437	4.987	ug/ml#	86
58) 1-chloro-2-nitrobenzene	7.639	111	41559	4.796	ug/ml#	1
59) Caprolactam	7.687	55	42552	4.791	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.169	216	114602	4.930	ug/ml	98
61) Biphenyl	8.475	154	225797	4.964	ug/ml	98
83) Dichloran	10.139	206	31296	5.049	ug/ml#	79
84) Pentachloronitrobenzene	10.280	237	36455	4.849	ug/ml#	79
98) Diphenamid	11.345	167	166892	5.133	ug/ml	82

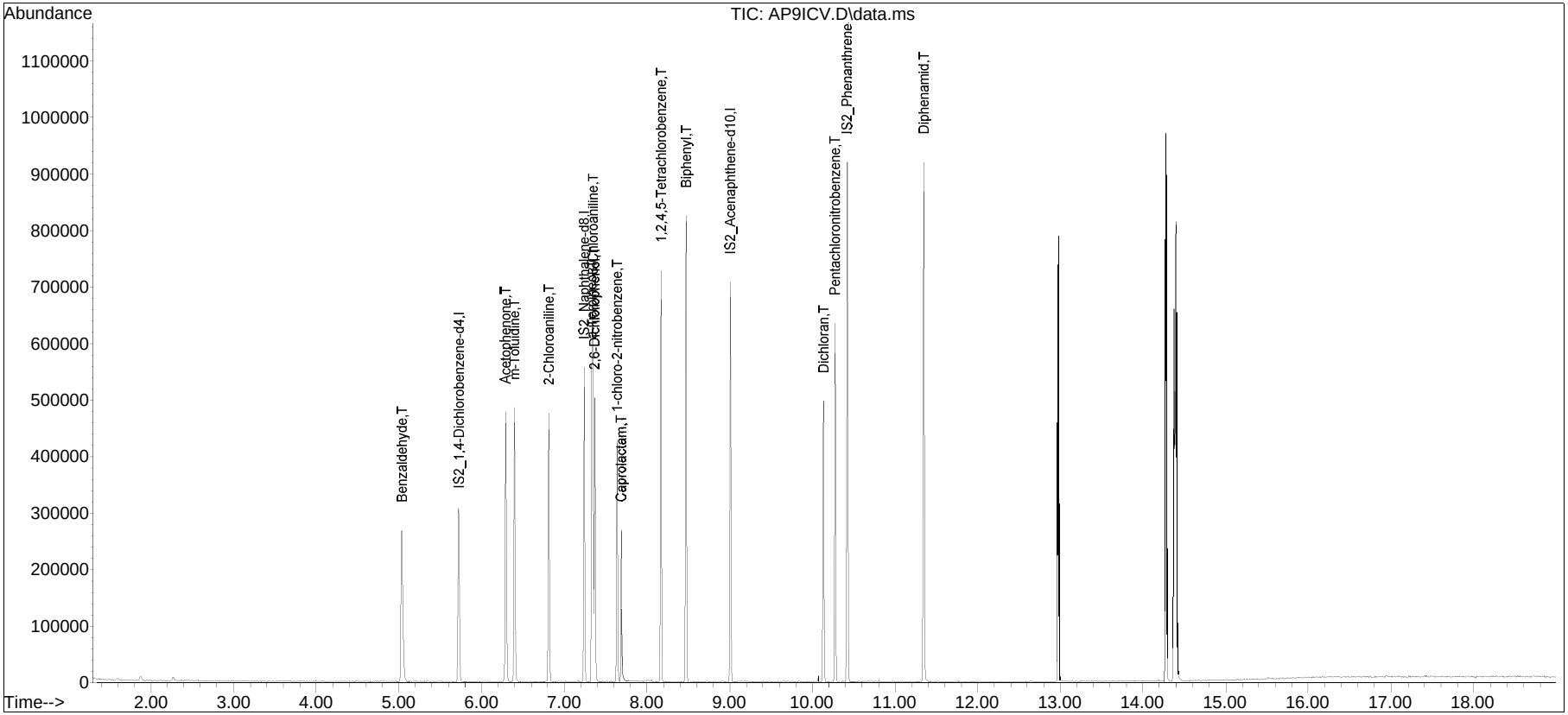
(#) = qualifier out of range (m) = manual integration (+) = signals summed

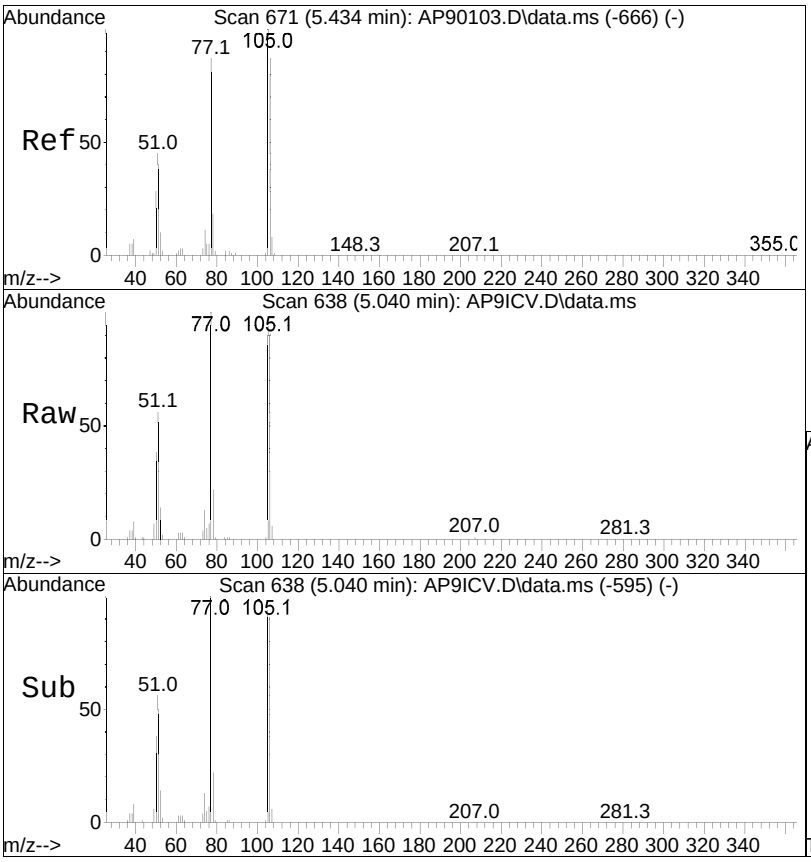
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9ICV.D
Acq On : 19 Apr 2024 4:29 am
Operator : SV106:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1911693,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 19 13:49:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:48:18 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

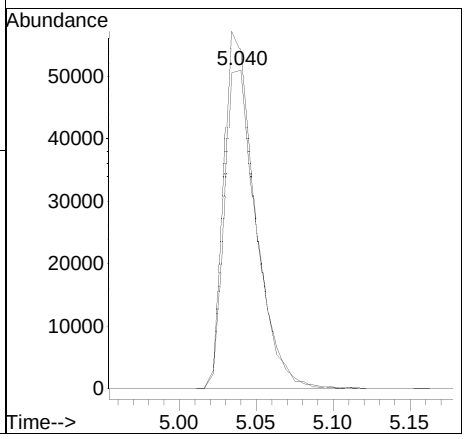


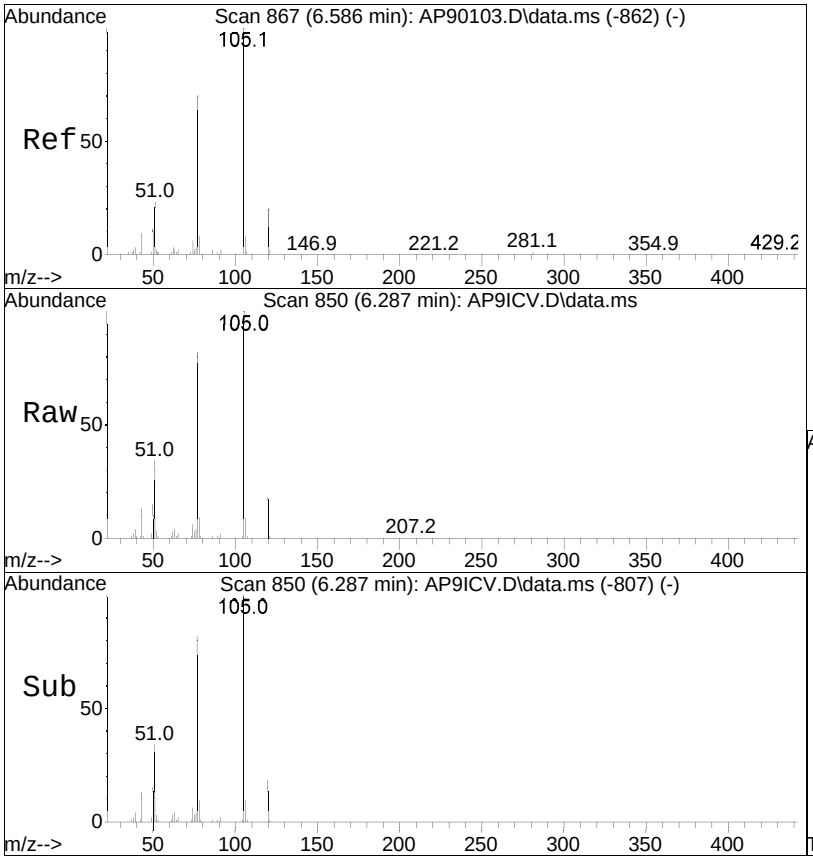


#28
Benzaldehyde
Concen: 4.71 ug/ml
RT: 5.040 min Scan# 638
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:105 Resp: 74088

Ion	Ratio	Lower	Upper
105	100		
77	109.3	82.2	123.4

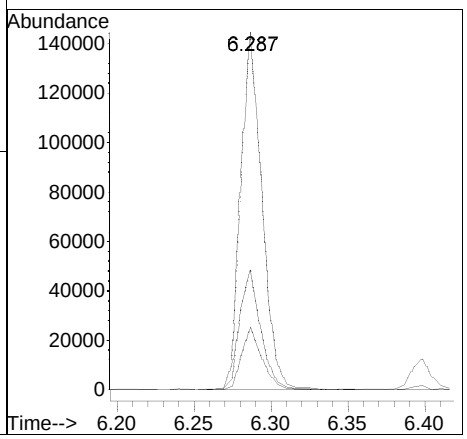


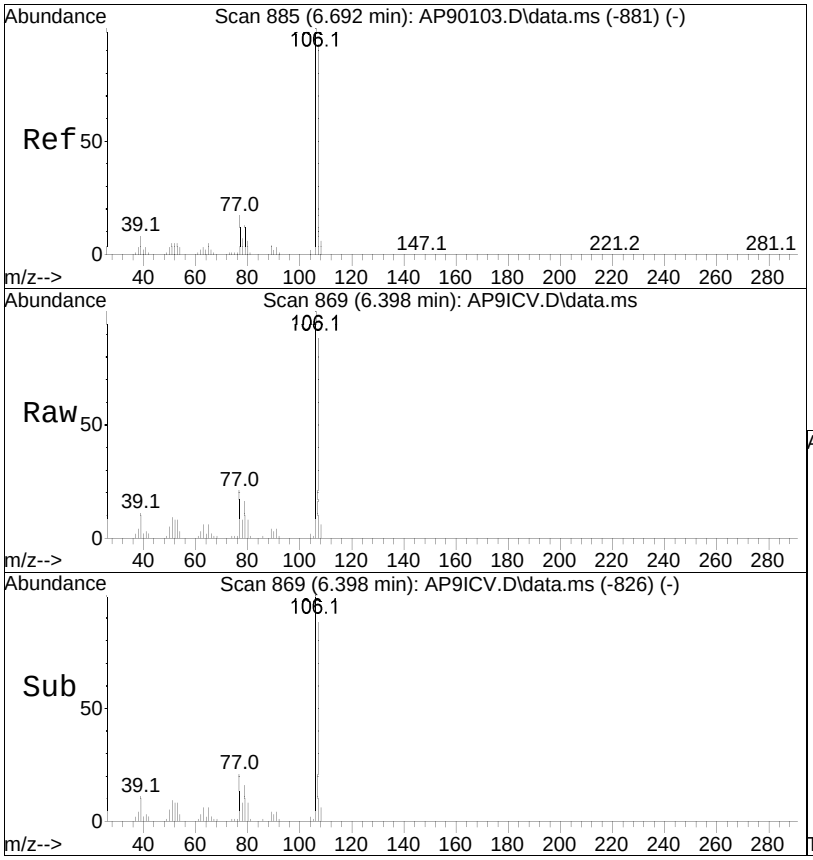


#29
Acetophenone
Concen: 4.83 ug/ml
RT: 6.287 min Scan# 850
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:105 Resp: 137309

Ion	Ratio	Lower	Upper
105	100		
120	16.8	20.5	30.7#
51	33.5	34.9	52.3#

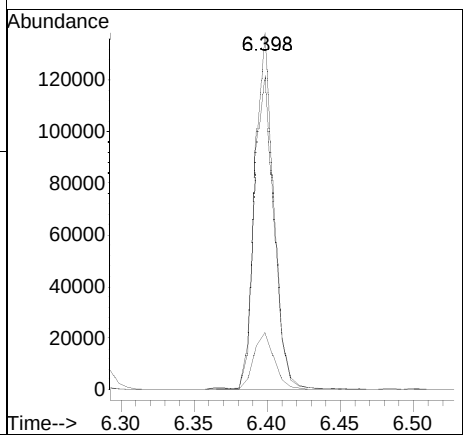


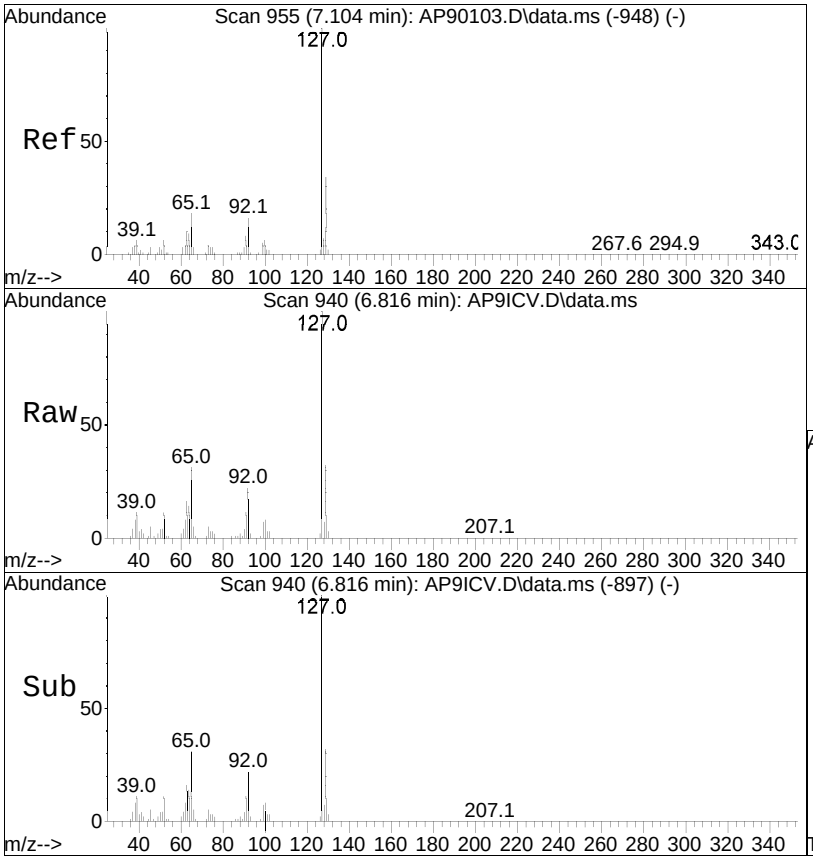


#30
m-Toluidine
Concen: 5.17 ug/ml
RT: 6.398 min Scan# 869
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:106 Resp: 124919

Ion	Ratio	Lower	Upper
106	100		
107	91.3	75.7	113.5
79	17.2	11.8	17.8

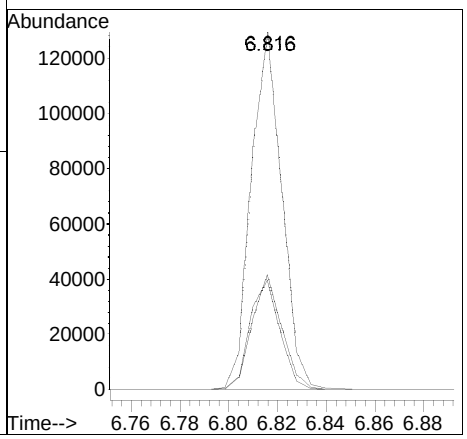


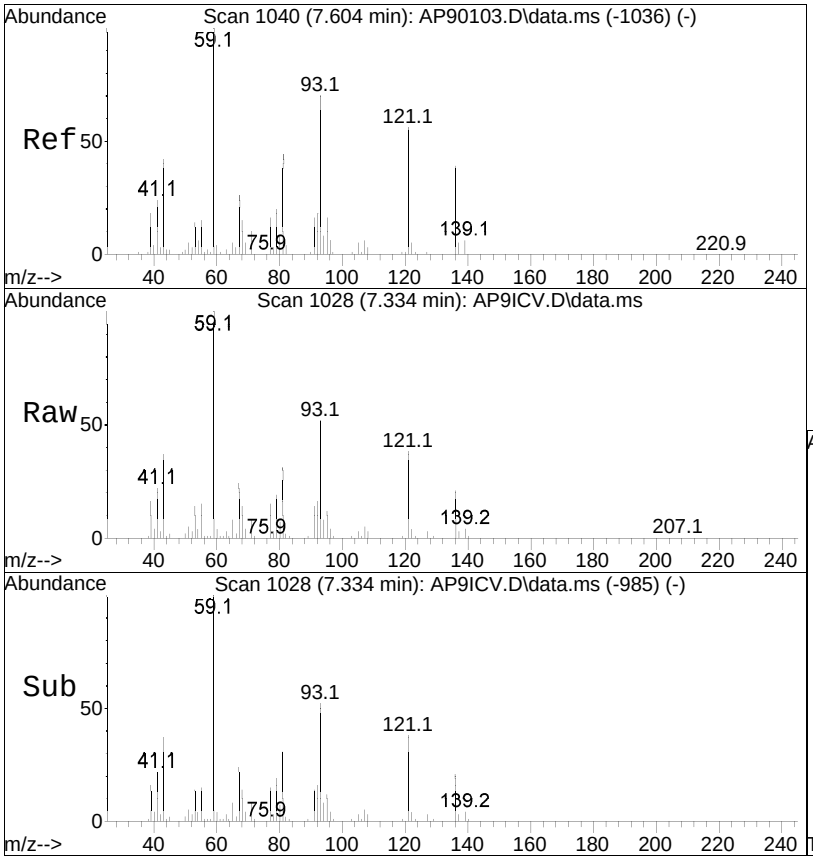


#31
2-Chloroaniline
Concen: 4.83 ug/ml
RT: 6.816 min Scan# 940
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:127 Resp: 112103

Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.9	38.9
65	30.3	26.3	39.5

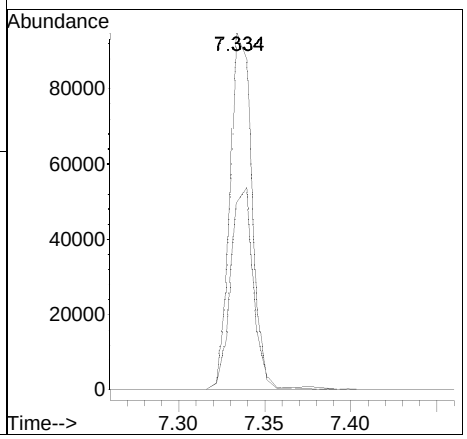


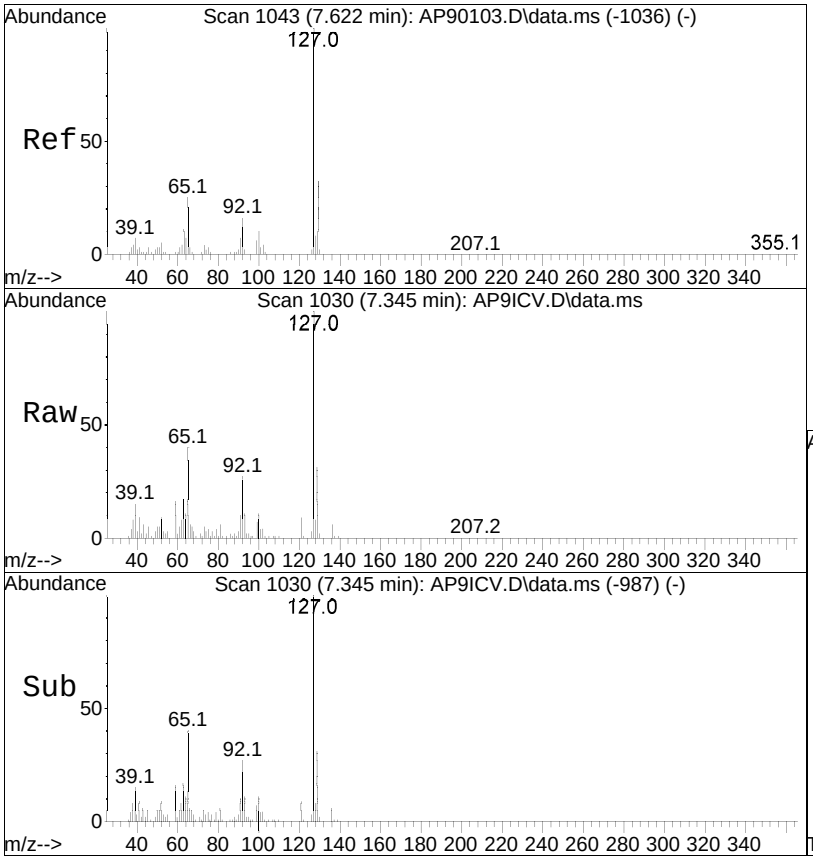


#55
a-Terpineol
Concen: 5.01 ug/ml
RT: 7.334 min Scan# 1028
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion: 59 Resp: 83487

Ion	Ratio	Lower	Upper
59	100		
93	58.5	35.6	53.4#

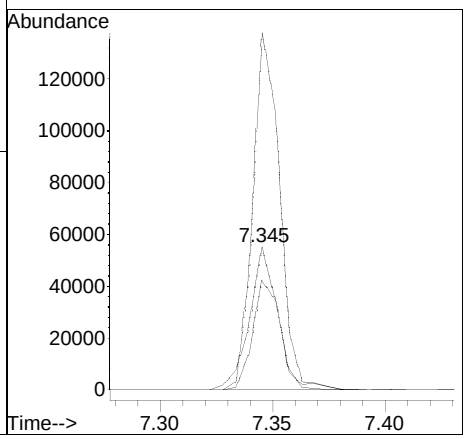


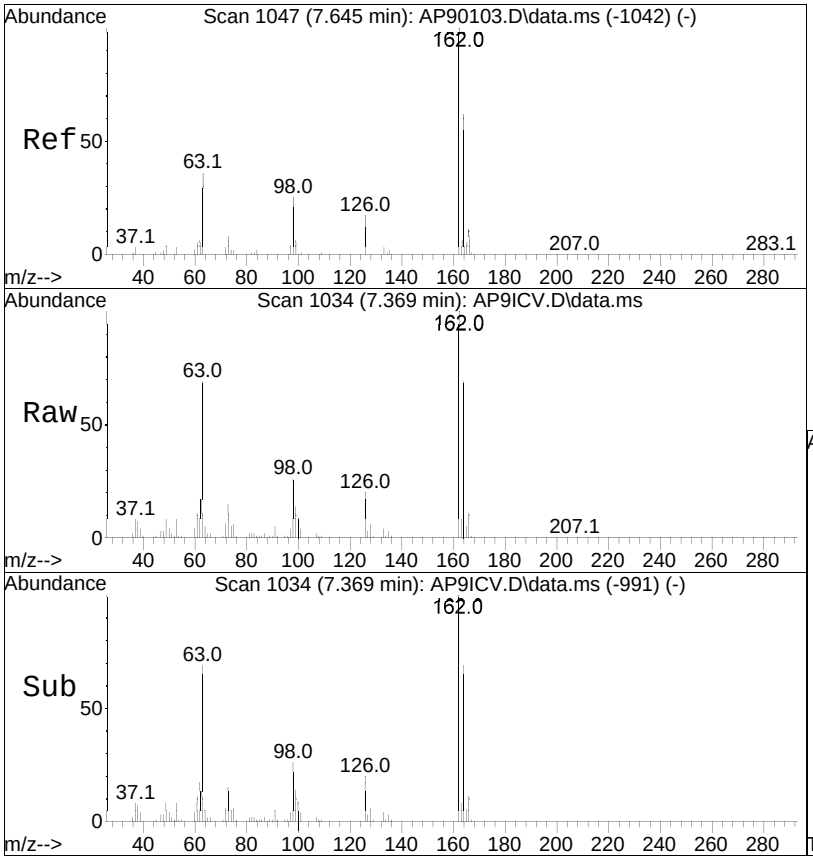


#56
3-Chloroaniline
Concen: 5.25 ug/ml
RT: 7.345 min Scan# 1030
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion: 65 Resp: 48016

Ion	Ratio	Lower	Upper
65	100		
127	236.0	243.2	364.8#
129	74.9	78.8	118.2#

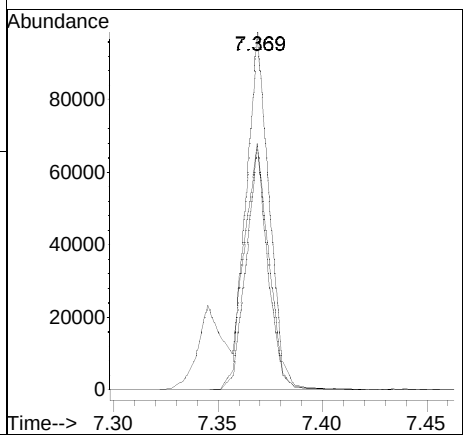


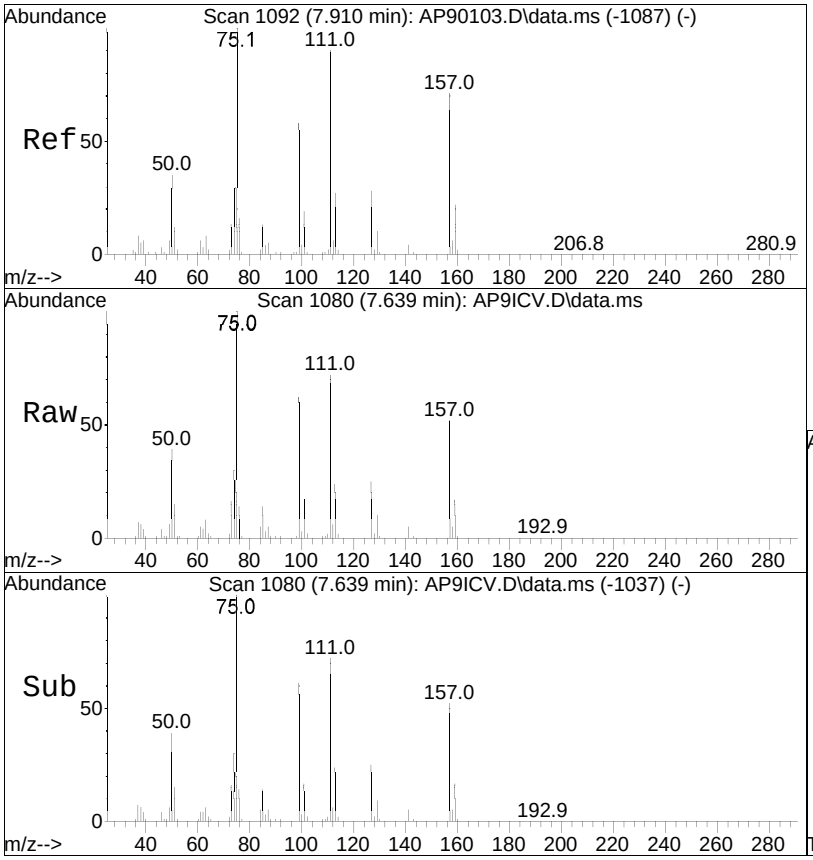


#57
2,6-Dichlorophenol
Concen: 4.99 ug/ml
RT: 7.369 min Scan# 1034
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:162 Resp: 75437

Ion	Ratio	Lower	Upper
162	100		
164	67.0	51.1	76.7
63	95.1	60.8	91.2#

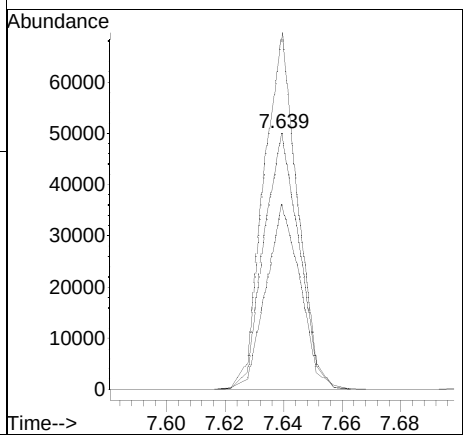


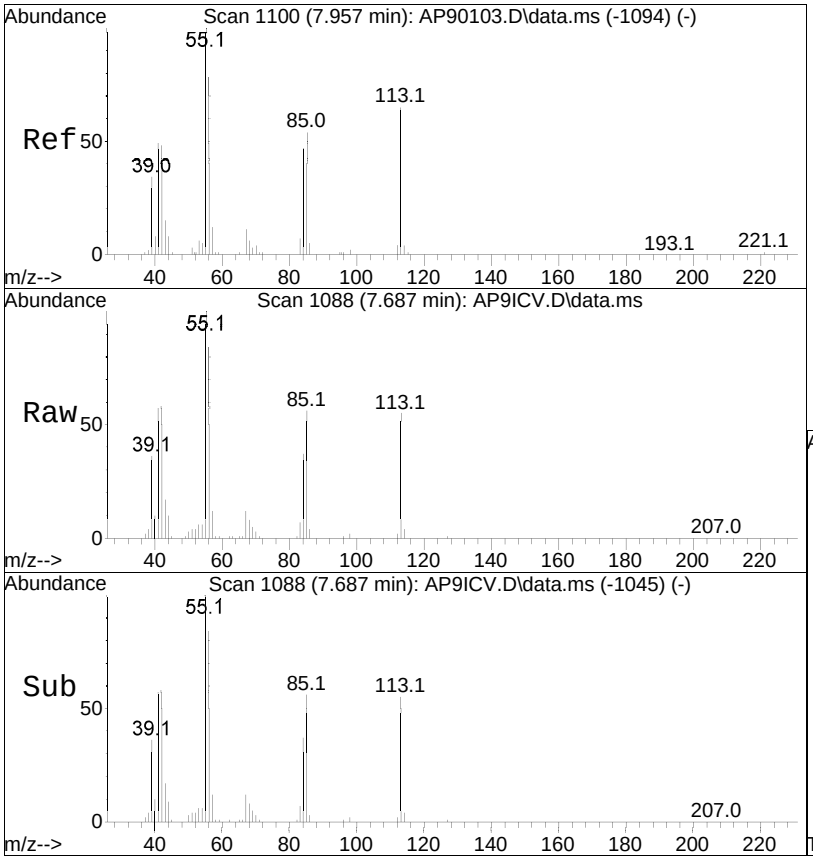


#58
1-chloro-2-nitrobenzene
Concen: 4.80 ug/ml
RT: 7.639 min Scan# 1080
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:111 Resp: 41559

Ion	Ratio	Lower	Upper
111	100		
157	70.9	0.0	0.0#
75	134.1	28.2	42.2#

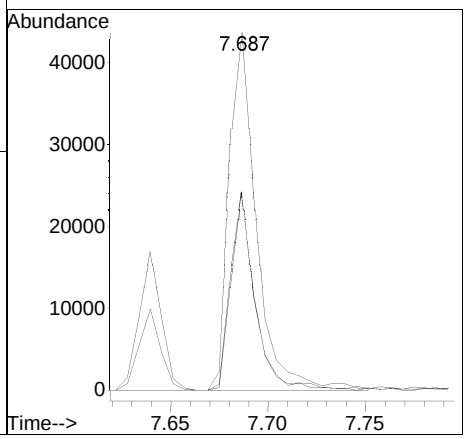


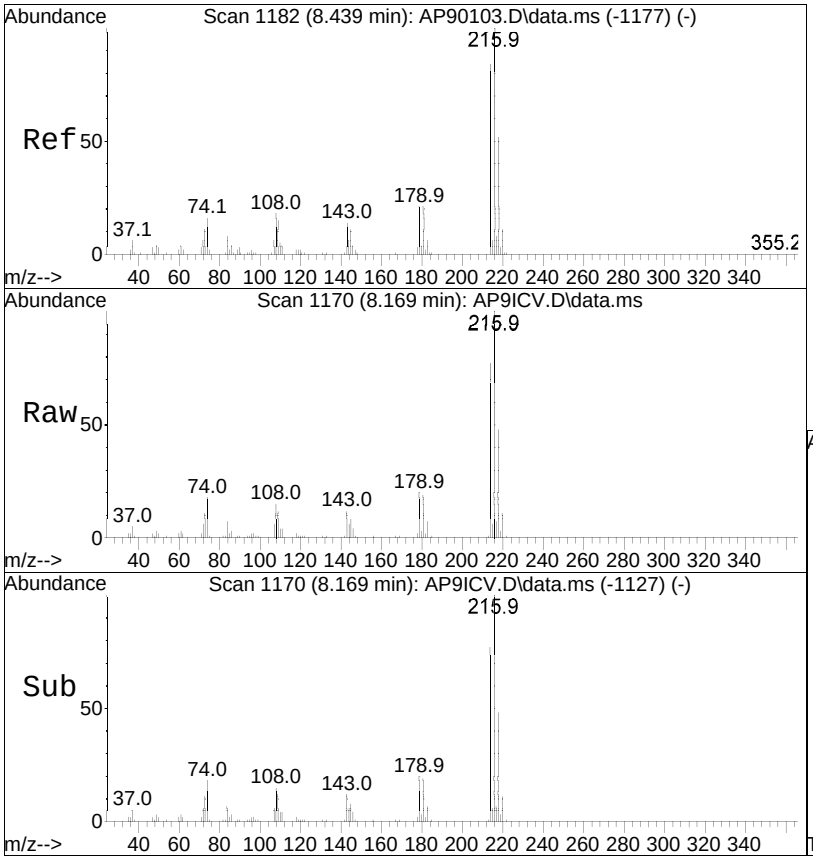


#59
Caprolactam
Concen: 4.79 ug/ml
RT: 7.687 min Scan# 1088
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion: 55 Resp: 42552

Ion	Ratio	Lower	Upper
55	100		
85	49.3	19.8	29.6#
113	48.1	29.6	44.4#

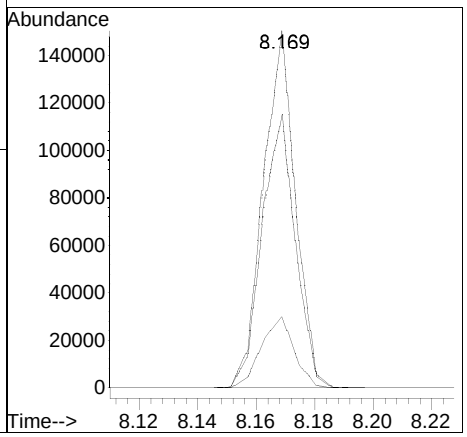


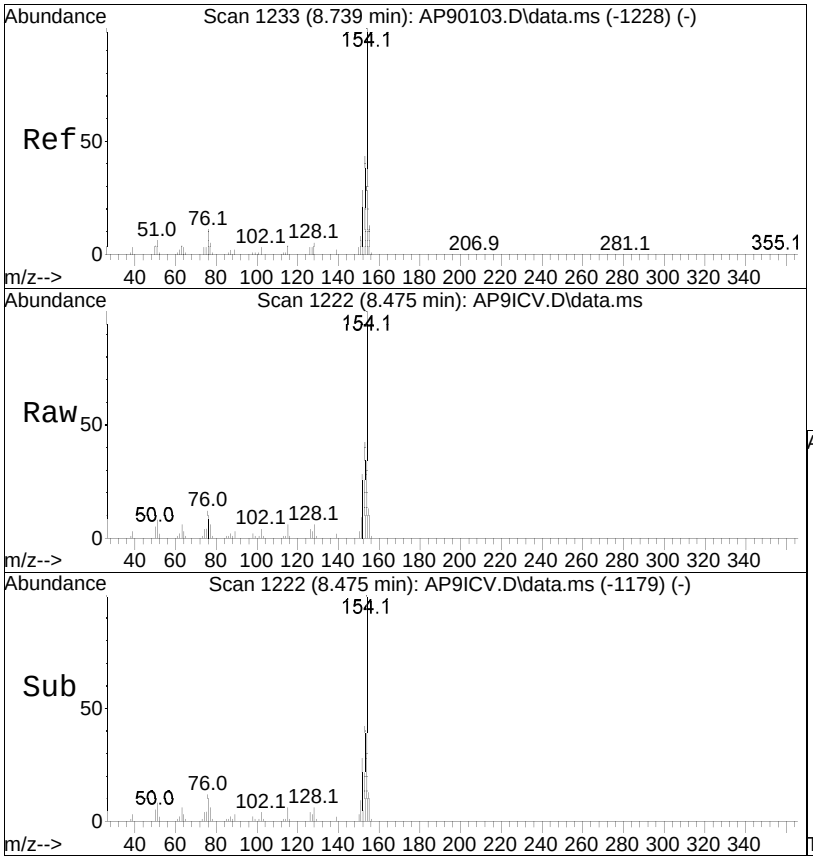


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.93 ug/ml
RT: 8.169 min Scan# 1170
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:216 Resp: 114602

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	20.6	19.0	28.6

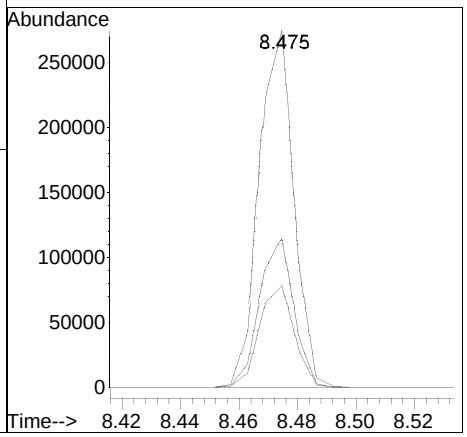


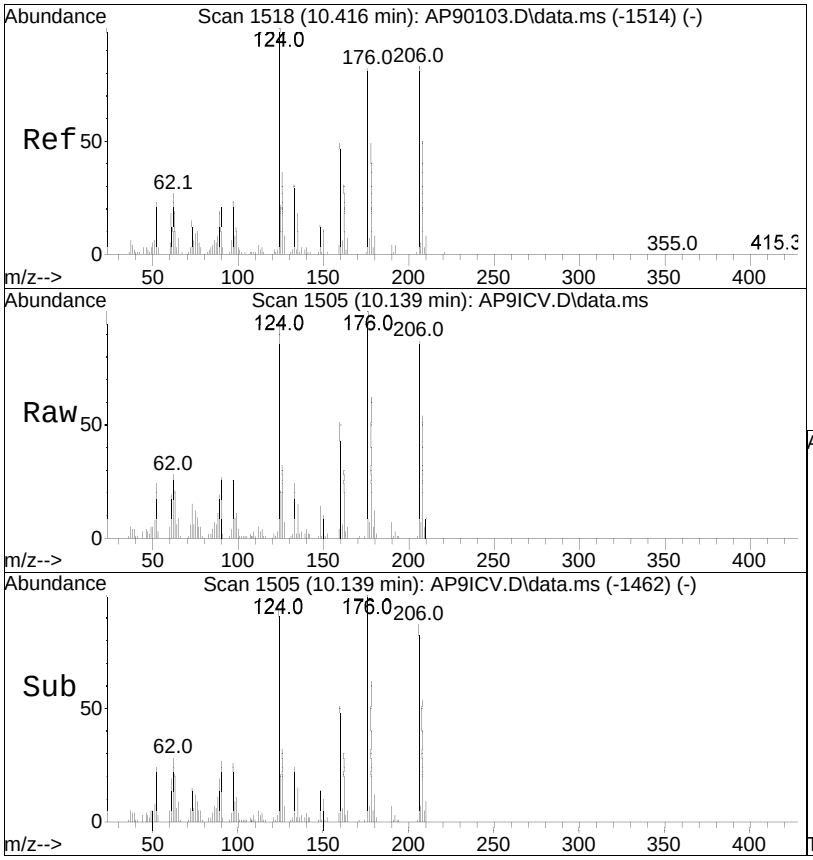


#61
Biphenyl
Concen: 4.96 ug/ml
RT: 8.475 min Scan# 1222
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:154 Resp: 225797

Ion	Ratio	Lower	Upper
154	100		
153	41.4	32.3	48.5
152	28.9	22.5	33.7

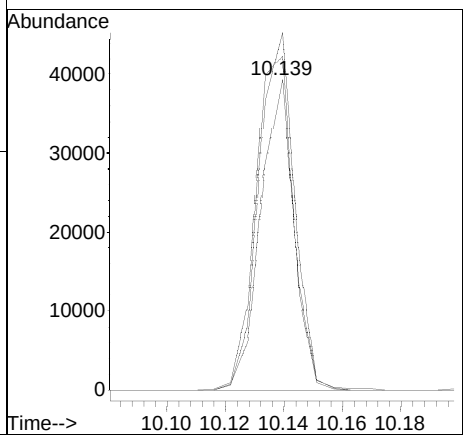


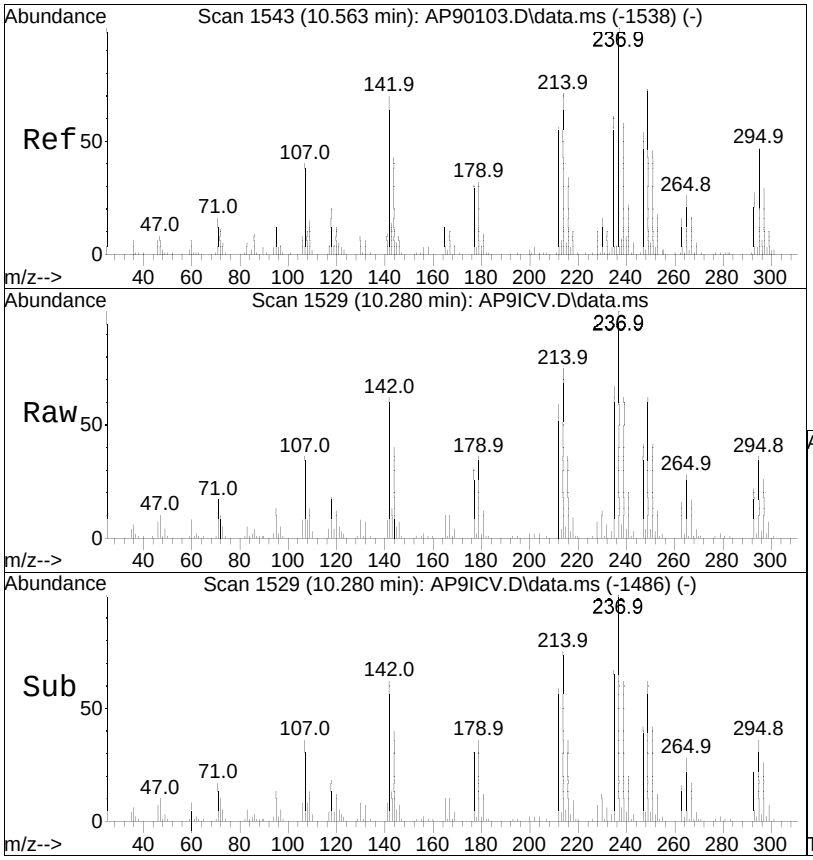


#83
Dichloran
Concen: 5.05 ug/ml
RT: 10.139 min Scan# 1505
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:206 Resp: 31296

Ion	Ratio	Lower	Upper
206	100		
176	123.1	104.6	157.0
124	120.6	130.5	195.7#

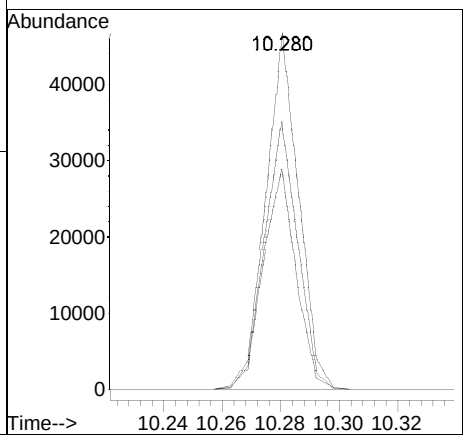


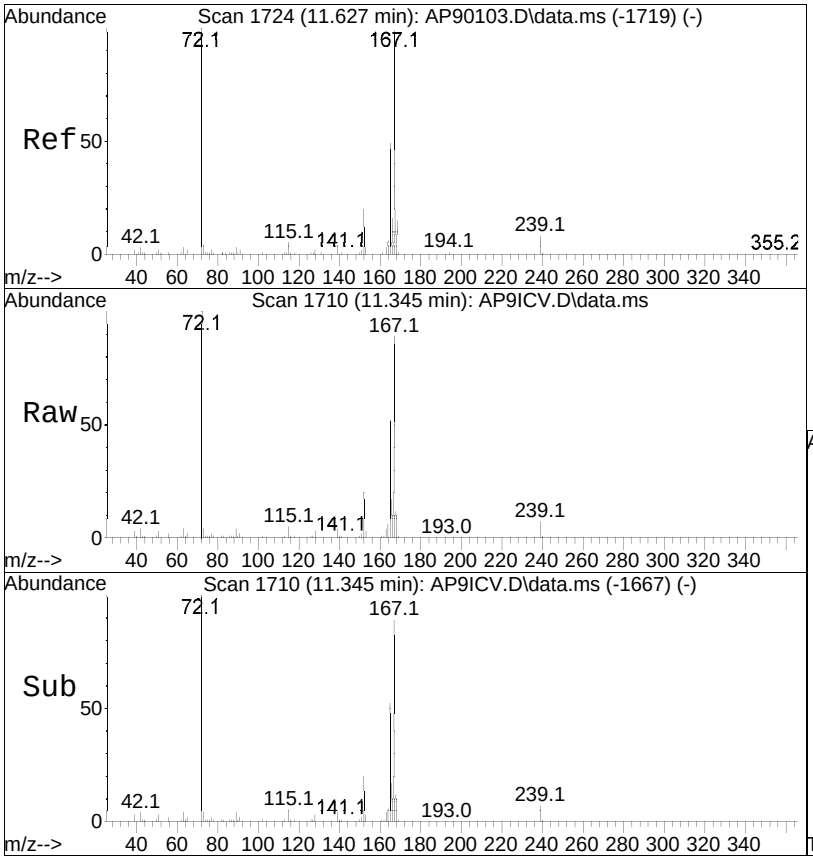


#84
Pentachloronitrobenzene
Concen: 4.85 ug/ml
RT: 10.280 min Scan# 1529
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:237 Resp: 36455

Ion	Ratio	Lower	Upper
237	100		
142	62.0	77.0	115.4#
214	75.6	58.2	87.4

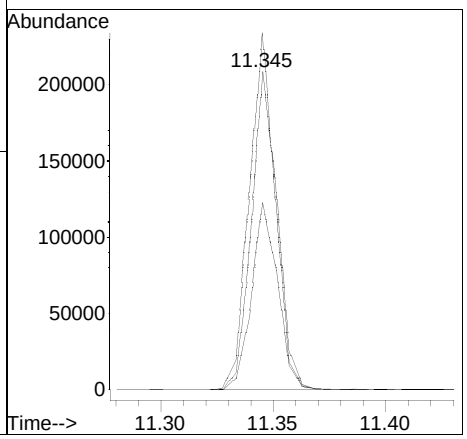




#98
Diphenamid
Concen: 5.13 ug/ml
RT: 11.345 min Scan# 1710
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:167 Resp: 166892

Ion	Ratio	Lower	Upper
167	100		
72	111.9	109.7	164.5
165	59.8	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9ICV.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 4:29 am	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 4/19/2024 1:48 pm

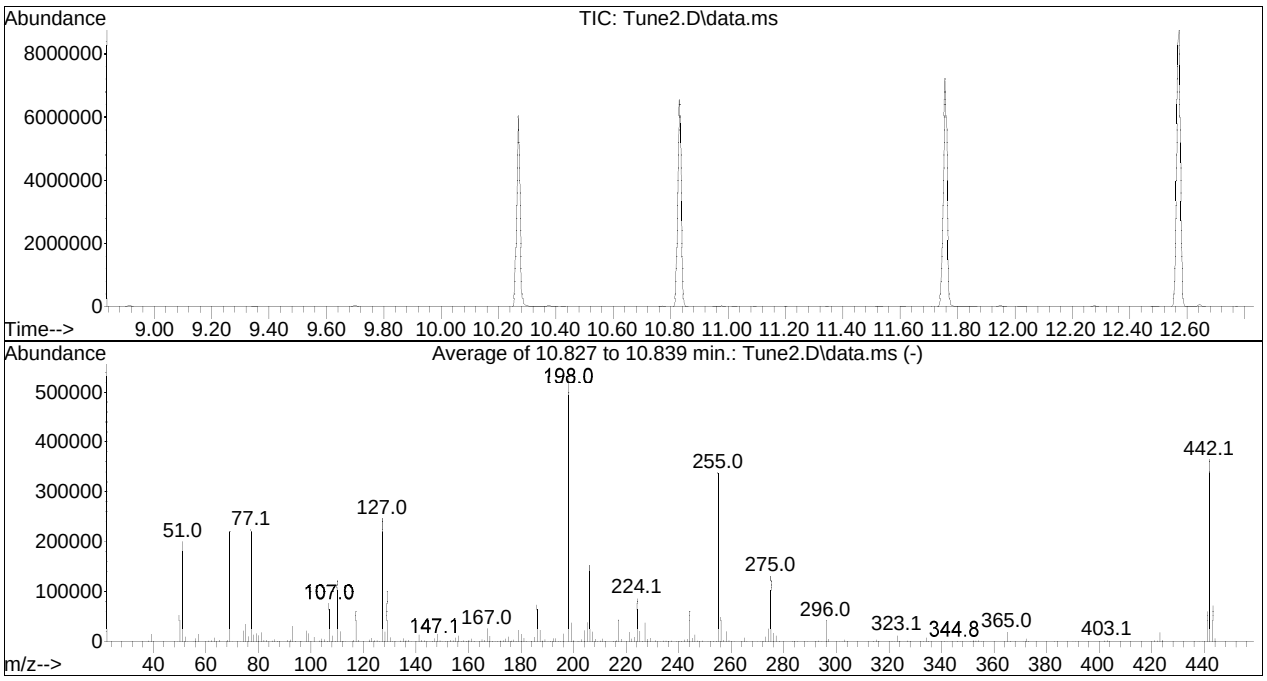
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024



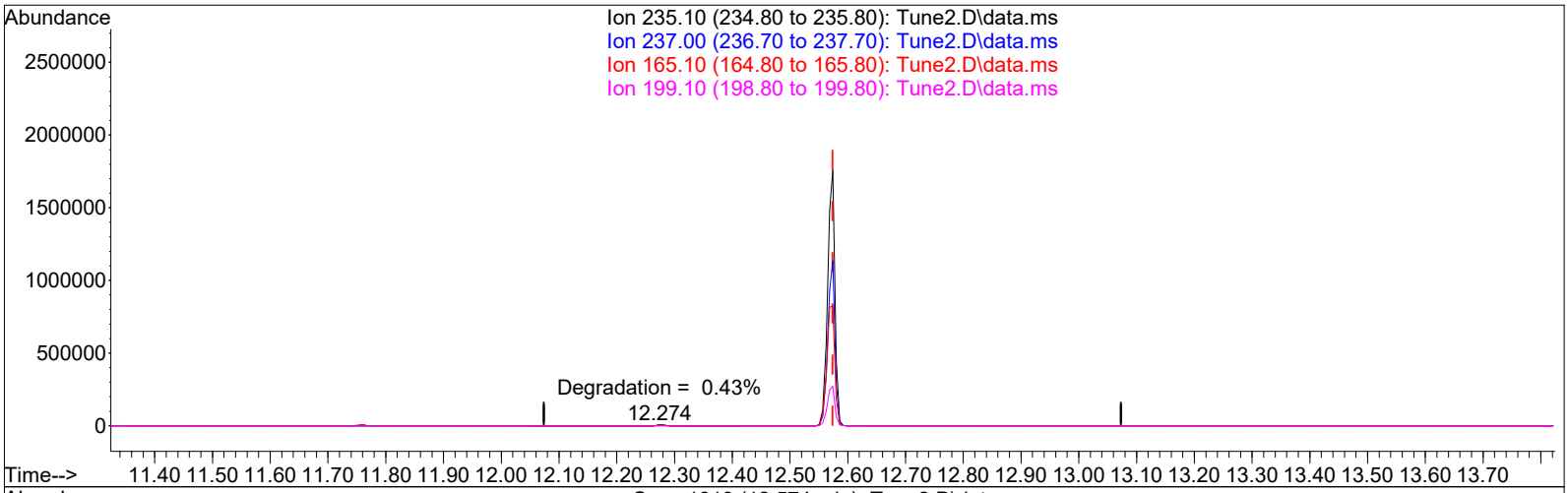
Spectrum Information: Average of 10.827 to 10.839 min.

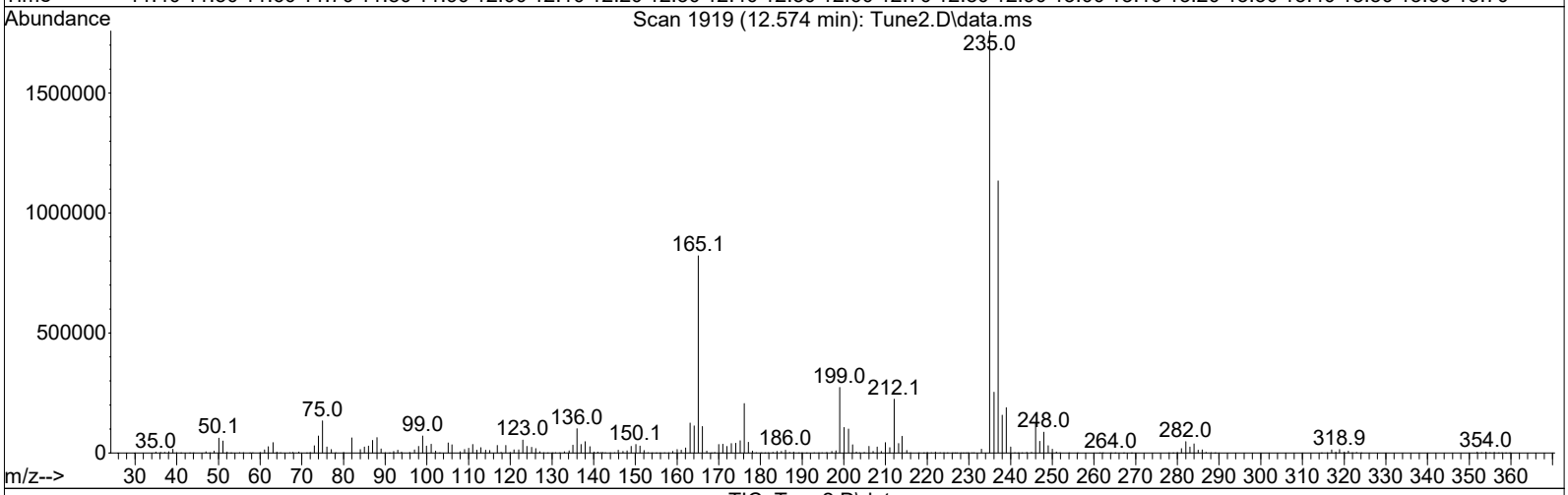
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.7	199415	PASS
68	69	0.00	2	1.6	3533	PASS
69	69	100	100	100.0	220931	PASS
70	69	0.00	2	0.5	1068	PASS
127	198	10	80	46.4	245512	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	528875	PASS
199	198	5	9	6.7	35349	PASS
275	198	10	60	24.7	130384	PASS
365	198	1	100	3.5	18374	PASS
441	442	0.01	24	16.1	58576	PASS
442	198	50	100	68.8	363989	PASS
443	442	15	24	19.5	70851	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:26:57 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(6) DDT (T)

12.574min (+ 0.000) 254.83

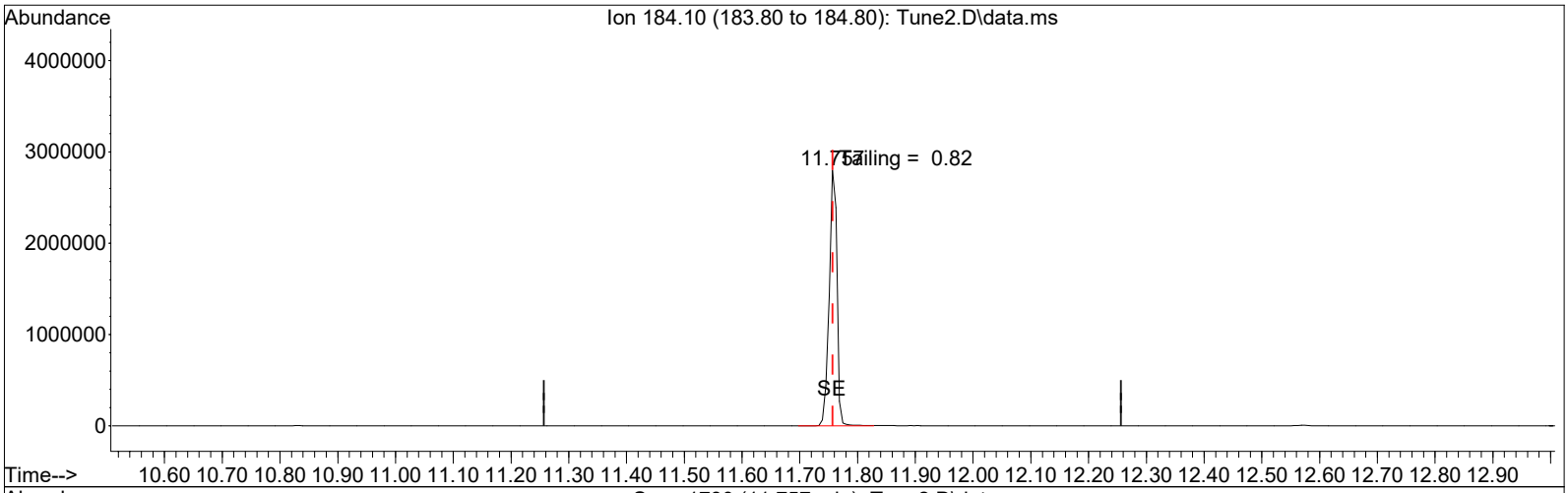
response 1553404

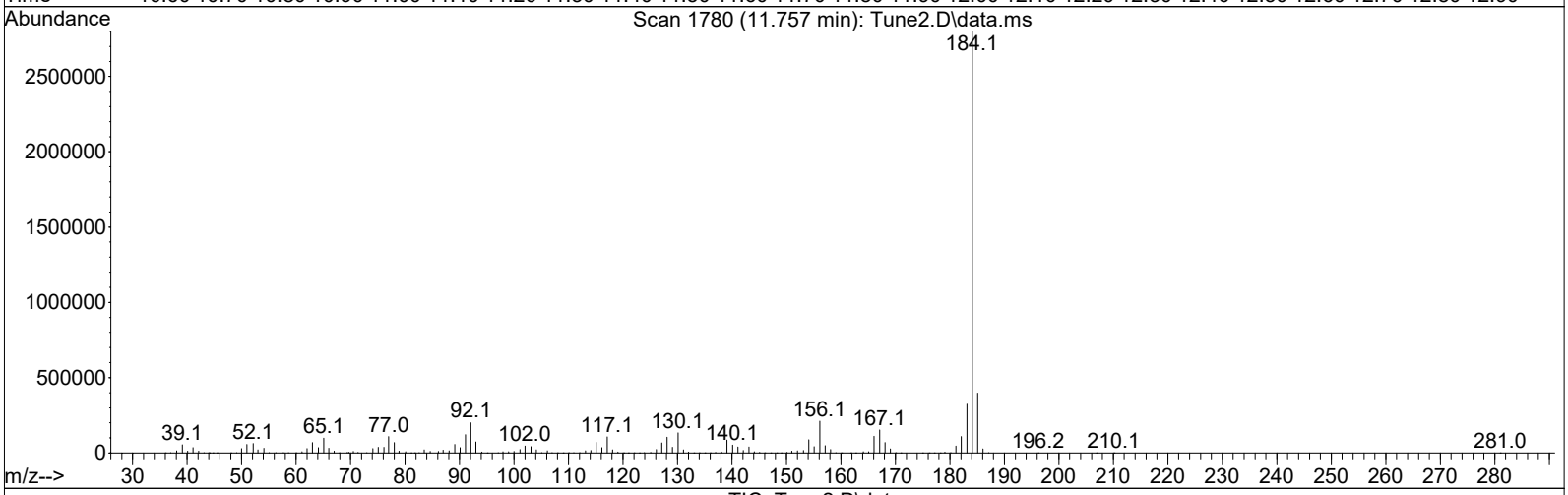
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.70
165.10	44.50	50.95
199.10	14.80	16.29

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:26:57 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(3) Benzidine (T)

11.757min (-0.000) 260.34

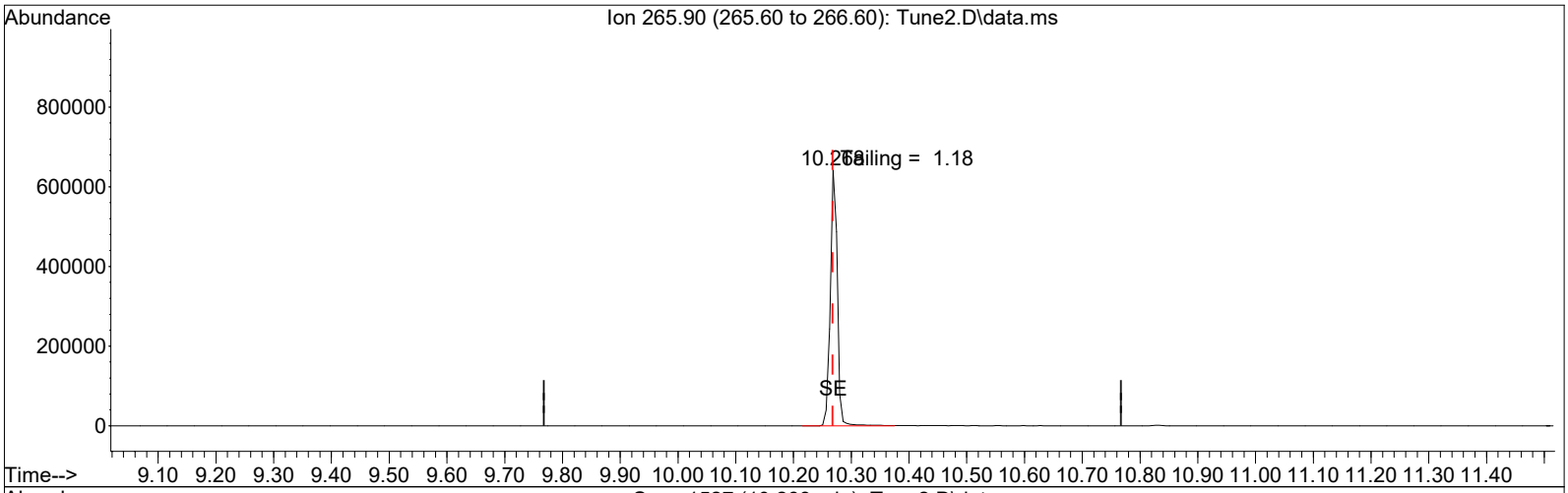
response 2650247

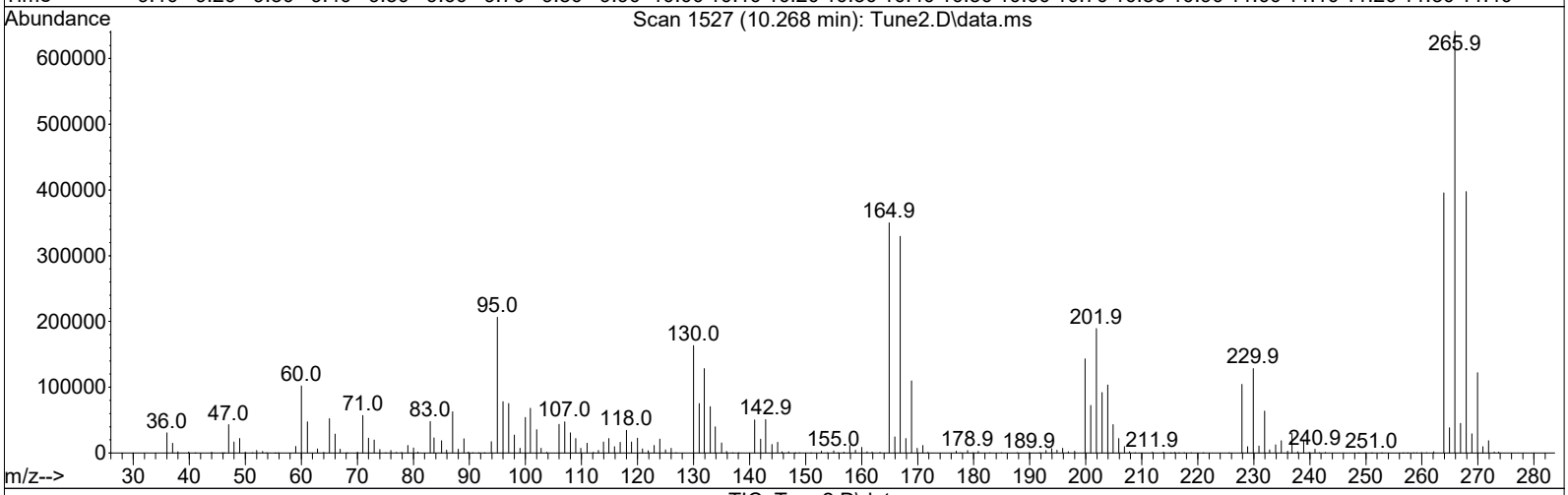
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:26:57 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(1) Pentachlorophenol (T)

10.268min (+ 0.000) 257.59

response 541026

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL9.D
Acq On : 19 Apr 2024 5:17 am
Operator : SV106:cmm
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1911693,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 22 14:01:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	57527	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 94.59%			
85) IS3_Acenaphthene-d10	9.004	164	137803	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 97.66%			
99) IS3_Phenanthrene-d10	10.422	188	302664	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 94.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	1108246	50.124	ug/ml#	39
86) Atrazine	10.251	200	786578	56.670	ug/ml	94
100) n-Octadecane	10.457	57	1824251	54.816	ug/ml#	1
101) Parathion	11.239	109	569420	62.422	ug/ml	94
102) 3,3'-Dimethylbenzidine	12.474	212	3431822	53.068	ug/ml	99

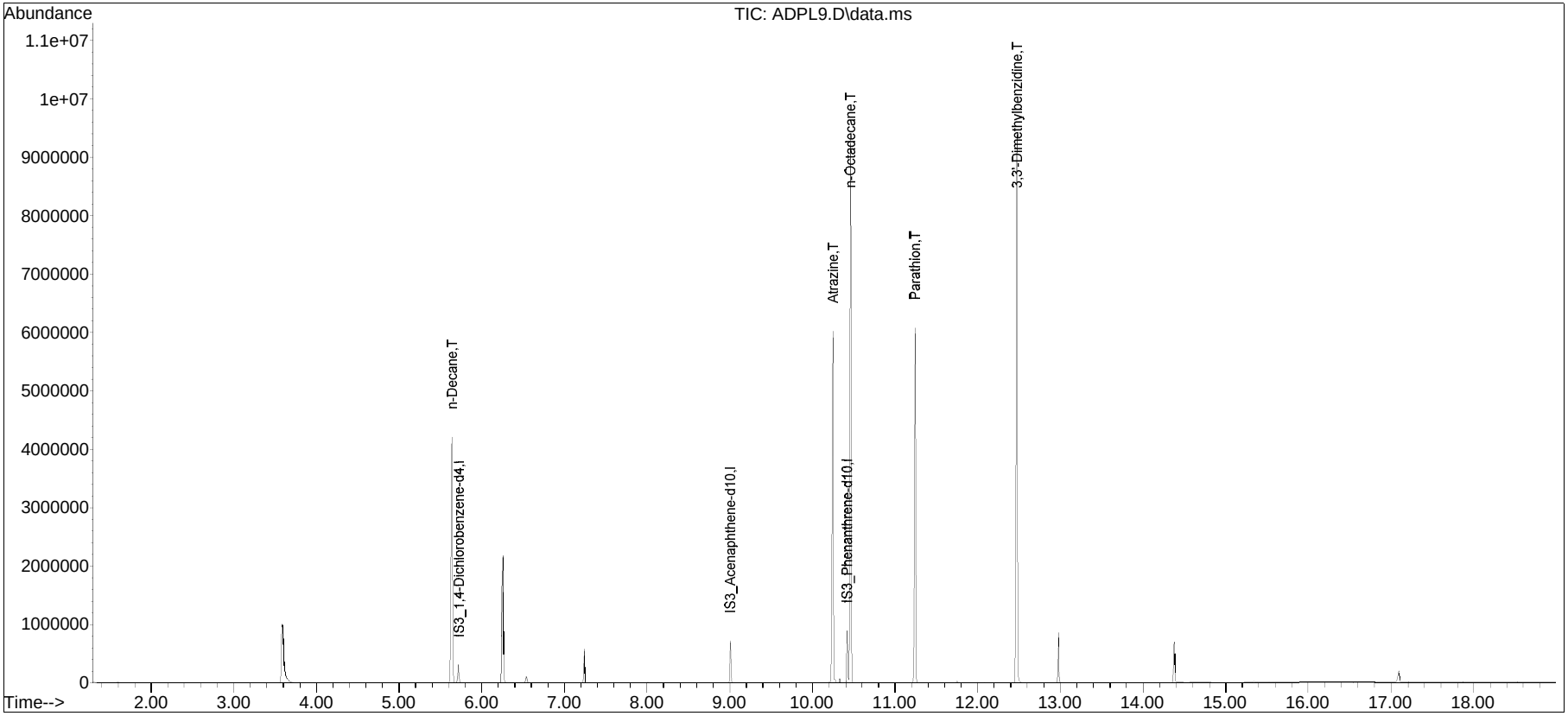
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL9.D
Acq On : 19 Apr 2024 5:17 am
Operator : SV106:cmm
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1911693,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 22 14:01:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL9.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 5:17 am	Instrument	: SV 106
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 4/22/2024 2:01 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL8.D
Acq On : 19 Apr 2024 5:41 am
Operator : SV106:cmm
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1911693,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 22 14:01:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	61971	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	101.90%		
85) IS3_Acenaphthene-d10	9.004	164	152721	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	108.23%		
99) IS3_Phenanthrene-d10	10.422	188	341854	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	106.88%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	577196	24.233	ug/ml#	38
86) Atrazine	10.245	200	417234	27.124	ug/ml	93
100) n-Octadecane	10.457	57	970659	25.823	ug/ml#	1
101) Parathion	11.233	109	284779	27.640	ug/ml	93
102) 3,3'-Dimethylbenzidine	12.469	212	1729166	23.882	ug/ml	99

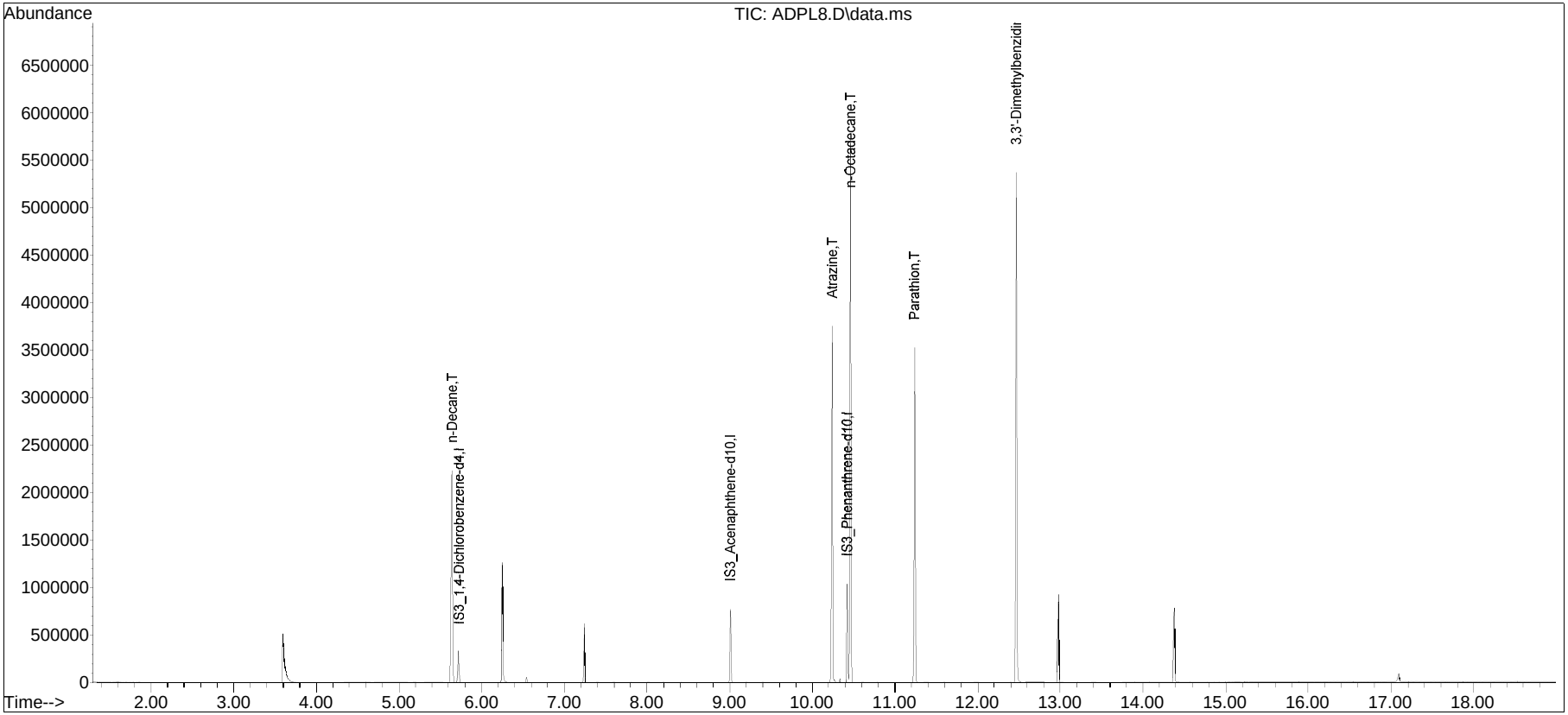
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL8.D
Acq On : 19 Apr 2024 5:41 am
Operator : SV106:cmm
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1911693,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 22 14:01:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL8.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 5:41 am	Instrument	: SV 106
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 4/22/2024 2:01 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL7.D
Acq On : 19 Apr 2024 6:05 am
Operator : SV106:cmm
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1911693,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 22 14:01:00 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	62281	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	102.41%		
85) IS3_Acenaphthene-d10	9.004	164	151078	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	107.07%		
99) IS3_Phenanthrene-d10	10.421	188	345180	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	107.92%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.639	57	226249	9.452	ug/ml#	38
86) Atrazine	10.239	200	163112	10.719	ug/ml	93
100) n-Octadecane	10.457	57	381258	10.045	ug/ml#	1
101) Parathion	11.233	109	106248	10.213	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.462	212	637673	8.961	ug/ml	99

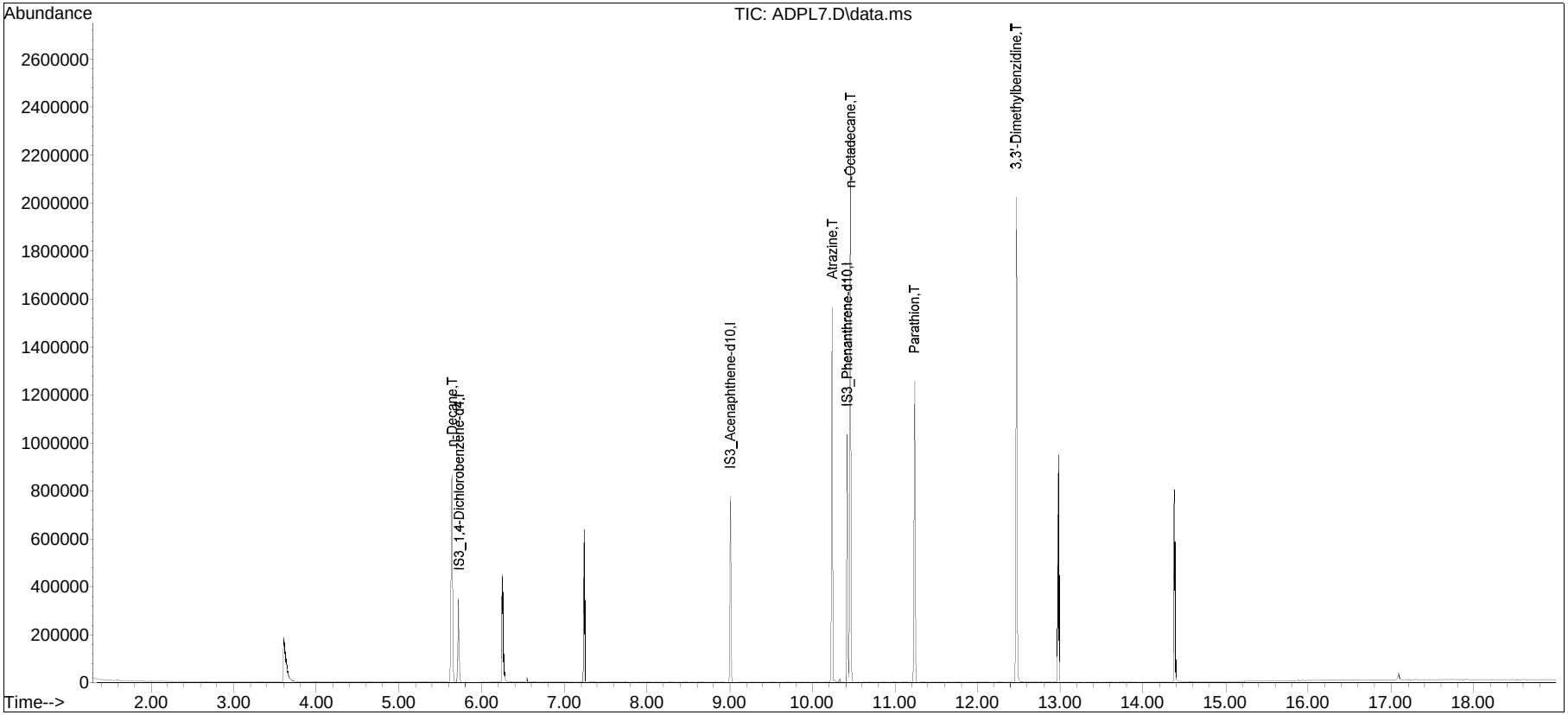
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL7.D
Acq On : 19 Apr 2024 6:05 am
Operator : SV106:cmm
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1911693,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 22 14:01:00 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL7.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 6:05 am	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 4/22/2024 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL6.D
Acq On : 19 Apr 2024 6:29 am
Operator : SV106:cmm
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1911693,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 22 14:00:49 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	60814	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.004	164	141108	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	10.422	188	319847	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	107924	4.617	ug/ml#	39
86) Atrazine	10.233	200	69241	4.872	ug/ml	94
100) n-Octadecane	10.457	57	173056	4.921	ug/ml#	1
101) Parathion	11.227	109	43290	4.491	ug/ml	91
102) 3,3'-Dimethylbenzidine	12.463	212	264245	4.215	ug/ml	99

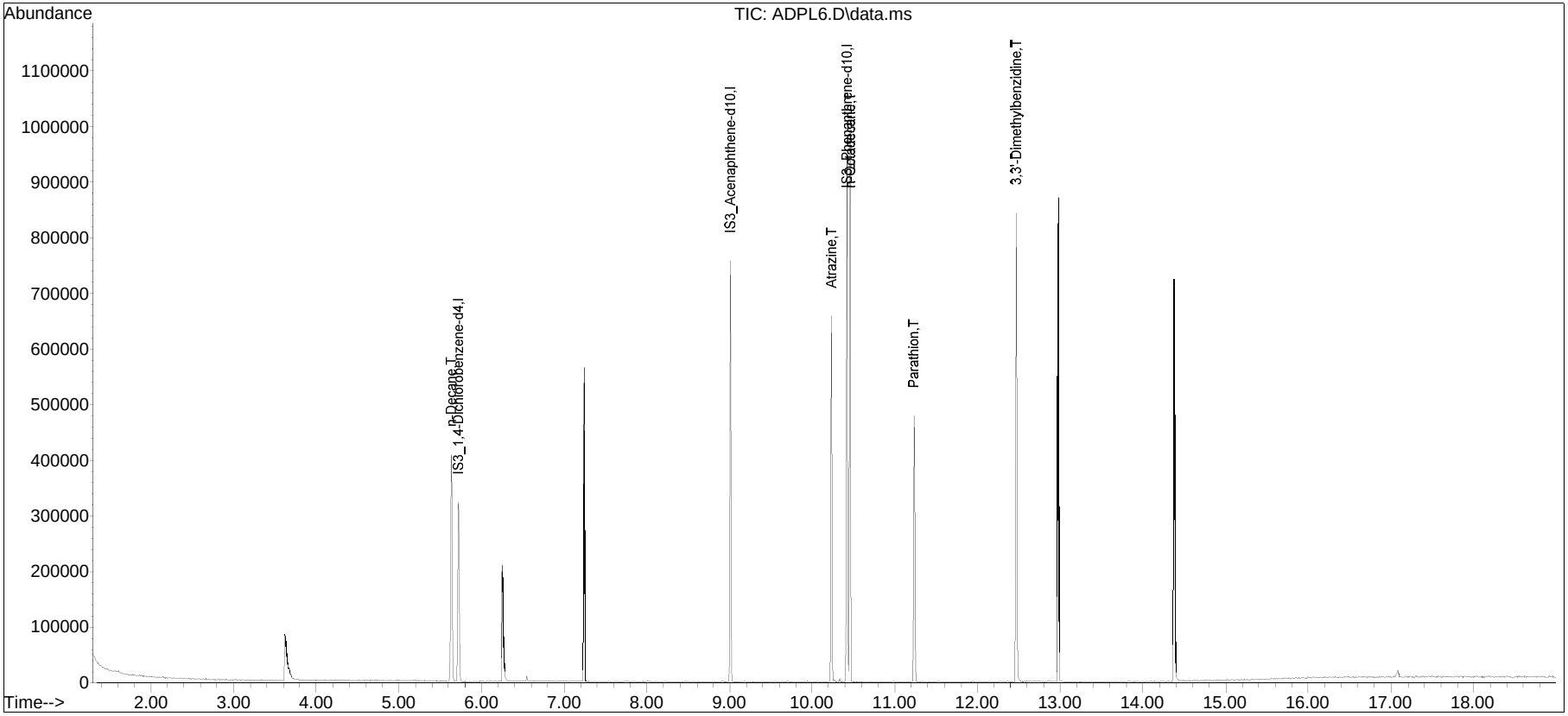
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL6.D
Acq On : 19 Apr 2024 6:29 am
Operator : SV106:cmm
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1911693,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 22 14:00:49 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL6.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 6:29 am	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 4/22/2024 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL5.D
Acq On : 19 Apr 2024 6:52 am
Operator : SV106:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1911693,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 22 14:00:38 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	60499	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 99.48%			
85) IS3_Acenaphthene-d10	9.004	164	138965	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 98.48%			
99) IS3_Phenanthrene-d10	10.422	188	303909	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 95.02%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	52669	2.265	ug/ml#	39
86) Atrazine	10.233	200	33651	2.404	ug/ml	91
100) n-Octadecane	10.457	57	82445	2.467	ug/ml#	1
101) Parathion	11.227	109	19678	2.148	ug/ml	92
102) 3,3'-Dimethylbenzidine	12.463	212	114181	2.122	ug/ml	99

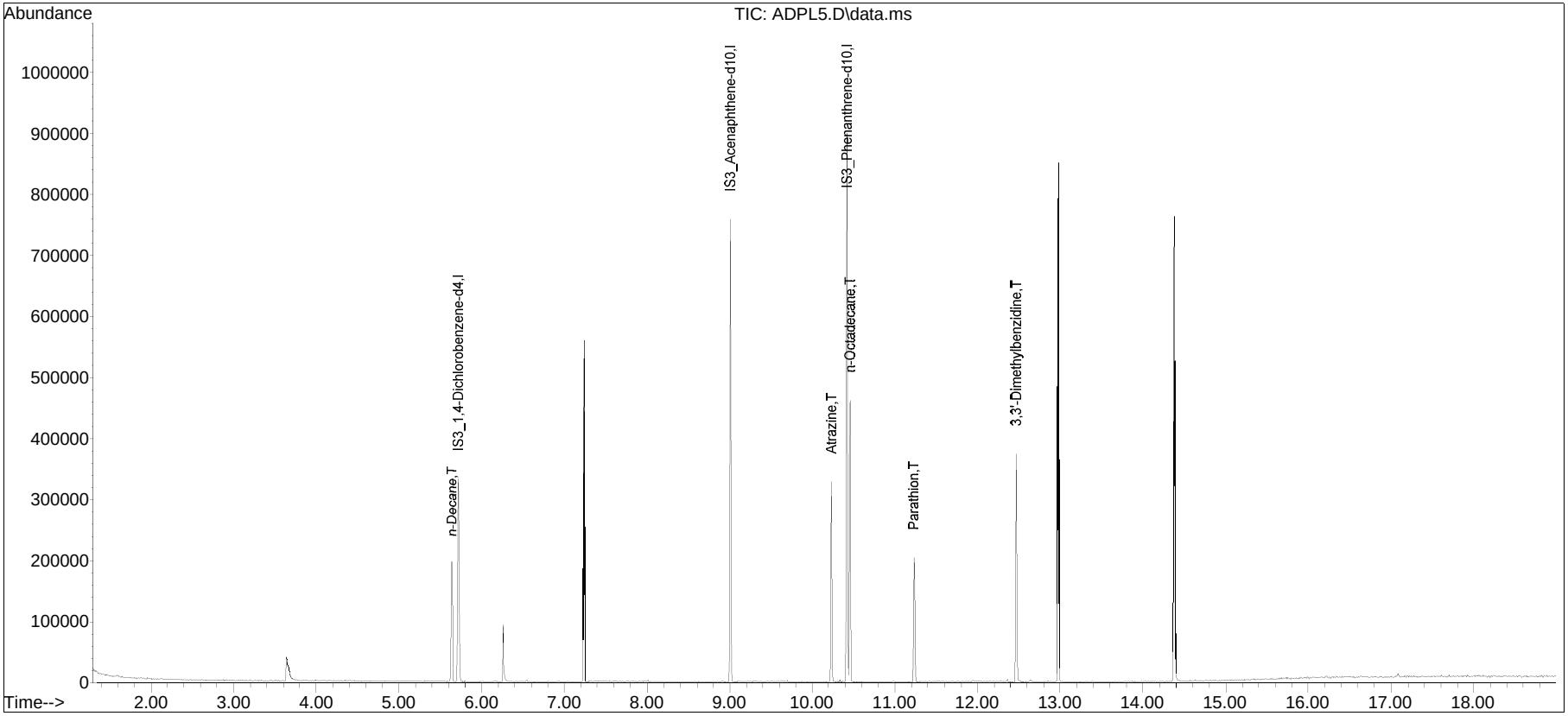
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL5.D
Acq On : 19 Apr 2024 6:52 am
Operator : SV106:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1911693,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 22 14:00:38 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL5.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 6:52 am	Instrument	: SV 106
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 4/22/2024 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL4.D
Acq On : 19 Apr 2024 7:16 am
Operator : SV106:cmm
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1911693,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 22 14:00:26 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	61116	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	100.50%		
85) IS3_Acenaphthene-d10	9.004	164	140850	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	99.82%		
99) IS3_Phenanthrene-d10	10.422	188	316520	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	98.96%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	24838	1.057	ug/ml#	39
86) Atrazine	10.233	200	15433	1.088	ug/ml	98
100) n-Octadecane	10.457	57	39542	1.136	ug/ml#	1
101) Parathion	11.227	109	9823	1.030	ug/ml#	93
102) 3,3'-Dimethylbenzidine	12.463	212	49877	1.108	ug/ml	99

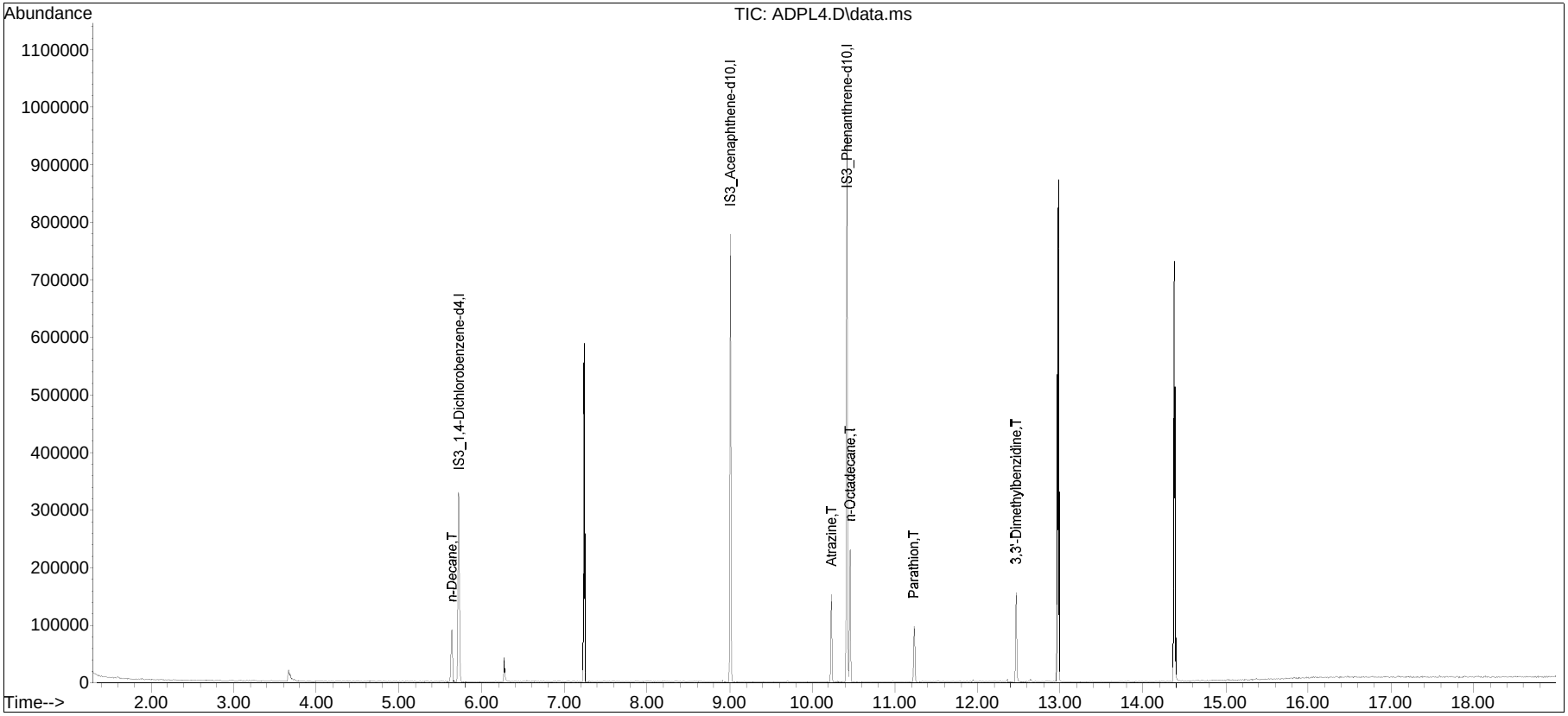
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL4.D
Acq On : 19 Apr 2024 7:16 am
Operator : SV106:cmm
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1911693,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 22 14:00:26 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL4.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 7:16 am	Instrument	: SV 106
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 4/22/2024 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL3.D
Acq On : 19 Apr 2024 7:40 am
Operator : SV106:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1911693,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 22 14:00:16 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	55261	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 90.87%			
85) IS3_Acenaphthene-d10	9.004	164	123031	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 87.19%			
99) IS3_Phenanthrene-d10	10.422	188	282776	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 88.41%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	11358	0.535	ug/ml#	45
86) Atrazine	10.233	200	5728	0.462	ug/ml#	88
100) n-Octadecane	10.457	57	12920	0.416	ug/ml#	1
101) Parathion	11.227	109	3569	0.419	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.463	212	16282	0.644	ug/ml	95

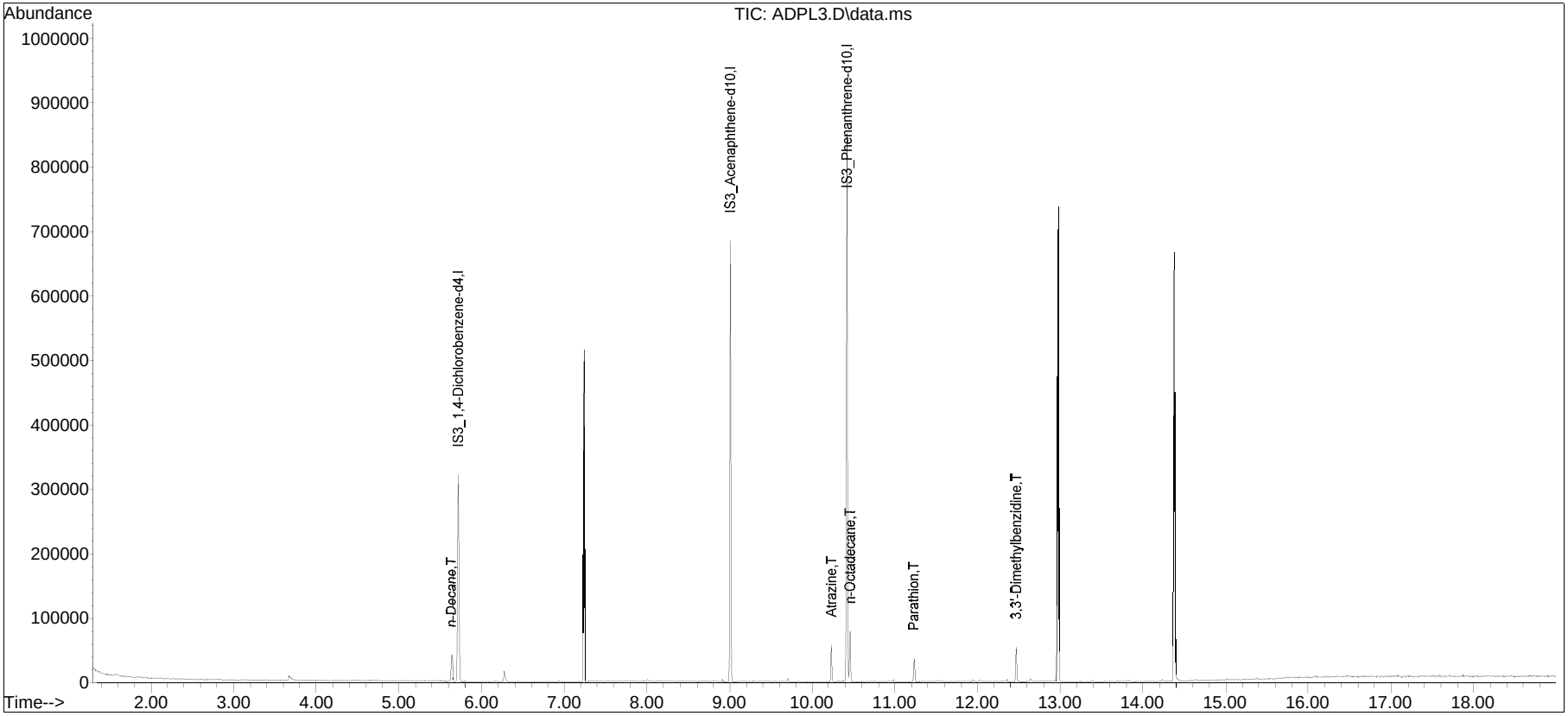
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL3.D
Acq On : 19 Apr 2024 7:40 am
Operator : SV106:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1911693,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 22 14:00:16 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL3.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 7:40 am	Instrument	: SV 106
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 4/22/2024 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL2.D
Acq On : 19 Apr 2024 8:04 am
Operator : SV106:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1911693,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 22 14:00:05 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	59214	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 97.37%			
85) IS3_Acenaphthene-d10	9.004	164	140157	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 99.33%			
99) IS3_Phenanthrene-d10	10.421	188	310785	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 97.17%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.639	57	4813	0.211	ug/ml#	45
86) Atrazine	10.233	200	2398	0.170	ug/ml	96
100) n-Octadecane	10.457	57	6732	0.197	ug/ml#	1
101) Parathion	11.227	109	1510	0.161	ug/ml#	68
102) 3,3'-Dimethylbenzidine	12.463	212	5843	0.463	ug/ml#	93

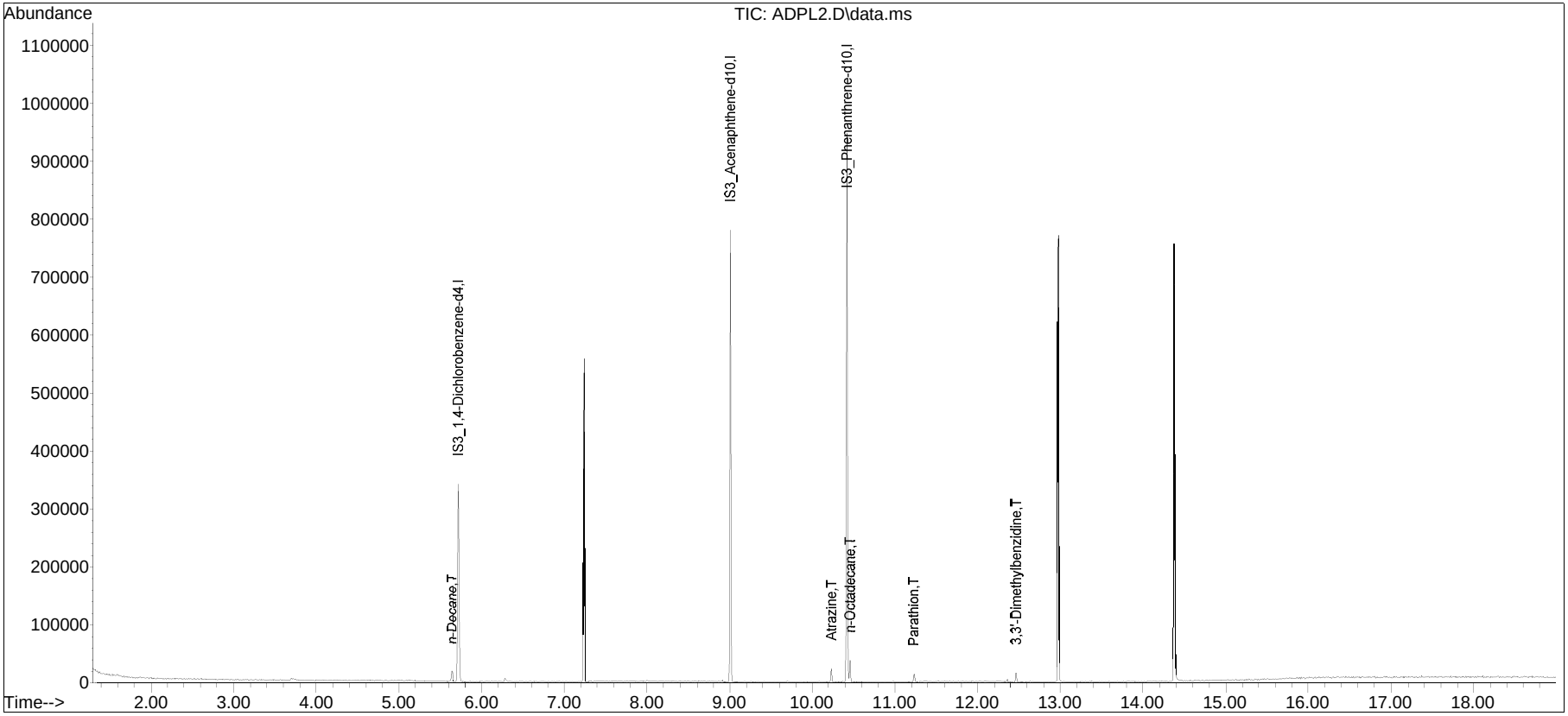
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL2.D
Acq On : 19 Apr 2024 8:04 am
Operator : SV106:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1911693,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 22 14:00:05 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL2.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 8:04 am	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 4/22/2024 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL1.D
Acq On : 19 Apr 2024 8:27 am
Operator : SV106:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1911693,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 22 13:59:54 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	57358	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 94.32%			
85) IS3_Acenaphthene-d10	9.004	164	130946	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 92.80%			
99) IS3_Phenanthrene-d10	10.422	188	297260	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 92.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	2357	0.107	ug/ml#	38
86) Atrazine	10.233	200	1203	0.091	ug/ml#	33
100) n-Octadecane	10.451	57	3082	0.094	ug/ml#	1
101) Parathion	11.227	109	790	0.088	ug/ml#	65
102) 3,3'-Dimethylbenzidine	12.463	212	2344	0.413	ug/ml#	62

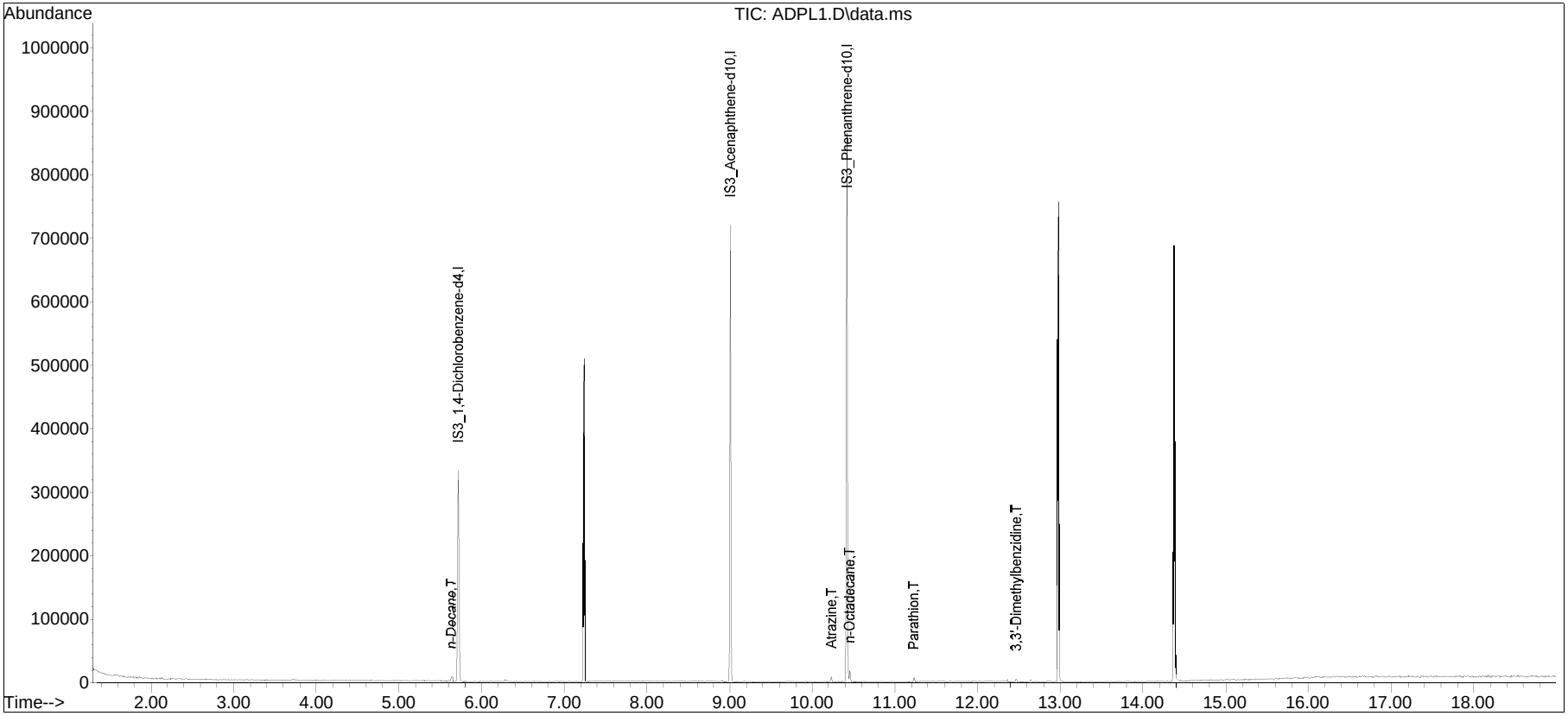
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL1.D
Acq On : 19 Apr 2024 8:27 am
Operator : SV106:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1911693,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 22 13:59:54 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL1.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 8:27 am	Instrument	: SV 106
Sample	: IL10,32,,ADPL0.1 Lot# 1071	Quant Date	: 4/22/2024 1:59 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPICV.D
Acq On : 19 Apr 2024 8:51 am
Operator : SV106:cmm
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1911693,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 22 13:59:44 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
33	T	n-Decane		1.537	1.472	4.2	96	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	97	0.00
86	T	Atrazine		0.403	0.352	12.7	87	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	94	0.00
100	T	n-Octadecane		0.440	0.425	3.4	93	0.00
101	T	Parathion		0.121	0.103	14.9	90	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	3.860	22.8#	86	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPICV.D
Acq On : 19 Apr 2024 8:51 am
Operator : SV106:cmm
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1911693,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 22 13:59:44 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	56052	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 92.17%			
85) IS3_Acenaphthene-d10	9.004	164	136265	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 96.57%			
99) IS3_Phenanthrene-d10	10.422	188	301444	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 94.25%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	103130	4.787	ug/ml#	40
86) Atrazine	10.233	200	59991	4.371	ug/ml	93
100) n-Octadecane	10.457	57	160135	4.831	ug/ml#	1
101) Parathion	11.227	109	38821	4.273	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.463	212	226005	3.860	ug/ml	99

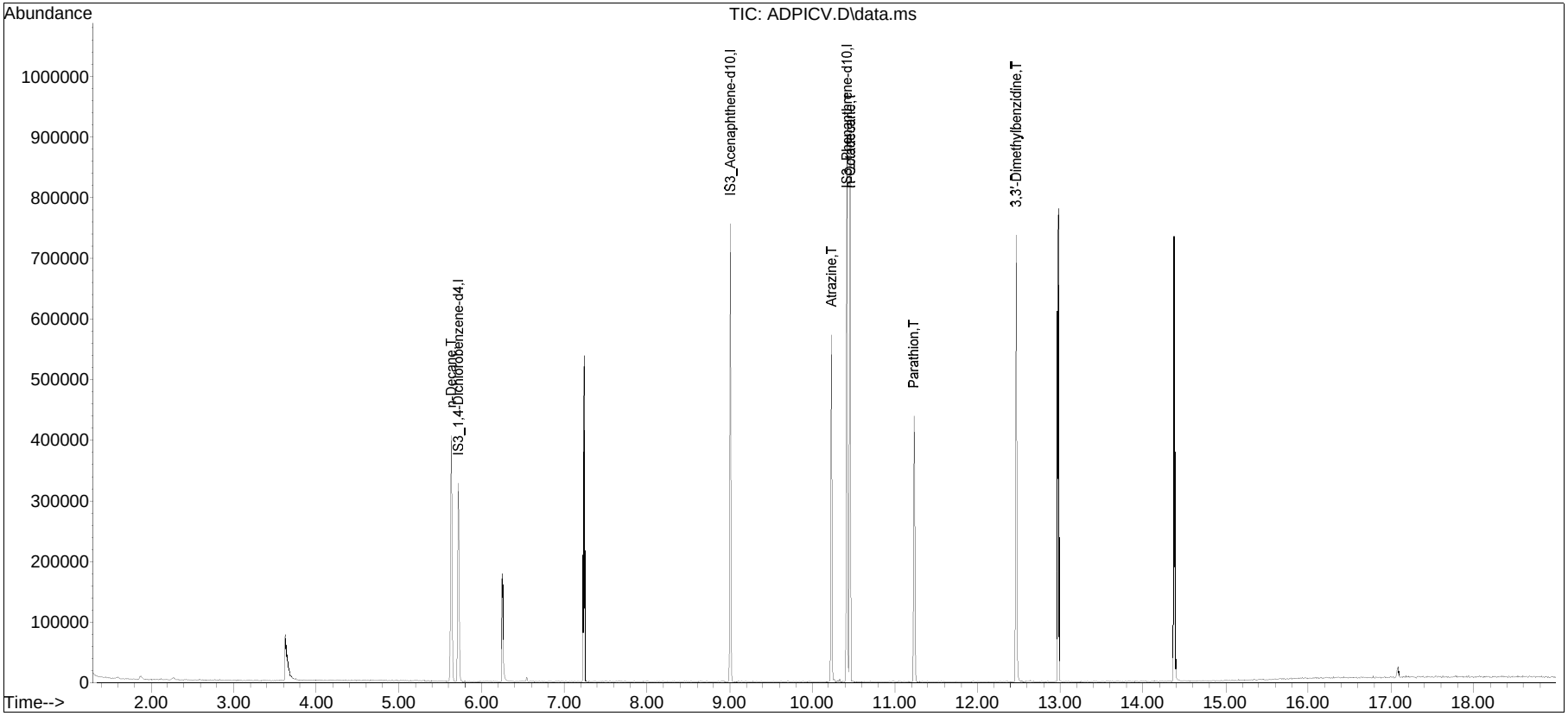
(#) = qualifier out of range (m) = manual integration (+) = signals summed

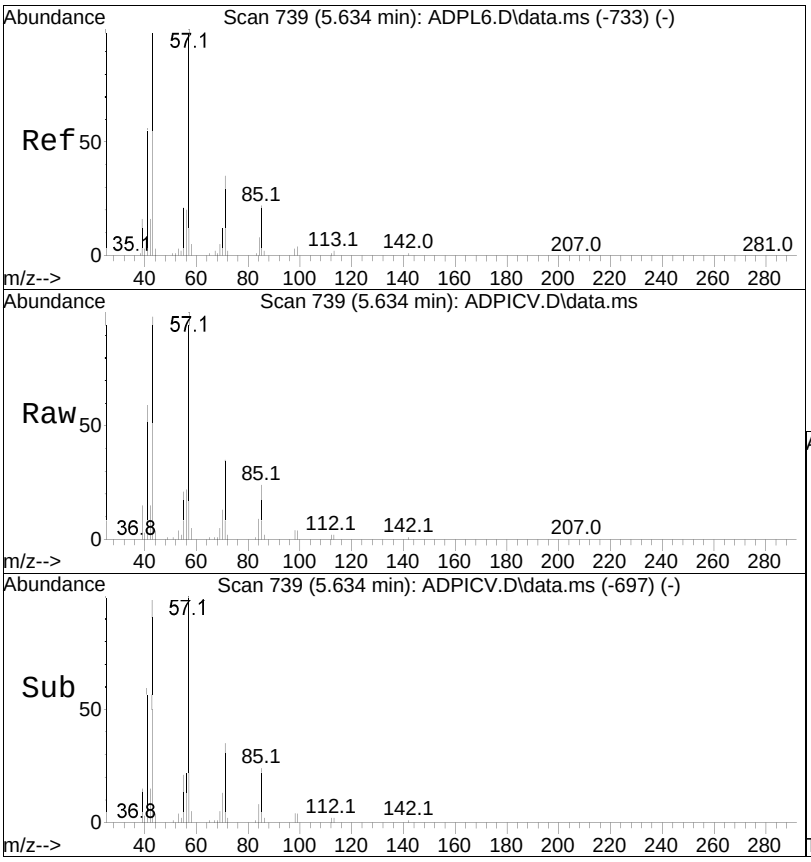
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPICV.D
Acq On : 19 Apr 2024 8:51 am
Operator : SV106:cmm
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1911693,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 22 13:59:44 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

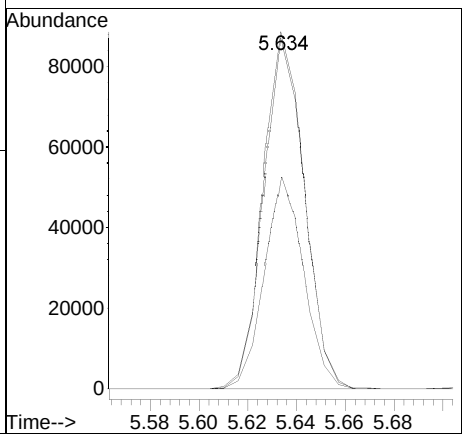


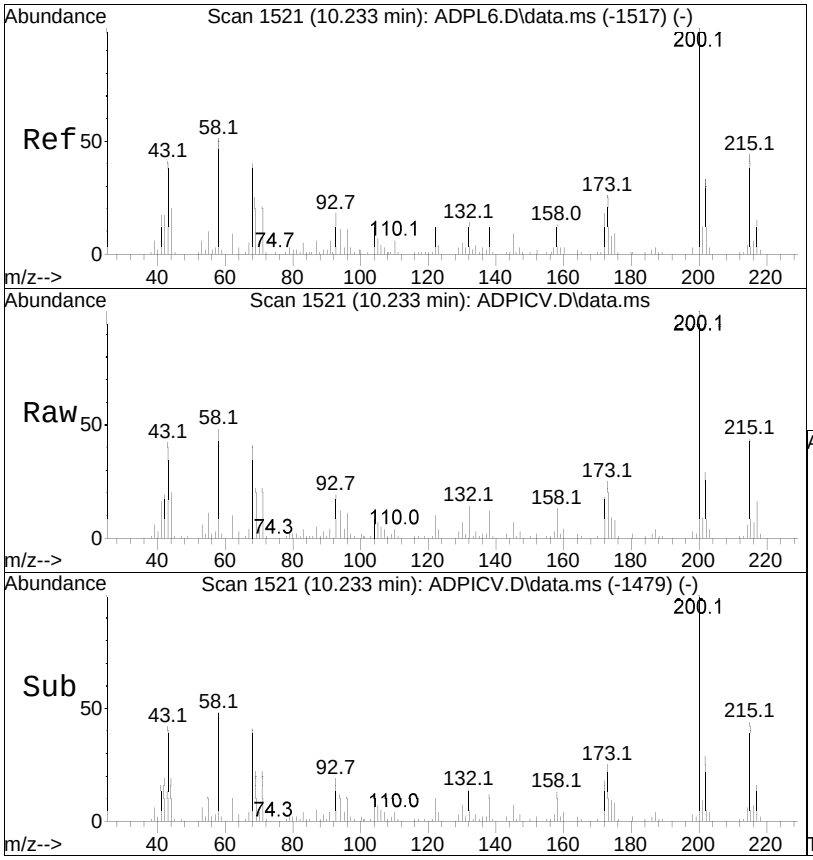


#33
n-Decane
Concen: 4.79 ug/ml
RT: 5.634 min Scan# 739
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion: 57 Resp: 103130

Ion	Ratio	Lower	Upper
57	100		
43	97.7	0.2	0.2#
41	57.1	0.2	0.2#

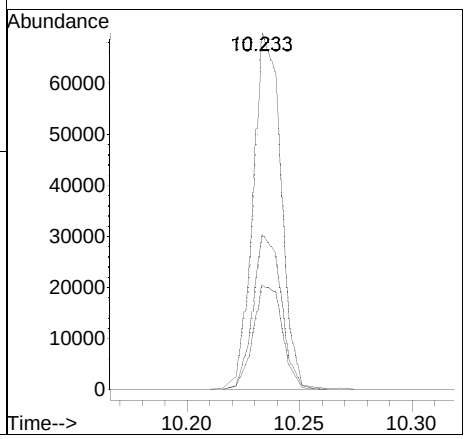


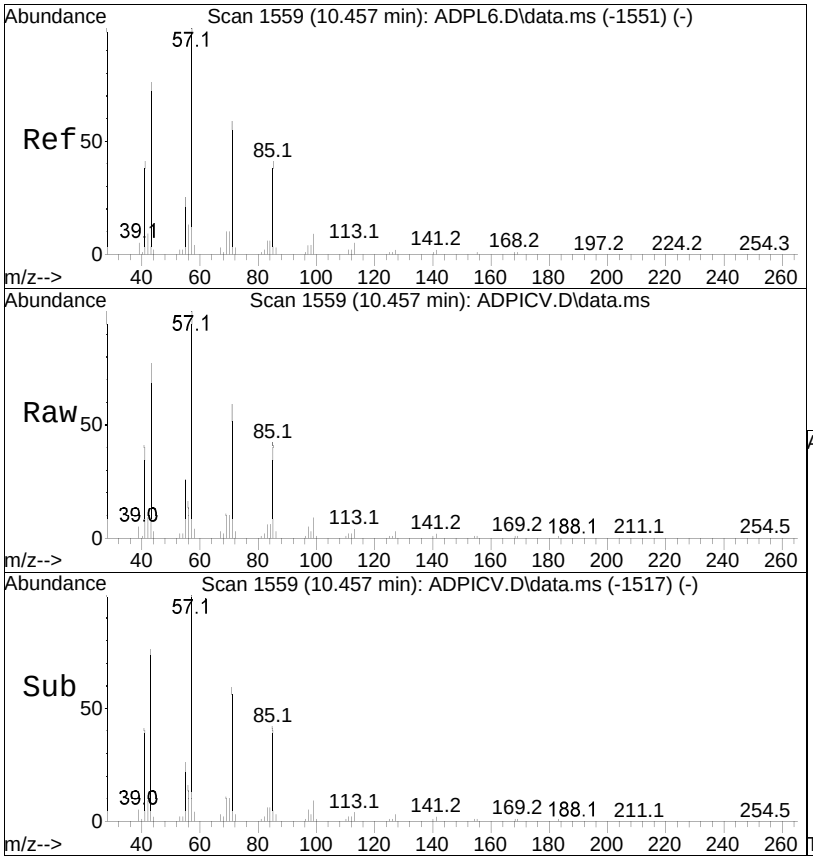


#86
Atrazine
Concen: 4.37 ug/ml
RT: 10.233 min Scan# 1521
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion:200 Resp: 59991

Ion	Ratio	Lower	Upper
200	100		
202	30.7	25.8	38.6
215	43.8	40.2	60.4

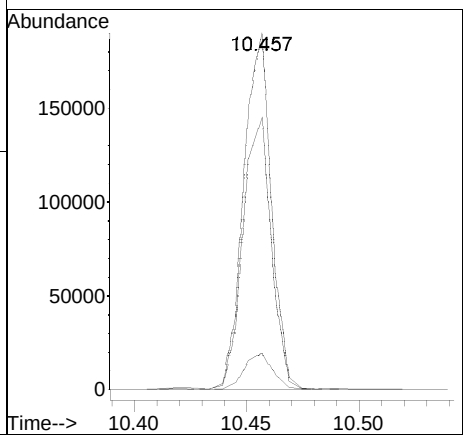


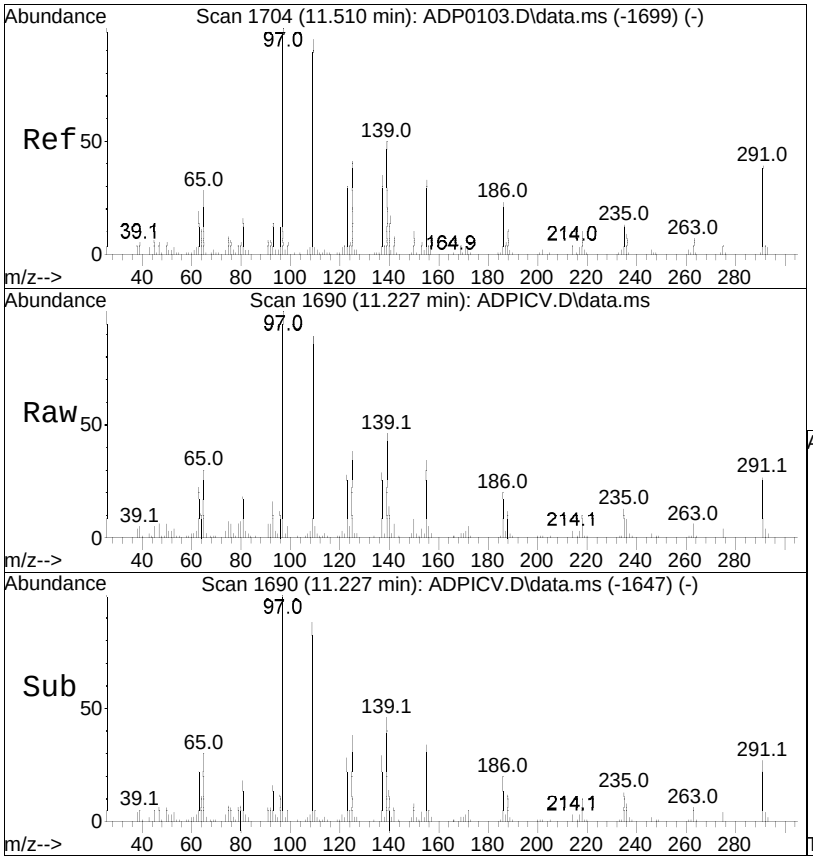


#100
n-Octadecane
Concen: 4.83 ug/ml
RT: 10.457 min Scan# 1559
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion: 57 Resp: 160135

Ion	Ratio	Lower	Upper
57	100		
43	78.6	9.0	13.6#
70	10.5	0.2	0.2#

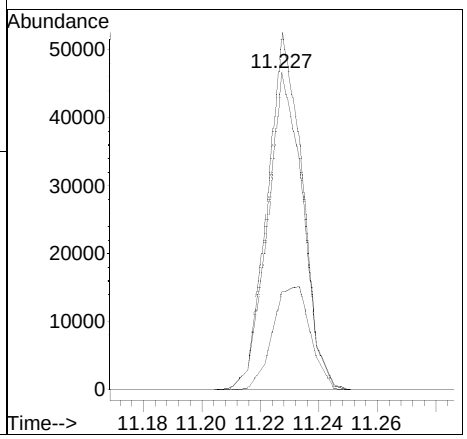


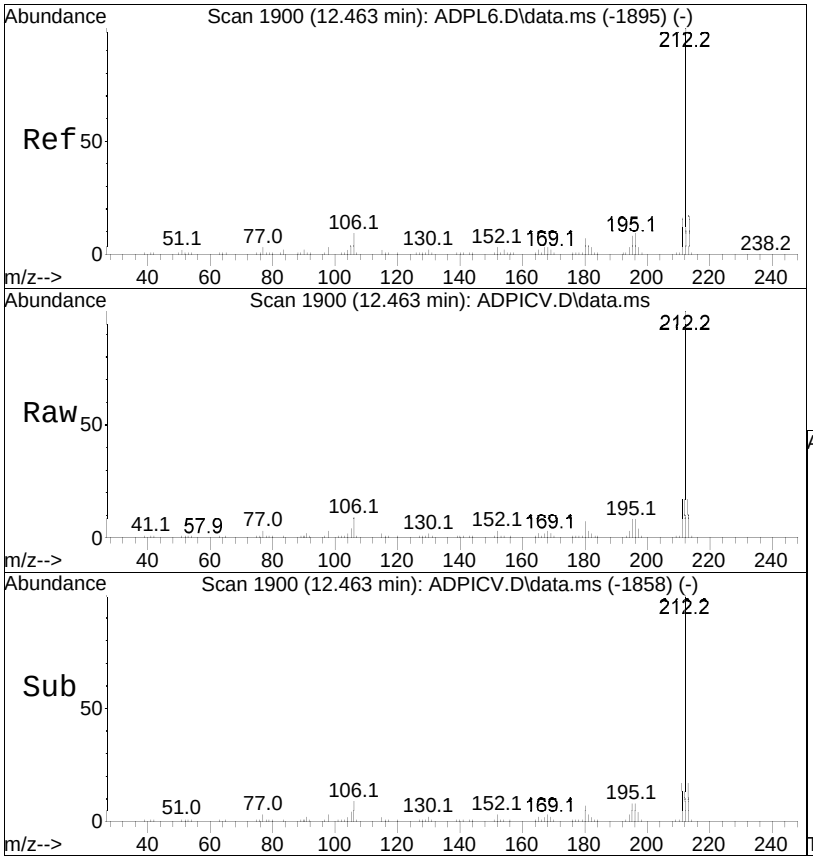


#101
Parathion
Concen: 4.27 ug/ml
RT: 11.227 min Scan# 1690
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion:109 Resp: 38821

Ion	Ratio	Lower	Upper
109	100		
97	111.5	87.4	131.2
291	35.2	34.2	51.2

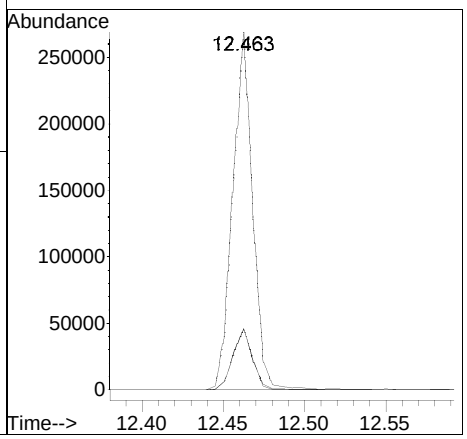




#102
3,3'-Dimethylbenzidine
Concen: 3.86 ug/ml
RT: 12.463 min Scan# 1900
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion:212 Resp: 226005

Ion	Ratio	Lower	Upper
212	100		
211	16.8	12.9	19.3
213	17.0	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPICV.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 8:51 am	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 4/22/2024 1:59 pm

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	Q	ug/ml	5.0	4.500	-10.0	0.20	0.262	31.0
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.398	-12.0	0.50	0.588	17.6
102	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.215	-15.7	0.50	0.644	28.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Quadratic	0.998390	0.002617	0.272206	-0.0153336
65	T 2,4-Dinitrophenol	Linear	0.998311	0.000000	0.197224	-0.0165379
102	T 3,3'-Dimethylbenzidine	Linear	0.992893	0.000000	0.860753	-0.080911

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/17/24 08:45		
Lab File ID	: ABN0617	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935225-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	131	0
n-Nitrosodimethylamine	0.789	0.852	-	-8	20	154	0
Pyridine	1.181	1.126	-	4.7	20	121	0
2-Fluorophenol	1.131	1.166	-	-3.1	20	146	0
Aniline	1.89	1.843	-	2.5	20	137	0
2-Chlorophenol	1.23	1.331	-	-8.2	20	147	0
Phenol-d6	1.461	1.687	-	-15.5	20	158	0
Phenol	1.557	1.703	-	-9.4	20	150	0
Bis(2-chloroethyl)ether	1.229	1.252	-	-1.9	20	140	0
1,3-Dichlorobenzene	1.423	1.425	-	-0.1	20	141	0
1,4-Dichlorobenzene	1.486	1.511	-	-1.7	20	149	0
1,2-Dichlorobenzene	1.357	1.446	-	-6.6	20	149	0
Benzyl alcohol	1.189	1.228	-	-3.3	20	140	0
Bis(2-chloroisopropyl)ethe	1.817	1.736	-	4.5	20	132	0
2-Methylphenol	1.108	1.185	-	-6.9	20	150	0
Hexachloroethane	0.606	0.629	-	-3.8	20	142	0
n-Nitrosodi-n-propylamine	1.034	1.055	-	-2	20	137	0
3-Methylphenol/4-Methylphe	1.204	1.281	-	-6.4	20	148	0
Nitrobenzene-d5	1.564	1.62	-	-3.6	20	141	0
Nitrobenzene	1.505	1.6	-	-6.3	20	142	0
Isophorone	2.67	2.798	-	-4.8	20	142	0
2-Nitrophenol	0.622	0.759	-	-22*	20	170	0
2,4-Dimethylphenol	1.261	1.095	-	13.2	20	119	0
Bis(2-chloroethoxy)methane	1.675	1.757	-	-4.9	20	147	0
2,4-Dichlorophenol	1.149	1.205	-	-4.9	20	141	0
1,2,4-Trichlorobenzene	1.404	1.416	-	-0.9	20	142	0
IS1_Naphthalene-d8	1	1	-	0	20	137	0
Naphthalene	1.066	1.048	-	1.7	20	147	0
Benzoic Acid	5	5.744	-	-14.9	20	178	0
4-Chloroaniline	0.16	0.147	-	8.1	20	133	0
Hexachlorobutadiene	0.275	0.245	-	10.9	20	135	0
p-Chloro-m-cresol	0.327	0.346	-	-5.8	20	149	0
2-Methylnaphthalene	0.711	0.706	-	0.7	20	145	0
1-Methylnaphthalene	0.297	0.278	-	6.4	20	141	0
Hexachlorocyclopentadiene	0.273	0.258	-	5.5	20	136	0
2,4,6-Trichlorophenol	0.266	0.299	-	-12.4	20	155	0
2,4,5-Trichlorophenol	0.289	0.305	-	-5.5	20	146	0
2-Fluorobiphenyl	0.928	0.897	-	3.3	20	143	0
2-Chloronaphthalene	0.743	0.72	-	3.1	20	142	0
2-Nitroaniline	0.215	0.239	-	-11.2	20	158	0
1,4-Dinitrobenzene	0.114	0.127	-	-11.4	20	153	0
1,3-Dinitrobenzene	0.13	0.137	-	-5.4	20	145	0
Dimethyl phthalate	0.982	0.999	-	-1.7	20	146	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/17/24 08:45		
Lab File ID	: ABN0617	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935225-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.207	-	-4.5	20	152	0
2,6-Dinitrotoluene	0.197	0.208	-	-5.6	20	150	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	150	0
IS1_Acenaphthene-d10	1	1	-	0	20	133	0
3-Nitroaniline	0.293	0.339	-	-15.7	20	162	0
Acenaphthene	0.991	0.982	-	0.9	20	141	0
2,4-Dinitrophenol	5	6.166	-	-23.3*	20	190	0
Dibenzofuran	1.734	1.675	-	3.4	20	145	0
2,4-Dinitrotoluene	0.398	0.447	-	-12.3	20	150	0
4-Nitrophenol	0.314	0.353	-	-12.4	20	147	0
2,3,5,6-Tetrachlorophenol	0.353	0.416	-	-17.8	20	152	0
2,3,4,6-Tetrachlorophenol	0.346	0.399	-	-15.3	20	155	0
Diethyl phthalate	1.443	1.584	-	-9.8	20	152	0
Fluorene	1.363	1.35	-	1	20	145	0
4-Chlorophenyl phenyl ethe	0.717	0.687	-	4.2	20	142	0
4-Nitroaniline	0.287	0.332	-	-15.7	20	154	0
4,6-Dinitro-o-cresol	0.224	0.297	-	-32.6*	20	179	0
NDPA/DPA	1.122	1.131	-	-0.8	20	142	0
Azobenzene	1.43	1.334	-	6.7	20	134	0
2,4,6-Tribromophenol	0.213	0.244	-	-14.6	20	157	0
4-Bromophenyl phenyl ether	0.427	0.425	-	0.5	20	144	0
Hexachlorobenzene	0.494	0.461	-	6.7	20	140	0
Pentachlorophenol	0.288	0.366	-	-27.1*	20	175	0
IS1_Phenanthrene-d10	1	1	-	0	20	129	0
Phenanthrene	0.988	0.961	-	2.7	20	142	0
Anthracene	0.977	0.975	-	0.2	20	142	0
Carbazole	0.894	0.951	-	-6.4	20	146	0
Di-n-butylphthalate	1.089	1.333	-	-22.4*	20	166	0
Fluoranthene	1.131	1.149	-	-1.6	20	142	0
Benzidine	0.648	0.762	-	-17.6	20	150	0
Pyrene	1.194	1.178	-	1.3	20	139	0
4-Terphenyl-d14	0.861	0.845	-	1.9	20	139	0
Butyl benzyl phthalate	0.463	0.621	-	-34.1*	20	181	0
IS1_Chrysene-d12	1	1	-	0	20	128	0
Benzo(a)anthracene	1.294	1.355	-	-4.7	20	145	0
3,3'-Dichlorobenzidine	0.446	0.515	-	-15.5	20	154	0
Chrysene	1.277	1.258	-	1.5	20	140	0
Bis(2-ethylhexyl)phthalate	0.767	1.125	-	-46.7*	20	196	0
Di-n-octylphthalate	1.257	1.913	-	-52.2*	20	202	0
Benzo(b)fluoranthene	1.181	1.225	-	-3.7	20	135	0
Benzo(k)fluoranthene	1.154	1.171	-	-1.5	20	146	0
Benzo(a)pyrene	1.058	1.136	-	-7.4	20	146	0
IS1_Perylene-d12	1	1	-	0	20	128	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/17/24 08:45		
Lab File ID	: ABN0617	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935225-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.049	-	-6.7	20	150	0
Dibenzo(a,h)anthracene	0.935	0.996	-	-6.5	20	146	0
Benzo(ghi)perylene	0.923	1	-	-8.3	20	151	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/17/24 09:09		
Lab File ID	: ADP0617	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935225-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
n-Decane	1.537	1.413	-	8.1	20	116	0
IS3_Acenaphthene-d10	1	1	-	0	20	114	0
Atrazine	0.403	0.452	-	-12.2	20	131	0
IS3_Phenanthrene-d10	1	1	-	0	20	110	0
n-Octadecane	0.44	0.475	-	-8	20	120	0
Parathion	0.121	0.149	-	-23.1*	20	151	0
3,3'-Dimethylbenzidine	5	5.203	-	-4.1	20	138	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/17/24 09:33		
Lab File ID	: AP90617	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935225-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	121	0
Benzaldehyde	1.095	1.289	-	-17.7	20	163	0
Acetophenone	1.981	2.315	-	-16.9	20	158	0
m-Toluidine	1.685	2.157	-	-28*	20	159	0
2-Chloroaniline	1.619	1.96	-	-21.1*	20	160	0
IS2_Naphthalene-d8	1	1	-	0	20	123	0
a-Terpineol	0.33	0.382	-	-15.8	20	152	0
3-Chloroaniline	0.181	0.206	-	-13.8	20	141	0
2,6-Dichlorophenol	0.3	0.378	-	-26*	20	168	0
1-chloro-2-nitrobenzene	0.172	0.193	-	-12.2	20	158	0
Caprolactam	0.176	0.214	-	-21.6*	20	163	0
1,2,4,5-Tetrachlorobenzene	0.461	0.492	-	-6.7	20	145	0
Biphenyl	0.901	1.026	-	-13.9	20	149	0
IS2_Acenaphthene-d10	1	1	-	0	20	125	0
Dichloran	0.191	0.263	-	-37.7*	20	177	0
Pentachloronitrobenzene	0.232	0.302	-	-30.2*	20	176	0
IS2_Phenanthrene-d10	1	1	-	0	20	129	0
Diphenamid	0.451	0.592	-	-31.3*	20	173	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 09:11:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	131	0.00
2	t	n-Nitrosodimethylamine		0.789	0.852	-8.0	154	0.00
3	t	Pyridine		1.181	1.126	4.7	121	0.00
4	S	2-Fluorophenol		1.131	1.166	-3.1	146	0.00
5	T	Aniline		1.890	1.843	2.5	137	0.00
6	t	2-Chlorophenol		1.230	1.331	-8.2	147	0.00
7	S	Phenol-d6		1.461	1.687	-15.5	158	0.00
8	T	Phenol		1.557	1.703	-9.4	150	0.00
9	T	Bis(2-chloroethyl)ether		1.229	1.252	-1.9	140	0.00
10	T	1,3-Dichlorobenzene		1.423	1.425	-0.1	141	0.00
11	T	1,4-Dichlorobenzene		1.486	1.511	-1.7	149	0.00
12	T	1,2-Dichlorobenzene		1.357	1.446	-6.6	149	0.00
13	t	Benzyl alcohol		1.189	1.228	-3.3	140	0.00
14	T	Bis(2-chloroisopropyl)ether		1.817	1.736	4.5	132	0.00
15	T	2-Methylphenol		1.108	1.185	-6.9	150	0.00
16	T	Hexachloroethane		0.606	0.629	-3.8	142	0.00
17	T	n-Nitrosodi-n-propylamine		1.034	1.055	-2.0	137	0.00
18	T	3-Methylphenol/4-Methylphen		1.204	1.281	-6.4	148	0.00
19	S	Nitrobenzene-d5		1.564	1.620	-3.6	141	0.00
20	T	Nitrobenzene		1.505	1.600	-6.3	142	0.00
21	T	Isophorone		2.670	2.798	-4.8	142	0.00
22	T	2-Nitrophenol		0.622	0.759	-22.0#	170	0.00
23	T	2,4-Dimethylphenol		1.261	1.095	13.2	119	0.00
24	T	Bis(2-chloroethoxy)methane		1.675	1.757	-4.9	147	0.00
25	T	2,4-Dichlorophenol		1.149	1.205	-4.9	141	0.00
26	T	1,2,4-Trichlorobenzene		1.404	1.416	-0.9	142	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	137	0.00
35	T	Naphthalene		1.066	1.048	1.7	147	0.00
36	T	Benzoic Acid	*	5.000	5.744	-14.9	178	0.00
37	T	4-Chloroaniline		0.160	0.147	8.1	133	0.00
38	T	Hexachlorobutadiene		0.275	0.245	10.9	135	0.00
39	T	p-Chloro-m-cresol		0.327	0.346	-5.8	149	0.00
40	T	2-Methylnaphthalene		0.711	0.706	0.7	145	0.00
41	T	1-Methylnaphthalene		0.297	0.278	6.4	141	0.00
42	T	Hexachlorocyclopentadiene		0.273	0.258	5.5	136	0.00
43	T	2,4,6-Trichlorophenol		0.266	0.299	-12.4	155	0.00
44	T	2,4,5-Trichlorophenol		0.289	0.305	-5.5	146	0.00
45	S	2-Fluorobiphenyl		0.928	0.897	3.3	143	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 09:11:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.743	0.720	3.1	142	0.00
47	T	2-Nitroaniline		0.215	0.239	-11.2	158	0.00
48	T	1,4-Dinitrobenzene		0.114	0.127	-11.4	153	0.00
49	T	1,3-Dinitrobenzene		0.130	0.137	-5.4	145	0.00
50	T	Dimethyl phthalate		0.982	0.999	-1.7	146	0.00
51	T	Acenaphthylene		1.155	1.207	-4.5	152	0.00
52	T	2,6-Dinitrotoluene		0.197	0.208	-5.6	150	0.00
53	T	1,2-Dinitrobenzene		0.078	0.084	-7.7	150	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	133	0.00
63	T	3-Nitroaniline		0.293	0.339	-15.7	162	0.00
64	T	Acenaphthene		0.991	0.982	0.9	141	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.166	-23.3#	190	0.00
66	T	Dibenzofuran		1.734	1.675	3.4	145	0.00
67	T	2,4-Dinitrotoluene		0.398	0.447	-12.3	150	0.00
68	T	4-Nitrophenol		0.314	0.353	-12.4	147	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.353	0.416	-17.8	152	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.346	0.399	-15.3	155	0.00
71	T	Diethyl phthalate		1.443	1.584	-9.8	152	0.00
72	T	Fluorene		1.363	1.350	1.0	145	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.687	4.2	142	0.00
74	T	4-Nitroaniline		0.287	0.332	-15.7	154	0.00
75	T	4,6-Dinitro-o-cresol		0.224	0.297	-32.6#	179	0.00
76	T	NDPA/DPA		1.122	1.131	-0.8	142	0.00
77	T	Azobenzene		1.430	1.334	6.7	134	0.00
78	S	2,4,6-Tribromophenol		0.213	0.244	-14.6	157	0.00
79	T	4-Bromophenyl phenyl ether		0.427	0.425	0.5	144	0.00
80	T	Hexachlorobenzene		0.494	0.461	6.7	140	0.00
81	T	Pentachlorophenol		0.288	0.366	-27.1#	175	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	129	0.00
88	T	Phenanthrene		0.988	0.961	2.7	142	0.00
89	T	Anthracene		0.977	0.975	0.2	142	0.00
90	T	Carbazole		0.894	0.951	-6.4	146	0.00
91	T	Di-n-butylphthalate		1.089	1.333	-22.4#	166	0.00
92	T	Fluoranthene		1.131	1.149	-1.6	142	0.00
93	T	Benzidine		0.648	0.762	-17.6	150	0.00
94	T	Pyrene		1.194	1.178	1.3	139	0.00
95	S	4-Terphenyl-d14		0.861	0.845	1.9	139	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 09:11:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.463	0.621	-34.1#	181	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	128	0.00
104	T	Benzo(a)anthracene	1.294	1.355	-4.7	145	0.00
105	T	3,3'-Dichlorobenzidine	0.446	0.515	-15.5	154	0.00
106	T	Chrysene	1.277	1.258	1.5	140	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.767	1.125	-46.7#	196	0.00
108	T	Di-n-octylphthalate	1.257	1.913	-52.2#	202#	0.00
109	T	Benzo(b)fluoranthene	1.181	1.225	-3.7	135	0.00
110	T	Benzo(k)fluoranthene	1.154	1.171	-1.5	146	0.00
111	T	Benzo(a)pyrene	1.058	1.136	-7.4	146	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	128	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.983	1.049	-6.7	150	0.00
114	T	Dibenzo(a,h)anthracene	0.935	0.996	-6.5	146	0.00
115	T	Benzo(ghi)perylene	0.923	1.000	-8.3	151	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 09:11:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.931	152	84755	4.000	ug/ml		0.00
34) IS1_Naphthalene-d8	6.666	136	322983	4.000	ug/ml	#	0.00
62) IS1_Acenaphthene-d10	8.454	164	215292	4.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	9.848	188	459399	4.000	ug/ml		0.00
103) IS1_Chrysene-d12	12.348	240	399251	4.000	ug/ml		0.00
112) IS1_Perylene-d12	13.677	264	419339	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	2.025	112	123558	5.156	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 257.80%#				
7) Phenol-d6	4.489	99	178738	5.774	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 288.70%#				
19) Nitrobenzene-d5	5.819	82	171644	5.179	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 517.90%#				
45) 2-Fluorobiphenyl	7.854	172	362168	4.836	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 483.60%#				
78) 2,4,6-Tribromophenol	9.213	330	65626	5.730	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 286.50%#				
95) 4-Terphenyl-d14	11.418	244	485111	4.903	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 490.30%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	0.854	74	90244	5.400	ug/ml	#	79
3) Pyridine	0.866	79	119249	4.766	ug/ml	#	58
5) Aniline	4.242	93	195304	4.877	ug/ml		95
6) 2-Chlorophenol	4.513	128	141013	5.413	ug/ml		99
8) Phenol	4.519	94	180411	5.470	ug/ml	#	82
9) Bis(2-chloroethyl)ether	4.560	93	132607	5.091	ug/ml		90
10) 1,3-Dichlorobenzene	4.801	146	150935	5.006	ug/ml		96
11) 1,4-Dichlorobenzene	4.960	146	160072	5.083	ug/ml		97
12) 1,2-Dichlorobenzene	5.207	146	153222	5.330	ug/ml		97
13) Benzyl alcohol	5.301	79	130116	5.165	ug/ml		95
14) Bis(2-chloroisopropyl)...	5.542	45	183932	4.778	ug/ml	#	79
15) 2-Methylphenol	5.578	108	125497	5.347	ug/ml		98
16) Hexachloroethane	5.701	117	66677	5.193	ug/ml	#	59
17) n-Nitrosodi-n-propylamine	5.725	70	111733	5.098	ug/ml	#	89
18) 3-Methylphenol/4-Methy...	5.819	108	135706	5.320	ug/ml		98
20) Nitrobenzene	5.842	77	169500M6	5.315	ug/ml		
21) Isophorone	6.189	82	296433	5.240	ug/ml	#	91
22) 2-Nitrophenol	6.260	139	80367	6.095	ug/ml	#	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 09:11:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	6.448	107	115979	4.341	ug/ml	96
24) Bis(2-chloroethoxy)met...	6.536	93	186130	5.244	ug/ml#	97
25) 2,4-Dichlorophenol	6.572	162	127649	5.242	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.630	180	149994	5.043	ug/ml	97
35) Naphthalene	6.683	128	423121	4.914	ug/ml	99
36) Benzoic Acid	6.625	105	123042	5.744	ug/ml	95
37) 4-Chloroaniline	6.819	65	59456	4.605	ug/ml	99
38) Hexachlorobutadiene	6.895	225	98993	4.458	ug/ml	99
39) p-Chloro-m-cresol	7.413	107	139749	5.295	ug/ml	94
40) 2-Methylnaphthalene	7.442	142	284836	4.965	ug/ml#	94
41) 1-Methylnaphthalene	7.536	115	112078	4.672	ug/ml	76
42) Hexachlorocyclopentadiene	7.630	237	104255	4.729	ug/ml	99
43) 2,4,6-Trichlorophenol	7.766	196	120826	5.634	ug/ml	99
44) 2,4,5-Trichlorophenol	7.795	196	123092	5.269	ug/ml	95
46) 2-Chloronaphthalene	7.919	162	290886	4.849	ug/ml	98
47) 2-Nitroaniline	8.060	138	96417	5.550	ug/ml	98
48) 1,4-Dinitrobenzene	8.201	168	51166	5.561	ug/ml	91
49) 1,3-Dinitrobenzene	8.277	168	55196	5.247	ug/ml#	1
50) Dimethyl phthalate	8.295	163	403452	5.089	ug/ml#	98
51) Acenaphthylene	8.307	152	487329	5.224	ug/ml	100
52) 2,6-Dinitrotoluene	8.319	165	84091M6	5.281	ug/ml	
53) 1,2-Dinitrobenzene	8.348	168	33885	5.411	ug/ml#	82
63) 3-Nitroaniline	8.460	138	91216	5.788	ug/ml#	92
64) Acenaphthene	8.483	154	264354	4.959	ug/ml	92
65) 2,4-Dinitrophenol	8.566	184	61897	6.166	ug/ml	92
66) Dibenzofuran	8.654	168	450653	4.828	ug/ml	97
67) 2,4-Dinitrotoluene	8.695	165	120277	5.610	ug/ml	89
68) 4-Nitrophenol	8.701	65	95068	5.622	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	8.766	232	111851	5.894	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.807	232	107462	5.768	ug/ml	96
71) Diethyl phthalate	8.983	149	426262	5.488	ug/ml	98
72) Fluorene	8.977	166	363438	4.956	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.030	204	184878	4.792	ug/ml	94
74) 4-Nitroaniline	9.042	138	89316	5.786	ug/ml#	82
75) 4,6-Dinitro-o-cresol	9.077	198	79999	6.623	ug/ml#	71
76) NDPA/DPA	9.148	169	304364	5.040	ug/ml	97
77) Azobenzene	9.171	77	358886M6	4.664	ug/ml	
79) 4-Bromophenyl phenyl e...	9.483	248	114397	4.977	ug/ml	93
80) Hexachlorobenzene	9.501	284	123976	4.659	ug/ml#	88
81) Pentachlorophenol	9.707	266	98584	6.358	ug/ml	96
88) Phenanthrene	9.871	178	551829	4.865	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 09:11:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	9.918	178	560165	4.992	ug/ml	98
90) Carbazole	10.107	167	545893	5.318	ug/ml	99
91) Di-n-butylphthalate	10.548	149	765292	6.117	ug/ml	99
92) Fluoranthene	10.989	202	659770	5.081	ug/ml#	92
93) Benzidine	11.177	184	437560	5.878	ug/ml#	96
94) Pyrene	11.189	202	676629	4.935	ug/ml	98
96) Butyl benzyl phthalate	11.948	149	356799	6.705	ug/ml	94
104) Benzo(a)anthracene	12.342	228	676262	5.236	ug/ml	99
105) 3,3'-Dichlorobenzidine	12.377	252	256935	5.776	ug/ml#	98
106) Chrysene	12.371	228	627924	4.926	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	12.559	149	561221	7.329	ug/ml#	90
108) Di-n-octylphthalate	13.183	149	954770	7.611	ug/ml#	72
109) Benzo(b)fluoranthene	13.342	252	611305	5.184	ug/ml#	95
110) Benzo(k)fluoranthene	13.371	252	584546	5.075	ug/ml#	94
111) Benzo(a)pyrene	13.624	252	567016	5.369	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	14.577	276	549642M3	5.334	ug/mL	
114) Dibenzo(a,h)anthracene	14.618	278	521953M6	5.327	ug/ml	
115) Benzo(ghi)perylene	14.777	276	523995	5.417	ug/ml#	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : ABN0617.D
Acq On : 17 Jun 2024 8:45 am
Operator : SV106:sz
Sample : wg1935225-3,32,,ABN 10526 HNY0517B
Misc : wg1935225,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 12:22:54 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
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QLast Update : Mon Jun 17 09:11:28 2024
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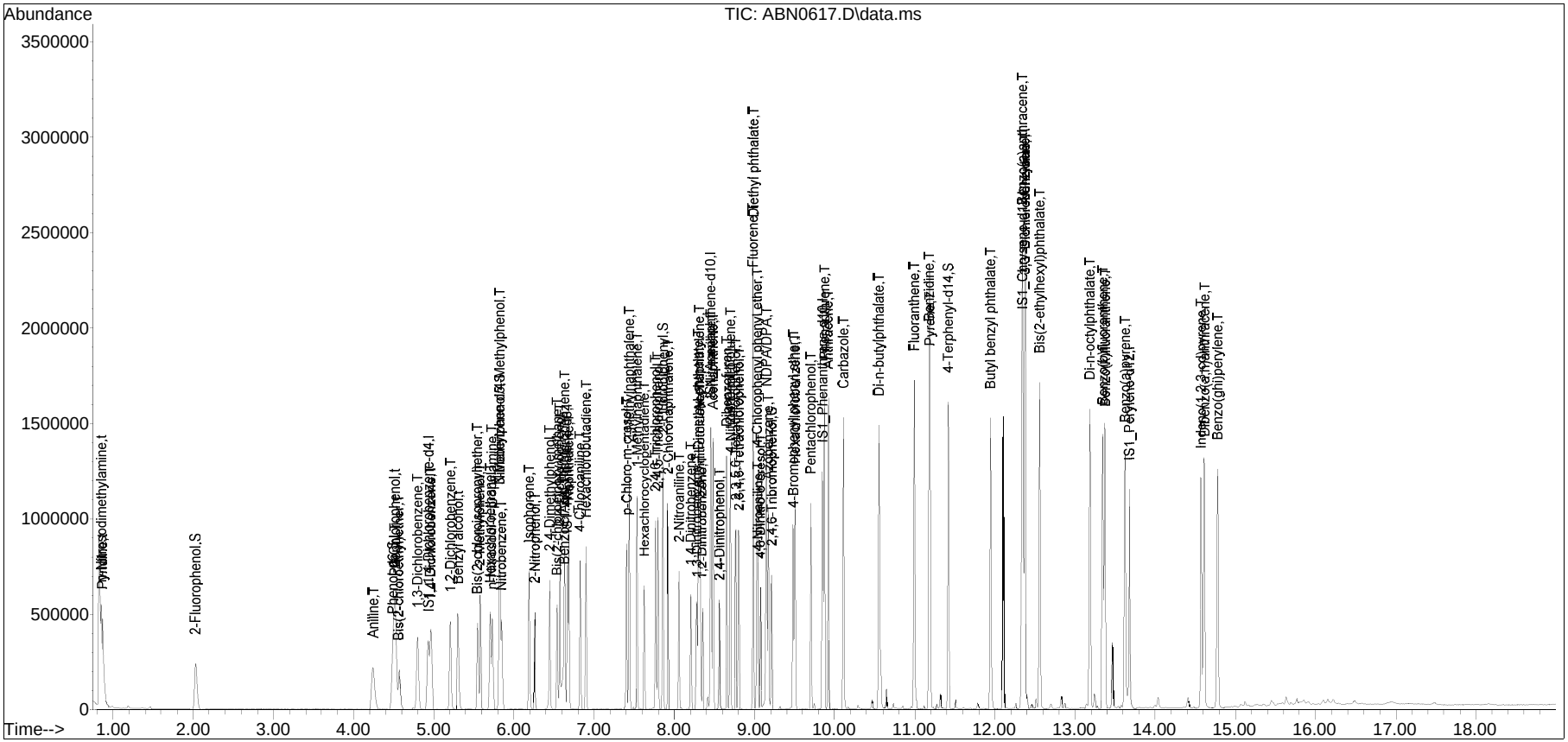
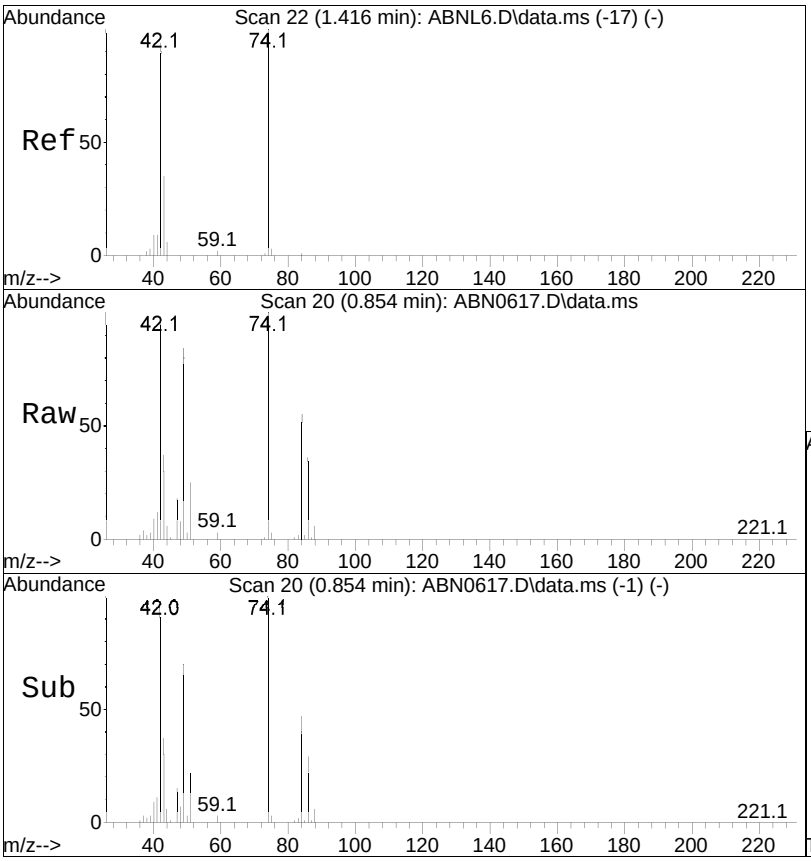
Sub List : ABNical - ABN ical sublist

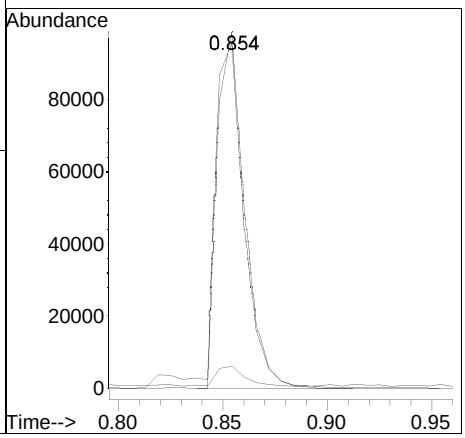


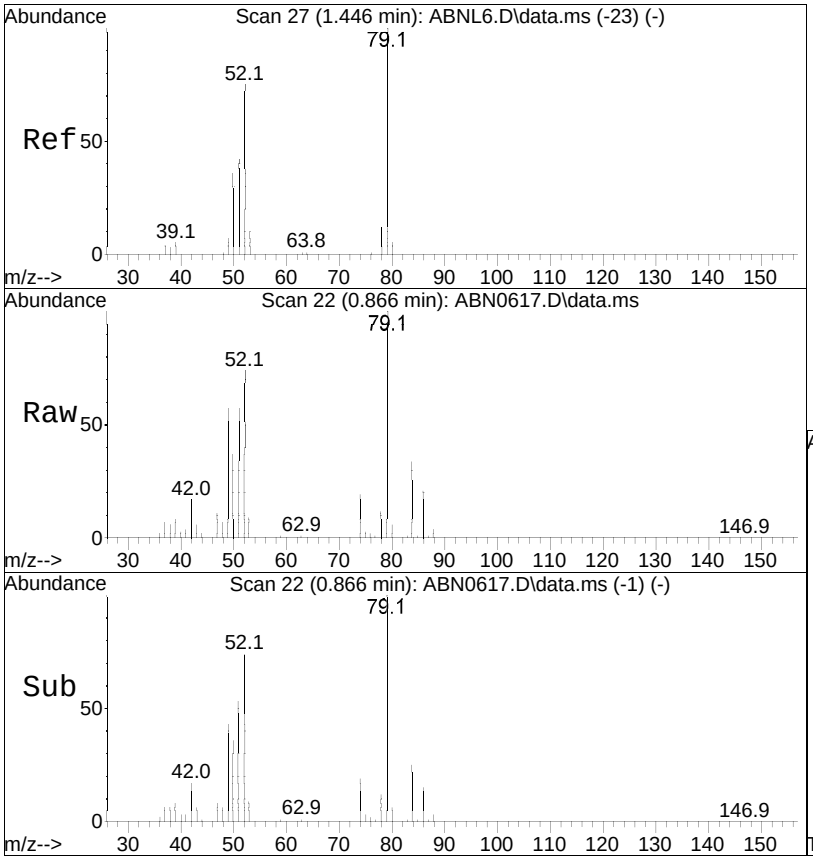


#2
n-Nitrosodimethylamine
Concen: 5.40 ug/ml
RT: 0.854 min Scan# 20
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 74 Resp: 90244

Ion	Ratio	Lower	Upper
74	100		
42	99.9	100.0	150.0#
44	5.9	6.7	10.1#

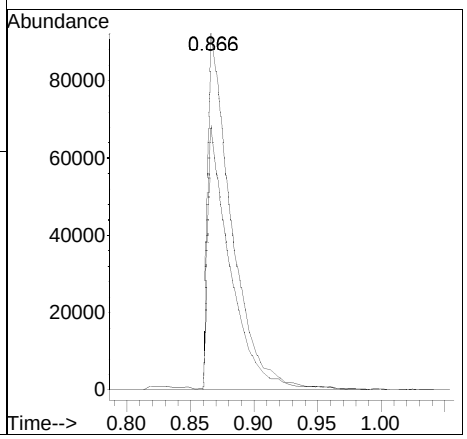


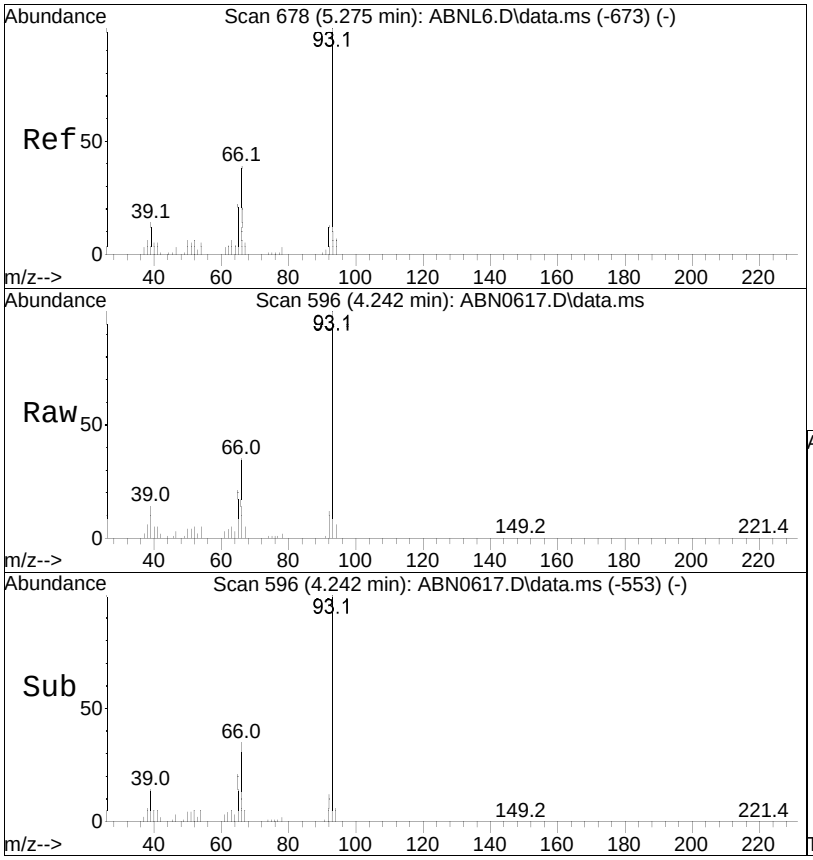


#3
Pyridine
Concen: 4.77 ug/ml
RT: 0.866 min Scan# 22
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 79 Resp: 119249

Ion	Ratio	Lower	Upper
79	100		
52	71.0	93.1	139.7#

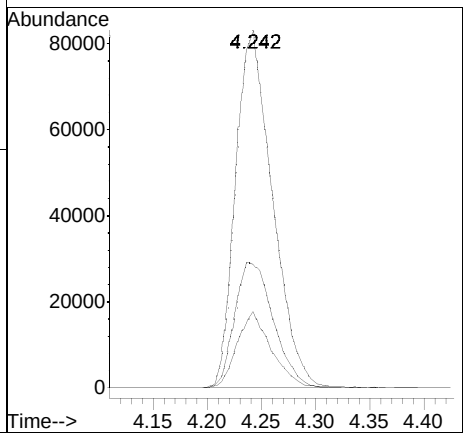


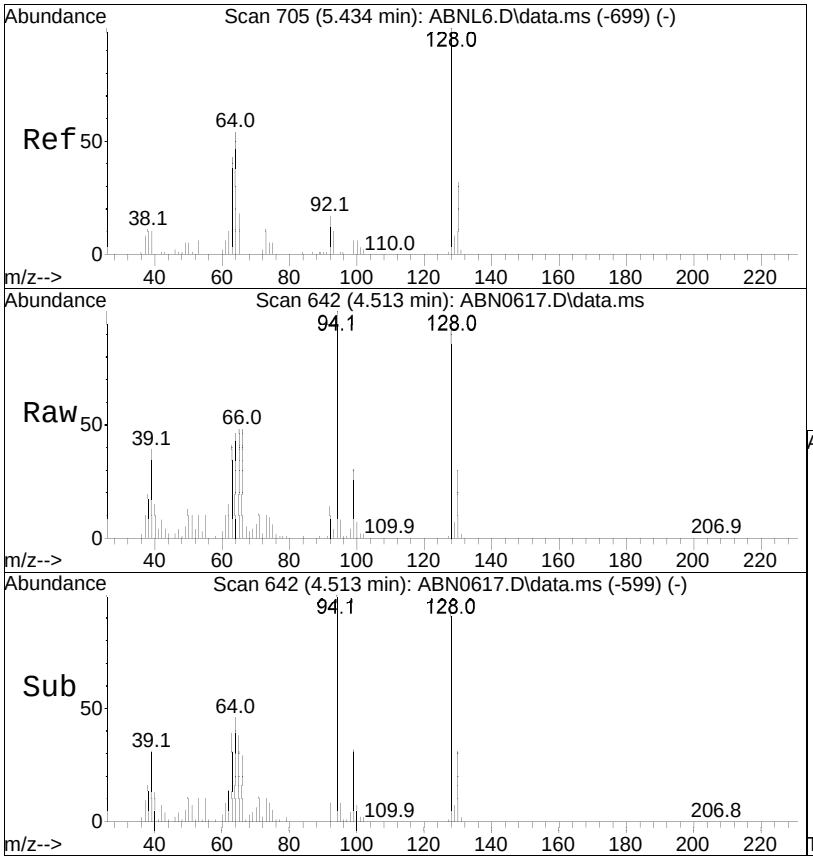


#5
Aniline
Concen: 4.88 ug/ml
RT: 4.242 min Scan# 596
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 93 Resp: 195304

Ion	Ratio	Lower	Upper
93	100		
66	37.0	32.6	49.0
65	20.0	17.6	26.4

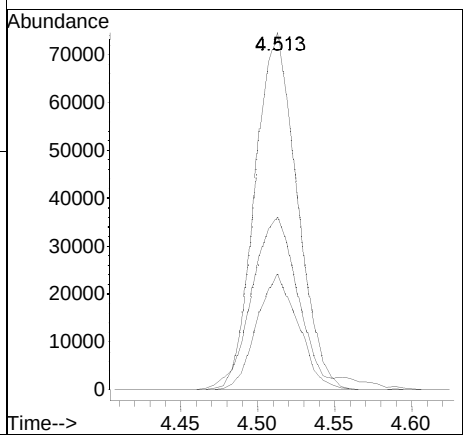


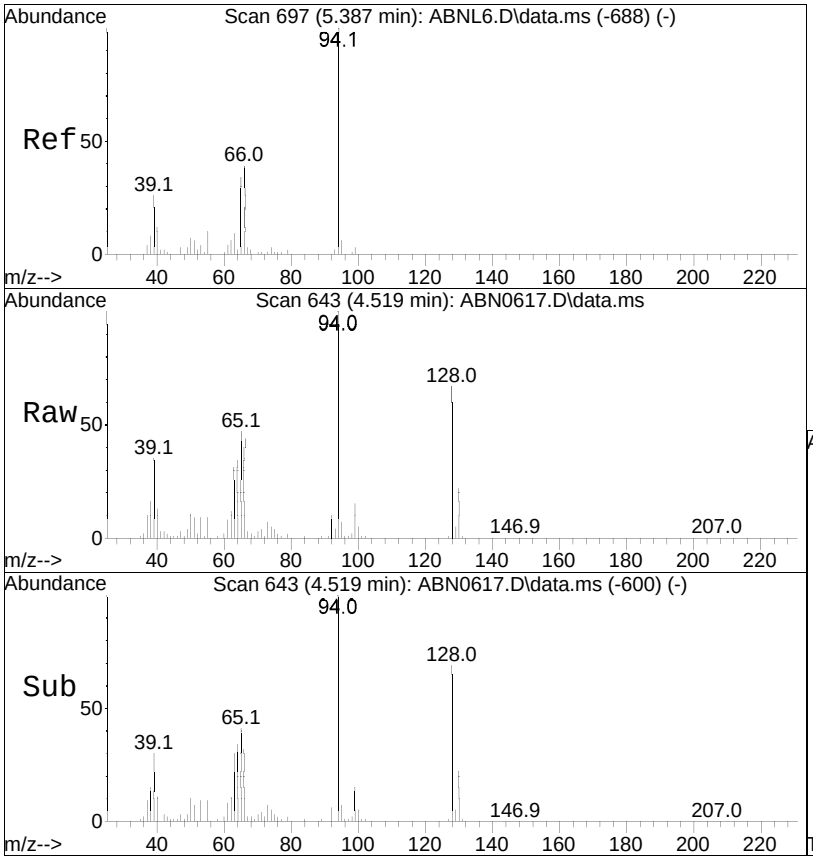


#6
2-Chlorophenol
Concen: 5.41 ug/ml
RT: 4.513 min Scan# 642
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:128 Resp: 141013

Ion	Ratio	Lower	Upper
128	100		
64	55.7	45.1	67.7
130	32.0	26.2	39.4

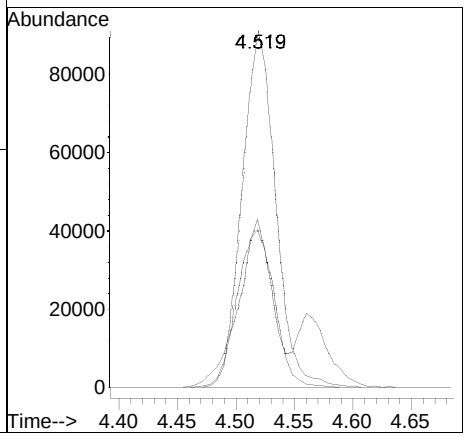


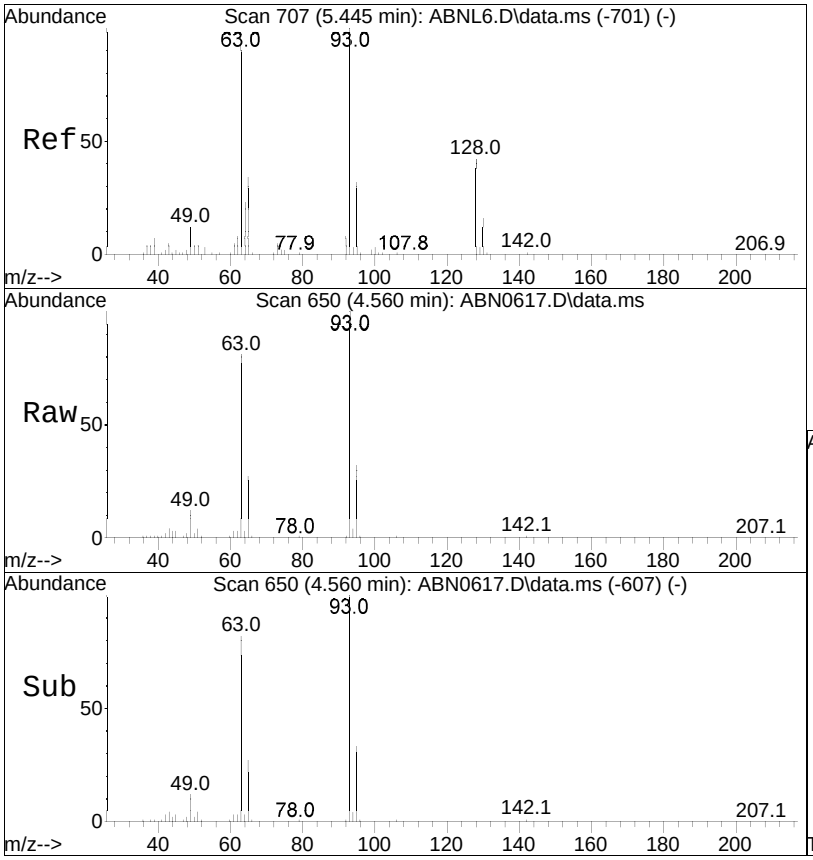


#8
Phenol
Concen: 5.47 ug/ml
RT: 4.519 min Scan# 643
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 94 Resp: 180411

Ion	Ratio	Lower	Upper
94	100		
65	47.4	26.0	39.0#
66	49.2	33.8	50.8

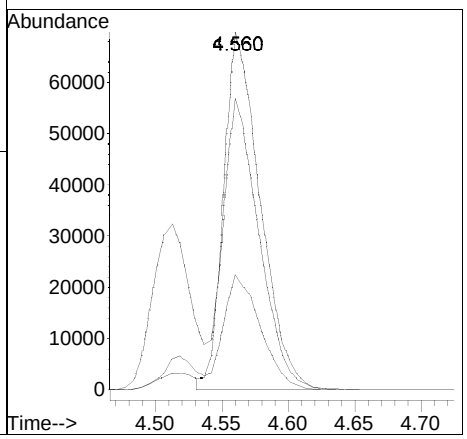


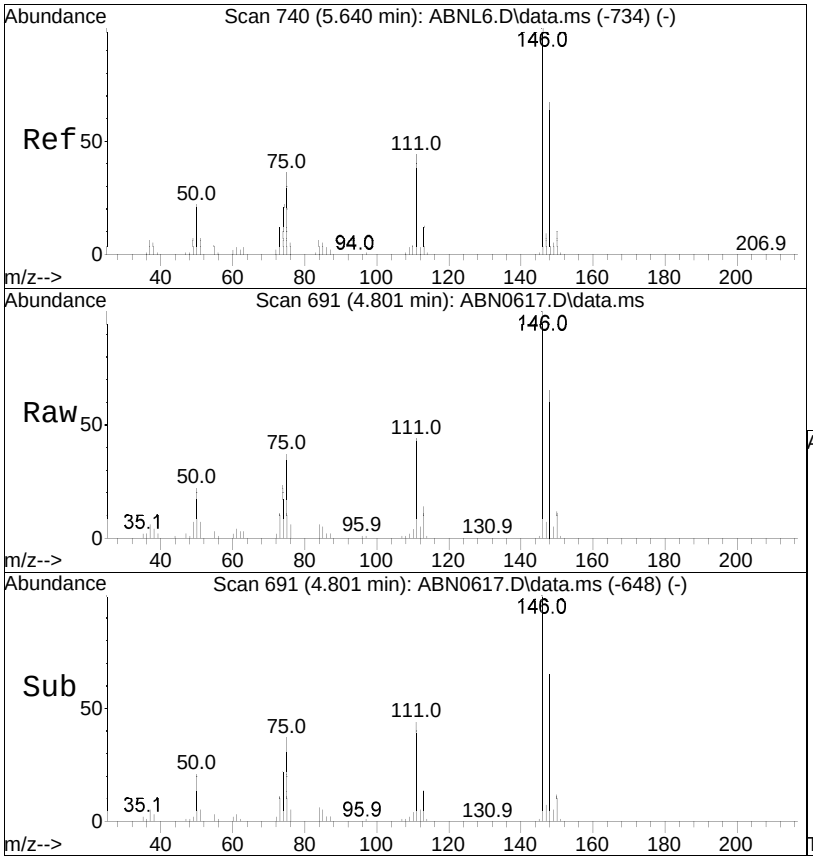


#9
Bis(2-chloroethyl)ether
Concen: 5.09 ug/ml
RT: 4.560 min Scan# 650
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 93 Resp: 132607

Ion	Ratio	Lower	Upper
93	100		
63	80.9	74.6	111.8
95	32.9	25.9	38.9

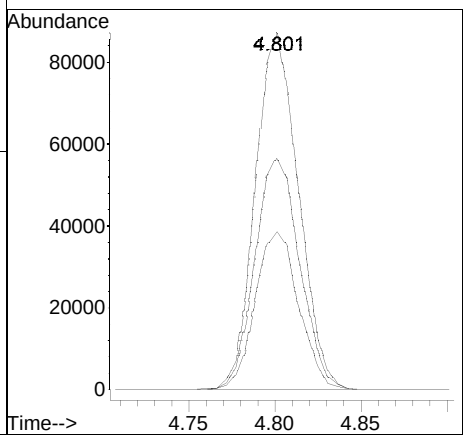


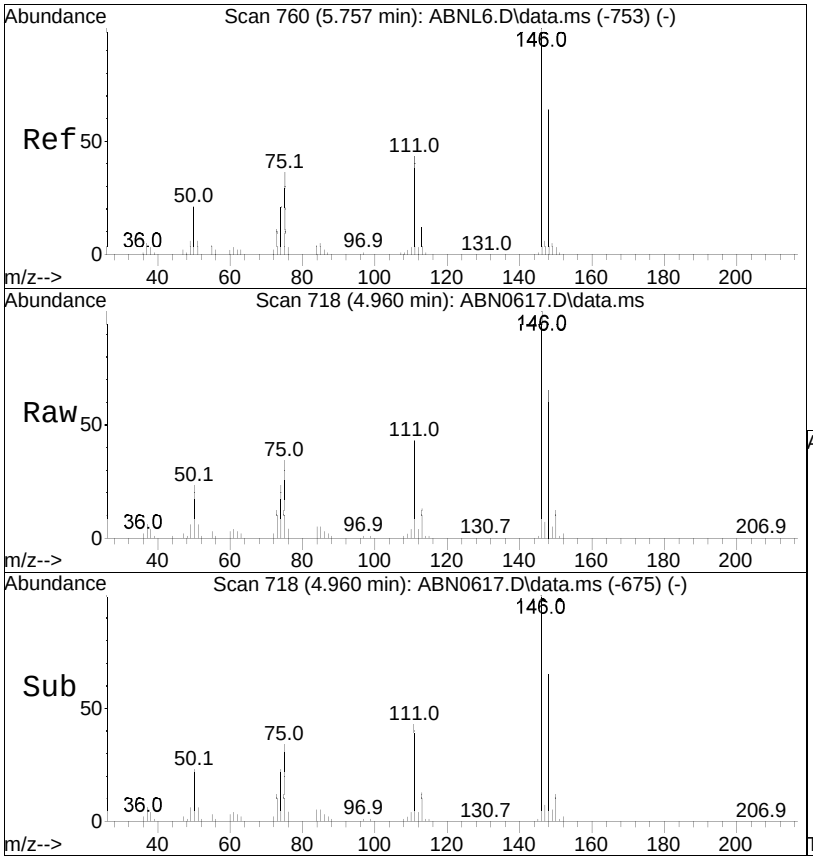


#10
1,3-Dichlorobenzene
Concen: 5.01 ug/ml
RT: 4.801 min Scan# 691
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:146 Resp: 150935

Ion	Ratio	Lower	Upper
146	100		
111	44.8	34.3	51.5
148	67.4	50.8	76.2

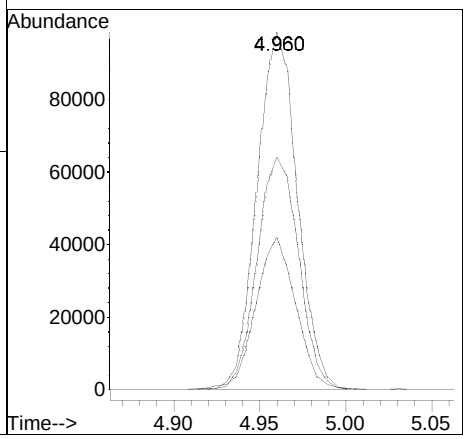


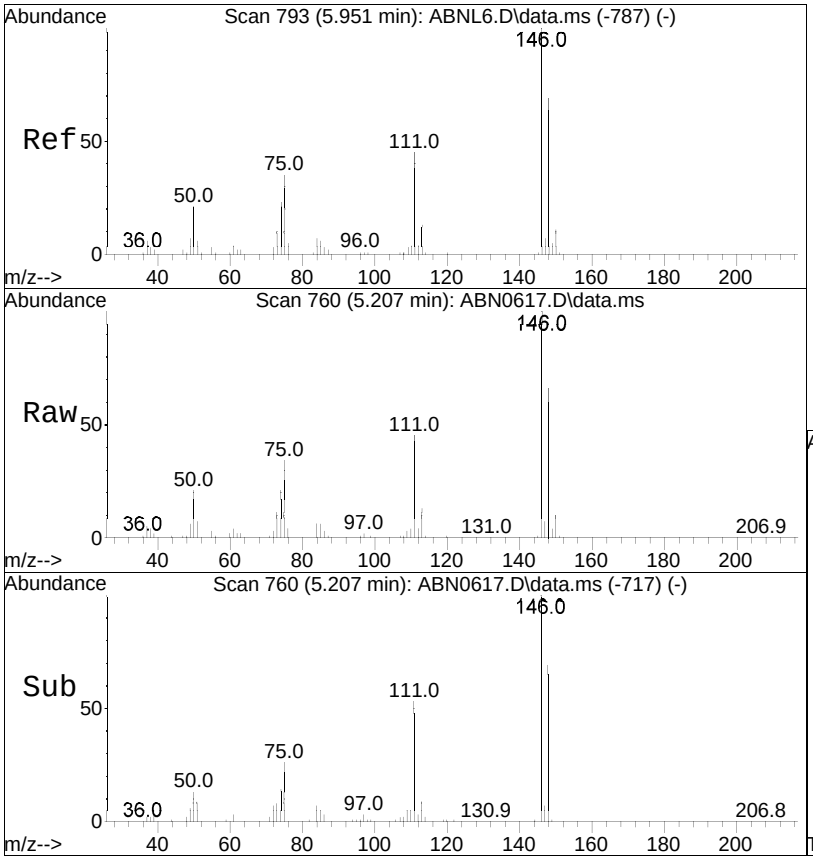


#11
1,4-Dichlorobenzene
Concen: 5.08 ug/ml
RT: 4.960 min Scan# 718
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:146 Resp: 160072

Ion	Ratio	Lower	Upper
146	100		
148	66.8	50.7	76.1
111	42.3	33.4	50.0

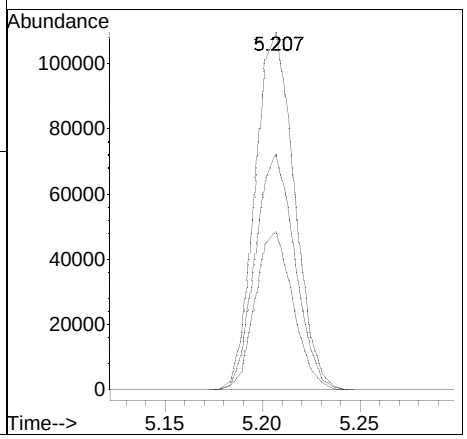


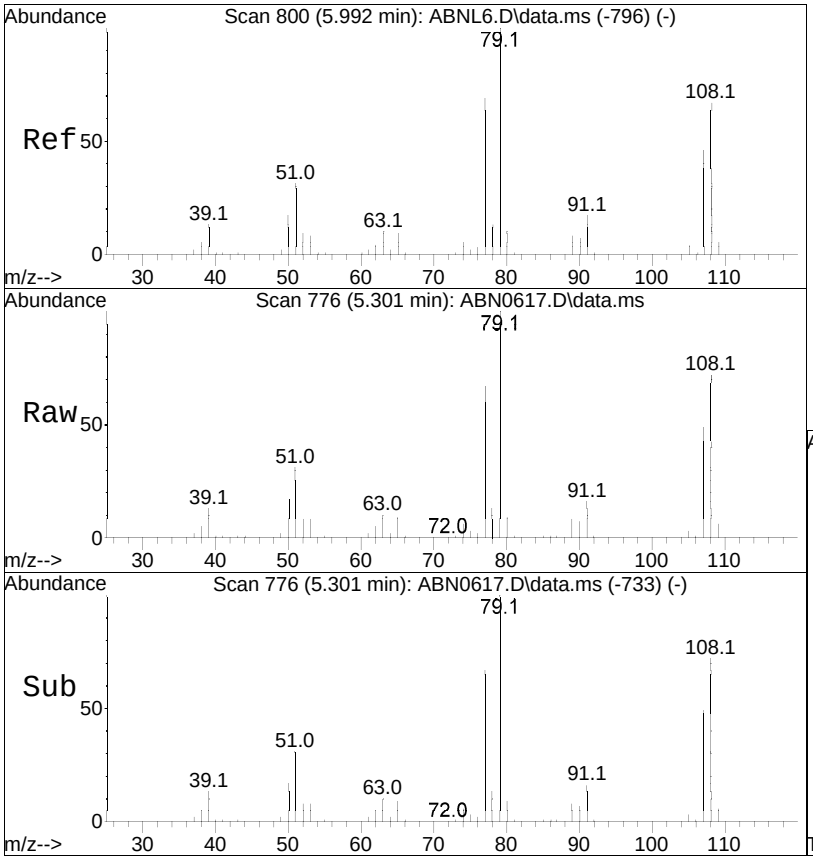


#12
1,2-Dichlorobenzene
Concen: 5.33 ug/ml
RT: 5.207 min Scan# 760
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:146 Resp: 153222

Ion	Ratio	Lower	Upper
146	100		
111	42.7	34.6	52.0
148	66.3	50.2	75.4

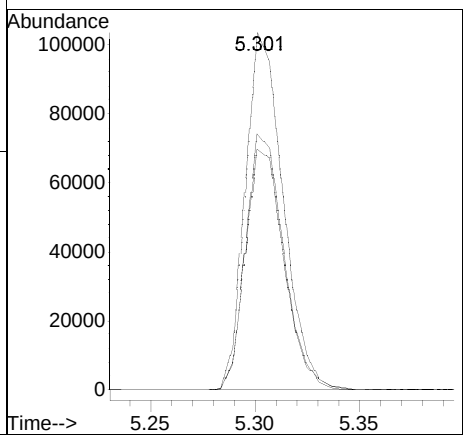


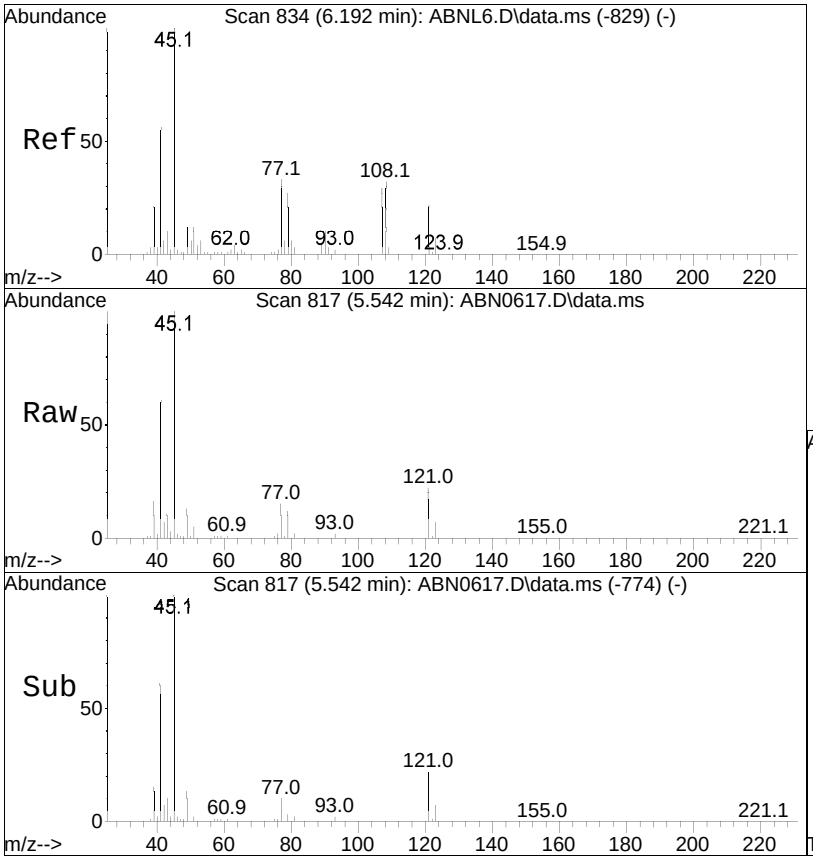


#13
Benzyl alcohol
Concen: 5.17 ug/ml
RT: 5.301 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 79 Resp: 130116

Ion	Ratio	Lower	Upper
79	100		
77	69.2	54.9	82.3
108	72.0	63.1	94.7

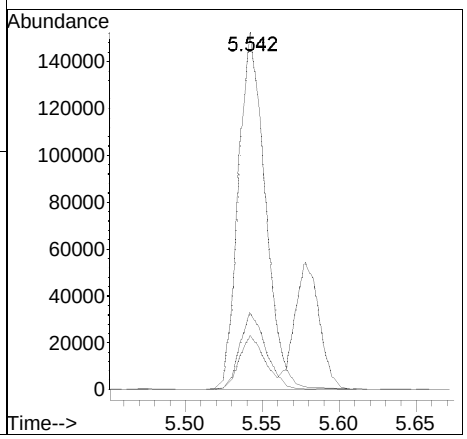


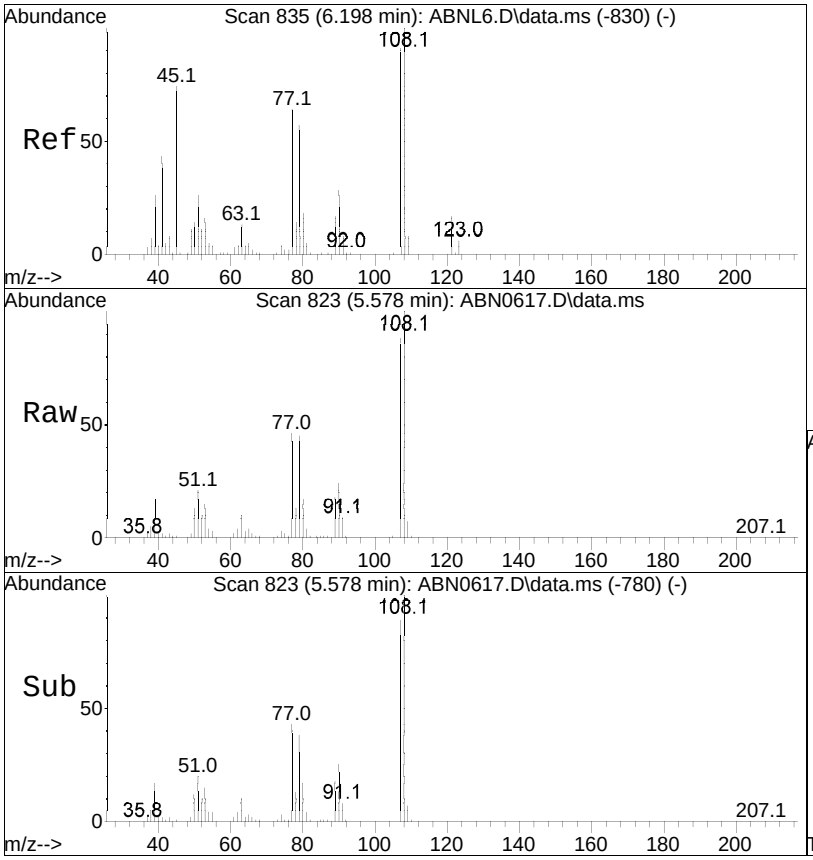


#14
Bis(2-chloroisopropyl)ether
Concen: 4.78 ug/ml
RT: 5.542 min Scan# 817
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 45 Resp: 183932

Ion	Ratio	Lower	Upper
45	100		
121	20.9	9.8	14.6#
77	14.6	6.1	9.1#

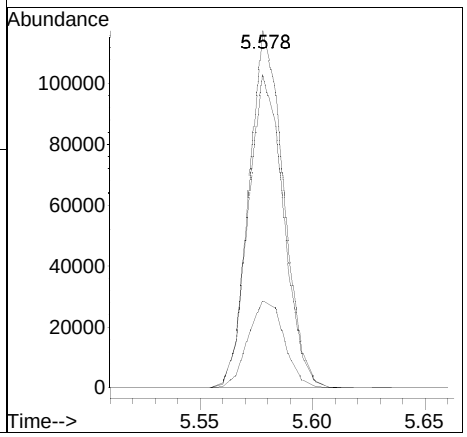


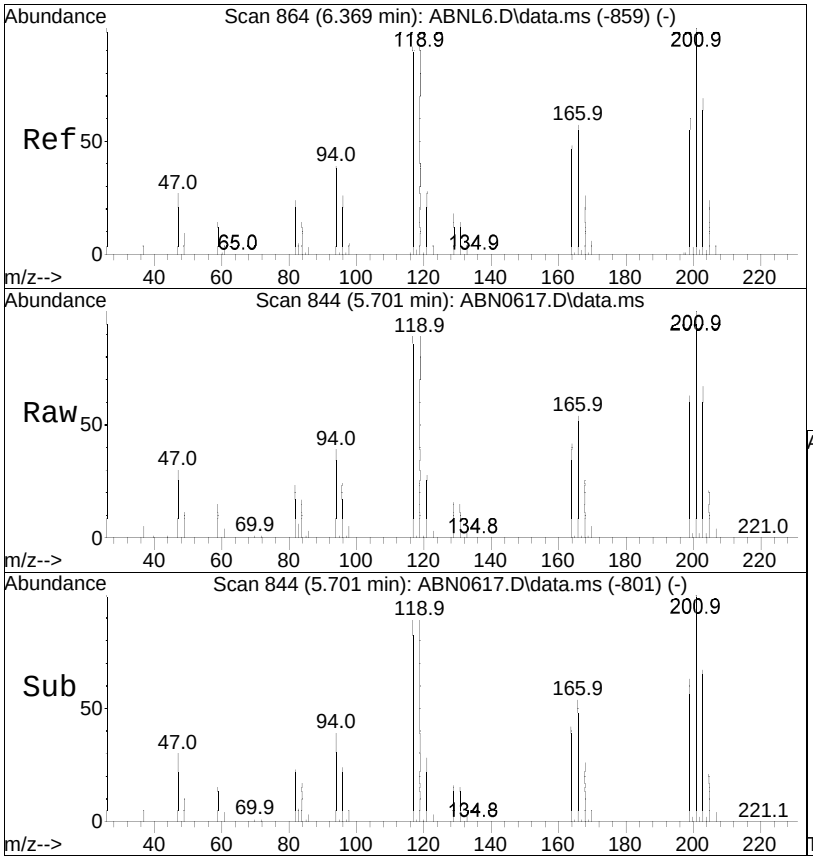


#15
2-Methylphenol
Concen: 5.35 ug/ml
RT: 5.578 min Scan# 823
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:108 Resp: 125497

Ion	Ratio	Lower	Upper
108	100		
107	89.5	70.7	106.1
90	25.5	18.7	28.1

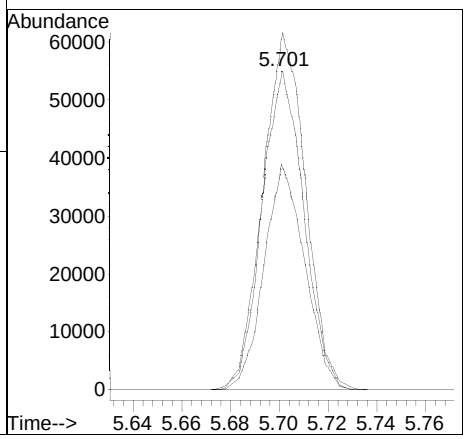


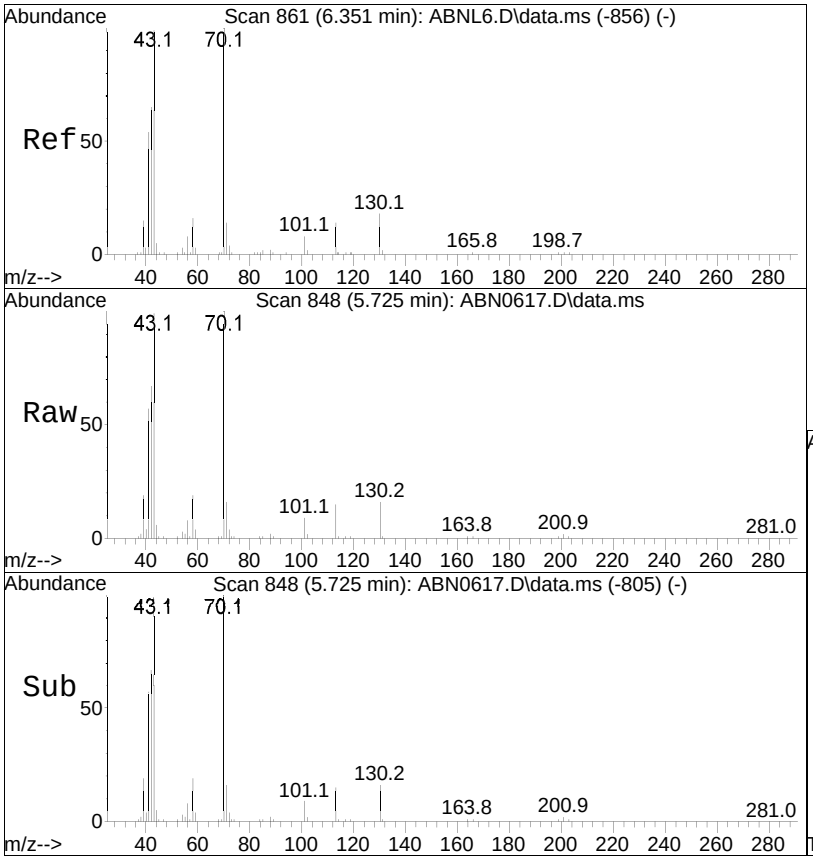


#16
Hexachloroethane
Concen: 5.19 ug/ml
RT: 5.701 min Scan# 844
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:117 Resp: 66677

Ion	Ratio	Lower	Upper
117	100		
201	111.3	58.6	87.8#
199	67.9	36.9	55.3#

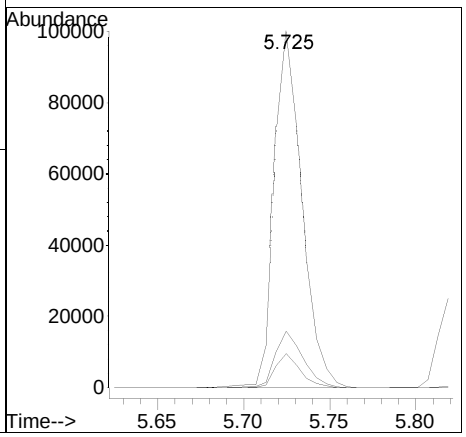


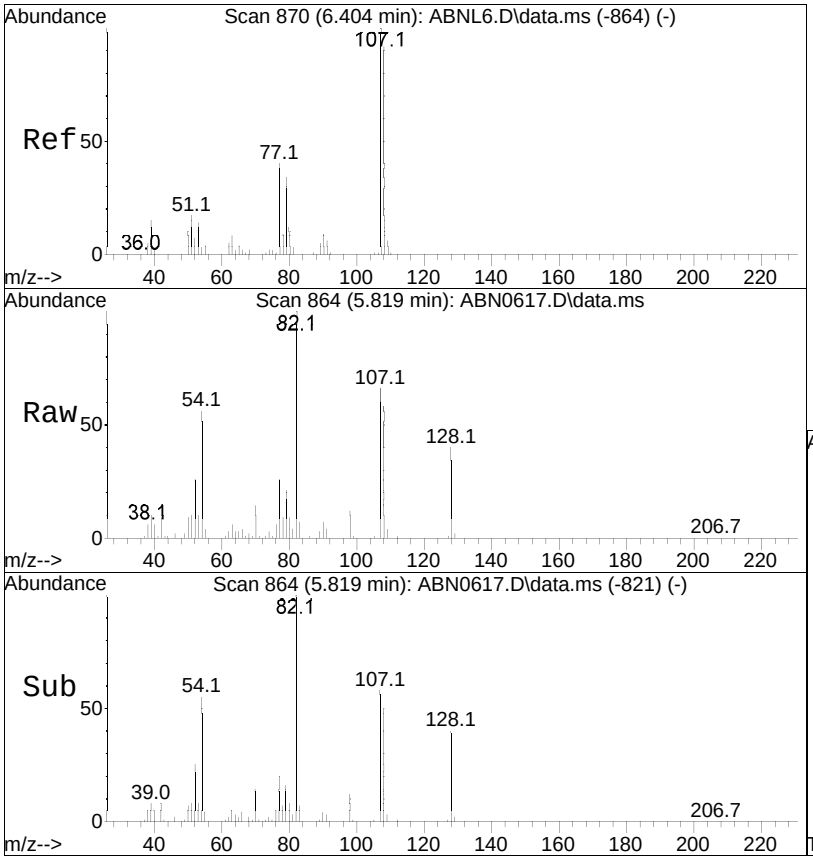


#17
n-Nitrosodi-n-propylamine
Concen: 5.10 ug/ml
RT: 5.725 min Scan# 848
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 70 Resp: 111733

Ion	Ratio	Lower	Upper
70	100		
130	16.0	18.2	27.4#
101	8.6	7.8	11.8

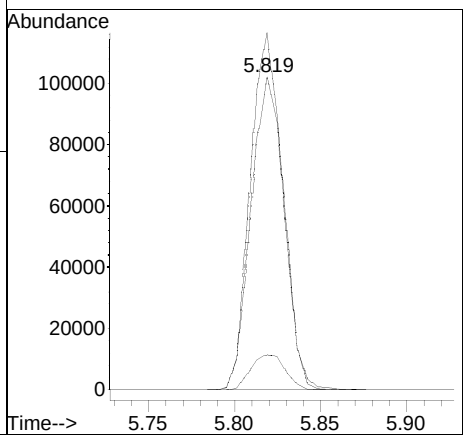


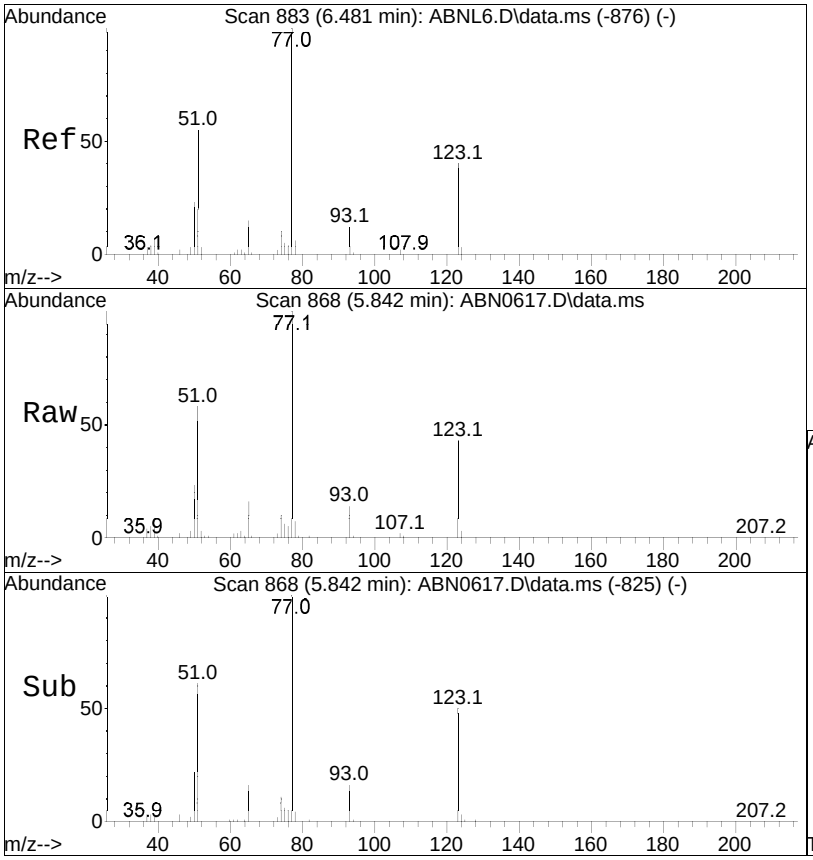


#18
3-Methylphenol/4-Methylphenol
Concen: 5.32 ug/ml
RT: 5.819 min Scan# 864
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:108 Resp: 135706

Ion	Ratio	Lower	Upper
108	100		
107	112.9	88.6	132.8
90	11.8	8.8	13.2

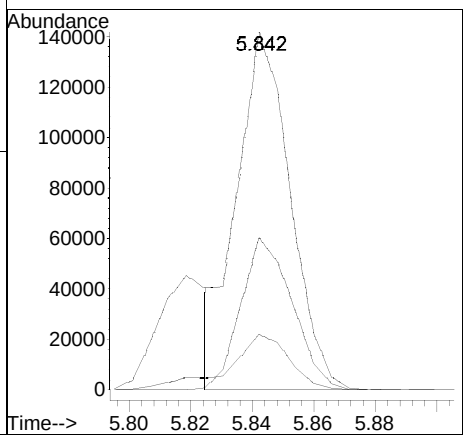


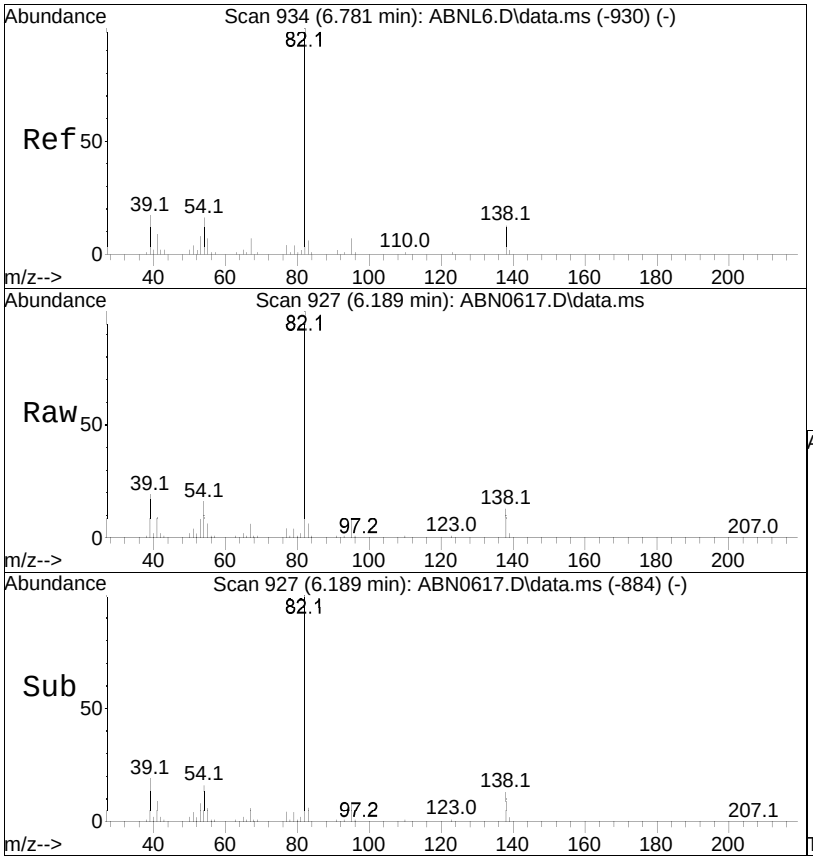


#20
Nitrobenzene
Concen: 5.32 ug/ml M6
RT: 5.842 min Scan# 868
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 77 Resp: 169500

Ion	Ratio	Lower	Upper
77	100		
123	41.4	36.3	54.5
65	18.1	11.6	17.4#

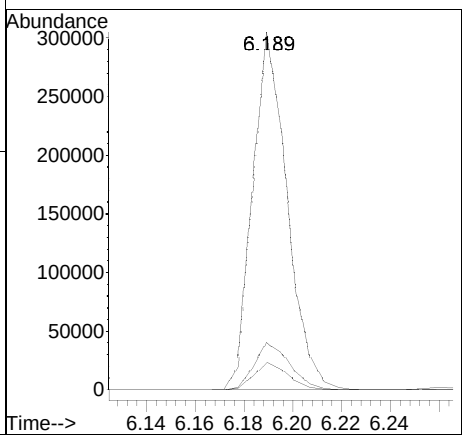


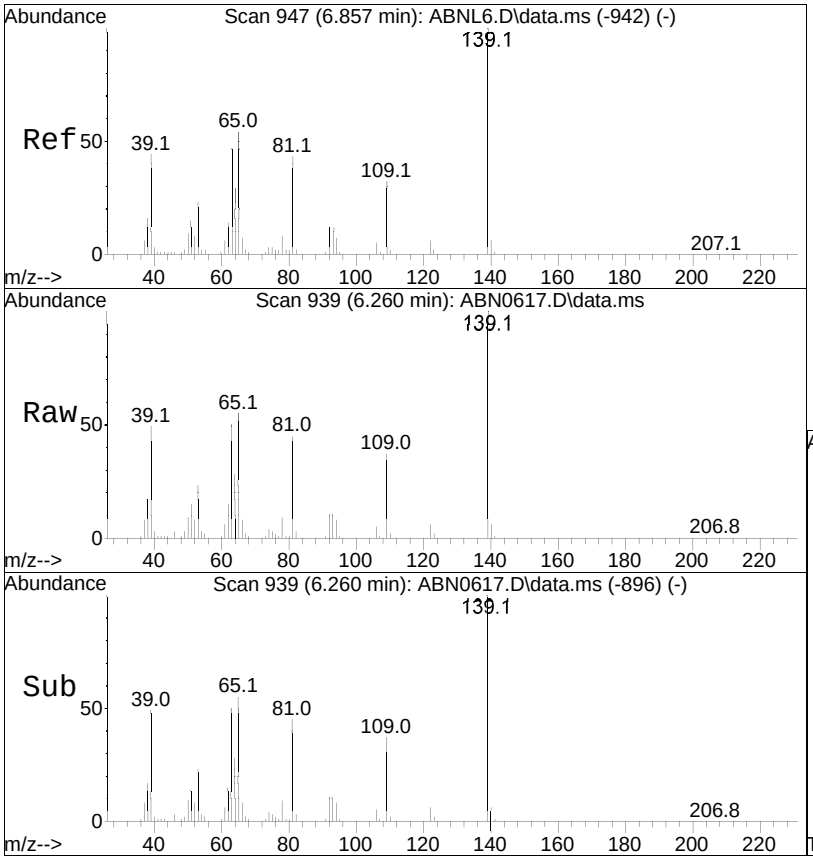


#21
Isophorone
Concen: 5.24 ug/ml
RT: 6.189 min Scan# 927
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 82 Resp: 296433

Ion	Ratio	Lower	Upper
82	100		
138	13.8	14.7	22.1#
95	7.7	5.2	7.8

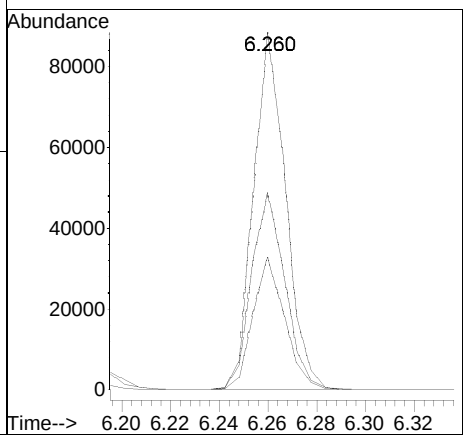


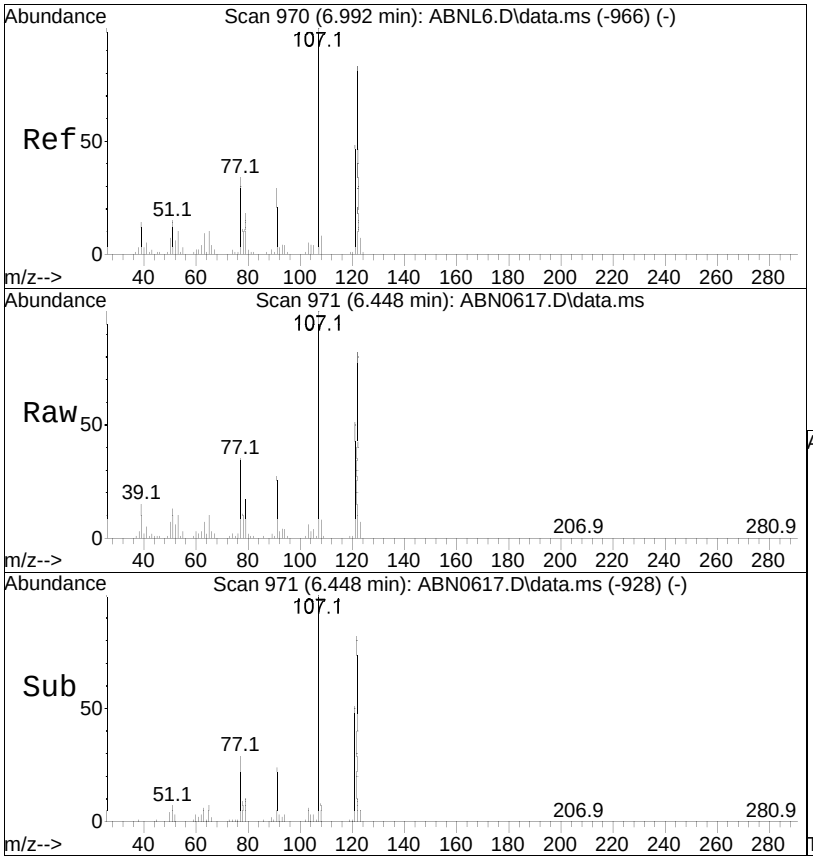


#22
2-Nitrophenol
Concen: 6.09 ug/ml
RT: 6.260 min Scan# 939
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:139 Resp: 80367

Ion	Ratio	Lower	Upper
139	100		
109	37.0	19.4	29.0#
65	57.7	46.1	69.1

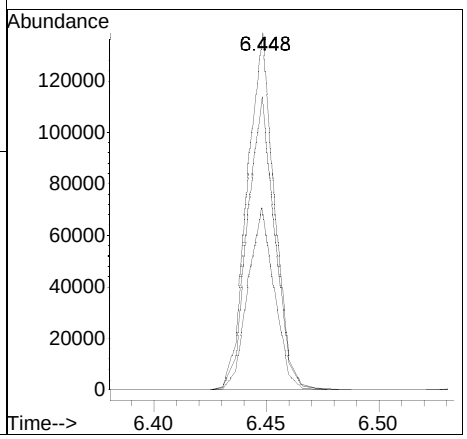


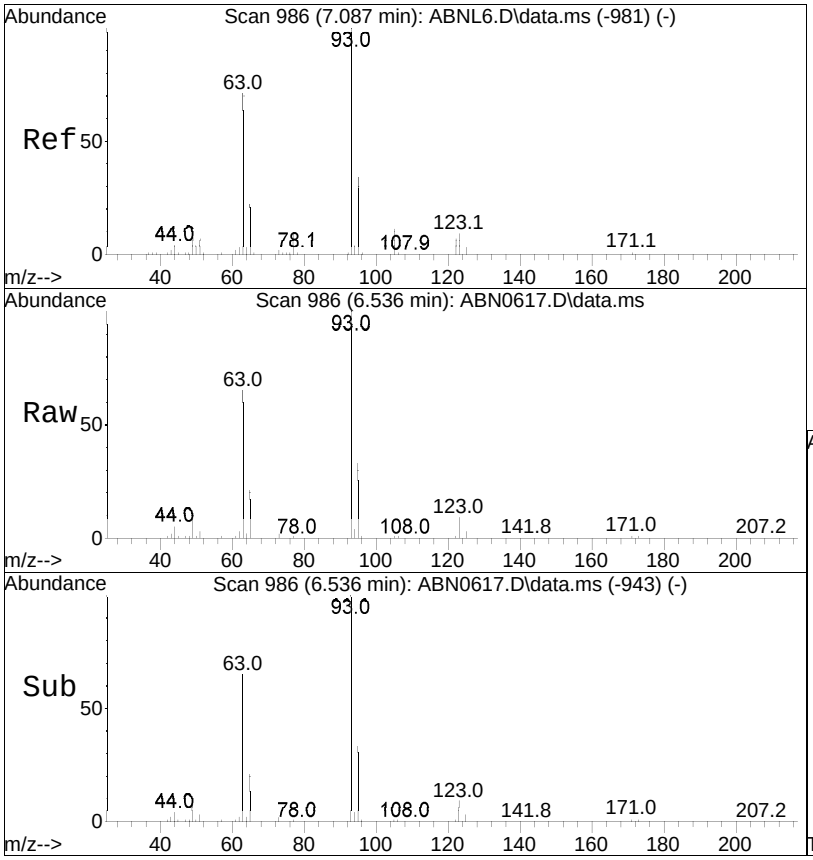


#23
2,4-Dimethylphenol
Concen: 4.34 ug/ml
RT: 6.448 min Scan# 971
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:107 Resp: 115979

Ion	Ratio	Lower	Upper
107	100		
121	49.8	40.0	60.0
122	81.9	70.2	105.4

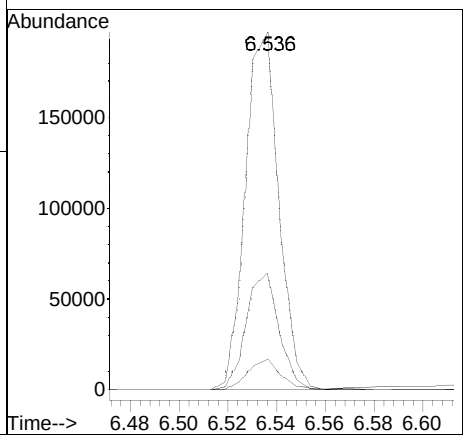


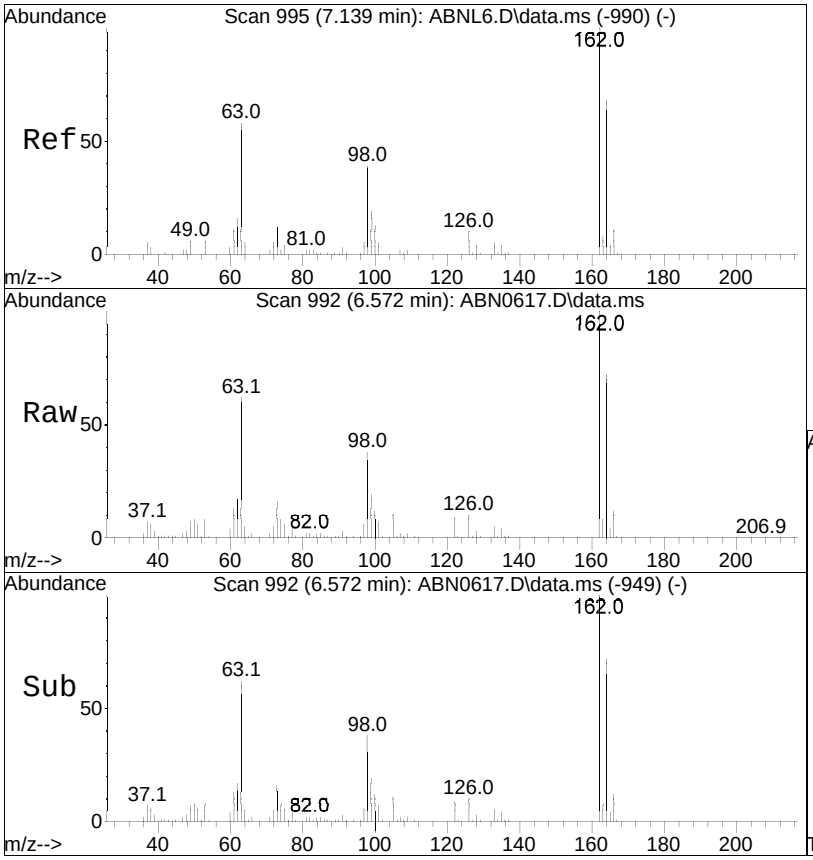


#24
Bis(2-chloroethoxy)methane
Concen: 5.24 ug/ml
RT: 6.536 min Scan# 986
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 93 Resp: 186130

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	8.6	10.1	15.1#

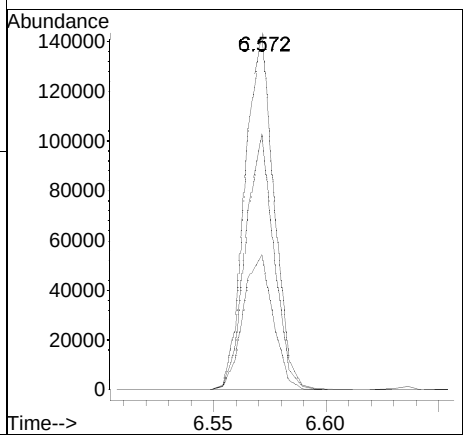


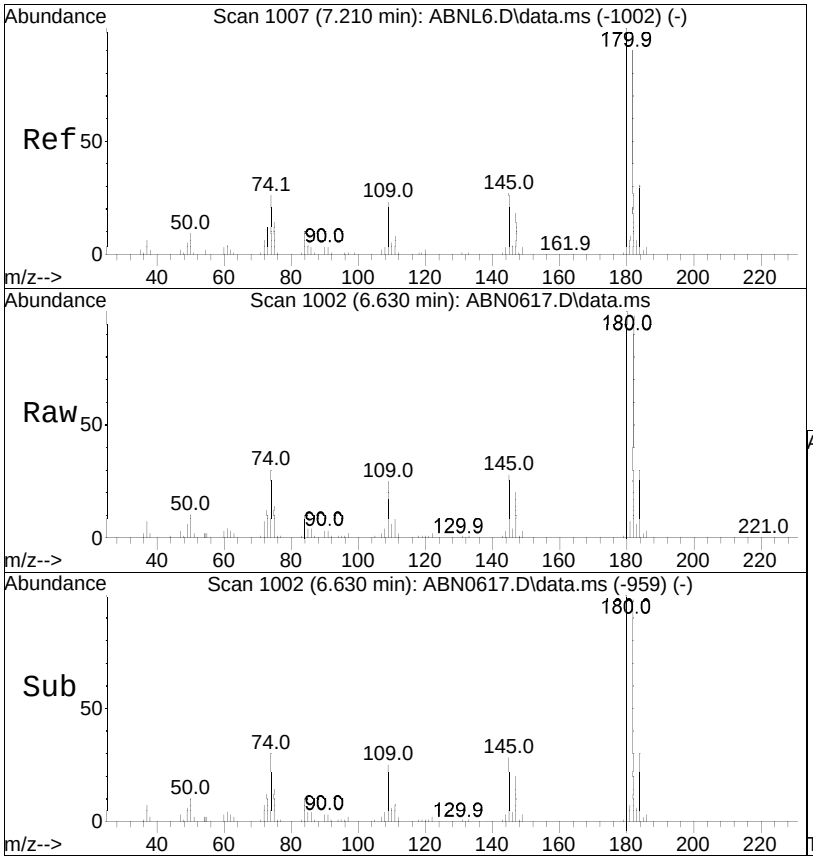


#25
2,4-Dichlorophenol
Concen: 5.24 ug/ml
RT: 6.572 min Scan# 992
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:162 Resp: 127649

Ion	Ratio	Lower	Upper
162	100		
164	70.1	51.0	76.4
98	39.2	32.2	48.2

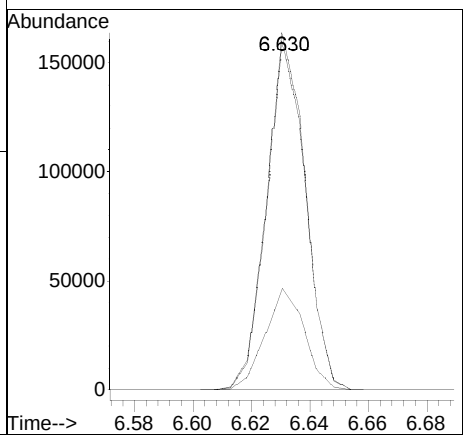


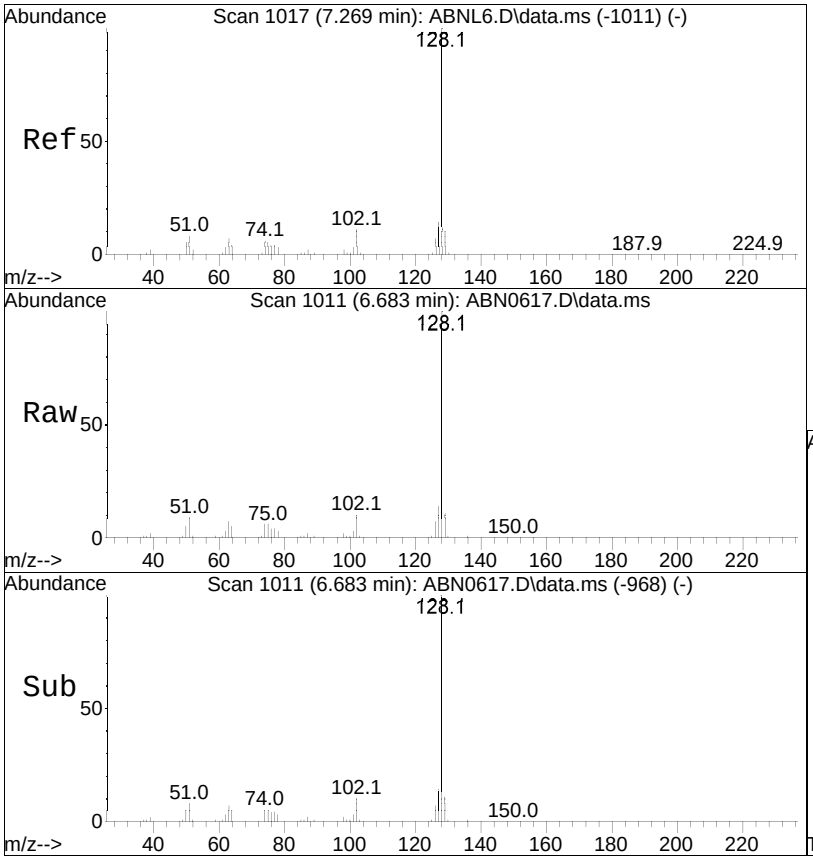


#26
1,2,4-Trichlorobenzene
Concen: 5.04 ug/ml
RT: 6.630 min Scan# 1002
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:180 Resp: 149994

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.0	114.0
145	28.9	25.7	38.5

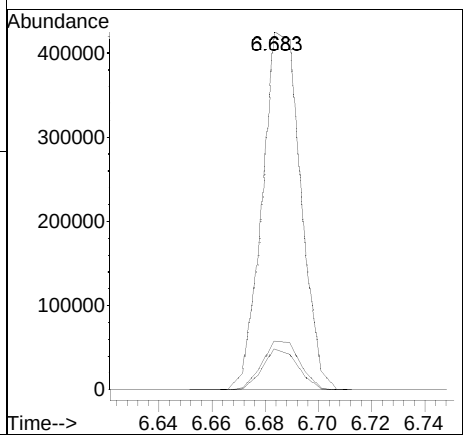


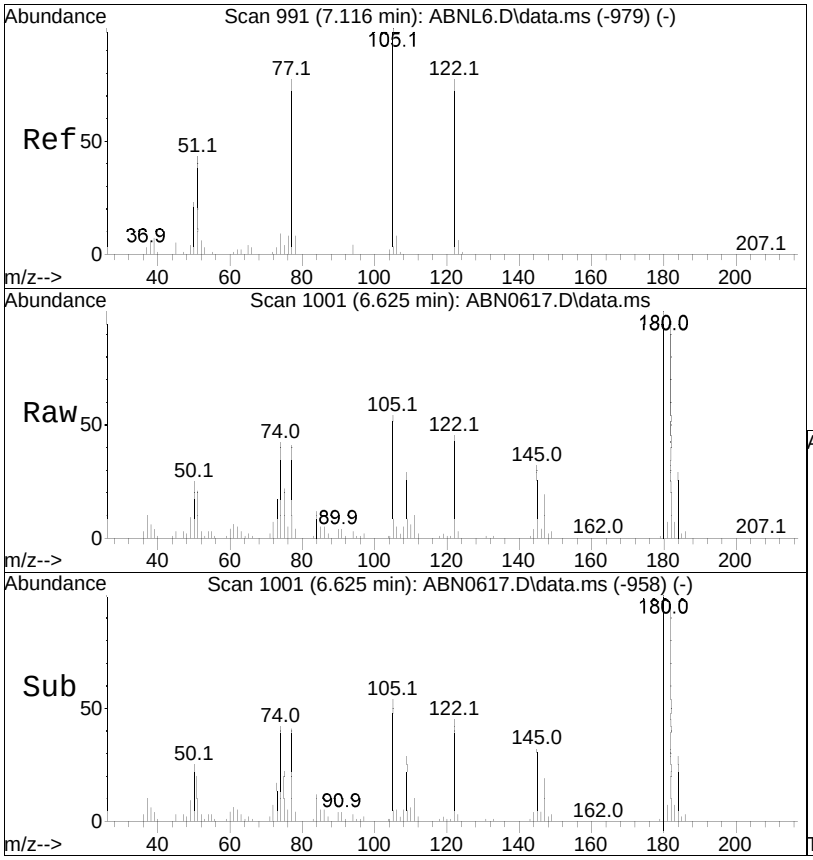


#35
Naphthalene
Concen: 4.91 ug/ml
RT: 6.683 min Scan# 1011
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:128 Resp: 423121

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.6	10.3	15.5

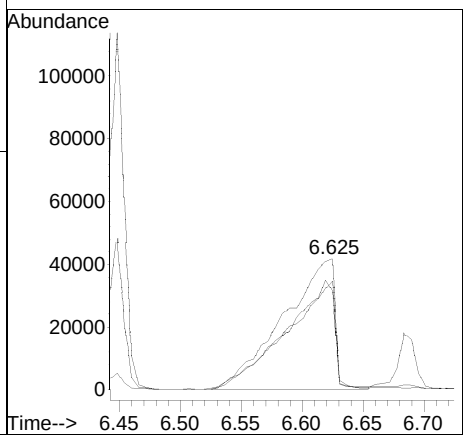


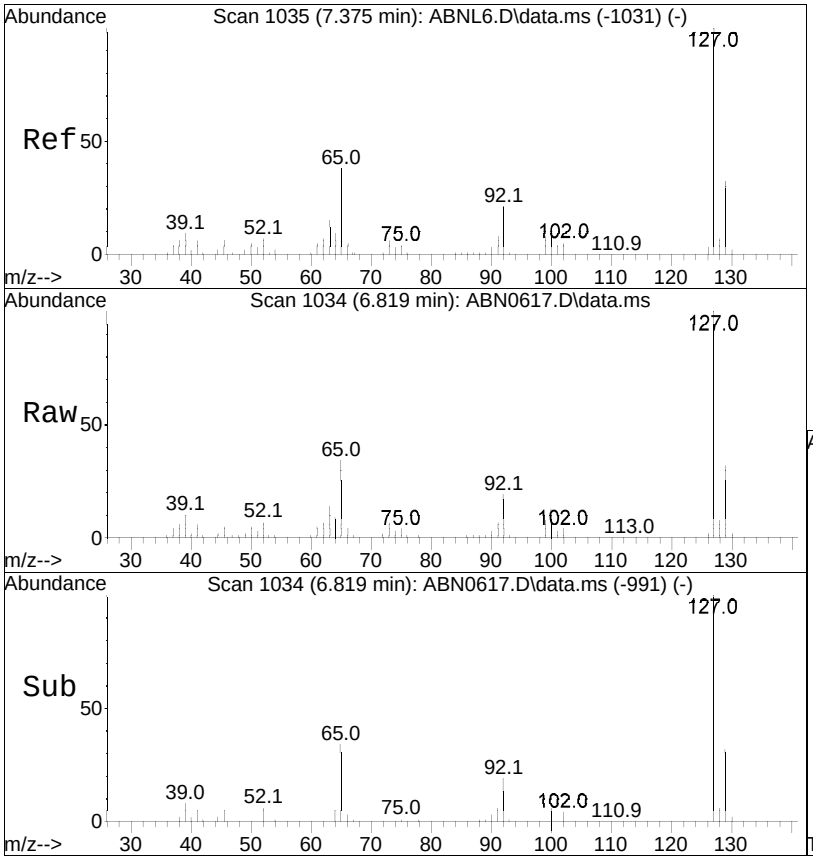


#36
Benzoic Acid
Concen: 5.74 ug/ml
RT: 6.625 min Scan# 1001
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:105 Resp: 123042

Ion	Ratio	Lower	Upper
105	100		
122	78.9	59.9	89.9
77	78.8	60.1	90.1

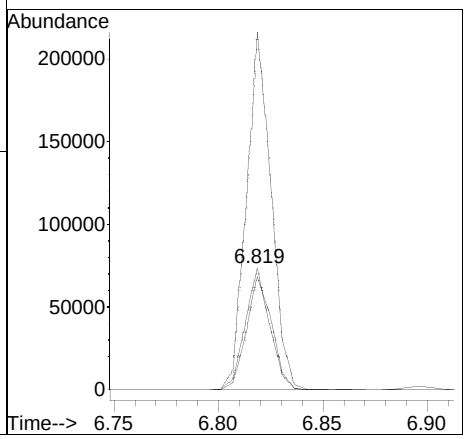


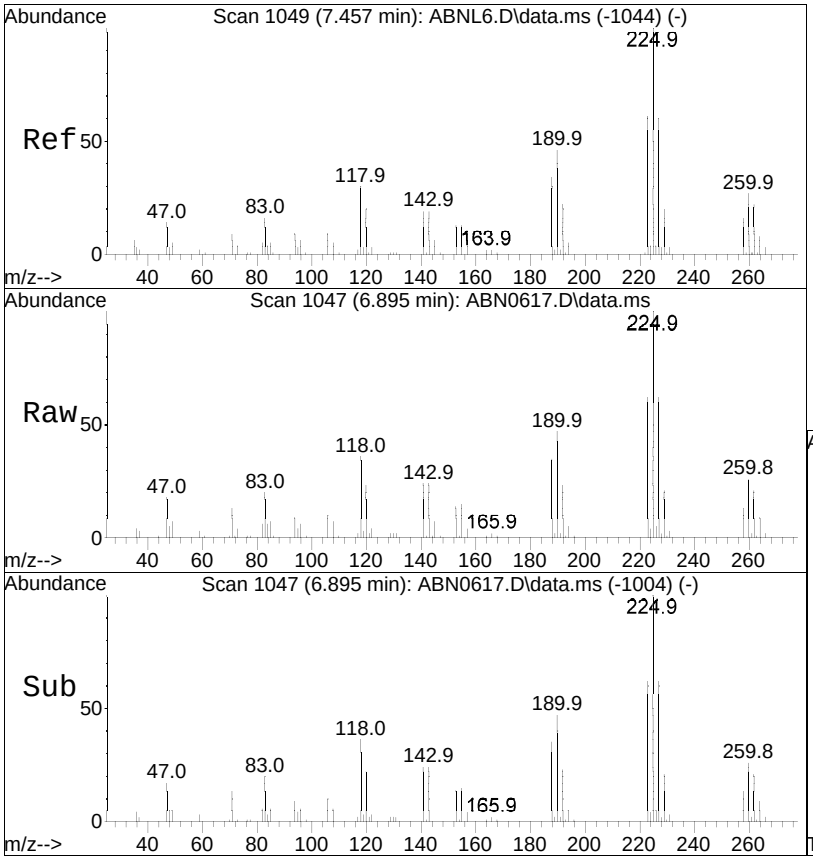


#37
4-Chloroaniline
Concen: 4.60 ug/ml
RT: 6.819 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 65 Resp: 59456

Ion	Ratio	Lower	Upper
65	100		
127	294.2	237.6	356.4
129	96.3	76.3	114.5

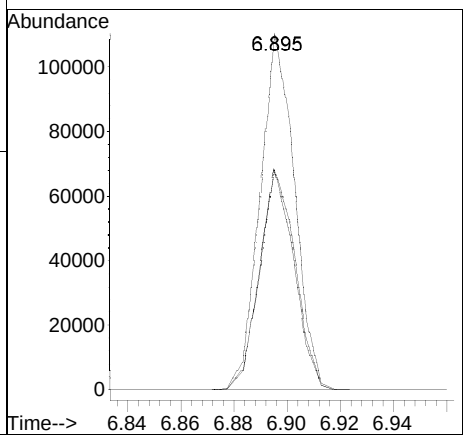


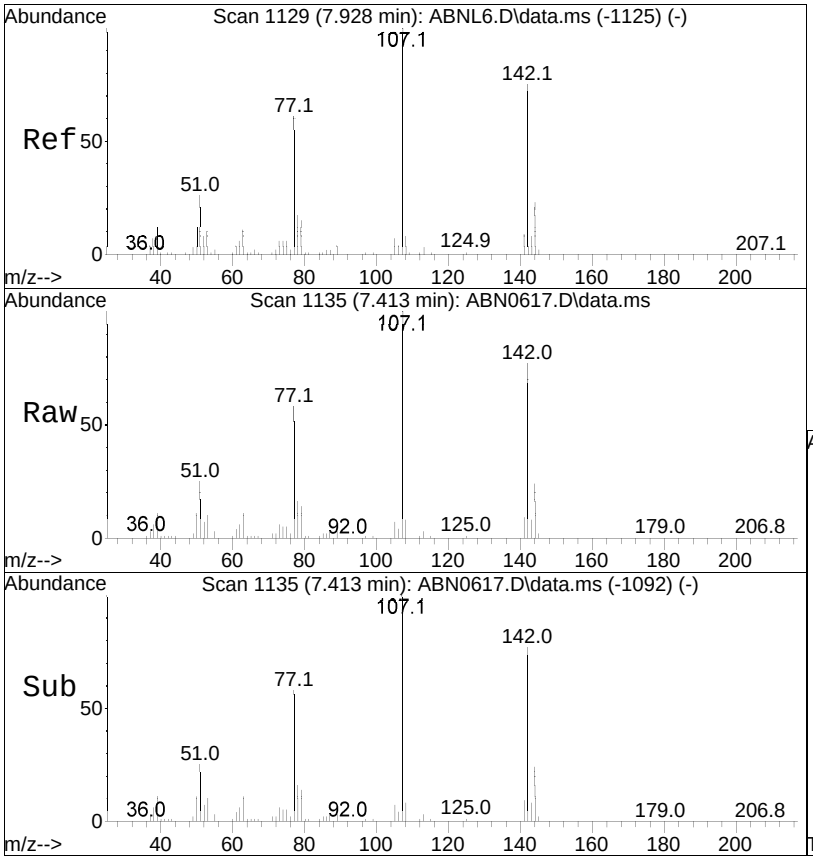


#38
Hexachlorobutadiene
Concen: 4.46 ug/ml
RT: 6.895 min Scan# 1047
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:225 Resp: 98993

Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.3	75.5
227	64.2	52.2	78.2

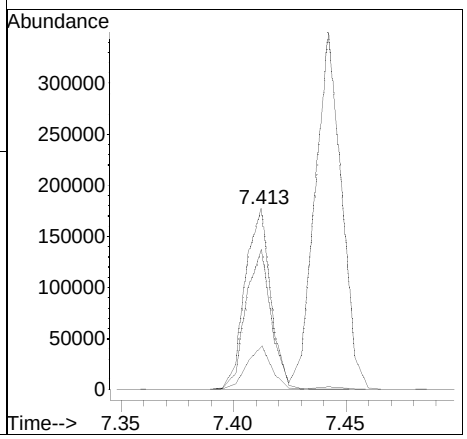


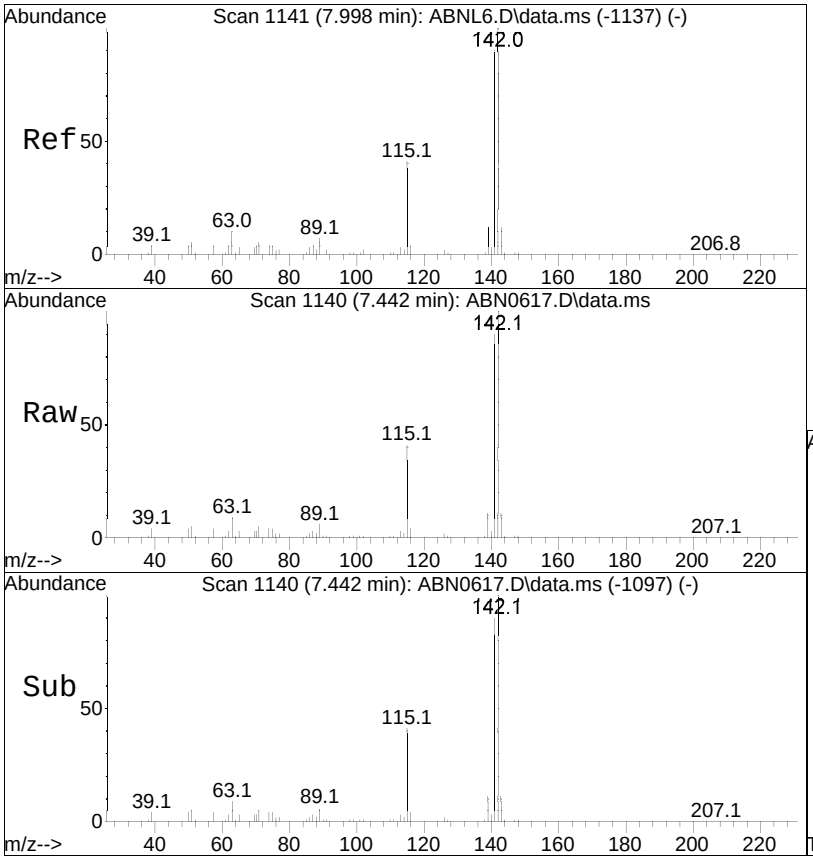


#39
p-Chloro-m-cresol
Concen: 5.29 ug/ml
RT: 7.413 min Scan# 1135
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:107 Resp: 139749

Ion	Ratio	Lower	Upper
107	100		
144	23.5	20.9	31.3
142	77.4	66.1	99.1

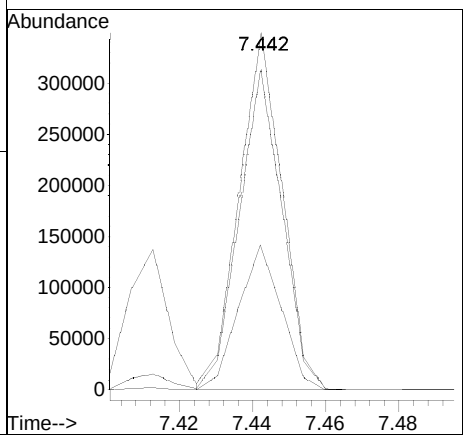


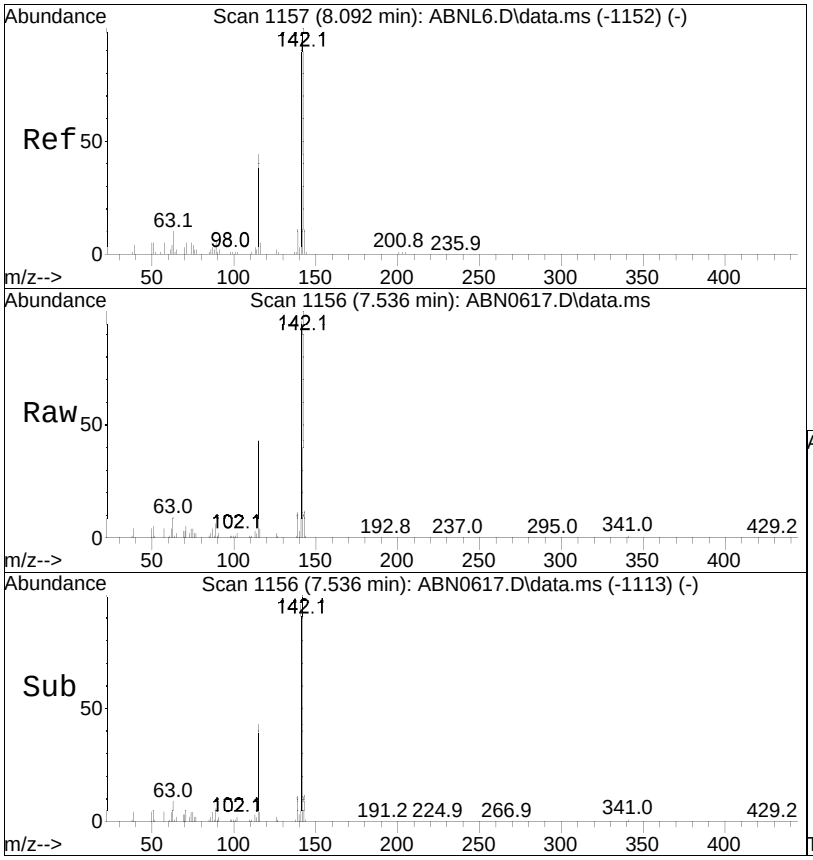


#40
2-Methylnaphthalene
Concen: 4.96 ug/ml
RT: 7.442 min Scan# 1140
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:142 Resp: 284836

Ion	Ratio	Lower	Upper
142	100		
141	89.3	69.6	104.4
115	41.7	26.6	40.0#

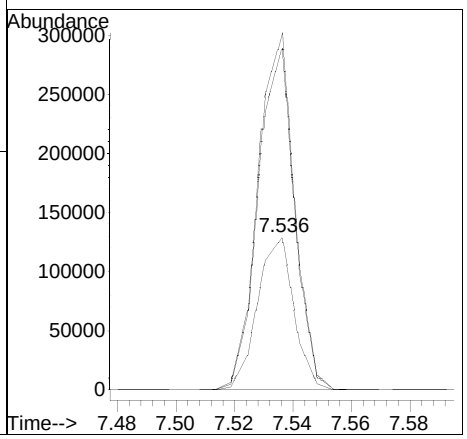


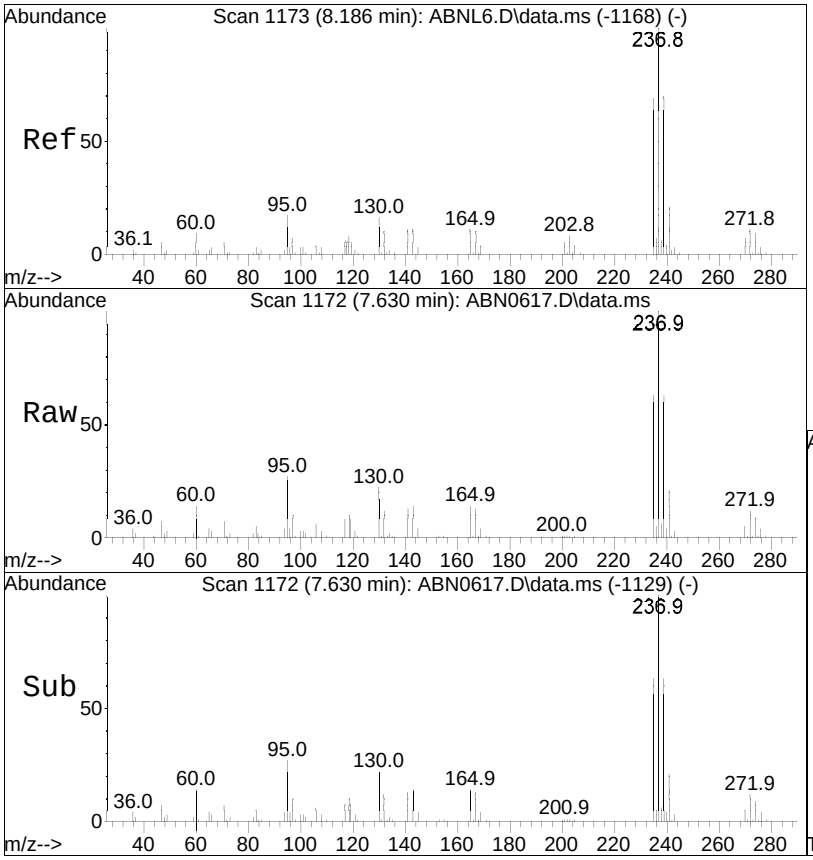


#41
1-Methylnaphthalene
Concen: 4.67 ug/ml
RT: 7.536 min Scan# 1156
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:115 Resp: 112078

Ion	Ratio	Lower	Upper
115	100		
141	222.0	207.8	311.6
142	234.1	226.8	340.2

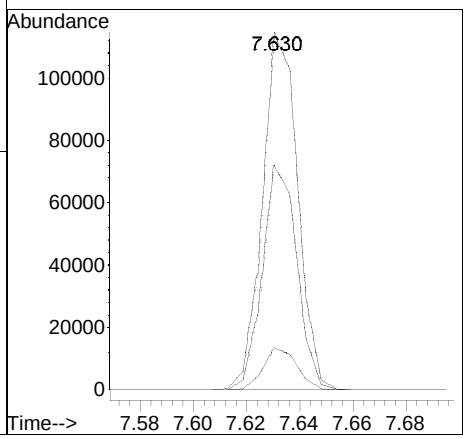


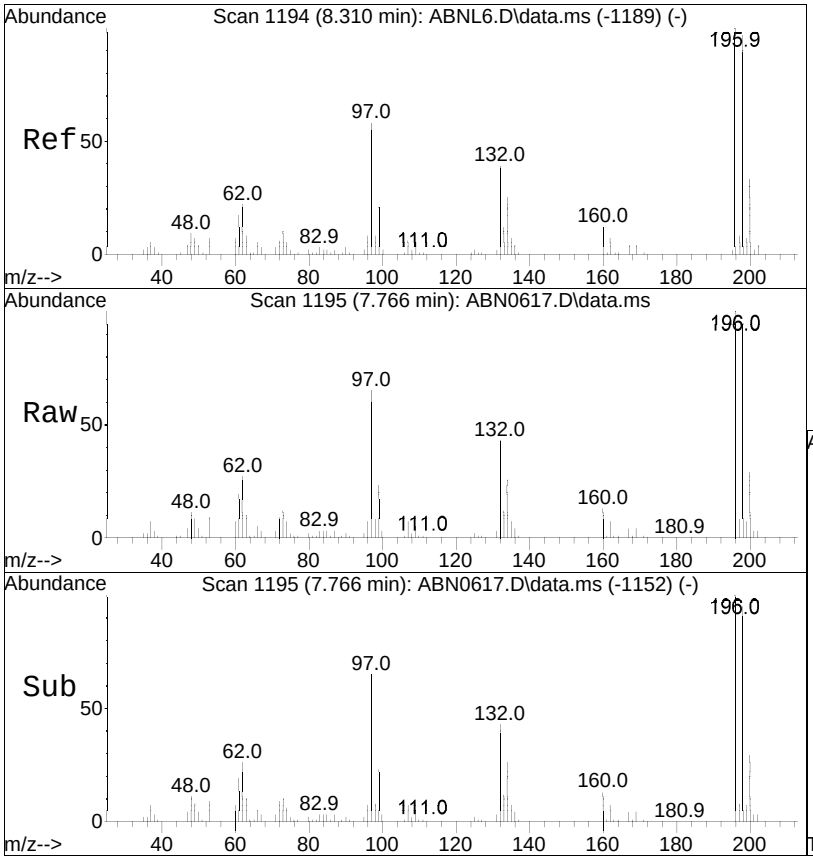


#42
Hexachlorocyclopentadiene
Concen: 4.73 ug/ml
RT: 7.630 min Scan# 1172
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:237 Resp: 104255

Ion	Ratio	Lower	Upper
237	100		
235	61.6	49.7	74.5
272	11.4	9.8	14.6

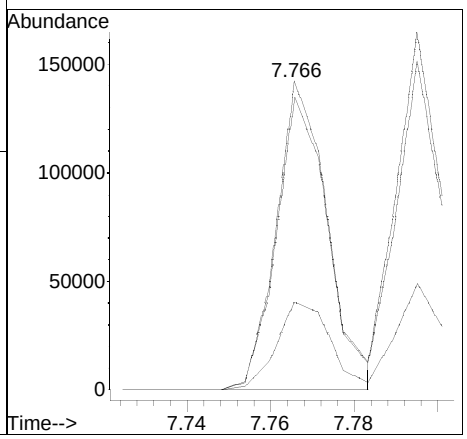


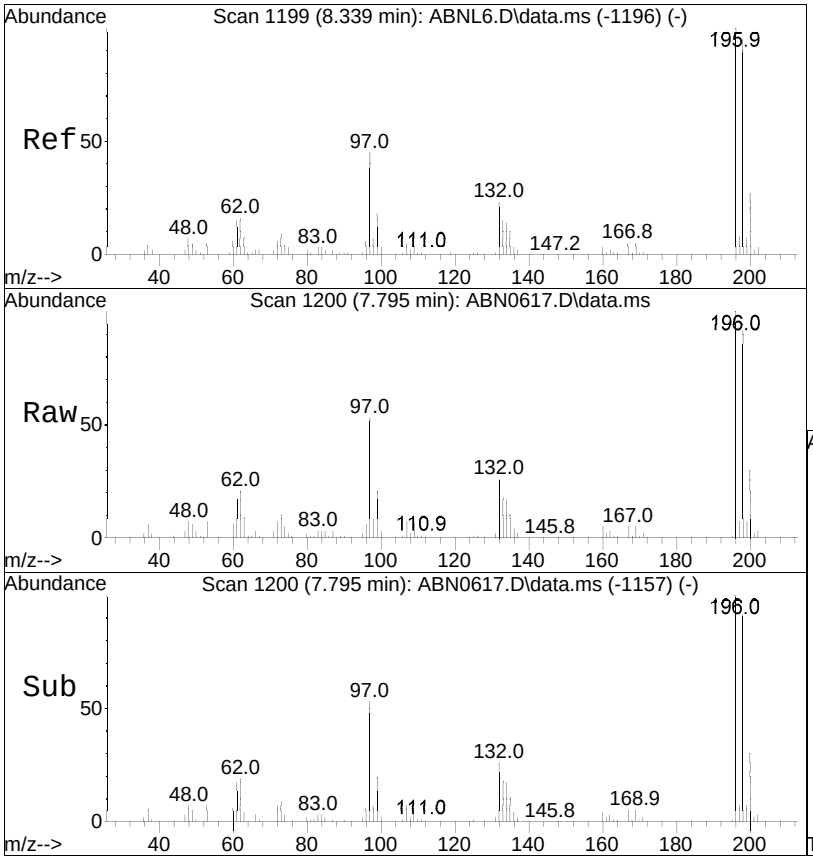


#43
2,4,6-Trichlorophenol
Concen: 5.63 ug/ml
RT: 7.766 min Scan# 1195
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:196 Resp: 120826

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.5	116.3
200	30.2	23.8	35.6

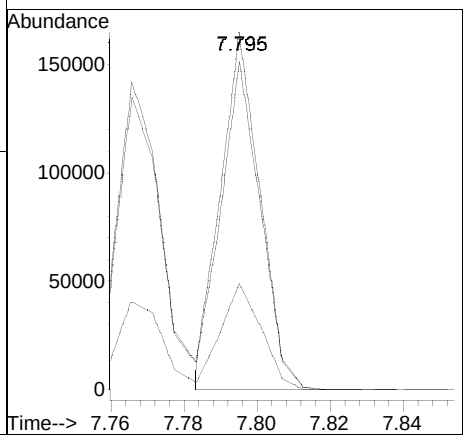


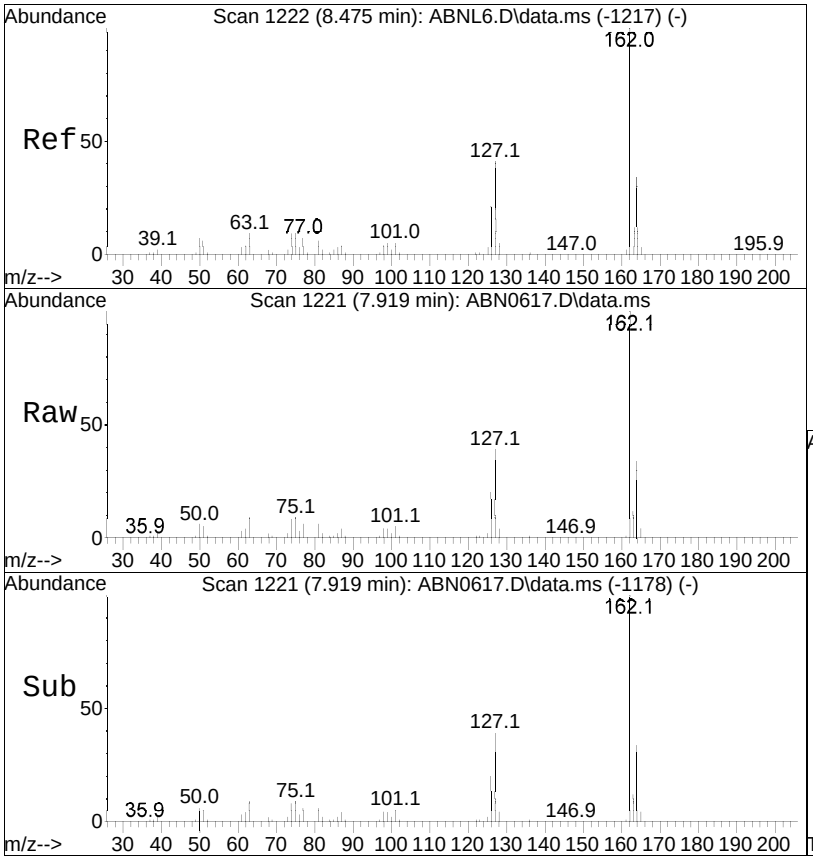


#44
2,4,5-Trichlorophenol
Concen: 5.27 ug/ml
RT: 7.795 min Scan# 1200
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:196 Resp: 123092

Ion	Ratio	Lower	Upper
196	100		
200	30.6	25.4	38.0
198	92.2	78.0	117.0

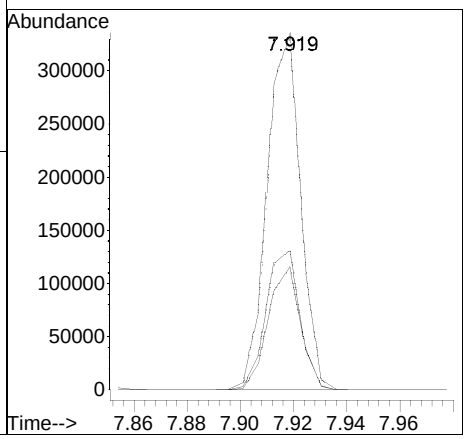


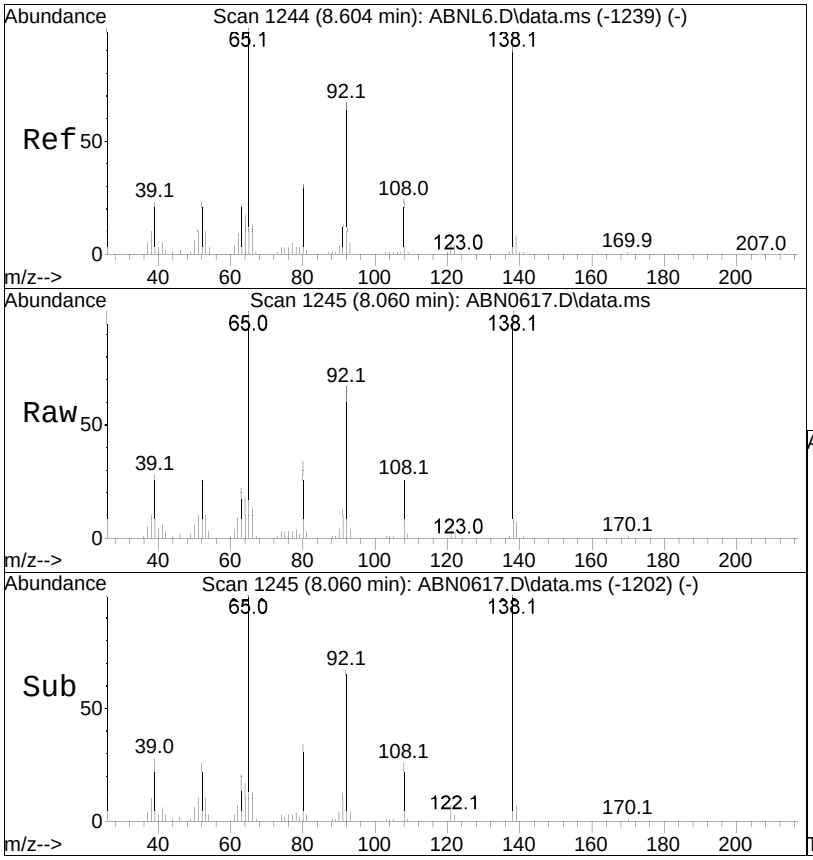


#46
2-Chloronaphthalene
Concen: 4.85 ug/ml
RT: 7.919 min Scan# 1221
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:162 Resp: 290886

Ion	Ratio	Lower	Upper
162	100		
127	39.8	32.2	48.4
164	33.6	25.7	38.5

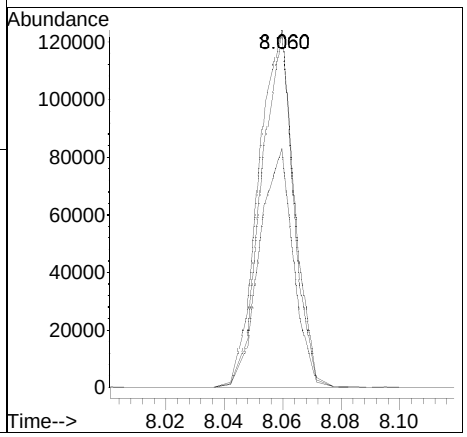


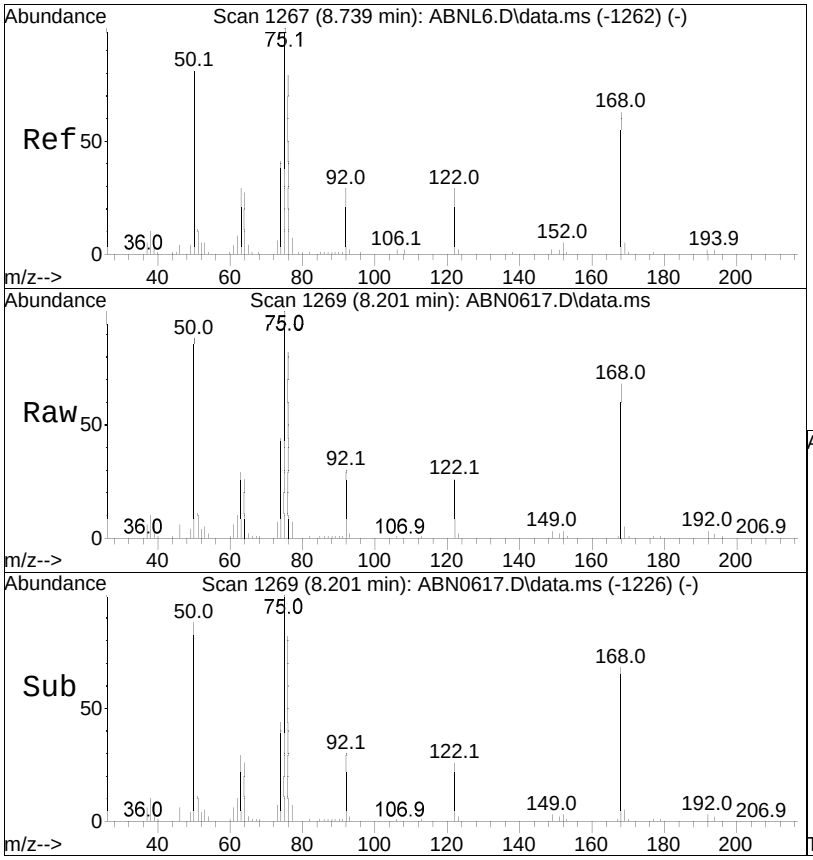


#47
2-Nitroaniline
Concen: 5.55 ug/ml
RT: 8.060 min Scan# 1245
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:138 Resp: 96417

Ion	Ratio	Lower	Upper
138	100		
92	68.9	53.5	80.3
65	105.9	86.3	129.5

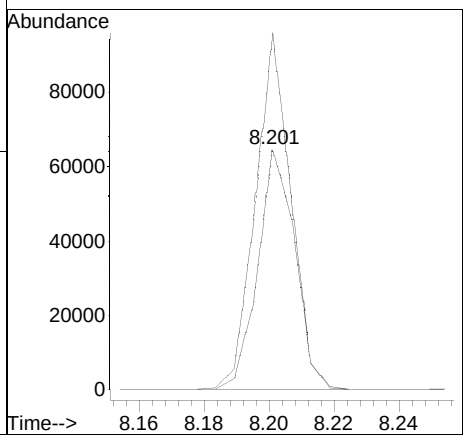


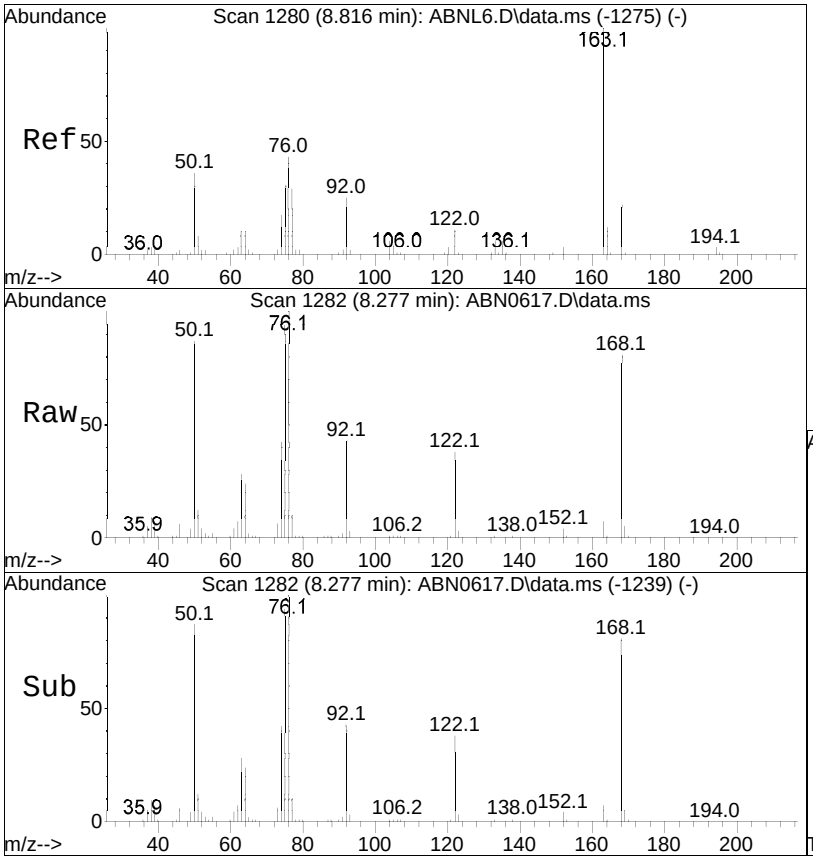


#48
1,4-Dinitrobenzene
Concen: 5.56 ug/ml
RT: 8.201 min Scan# 1269
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:168 Resp: 51166

Ion	Ratio	Lower	Upper
168	100		
75	141.0	121.8	182.8

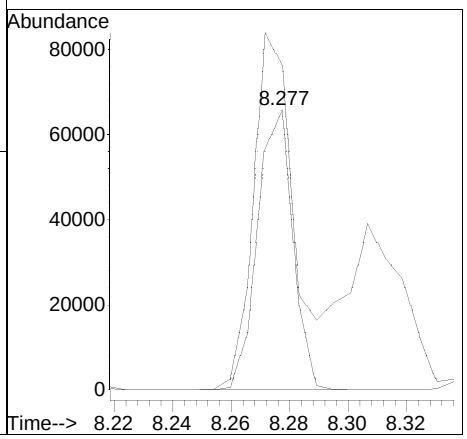


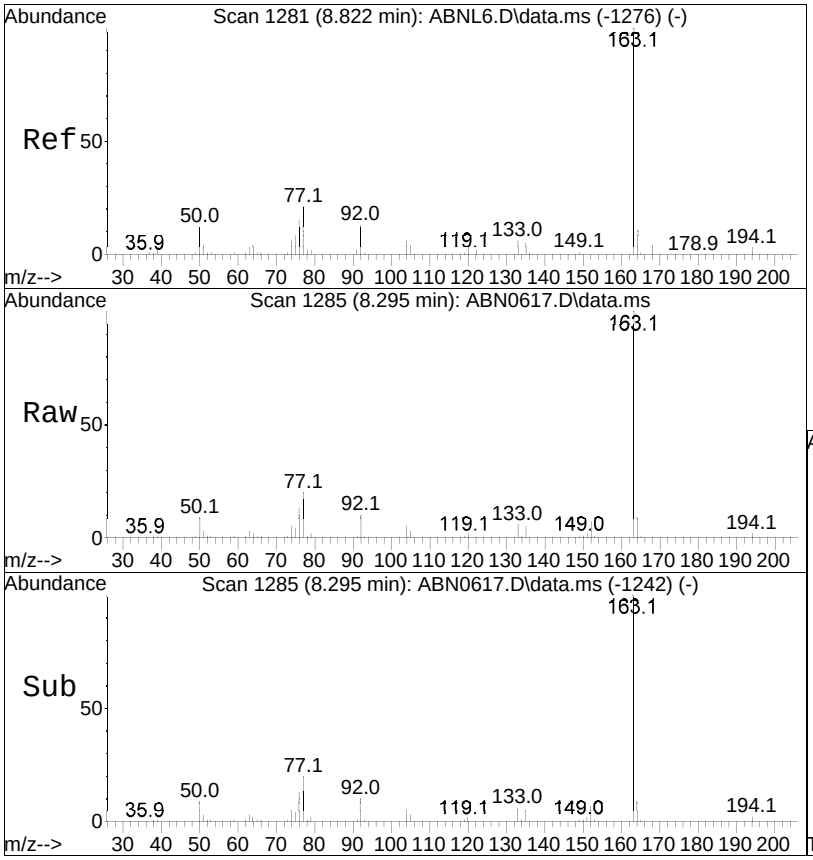


#49
1,3-Dinitrobenzene
Concen: 5.25 ug/ml
RT: 8.277 min Scan# 1282
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:168 Resp: 55196

Ion	Ratio	Lower	Upper
168	100		
75	143.9	22.7	34.1#

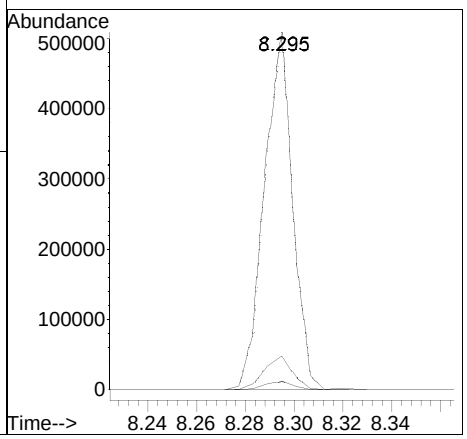


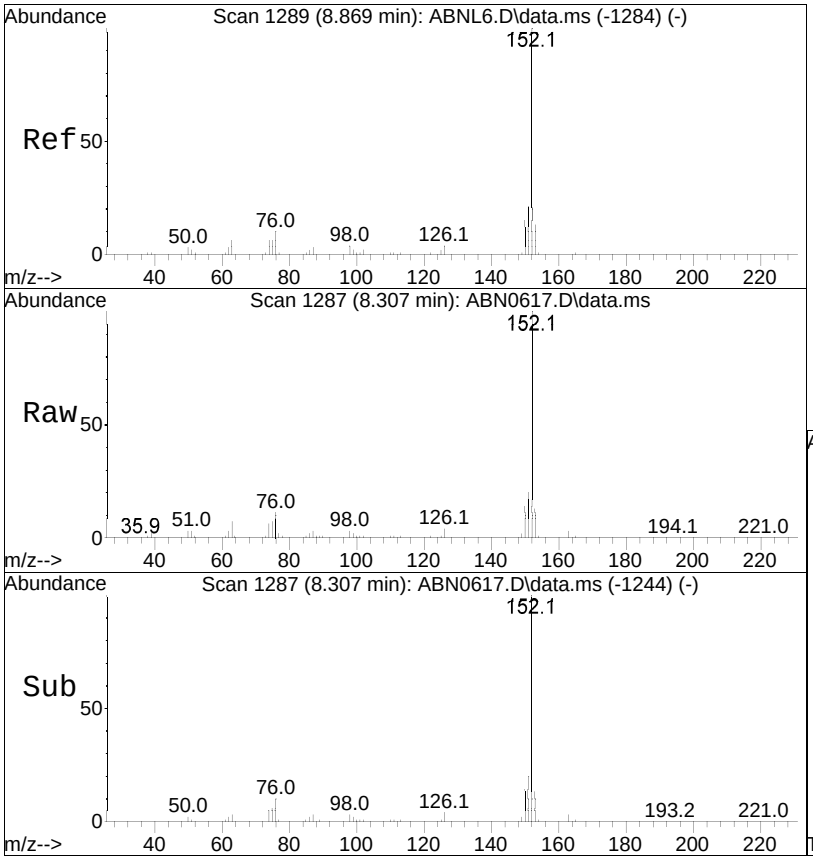


#50
Dimethyl phthalate
Concen: 5.09 ug/ml
RT: 8.295 min Scan# 1285
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:163 Resp: 403452

Ion	Ratio	Lower	Upper
163	100		
194	2.5	3.5	5.3#
164	10.1	7.9	11.9

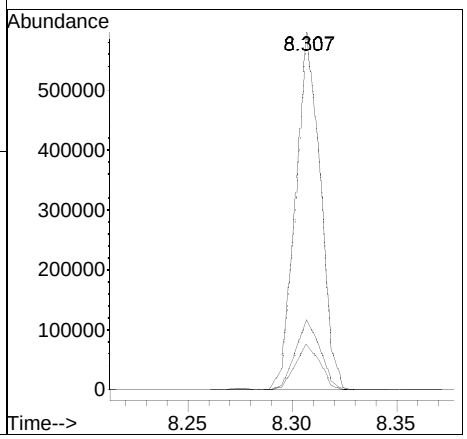


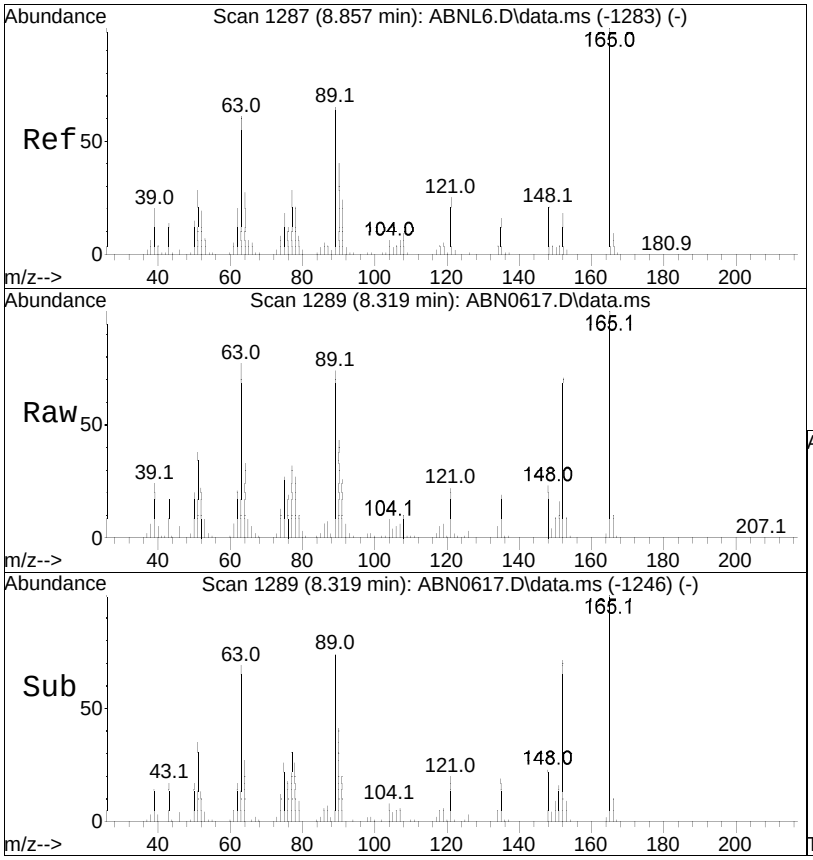


#51
Acenaphthylene
Concen: 5.22 ug/ml
RT: 8.307 min Scan# 1287
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:152 Resp: 487329

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.1	10.5	15.7

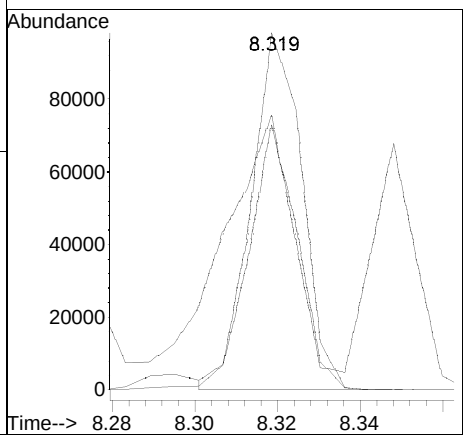


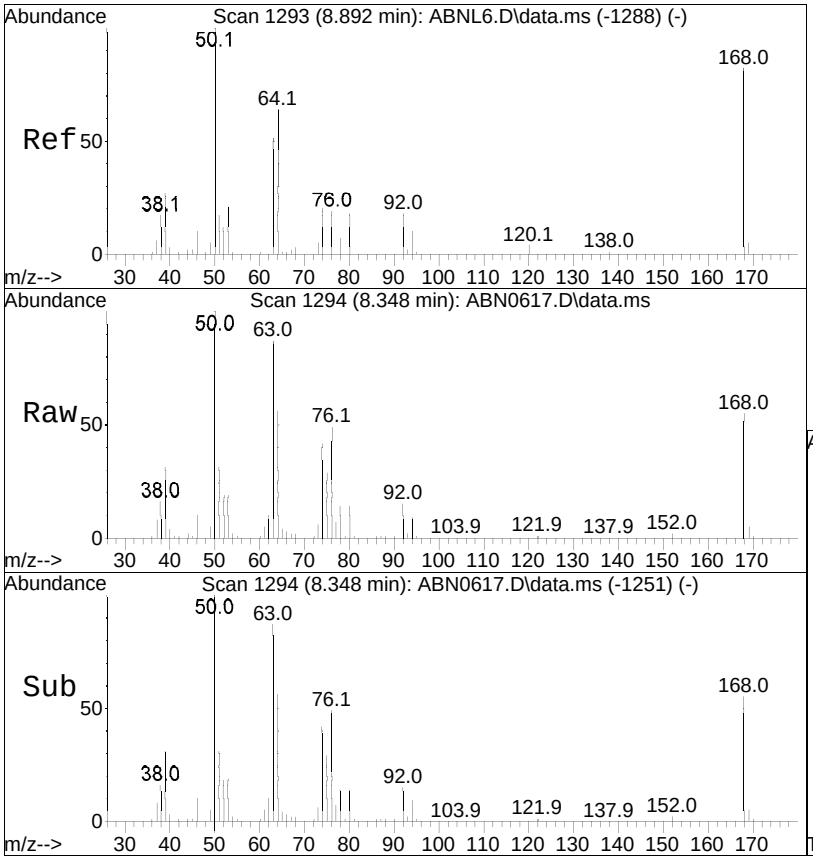


#52
2,6-Dinitrotoluene
Concen: 5.28 ug/ml M6
RT: 8.319 min Scan# 1289
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:165 Resp: 84091

Ion	Ratio	Lower	Upper
165	100		
89	72.2	54.2	81.2
63	109.9	64.2	96.2#

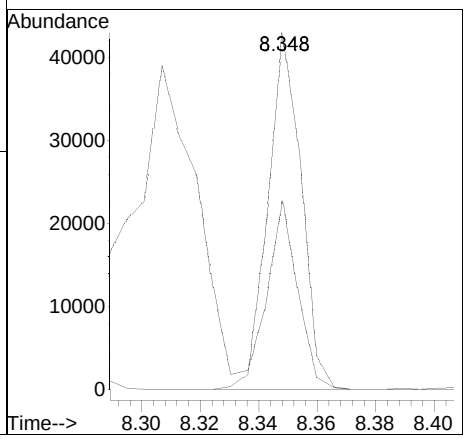


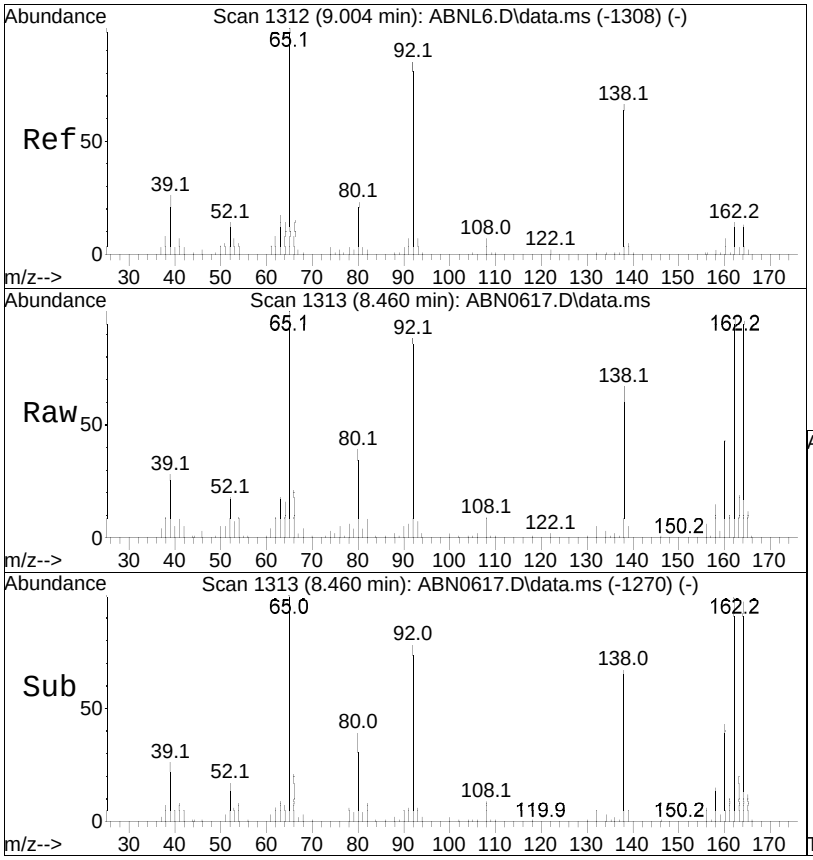


#53
1,2-Dinitrobenzene
Concen: 5.41 ug/ml
RT: 8.348 min Scan# 1294
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:168 Resp: 33885

Ion	Ratio	Lower	Upper
168	100		
75	49.5	30.9	46.3#

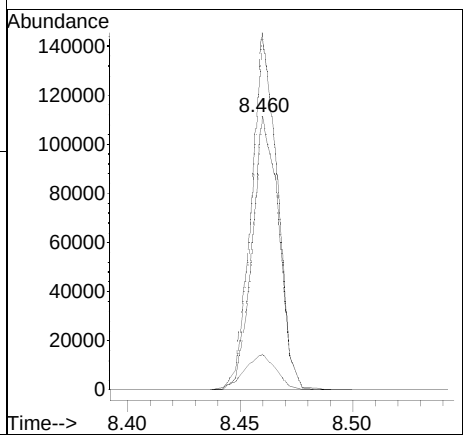


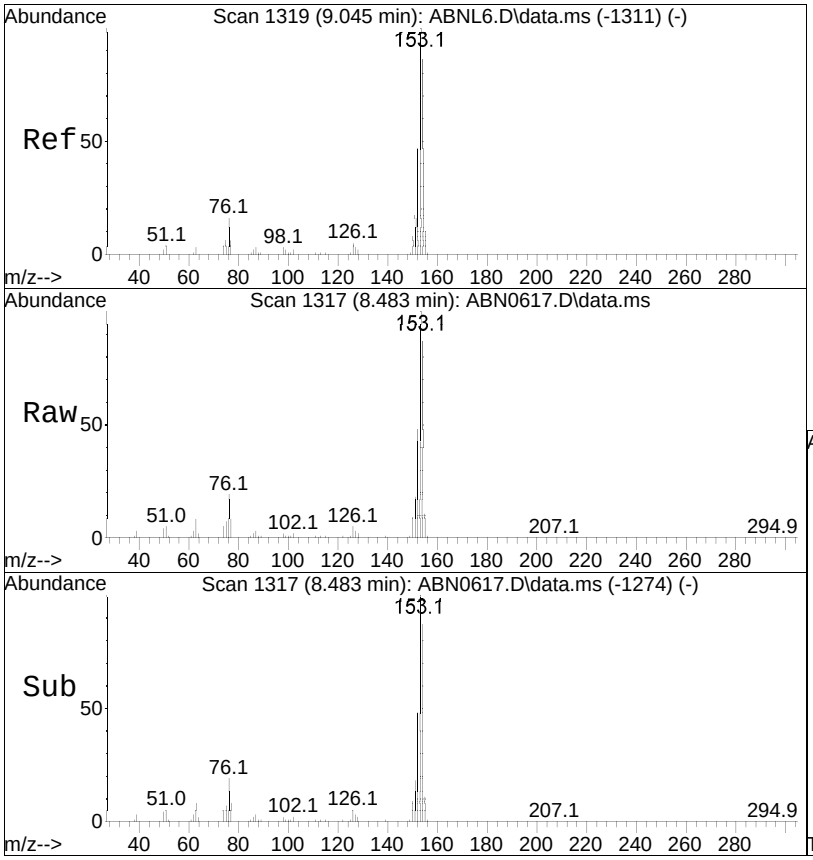


#63
3-Nitroaniline
Concen: 5.79 ug/ml
RT: 8.460 min Scan# 1313
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:138 Resp: 91216

Ion	Ratio	Lower	Upper
138	100		
92	125.8	93.4	140.2
108	15.7	9.5	14.3#

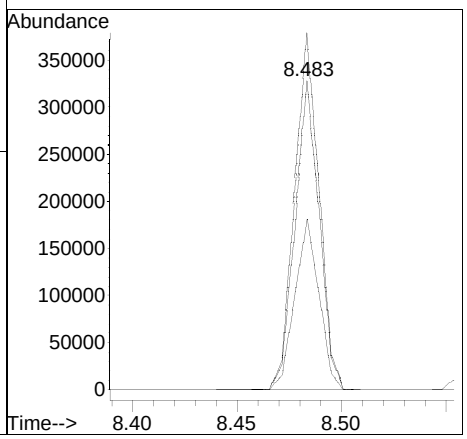


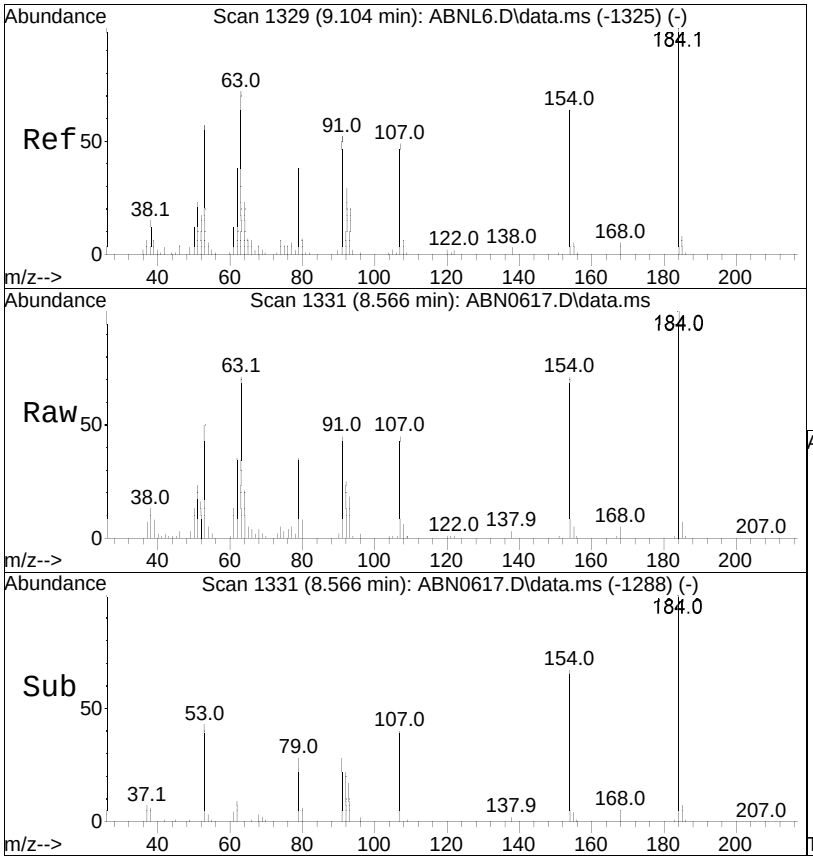


#64
Acenaphthene
Concen: 4.96 ug/ml
RT: 8.483 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:154 Resp: 264354

Ion	Ratio	Lower	Upper
154	100		
153	116.4	85.3	127.9
152	55.4	41.4	62.0

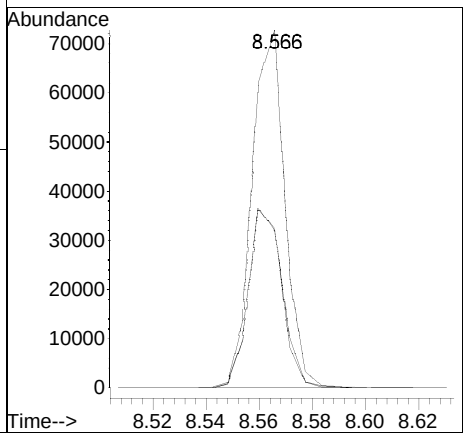


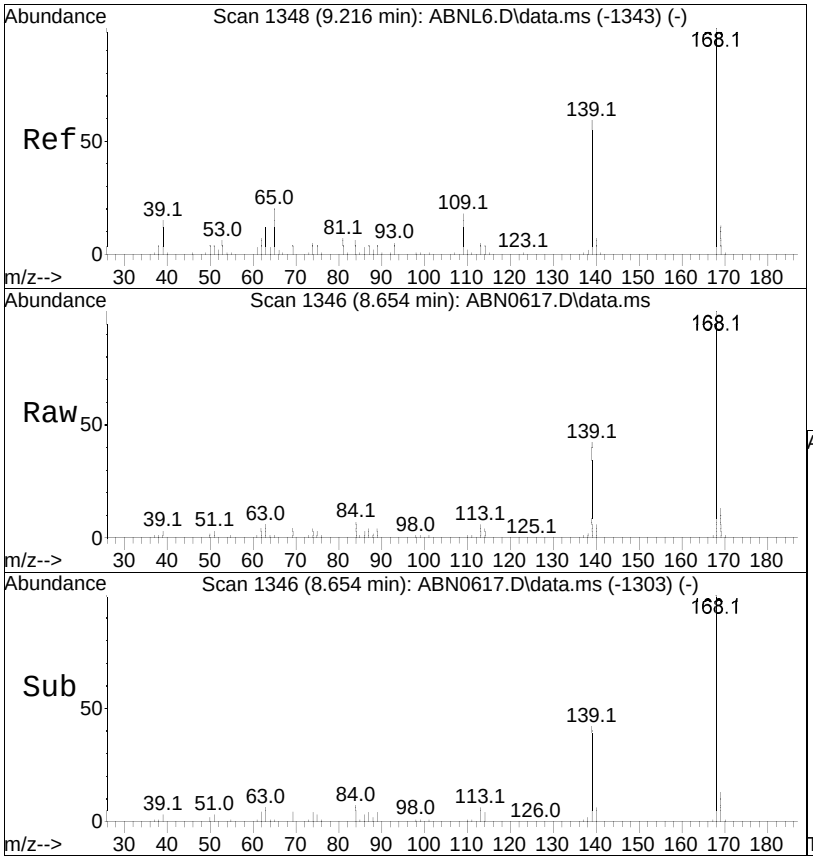


#65
2,4-Dinitrophenol
Concen: 6.17 ug/ml
RT: 8.566 min Scan# 1331
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:184 Resp: 61897

Ion	Ratio	Lower	Upper
184	100		
107	51.9	37.7	56.5
91	51.2	46.3	69.5

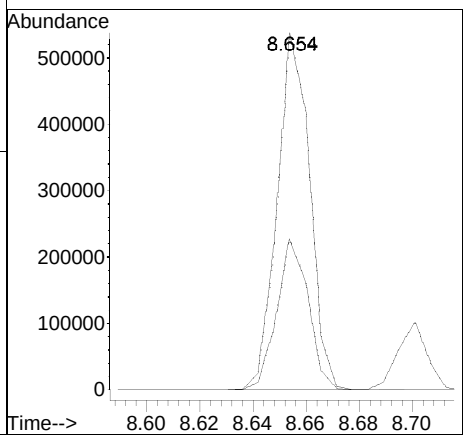


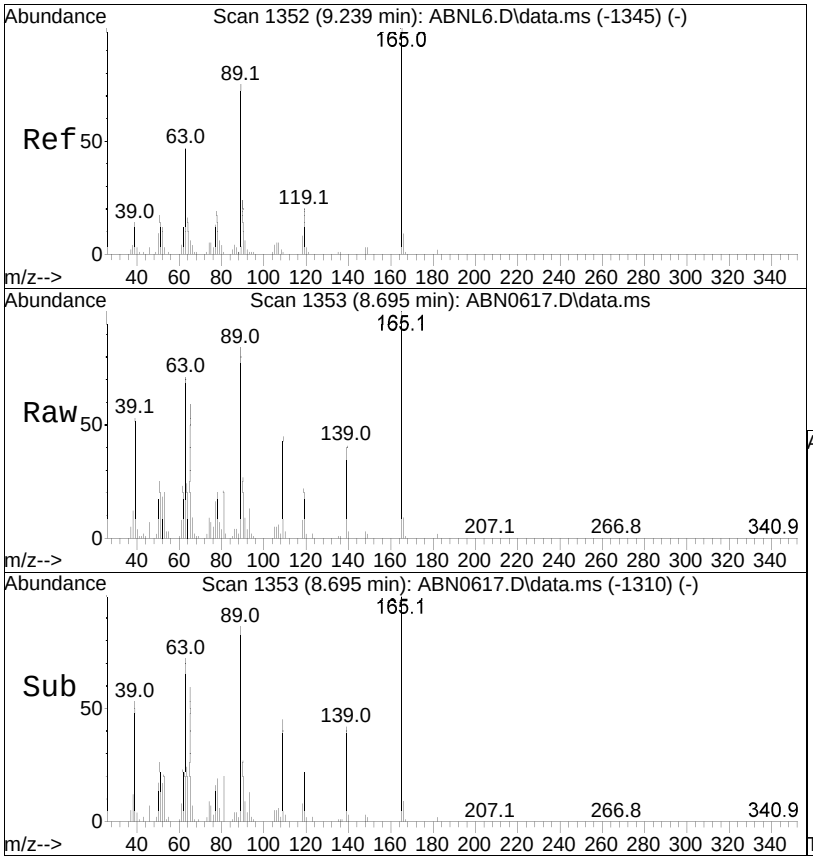


#66
Dibenzofuran
Concen: 4.83 ug/ml
RT: 8.654 min Scan# 1346
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:168 Resp: 450653

Ion	Ratio	Lower	Upper
168	100		
139	41.1	31.4	47.2

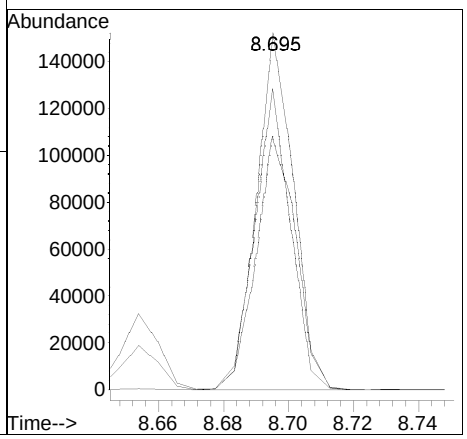


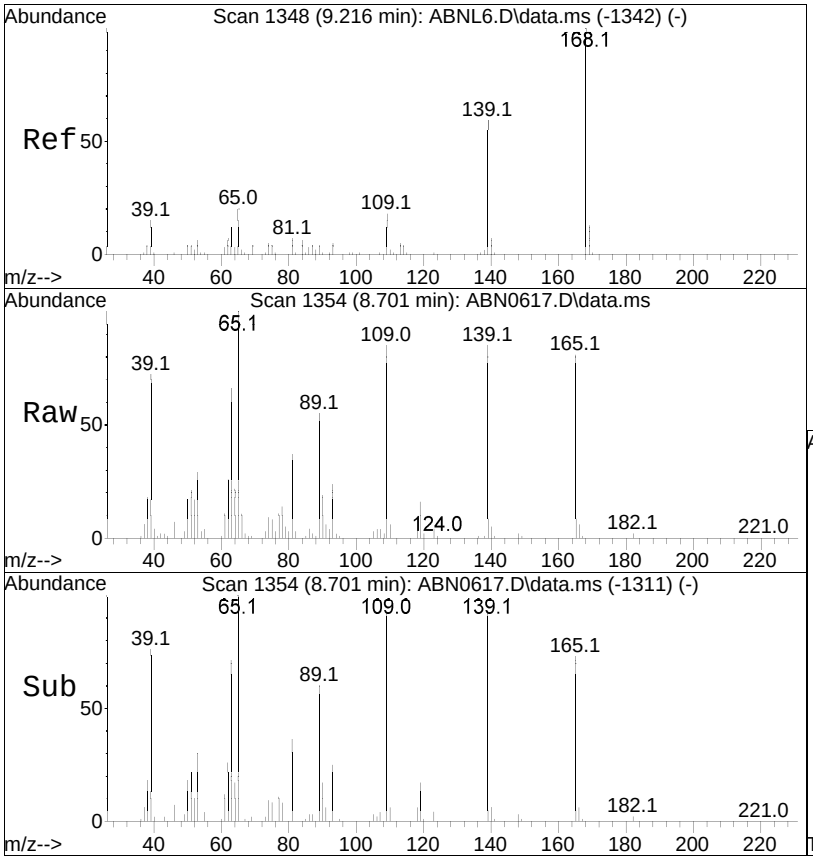


#67
2,4-Dinitrotoluene
Concen: 5.61 ug/ml
RT: 8.695 min Scan# 1353
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:165 Resp: 120277

Ion	Ratio	Lower	Upper
165	100		
89	81.6	72.0	108.0
63	76.8	52.7	79.1

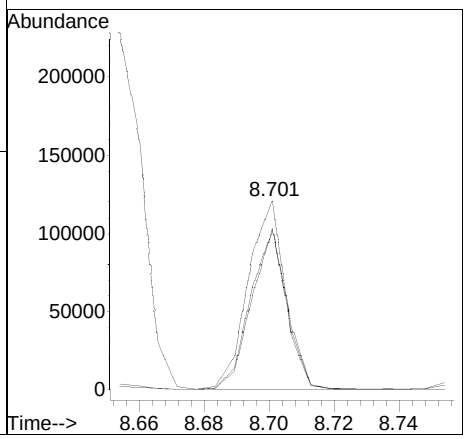


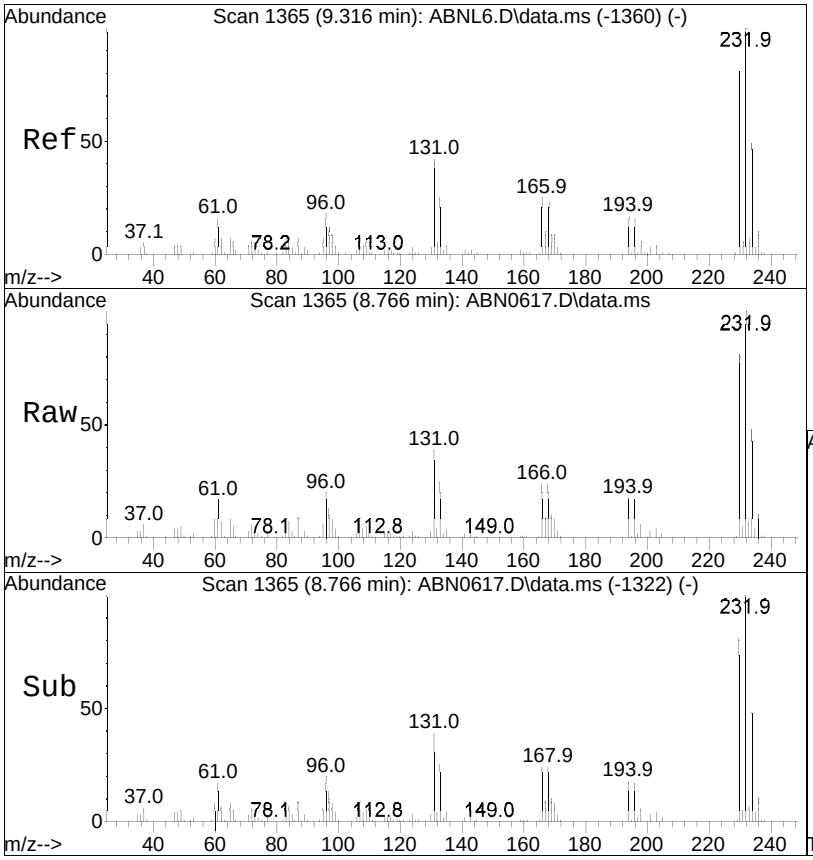


#68
4-Nitrophenol
Concen: 5.62 ug/ml
RT: 8.701 min Scan# 1354
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 65 Resp: 95068

Ion	Ratio	Lower	Upper
65	100		
109	83.3	47.4	71.2#
139	82.2	76.6	115.0

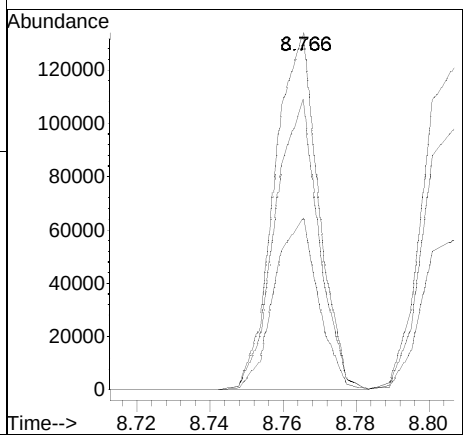


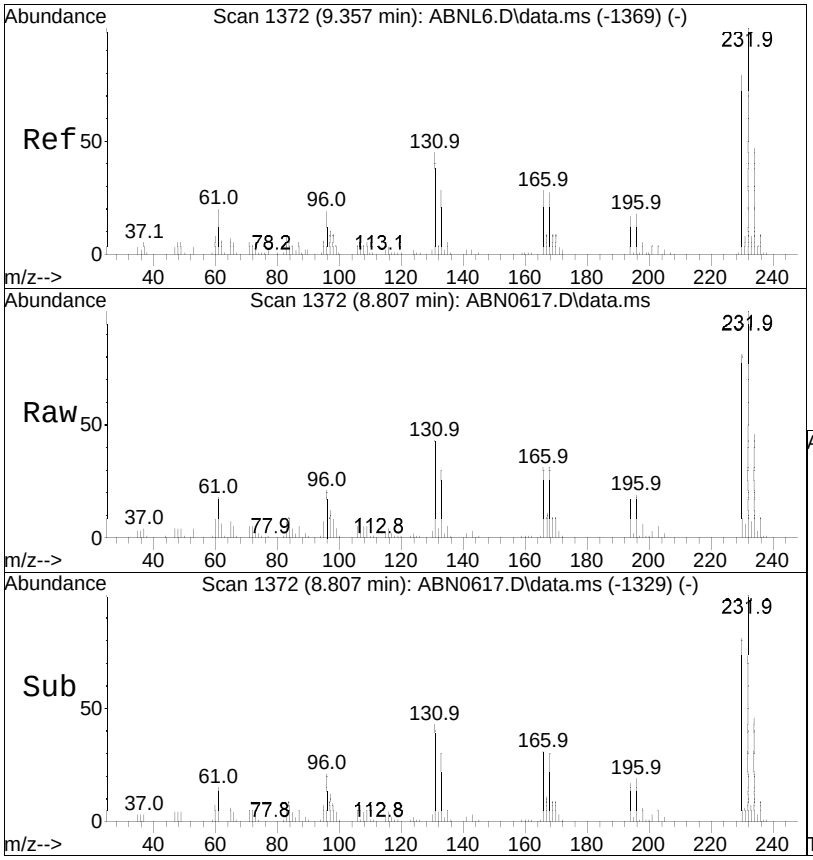


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.89 ug/ml
RT: 8.766 min Scan# 1365
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:232 Resp: 111851

Ion	Ratio	Lower	Upper
232	100		
230	81.1	64.2	96.4
234	48.3	38.1	57.1

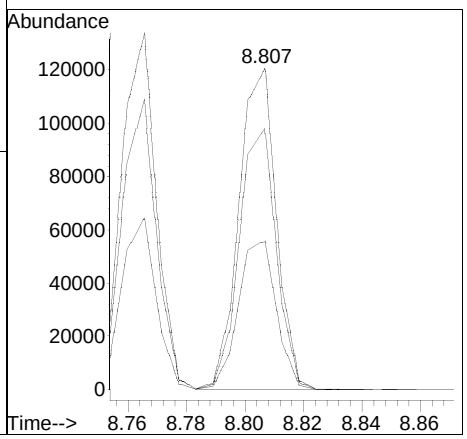


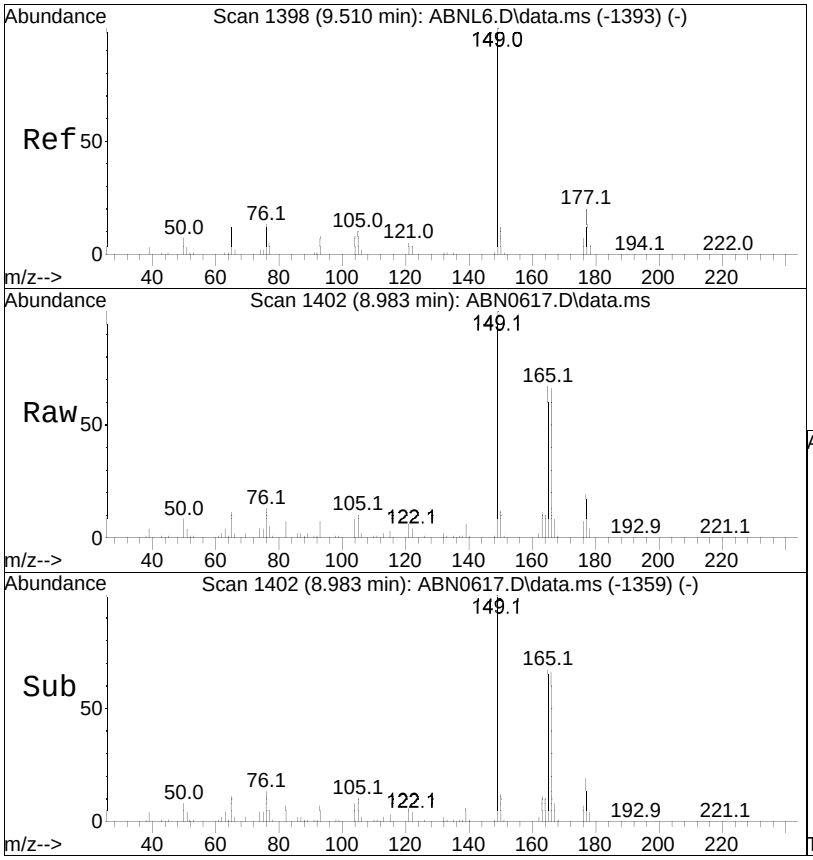


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.77 ug/ml
RT: 8.807 min Scan# 1372
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:232 Resp: 107462

Ion	Ratio	Lower	Upper
232	100		
230	80.7	61.8	92.8
234	47.5	36.2	54.2

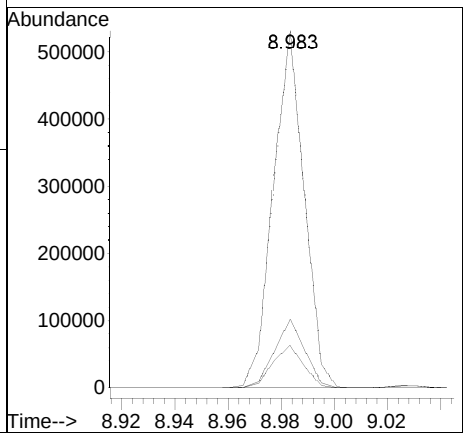


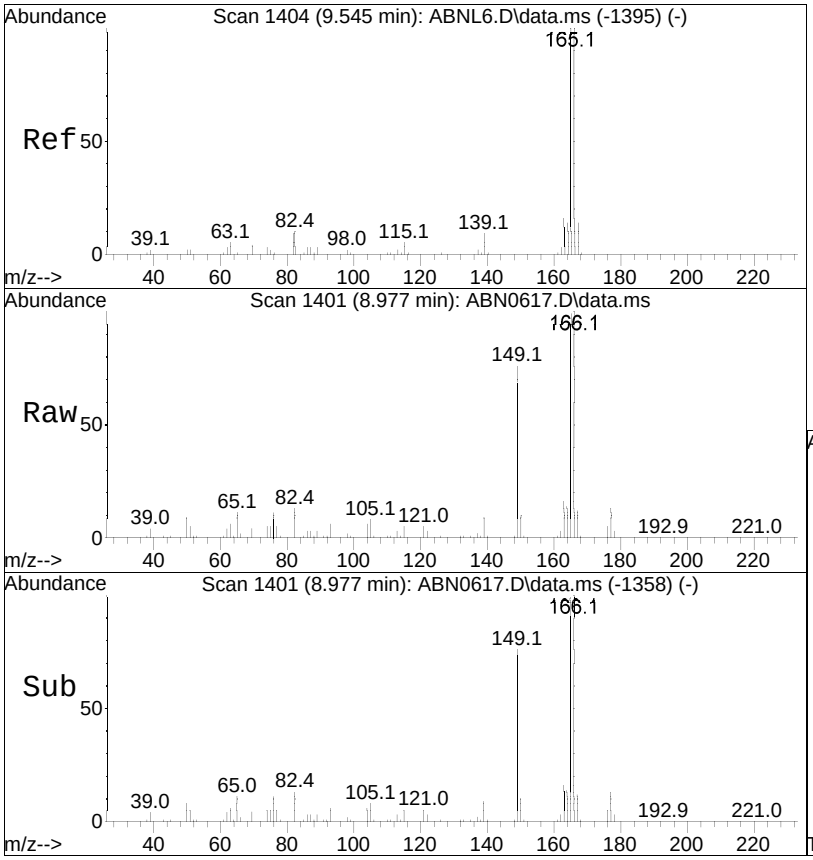


#71
Diethyl phthalate
Concen: 5.49 ug/ml
RT: 8.983 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:149 Resp: 426262

Ion	Ratio	Lower	Upper
149	100		
177	18.9	16.1	24.1
150	12.0	9.4	14.2

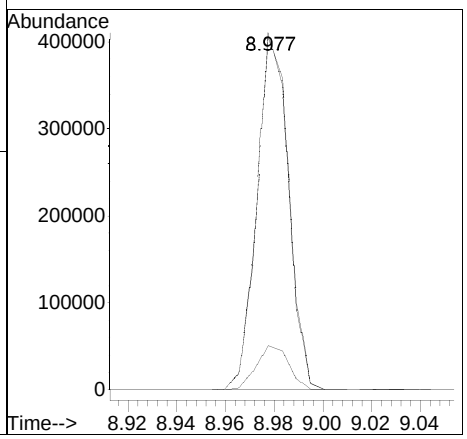


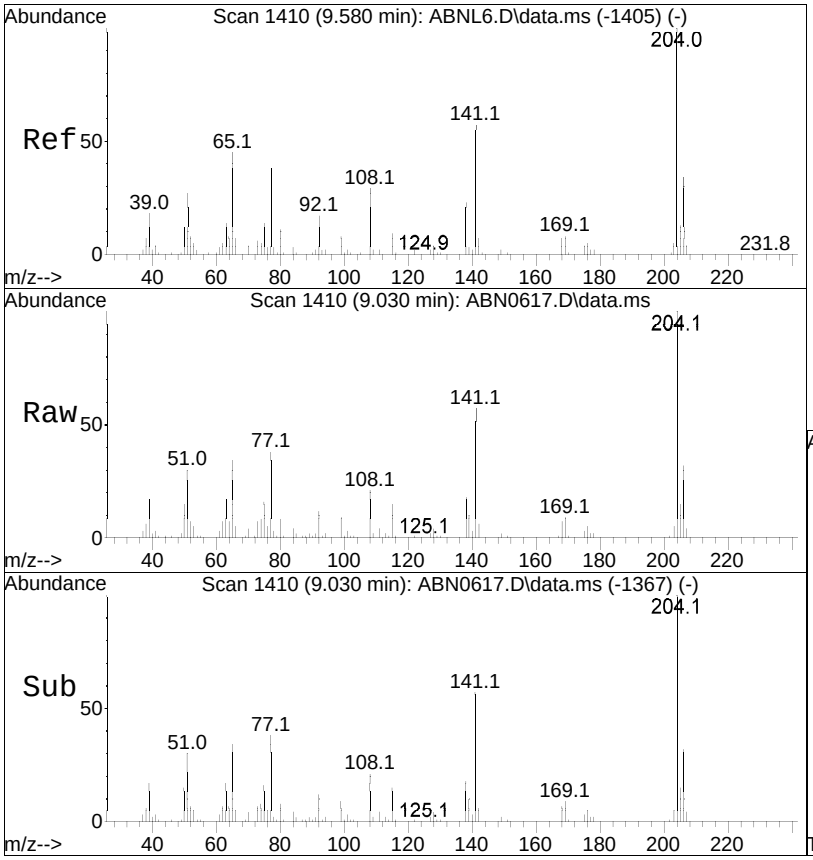


#72
Fluorene
Concen: 4.96 ug/ml
RT: 8.977 min Scan# 1401
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:166 Resp: 363438

Ion	Ratio	Lower	Upper
166	100		
165	101.6	76.2	114.2
167	13.0	10.6	15.8

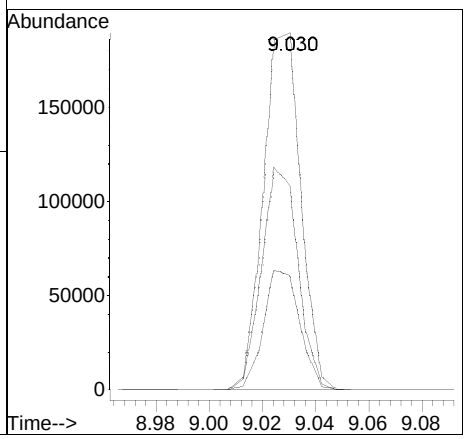


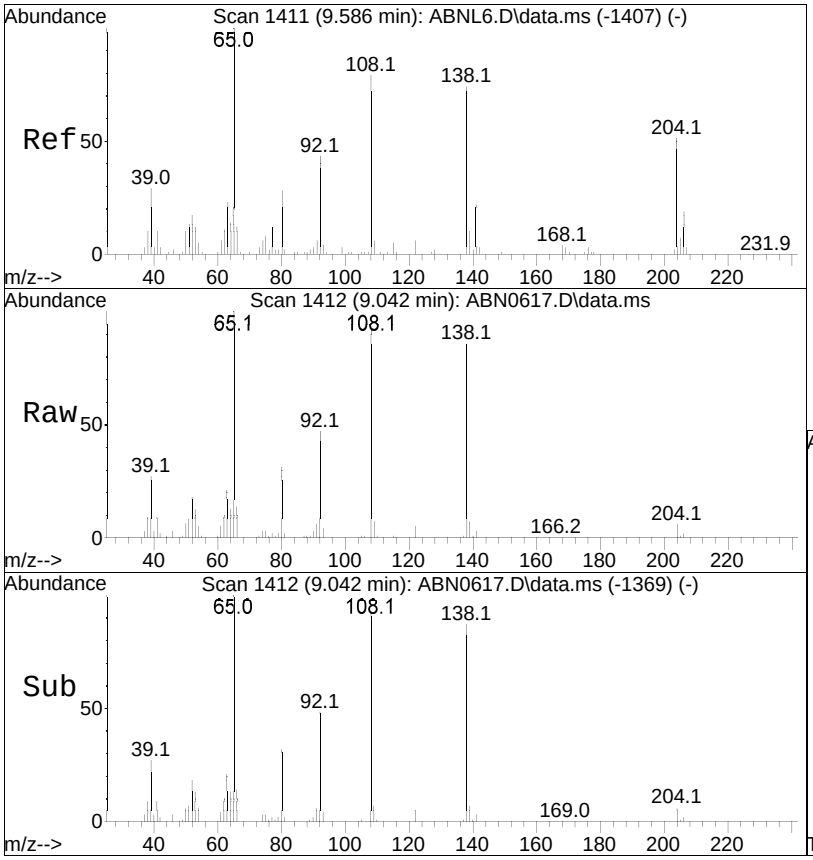


#73
4-Chlorophenyl phenyl ether
Concen: 4.79 ug/ml
RT: 9.030 min Scan# 1410
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:204 Resp: 184878

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	60.3	53.6	80.4

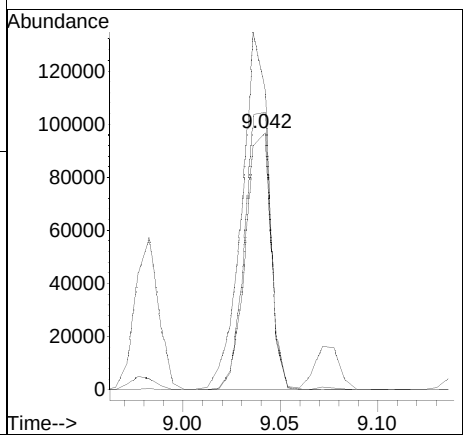


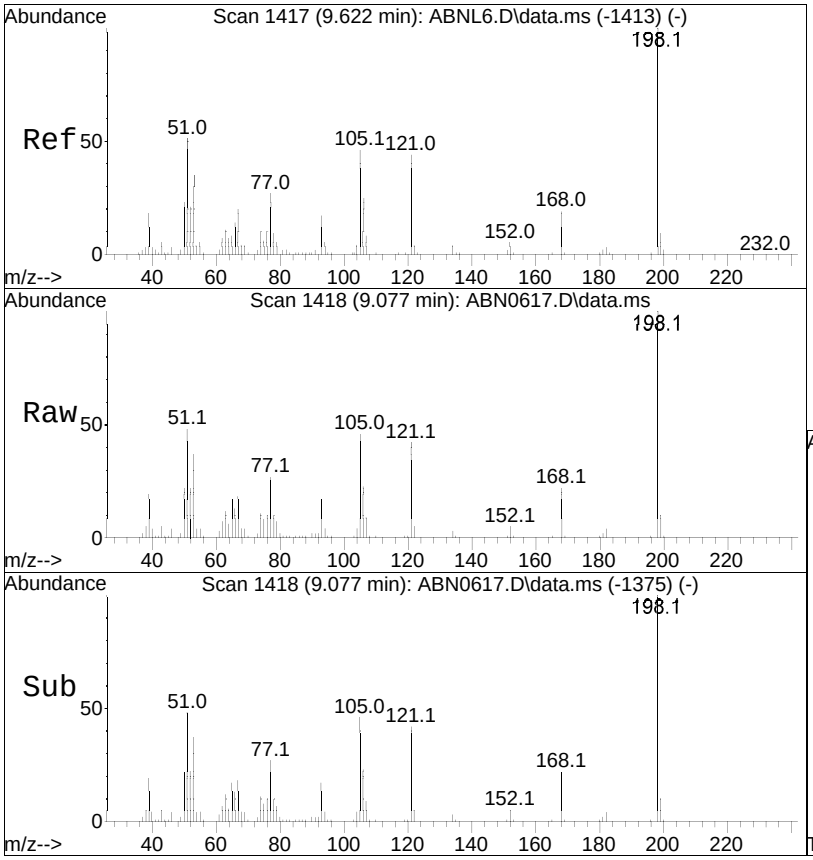


#74
4-Nitroaniline
Concen: 5.79 ug/ml
RT: 9.042 min Scan# 1412
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:138 Resp: 89316

Ion	Ratio	Lower	Upper
138	100		
108	108.7	52.1	78.1#
65	144.3	115.0	172.6

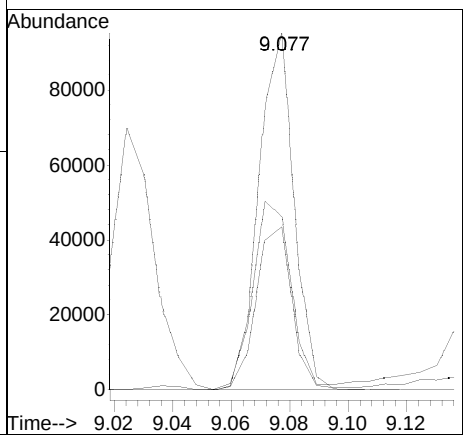


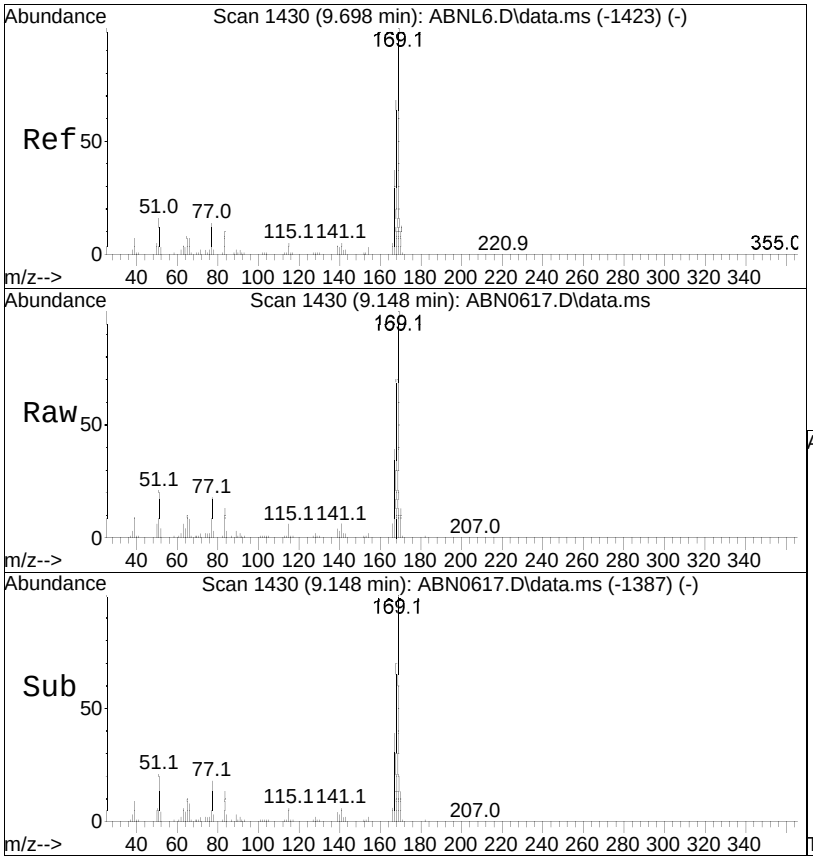


#75
4,6-Dinitro-o-cresol
Concen: 6.62 ug/ml
RT: 9.077 min Scan# 1418
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:198 Resp: 79999

Ion	Ratio	Lower	Upper
198	100		
51	57.6	76.0	114.0#
105	46.8	45.6	68.4

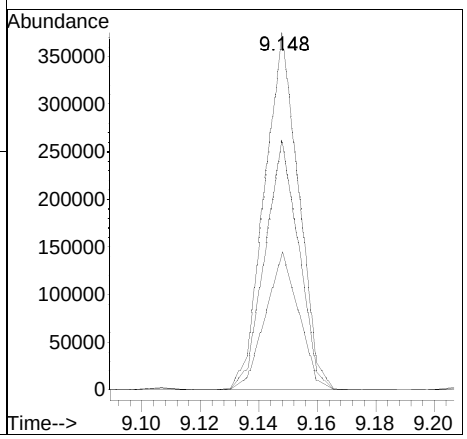


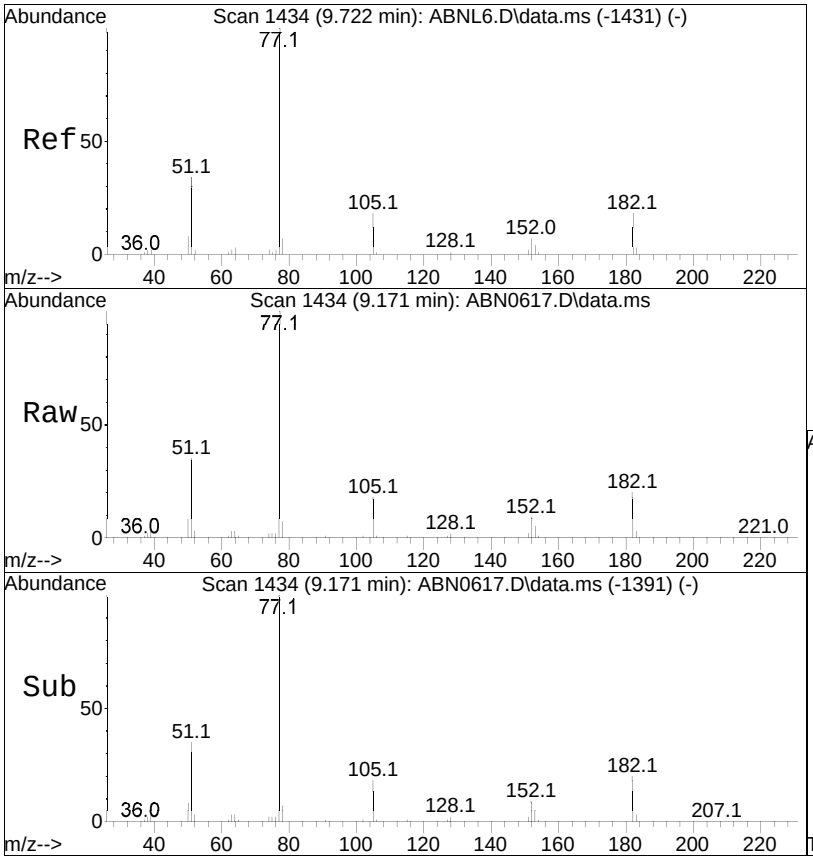


#76
NDPA/DPA
Concen: 5.04 ug/ml
RT: 9.148 min Scan# 1430
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:169 Resp: 304364

Ion	Ratio	Lower	Upper
169	100		
168	69.3	54.0	81.0
167	37.9	28.6	42.8

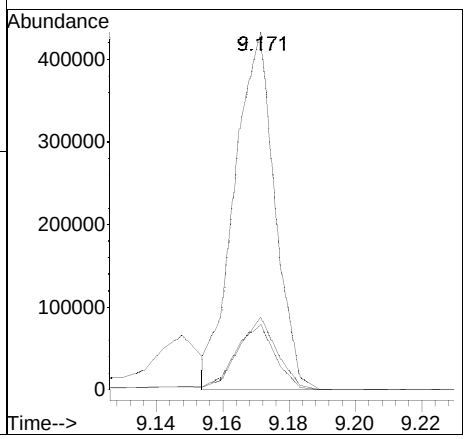


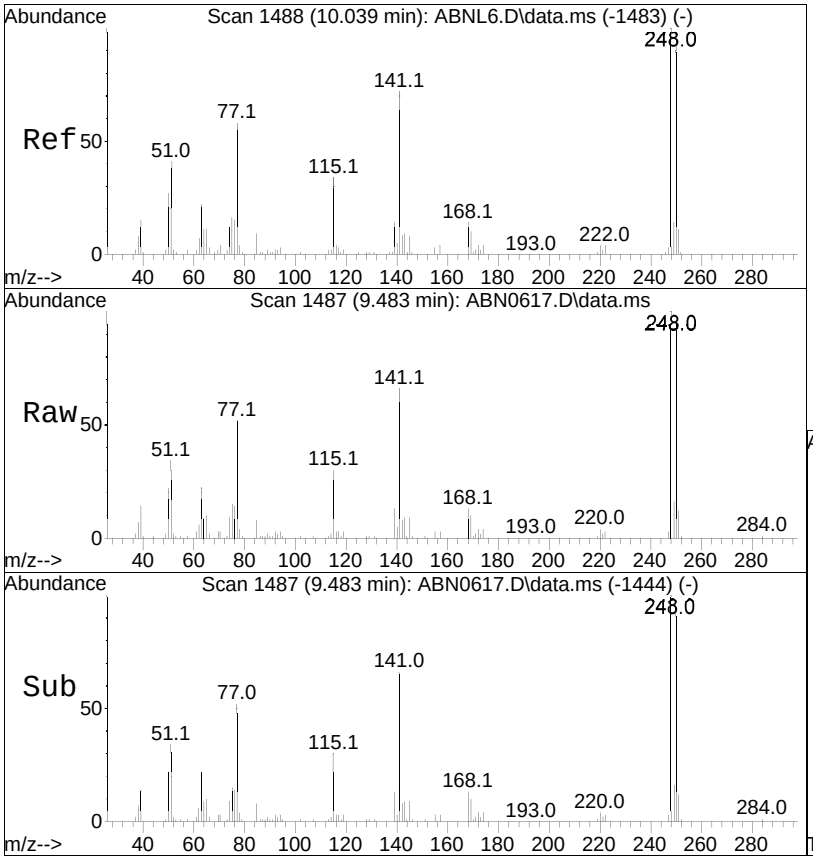


#77
Azobenzene
Concen: 4.66 ug/ml M6
RT: 9.171 min Scan# 1434
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion: 77 Resp: 358886

Ion	Ratio	Lower	Upper
77	100		
182	22.2	17.4	26.2
105	20.7	15.4	23.2

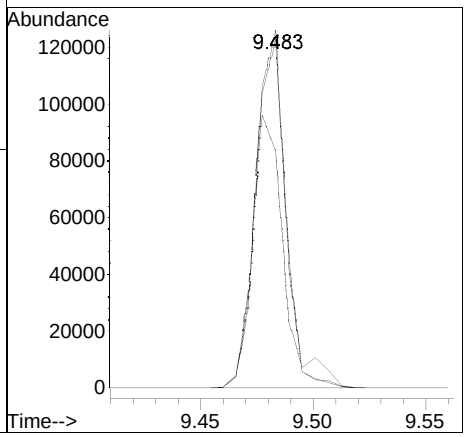


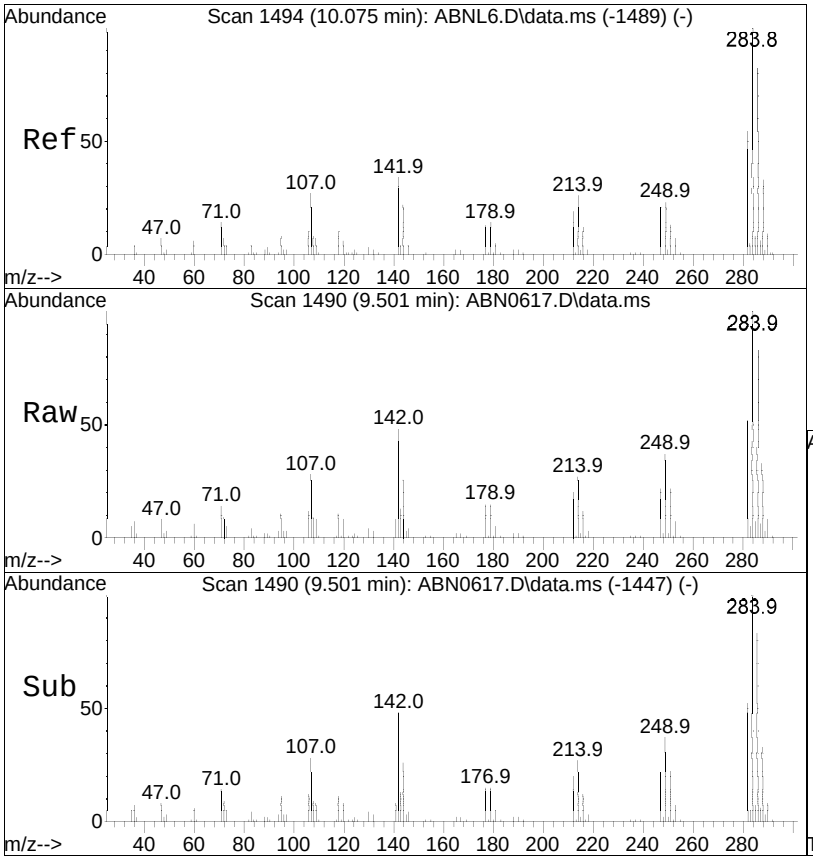


#79
4-Bromophenyl phenyl ether
Concen: 4.98 ug/ml
RT: 9.483 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:248 Resp: 114397

Ion	Ratio	Lower	Upper
248	100		
141	82.2	76.6	114.8
250	96.5	77.3	115.9

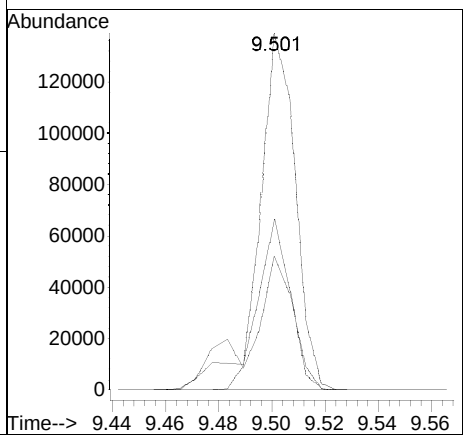


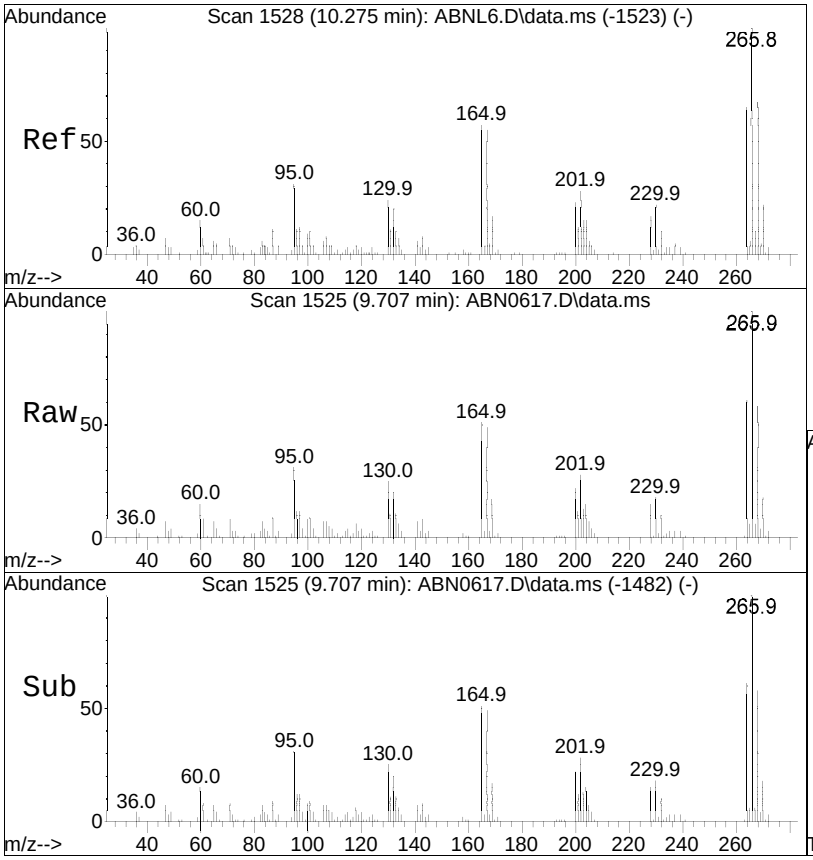


#80
Hexachlorobenzene
Concen: 4.66 ug/ml
RT: 9.501 min Scan# 1490
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:284 Resp: 123976

Ion	Ratio	Lower	Upper
284	100		
142	52.4	41.9	62.9
249	48.5	24.1	36.1#

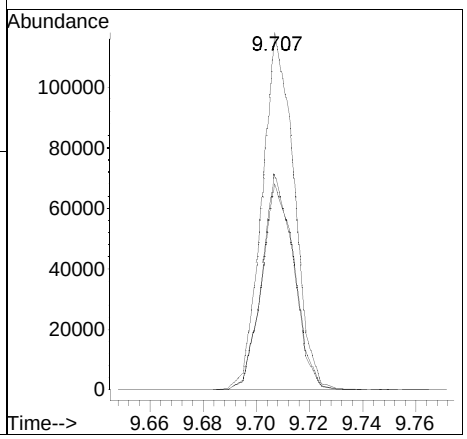


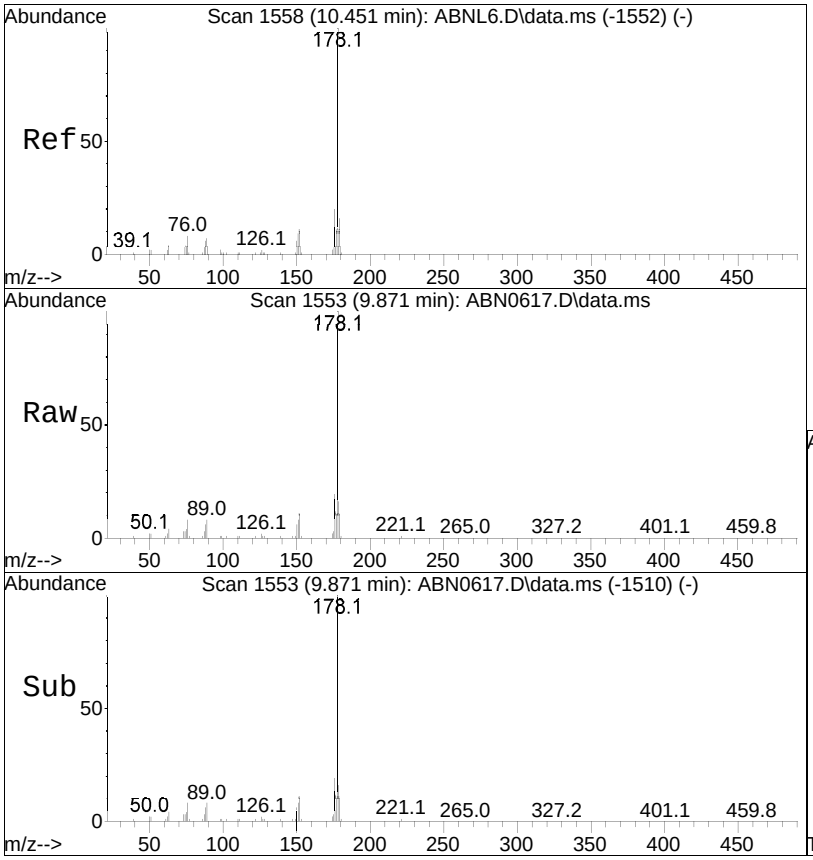


#81
Pentachlorophenol
Concen: 6.36 ug/ml
RT: 9.707 min Scan# 1525
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:266 Resp: 98584

Ion	Ratio	Lower	Upper
266	100		
264	59.7	49.7	74.5
268	59.4	50.5	75.7

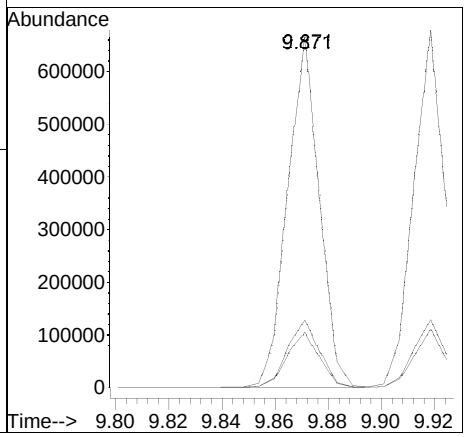


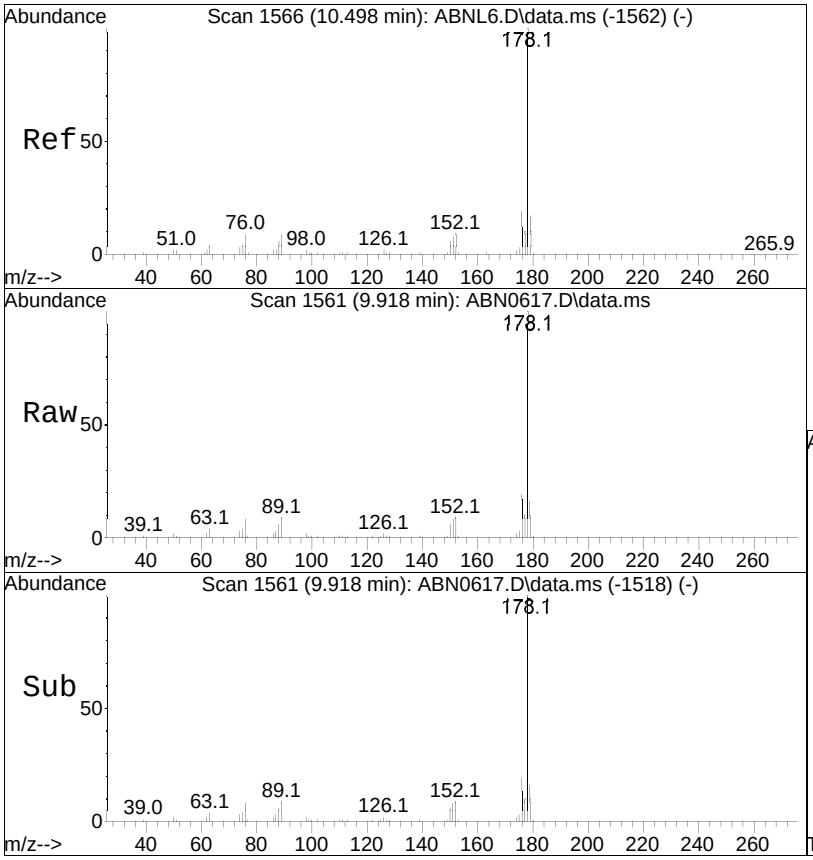


#88
Phenanthrene
Concen: 4.87 ug/ml
RT: 9.871 min Scan# 1553
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:178 Resp: 551829

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.2	18.2
176	19.5	15.4	23.2

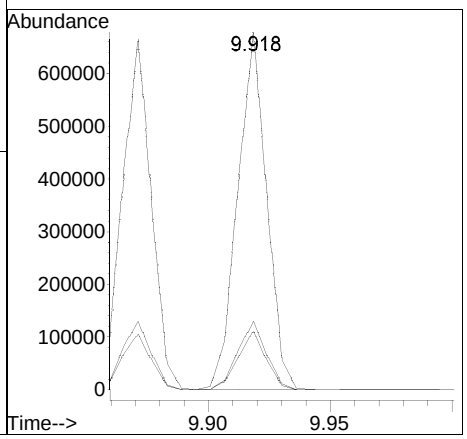


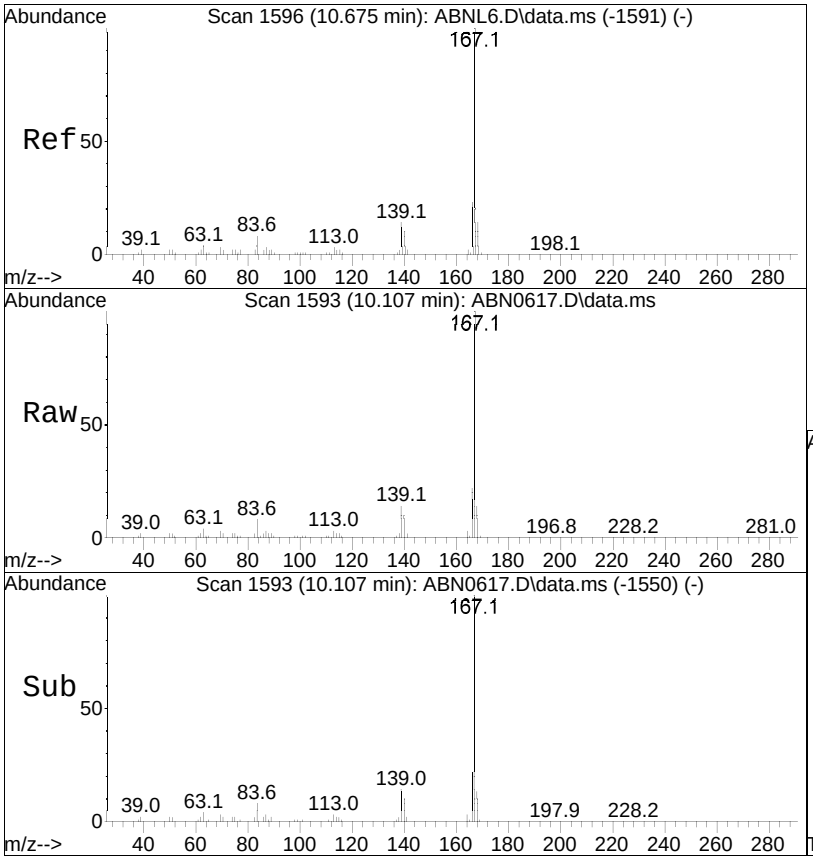


#89
Anthracene
Concen: 4.99 ug/ml
RT: 9.918 min Scan# 1561
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:178 Resp: 560165

Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.0	18.0
176	19.0	14.6	22.0

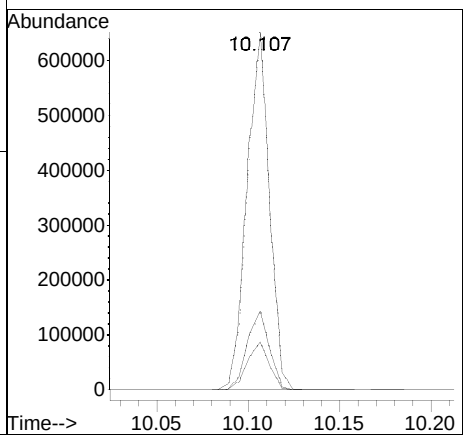


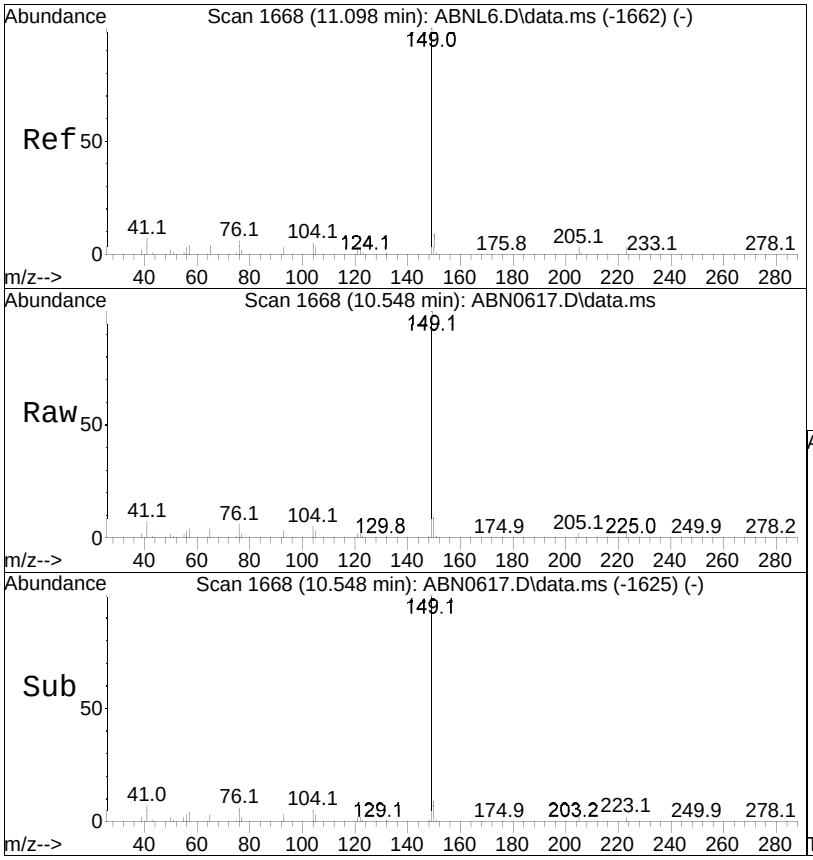


#90
Carbazole
Concen: 5.32 ug/ml
RT: 10.107 min Scan# 1593
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:167 Resp: 545893

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.0	17.4	26.0

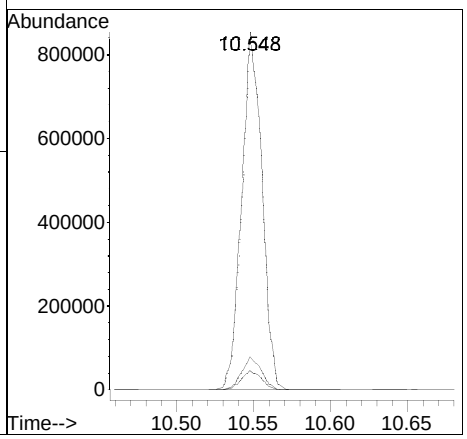


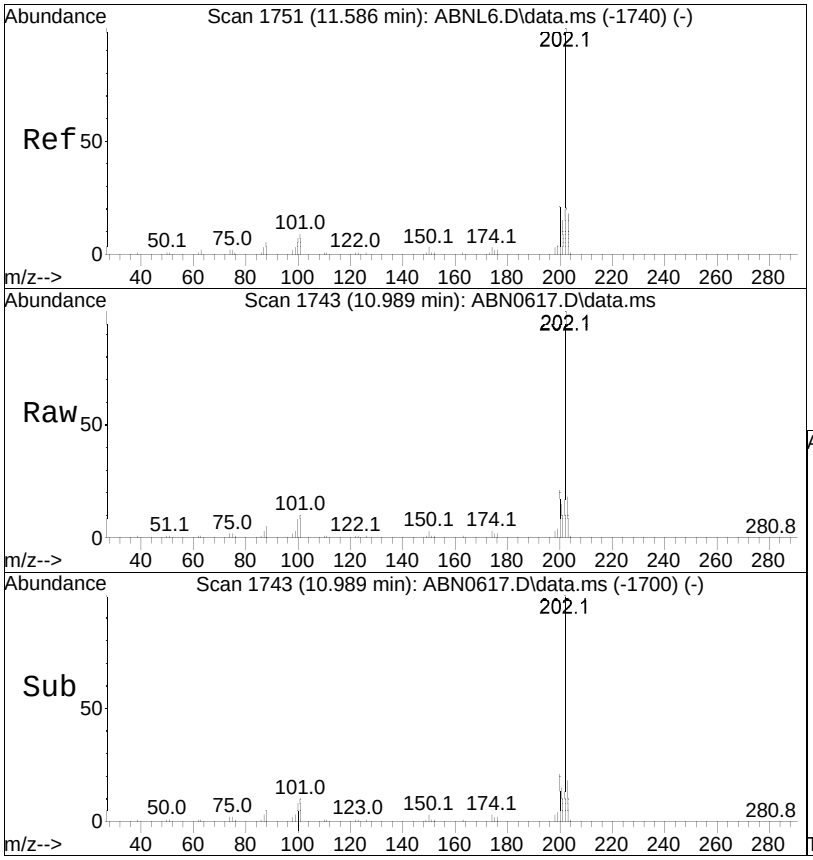


#91
Di-n-butylphthalate
Concen: 6.12 ug/ml
RT: 10.548 min Scan# 1668
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:149 Resp: 765292

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.5	4.5	6.7

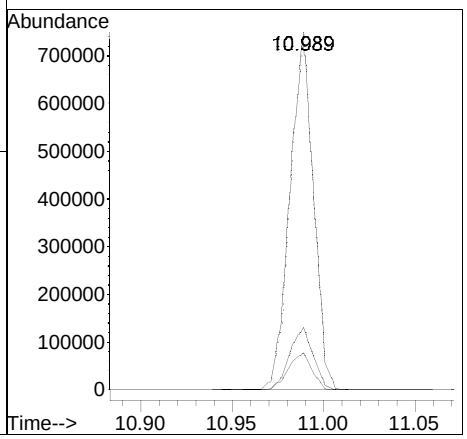


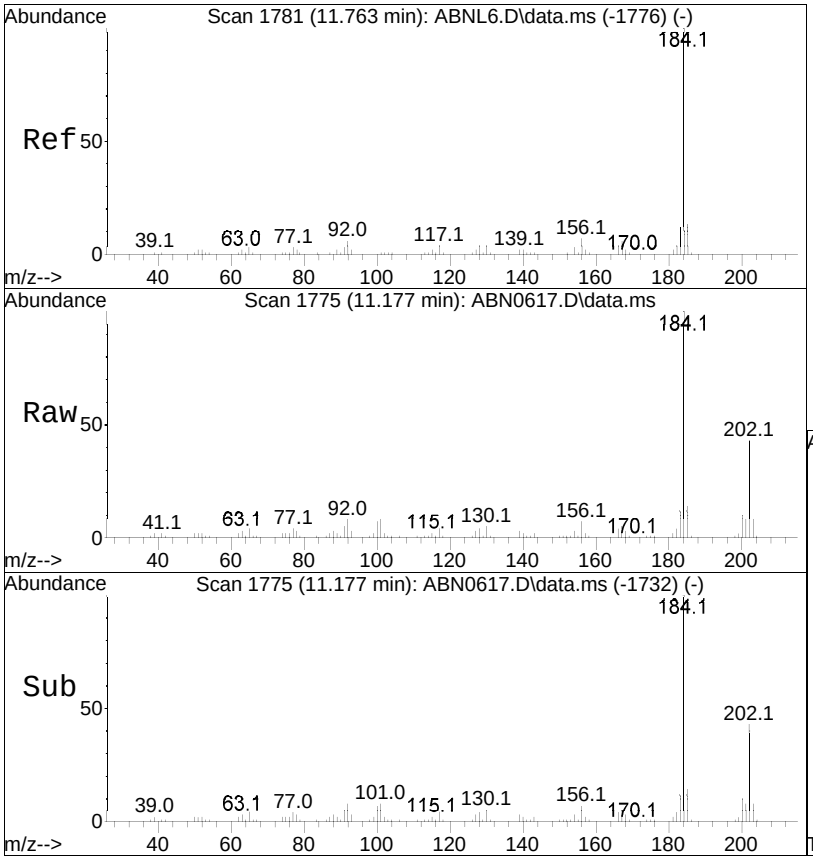


#92
Fluoranthene
Concen: 5.08 ug/ml
RT: 10.989 min Scan# 1743
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:202 Resp: 659770

Ion	Ratio	Lower	Upper
202	100		
101	10.8	13.5	20.3#
203	17.8	13.6	20.4

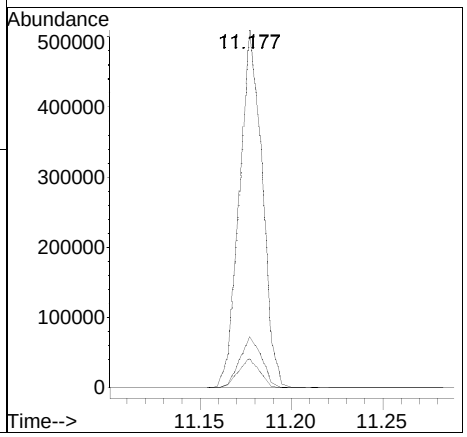


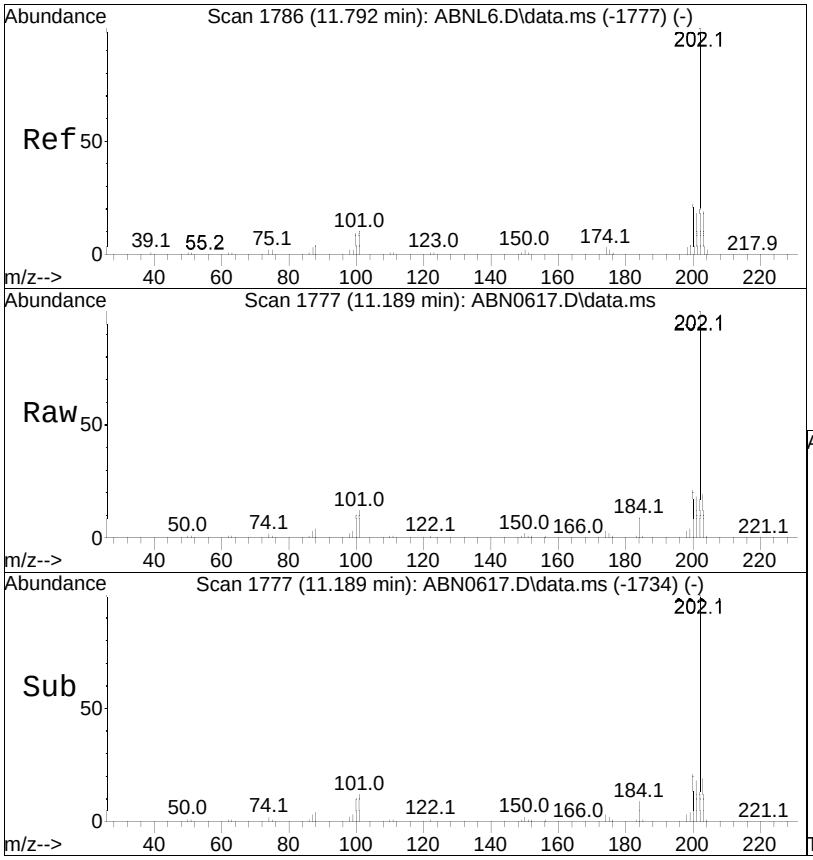


#93
Benzidine
Concen: 5.88 ug/ml
RT: 11.177 min Scan# 1775
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:184 Resp: 437560

Ion	Ratio	Lower	Upper
184	100		
92	8.0	9.1	13.7#
185	14.1	11.1	16.7

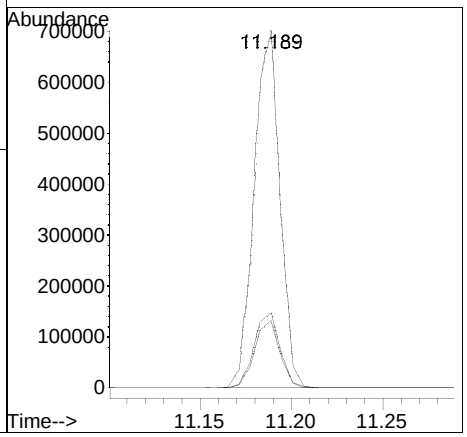


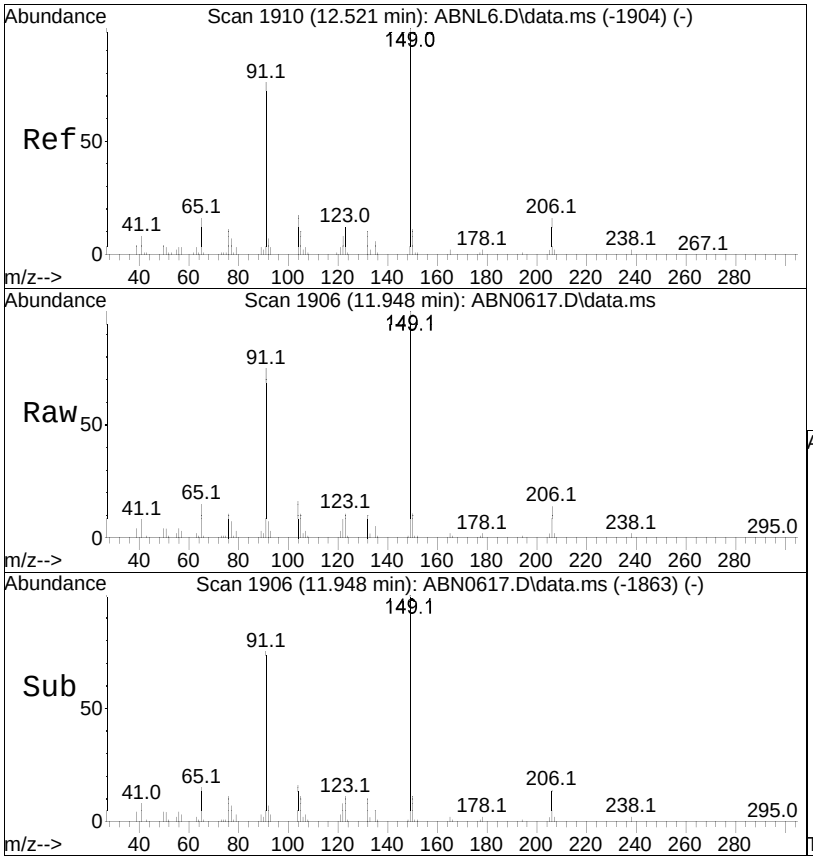


#94
Pyrene
Concen: 4.93 ug/ml
RT: 11.189 min Scan# 1777
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:202 Resp: 676629

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.7	25.1
203	18.9	14.2	21.4

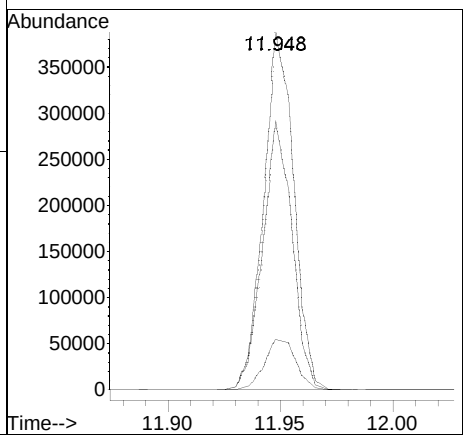


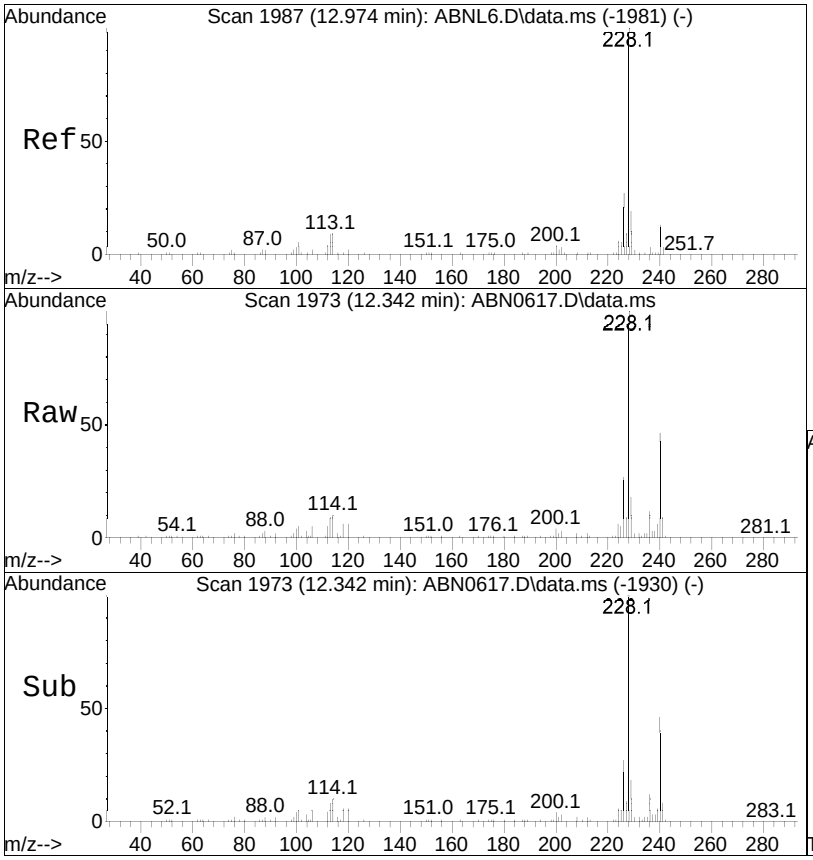


#96
Butyl benzyl phthalate
Concen: 6.71 ug/ml
RT: 11.948 min Scan# 1906
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:149 Resp: 356799

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	14.9	13.9	20.9

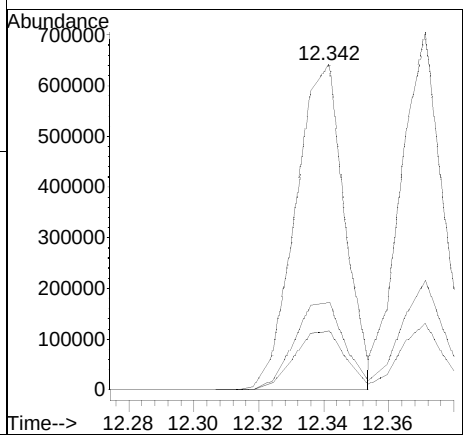


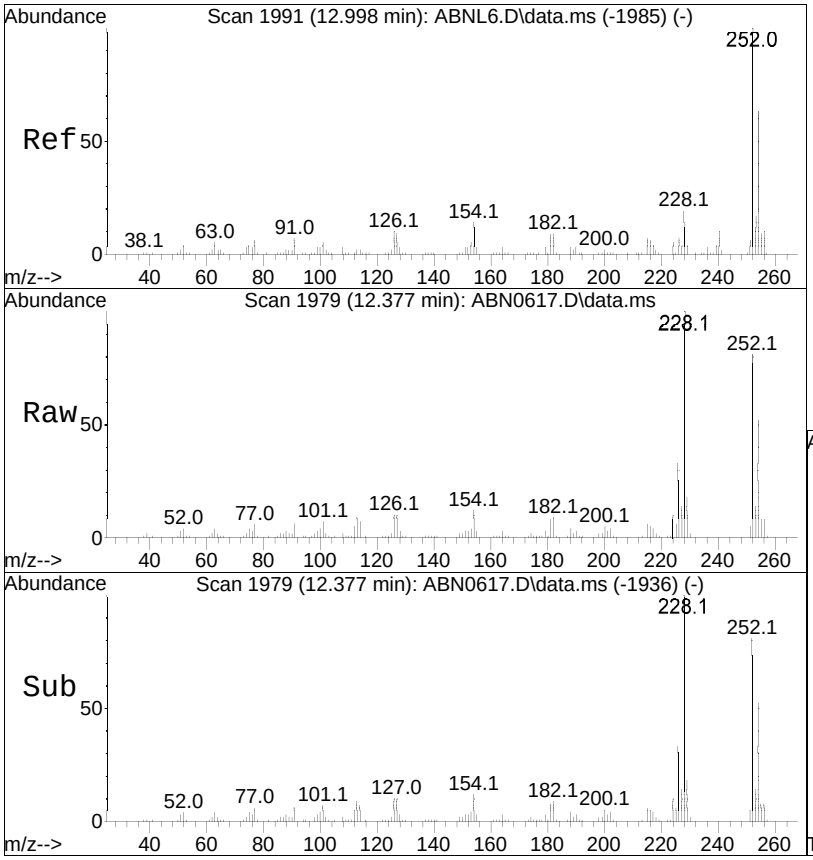


#104
Benzo(a)anthracene
Concen: 5.24 ug/ml
RT: 12.342 min Scan# 1973
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:228 Resp: 676262

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	19.0	15.6	23.4

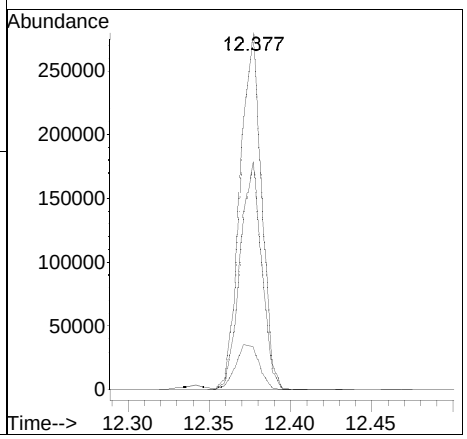


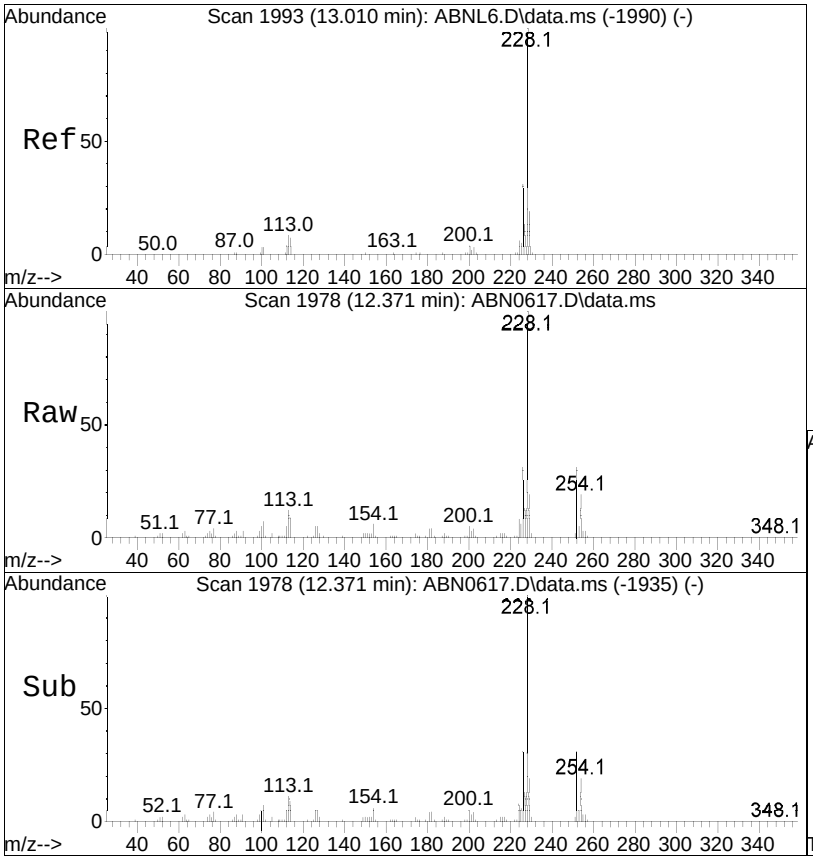


#105
3,3'-Dichlorobenzidine
Concen: 5.78 ug/ml
RT: 12.377 min Scan# 1979
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:252 Resp: 256935

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	64.0	51.2	76.8

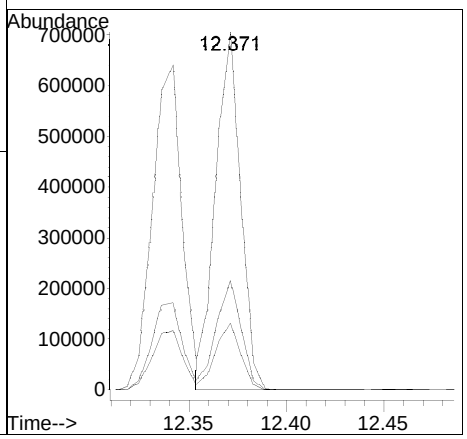


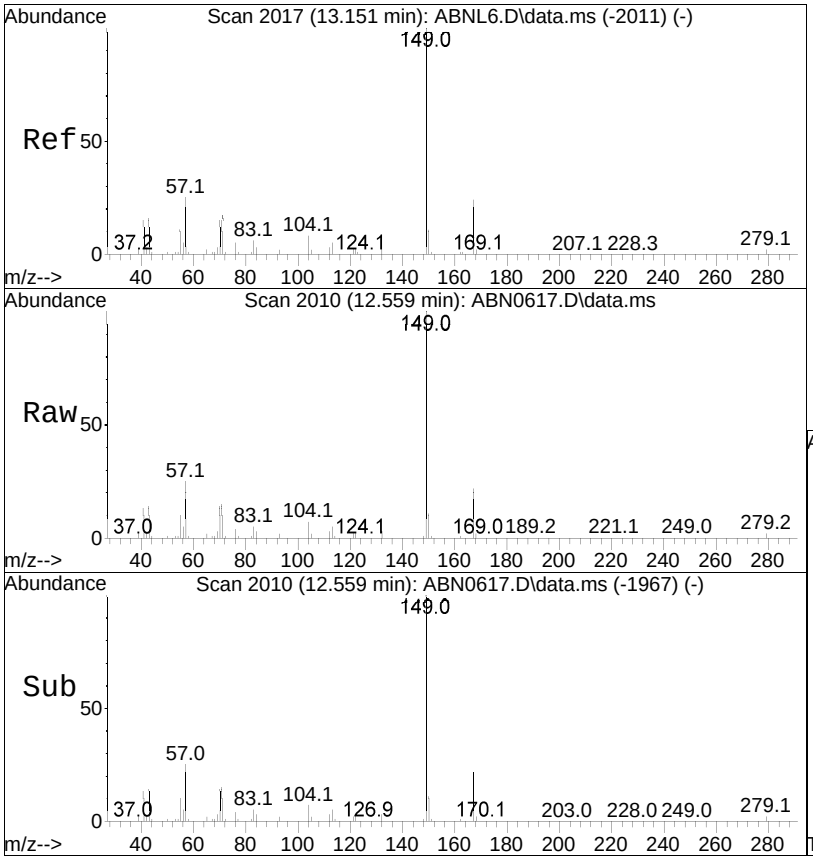


#106
Chrysene
Concen: 4.93 ug/ml
RT: 12.371 min Scan# 1978
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:228 Resp: 627924

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	18.7	15.8	23.8

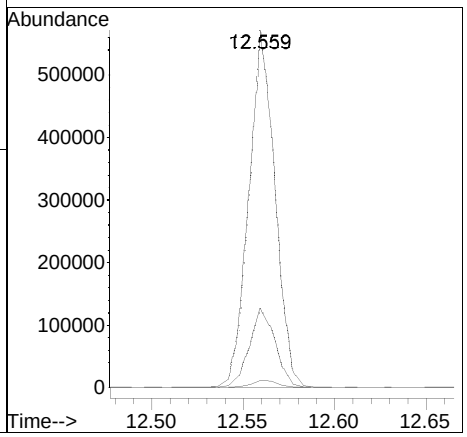


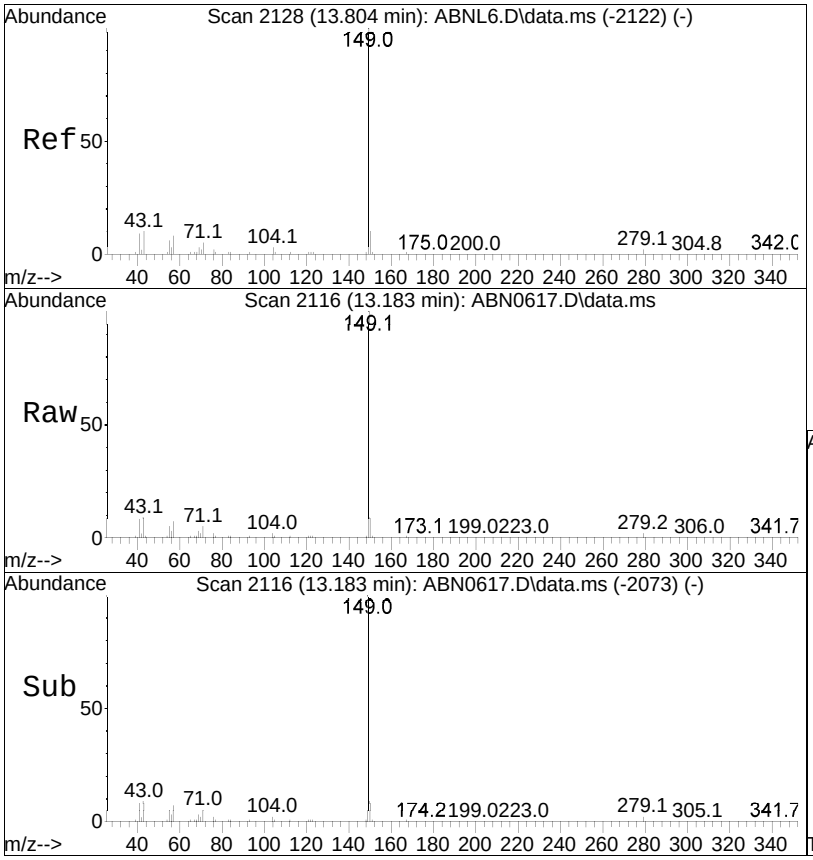


#107
Bis(2-ethylhexyl)phthalate
Concen: 7.33 ug/ml
RT: 12.559 min Scan# 2010
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:149 Resp: 561221

Ion	Ratio	Lower	Upper
149	100		
167	22.0	22.1	33.1#
279	1.8	3.0	4.4#

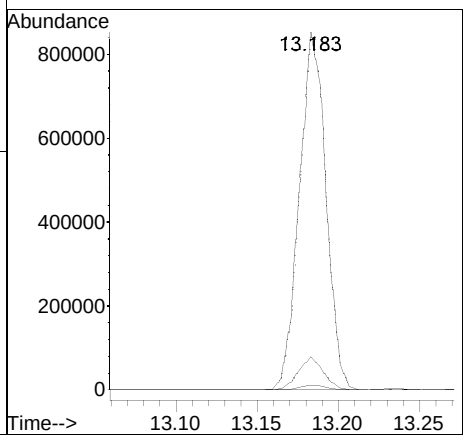


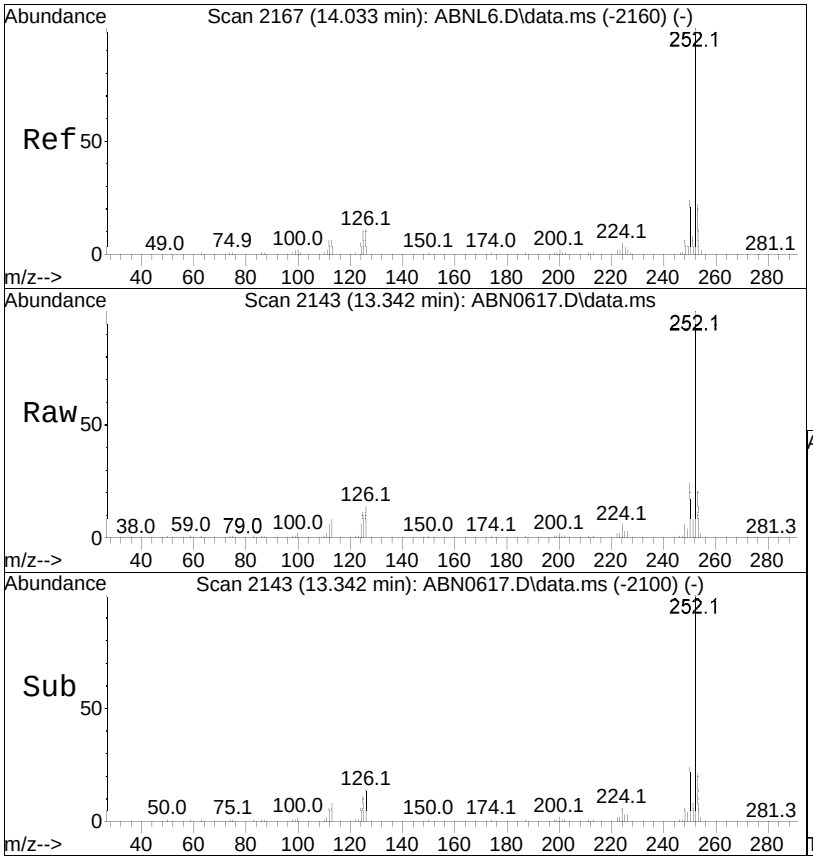


#108
Di-n-octylphthalate
Concen: 7.61 ug/ml
RT: 13.183 min Scan# 2116
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:149 Resp: 954770

Ion	Ratio	Lower	Upper
149	100		
43	8.7	18.8	28.2#
167	1.3	1.3	1.9

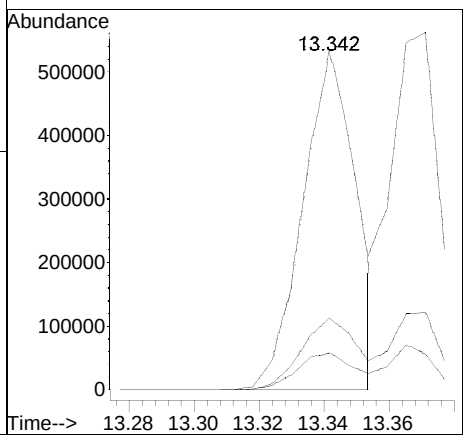


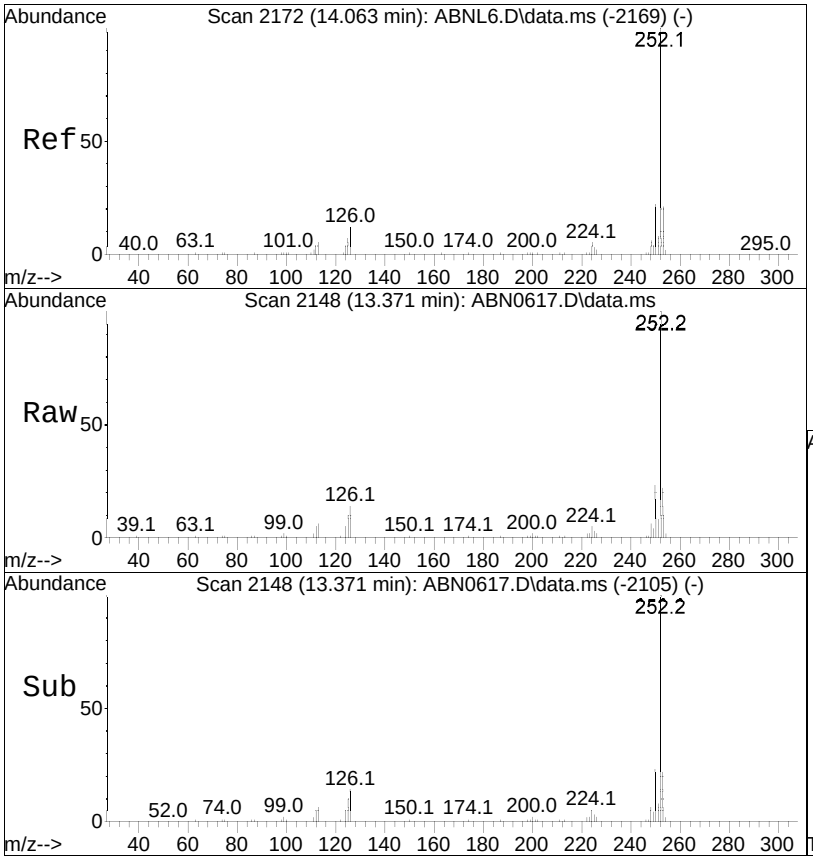


#109
Benzo(b)fluoranthene
Concen: 5.18 ug/ml
RT: 13.342 min Scan# 2143
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:252 Resp: 611305

Ion	Ratio	Lower	Upper
252	100		
125	12.0	13.3	19.9#
253	22.0	17.1	25.7

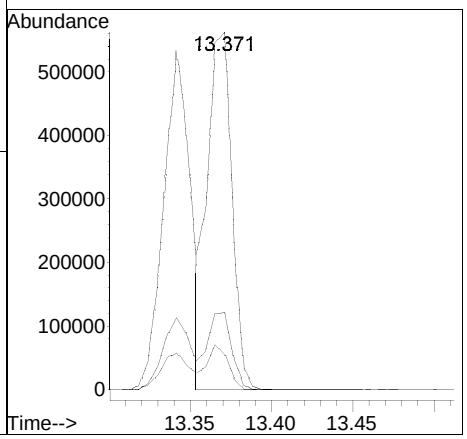


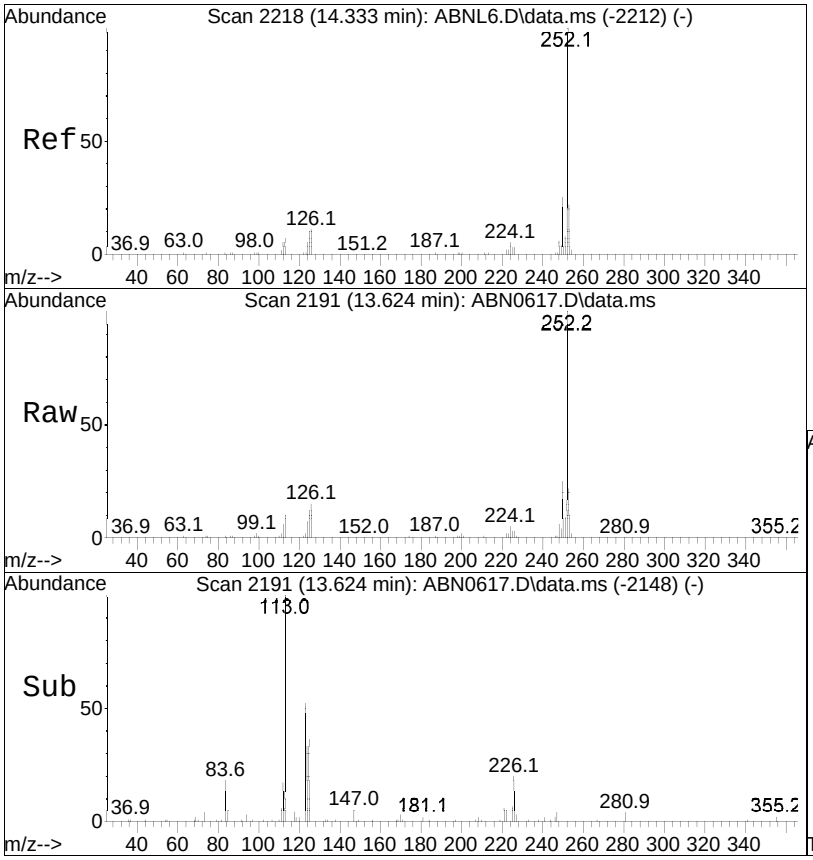


#110
Benzo(k)fluoranthene
Concen: 5.08 ug/ml
RT: 13.371 min Scan# 2148
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:252 Resp: 584546

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	21.6	16.8	25.2

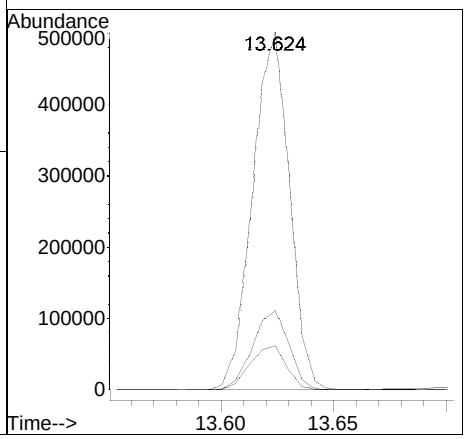


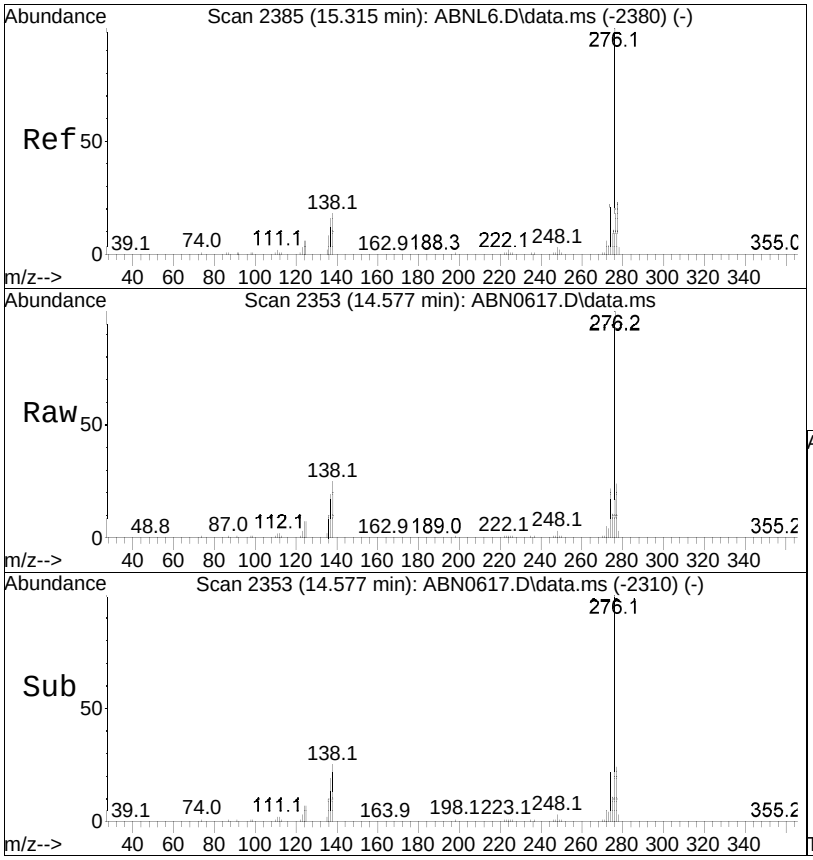


#111
Benzo(a)pyrene
Concen: 5.37 ug/ml
RT: 13.624 min Scan# 2191
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:252 Resp: 567016

Ion	Ratio	Lower	Upper
252	100		
125	12.4	14.2	21.2#
253	22.1	16.9	25.3

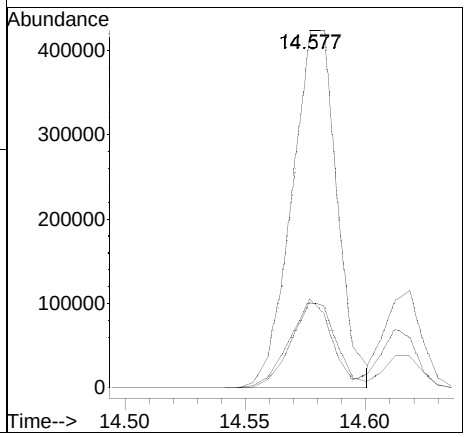


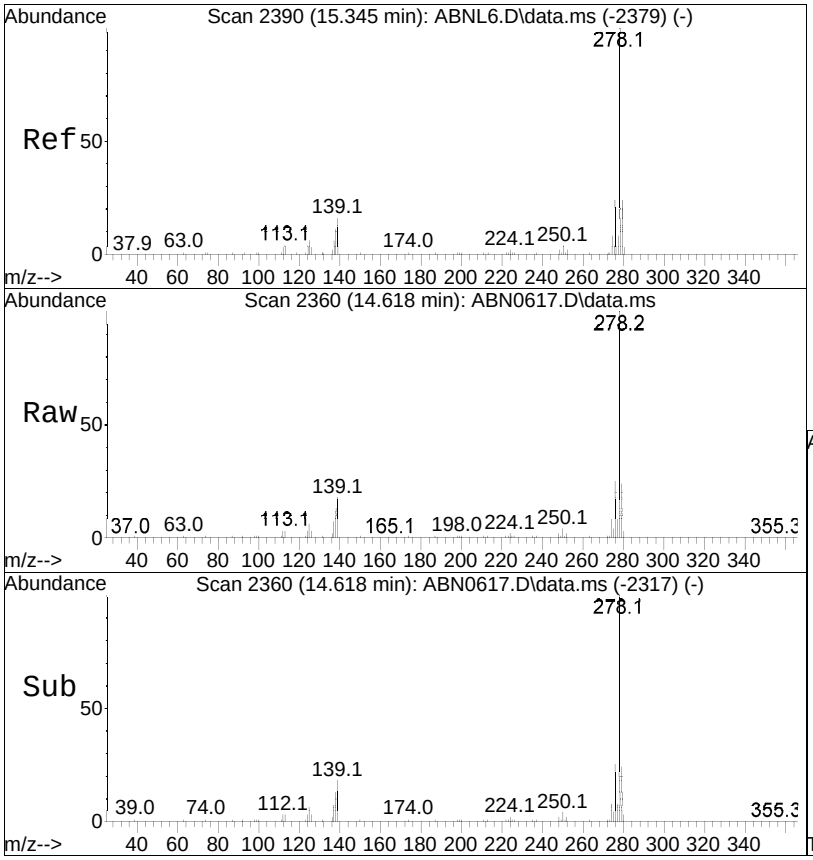


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.33 ug/mL M3
RT: 14.577 min Scan# 2353
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:276 Resp: 549642

Ion	Ratio	Lower	Upper
276	100		
138	24.3	25.1	37.7#
277	22.3	18.6	28.0

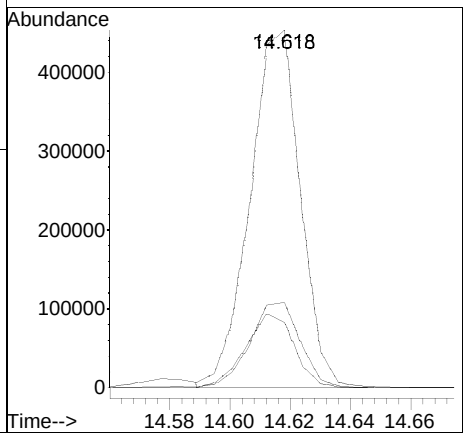


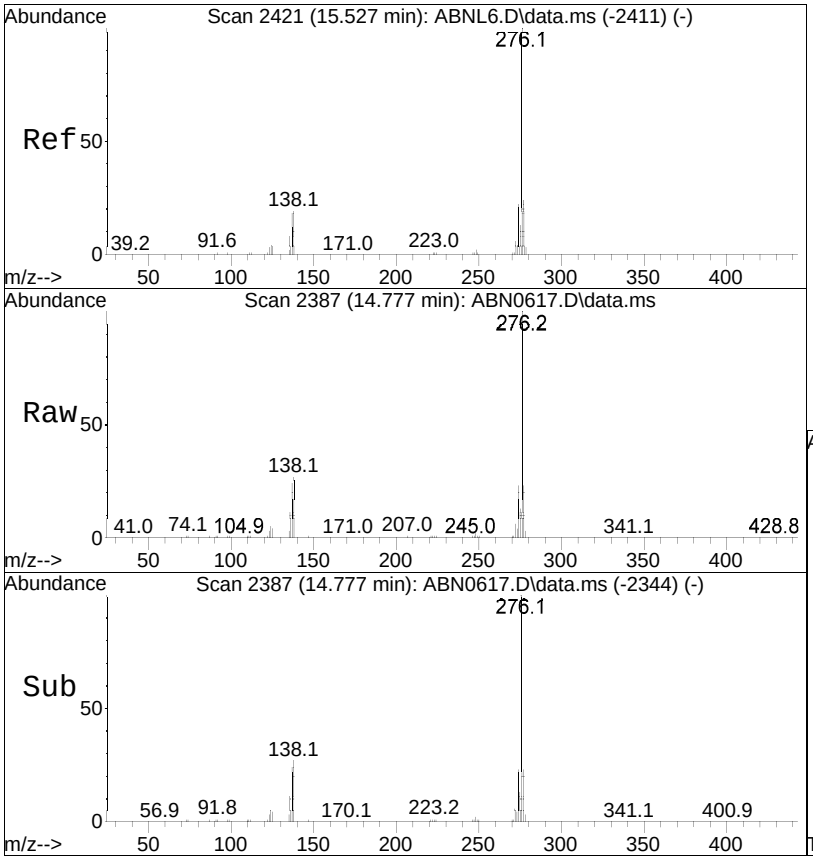


#114
Dibenzo(a,h)anthracene
Concen: 5.33 ug/ml M6
RT: 14.618 min Scan# 2360
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:278 Resp: 521953

Ion	Ratio	Lower	Upper
278	100		
139	20.3	20.8	31.2#
279	24.5	18.3	27.5

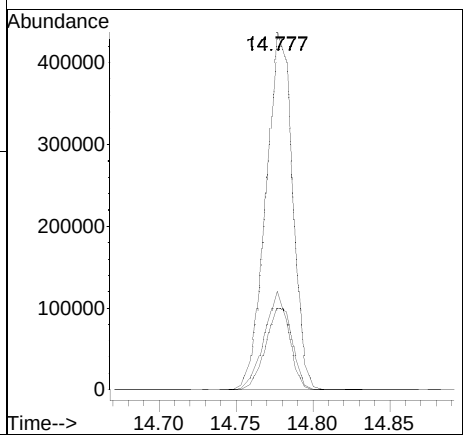




#115
Benzo(ghi)perylene
Concen: 5.42 ug/ml
RT: 14.777 min Scan# 2387
Delta R.T. 0.000 min
Lab File: ABN0617.D
Acq: 17 Jun 2024 8:45 am

Tgt Ion:276 Resp: 523995

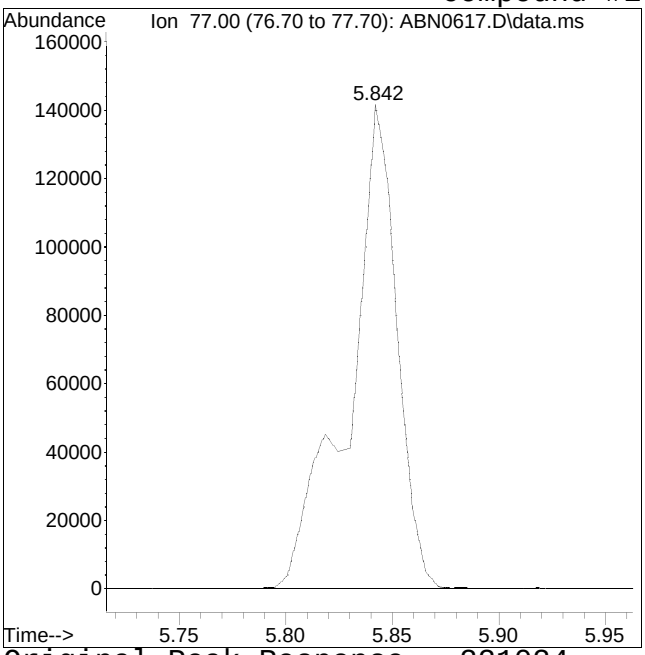
Ion	Ratio	Lower	Upper
276	100		
138	25.5	29.2	43.8#
277	23.4	18.8	28.2



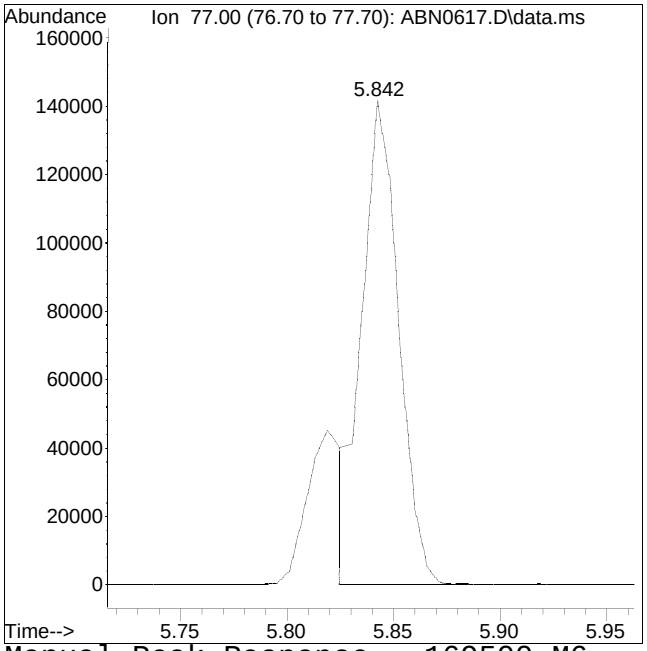
Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\ QMethod : FS240418SV106.m
Data File : ABN0617.D Operator : SV106:sz
Date Inj'd : 6/17/2024 8:45 am Instrument : SV 106
Sample : wg1935225-3,32,,ABN 10526 Quant Date : 6/17/2024 9:11 am

Compound #20: Nitrobenzene



Original Peak Response = 221024



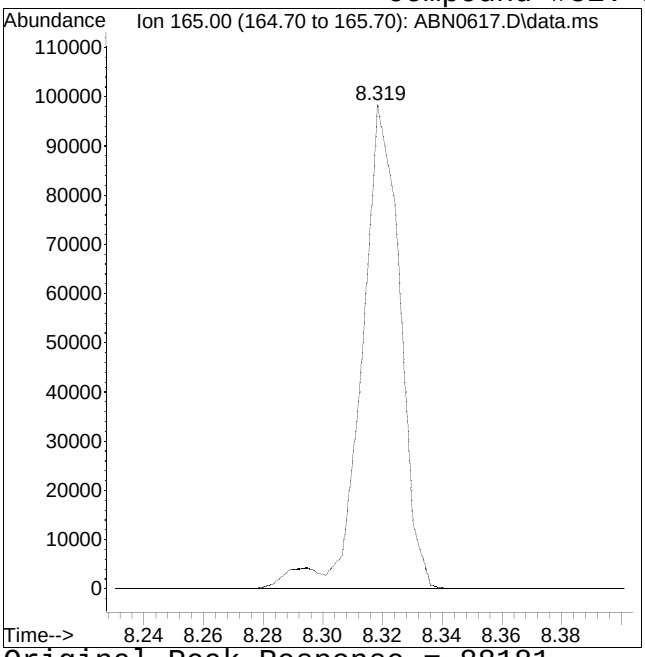
Manual Peak Response = 169500 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

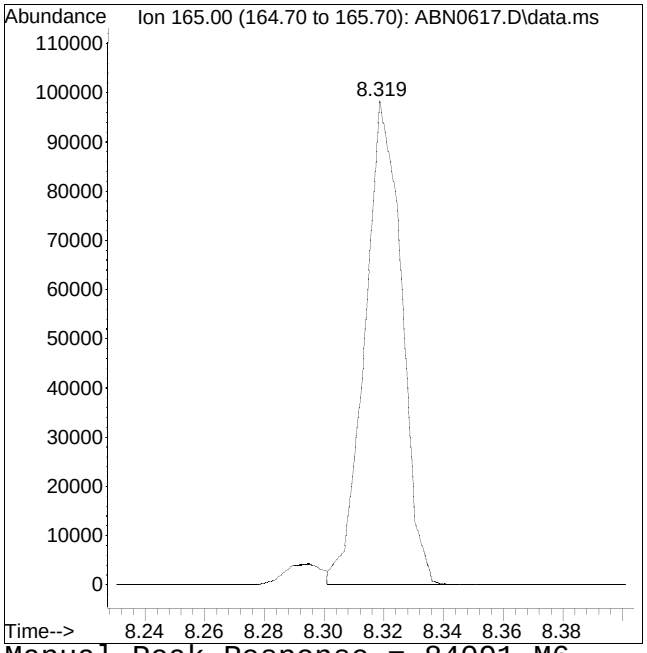
Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\ QMethod : FS240418SV106.m
Data File : ABN0617.D Operator : SV106:sz
Date Inj'd : 6/17/2024 8:45 am Instrument : SV 106
Sample : wg1935225-3,32,,ABN 10526 Quant Date : 6/17/2024 9:11 am

Compound #52: 2,6-Dinitrotoluene



Original Peak Response = 88181



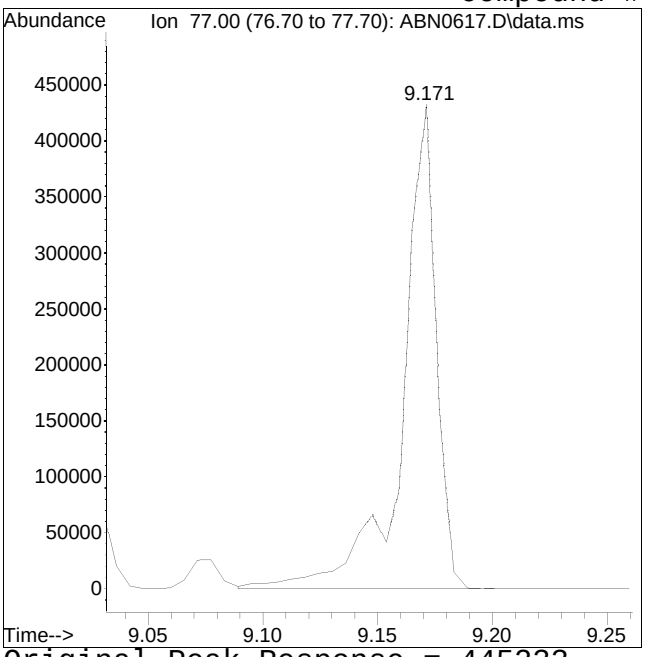
Manual Peak Response = 84091 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

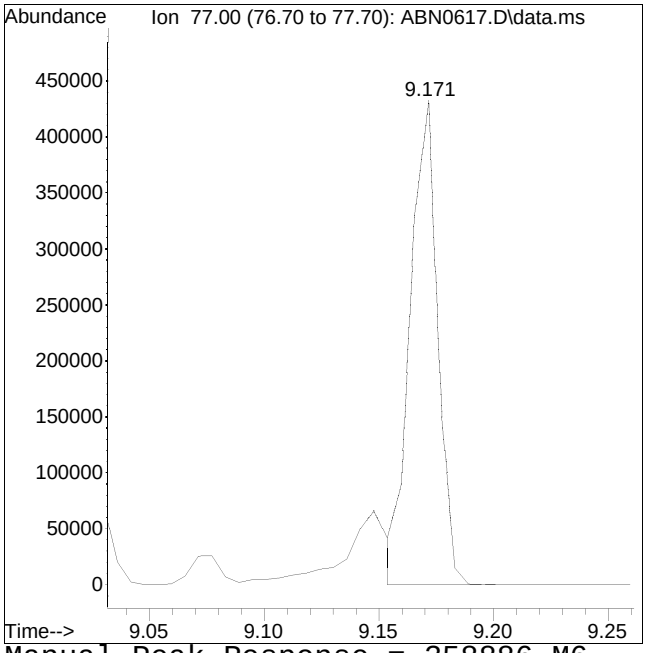
Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\ QMethod : FS240418SV106.m
Data File : ABN0617.D Operator : SV106:sz
Date Inj'd : 6/17/2024 8:45 am Instrument : SV 106
Sample : wg1935225-3,32,,ABN 10526 Quant Date : 6/17/2024 9:11 am

Compound #77: Azobenzene



Original Peak Response = 445233



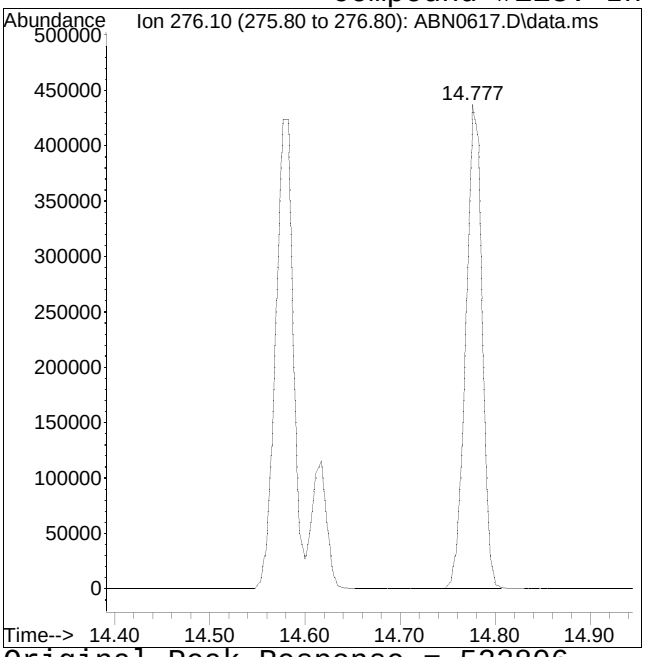
Manual Peak Response = 358886 M6

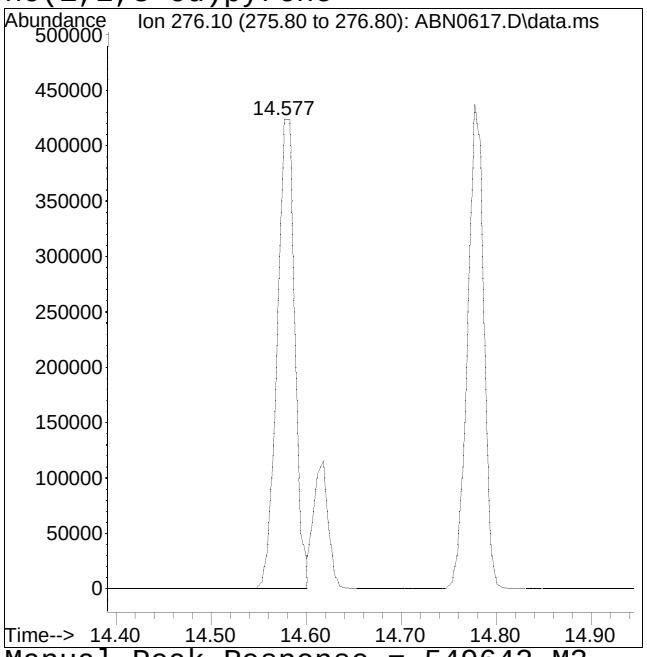
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\ QMethod : FS240418SV106.m
Data File : ABN0617.D Operator : SV106:sz
Date Inj'd : 6/17/2024 8:45 am Instrument : SV 106
Sample : wg1935225-3,32,,ABN 10526 Quant Date : 6/17/2024 9:11 am

Compound #113: Indeno(1,2,3-cd)pyrene





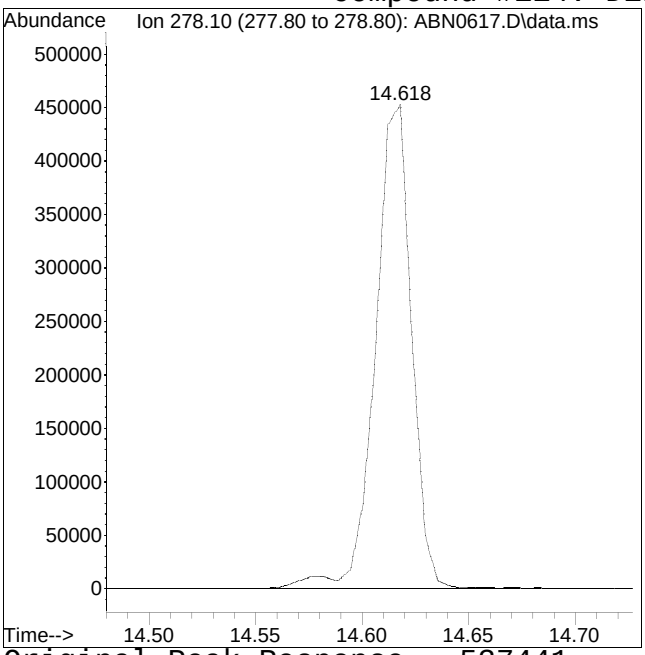
Original Peak Response = 522806 Manual Peak Response = 549642 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

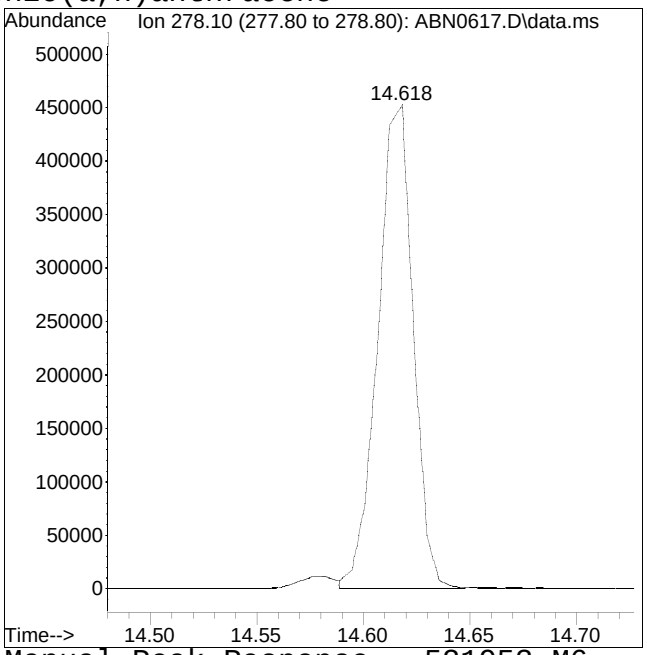
Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\ QMethod : FS240418SV106.m
Data File : ABN0617.D Operator : SV106:sz
Date Inj'd : 6/17/2024 8:45 am Instrument : SV 106
Sample : wg1935225-3,32,,ABN 10526 Quant Date : 6/17/2024 9:11 am

Compound #114: Dibenzo(a,h)anthracene



Original Peak Response = 537441



Manual Peak Response = 521953 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240617RVT\
Data File : ADP0617.D
Acq On : 17 Jun 2024 9:09 am
Operator : SV106:sz
Sample : wg1935225-5,32,,ADP 10751 gmr0518B
Misc : wg1935225,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 17 12:24:12 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:24:42 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	117	0.00
33	T	n-Decane		1.537	1.413	8.1	116	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	114	0.00
86	T	Atrazine		0.403	0.452	-12.2	131	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	110	0.00
100	T	n-Octadecane		0.440	0.475	-8.0	120	0.00
101	T	Parathion		0.121	0.149	-23.1#	151	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	5.203	-4.1	138	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : ADP0617.D
Acq On : 17 Jun 2024 9:09 am
Operator : SV106:sz
Sample : wg1935225-5,32,,ADP 10751 gmr0518B
Misc : wg1935225,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 17 12:24:12 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:24:42 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.937	152	71151	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	8.454	164	161219	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.848	188	350424	4.000	ug/ml	# 0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.872	57	125651M3	4.595	ug/ml	
86) Atrazine	9.707	200	91001	5.604	ug/ml	91
100) n-Octadecane	9.936	57	208147	5.402	ug/ml#	1
101) Parathion	10.677	109	65228	6.176	ug/ml#	91
102) 3,3'-Dimethylbenzidine	11.883	212	363973	5.203	ug/ml	99

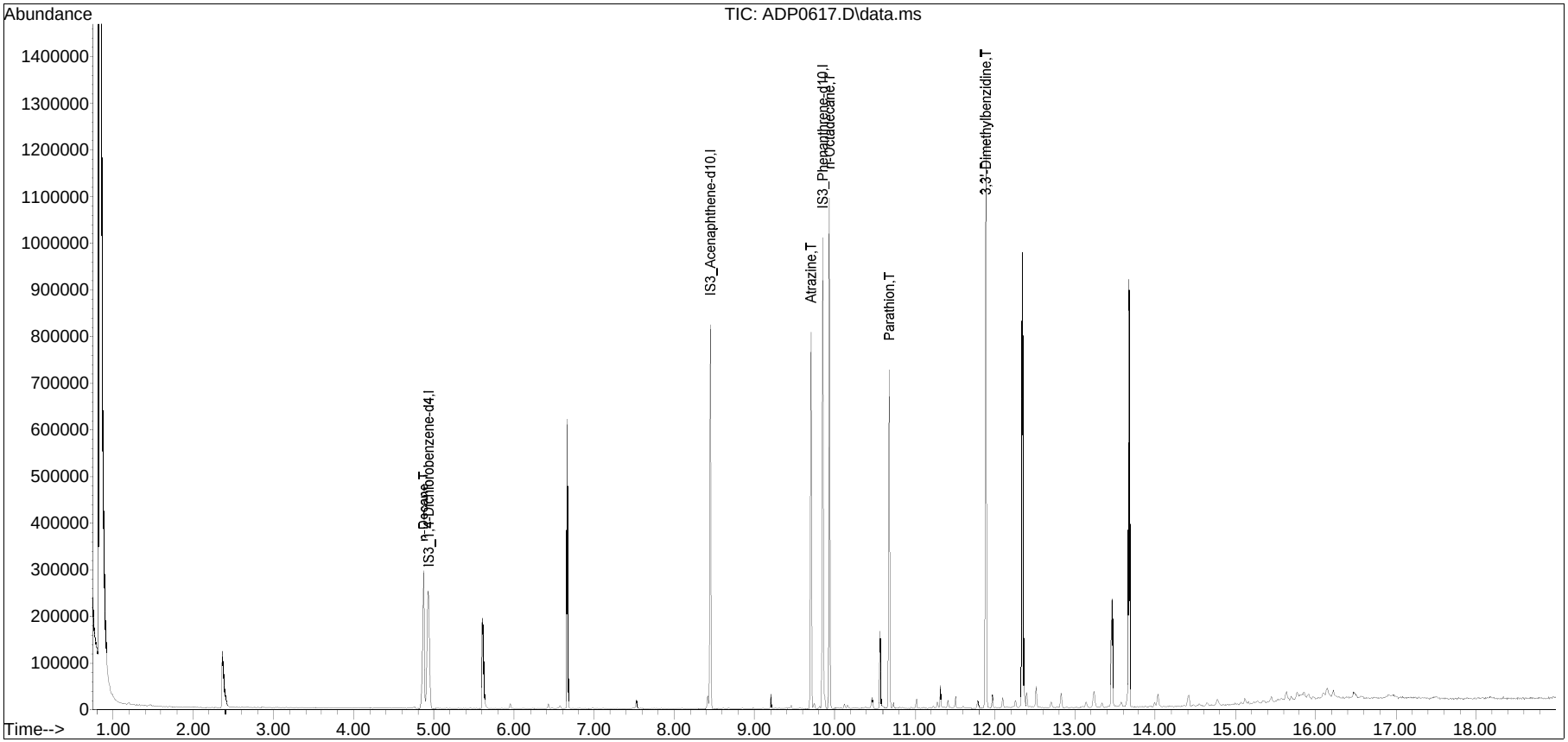
(#) = qualifier out of range (m) = manual integration (+) = signals summed

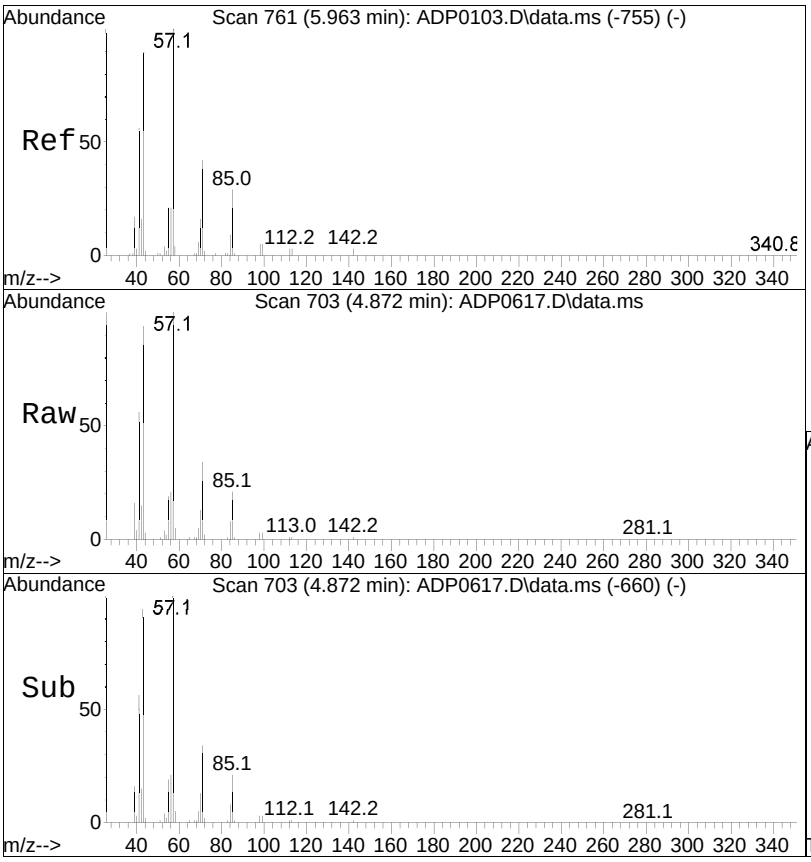
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : ADP0617.D
Acq On : 17 Jun 2024 9:09 am
Operator : SV106:sz
Sample : wg1935225-5,32,,ADP 10751 gmr0518B
Misc : wg1935225,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 17 12:24:12 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:24:42 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

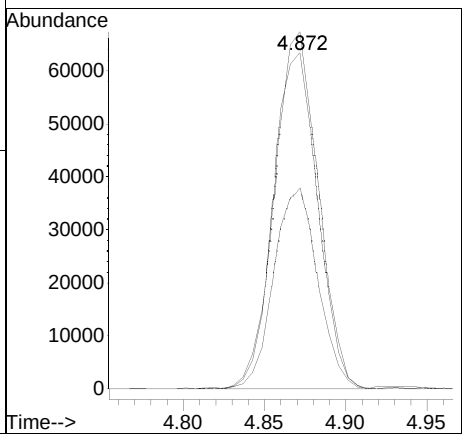


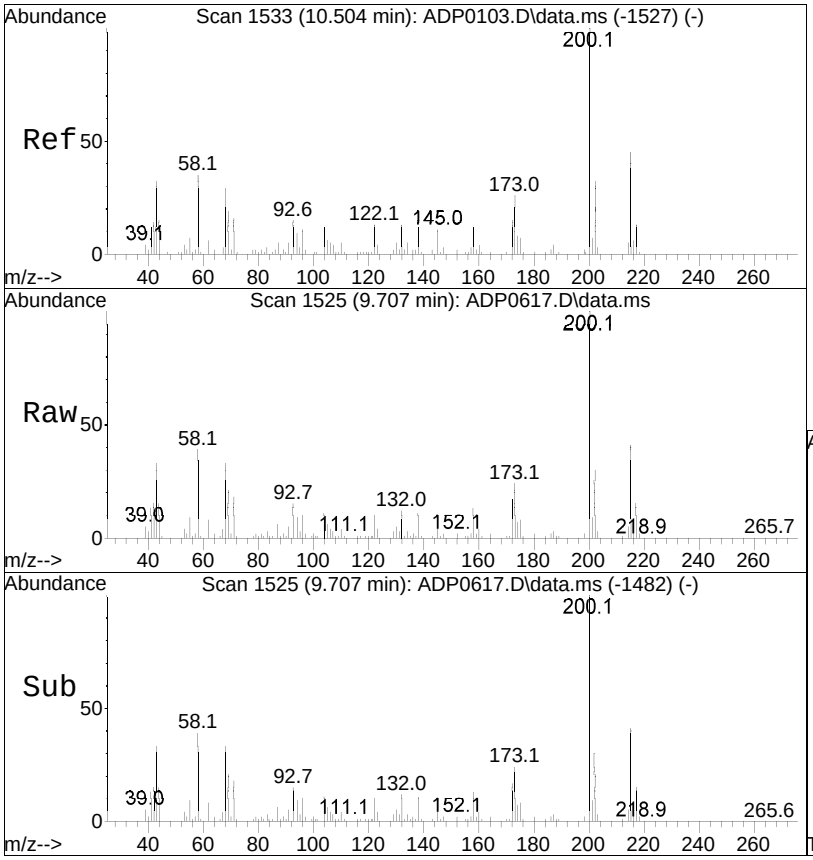


#33
n-Decane
Concen: 4.59 ug/ml M3
RT: 4.872 min Scan# 703
Delta R.T. 0.000 min
Lab File: ADP0617.D
Acq: 17 Jun 2024 9:09 am

Tgt Ion: 57 Resp: 125651

Ion	Ratio	Lower	Upper
57	100		
43	95.4	0.2	0.2#
41	56.7	0.2	0.2#

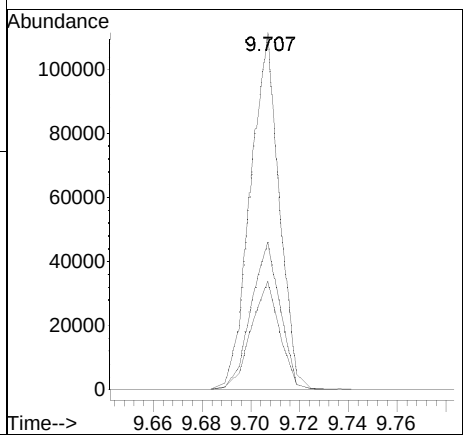


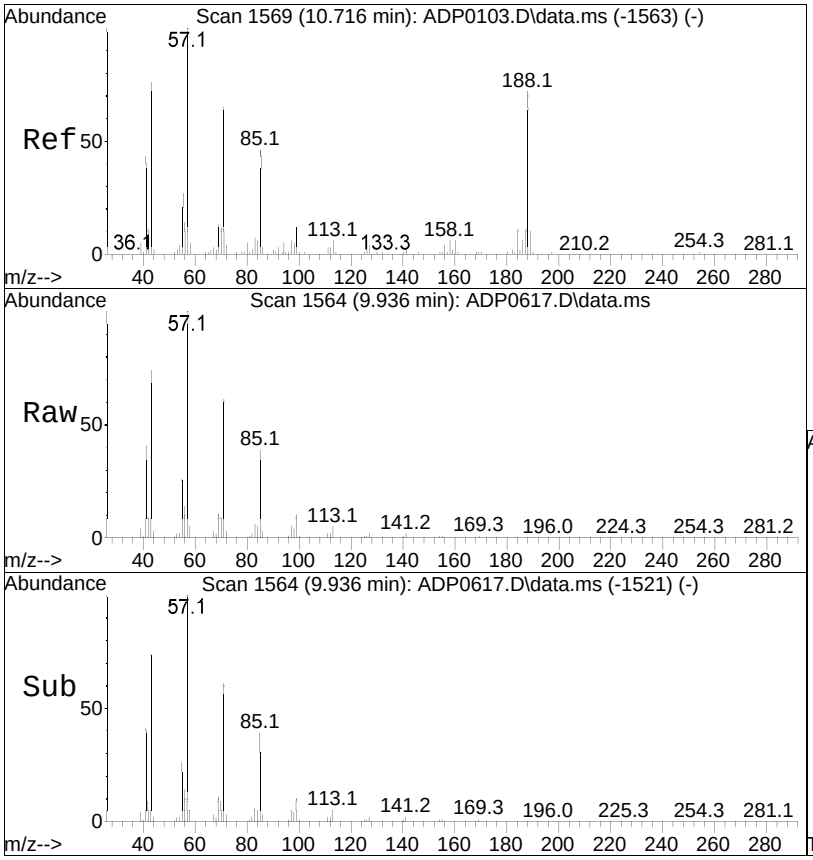


#86
Atrazine
Concen: 5.60 ug/ml
RT: 9.707 min Scan# 1525
Delta R.T. 0.000 min
Lab File: ADP0617.D
Acq: 17 Jun 2024 9:09 am

Tgt Ion:200 Resp: 91001

Ion	Ratio	Lower	Upper
200	100		
202	30.4	25.8	38.6
215	41.7	40.2	60.4

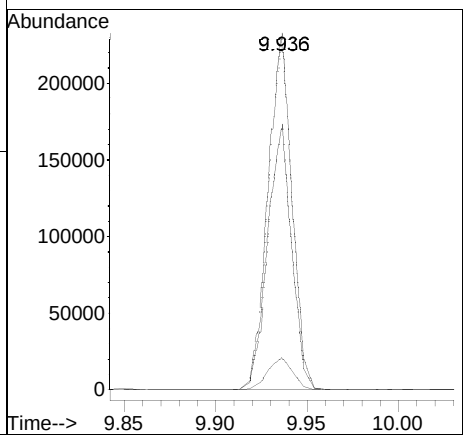


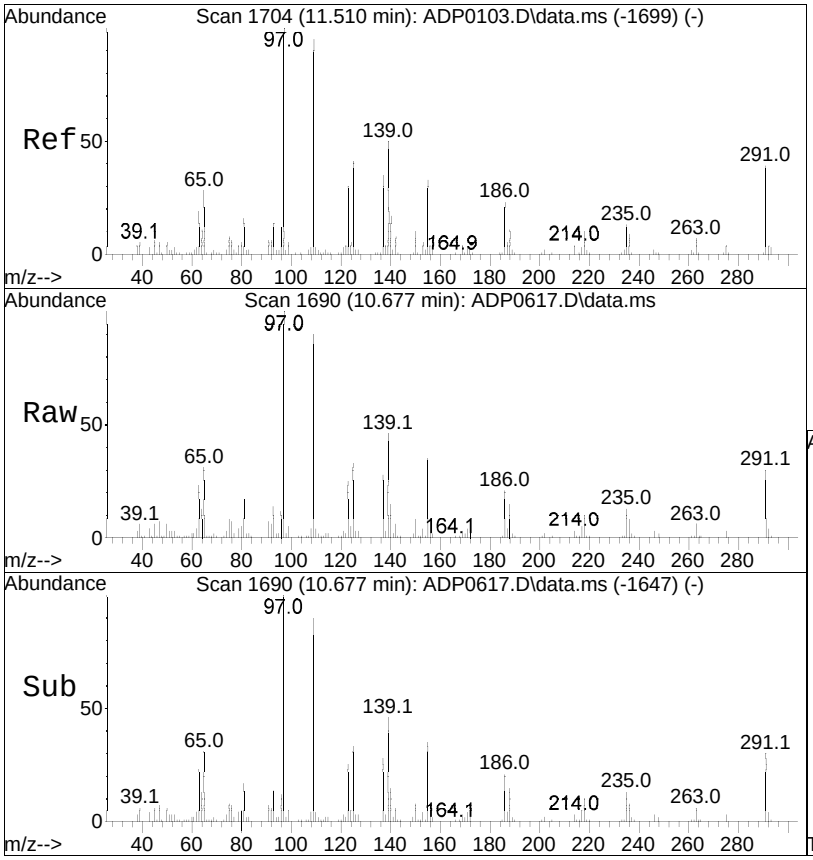


#100
n-Octadecane
Concen: 5.40 ug/ml
RT: 9.936 min Scan# 1564
Delta R.T. 0.000 min
Lab File: ADP0617.D
Acq: 17 Jun 2024 9:09 am

Tgt Ion: 57 Resp: 208147

Ion	Ratio	Lower	Upper
57	100		
43	74.6	9.0	13.6#
70	9.5	0.2	0.2#

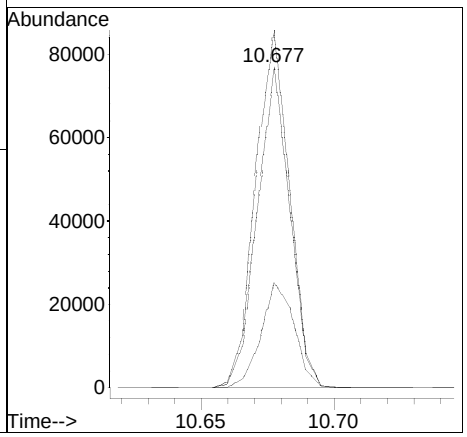


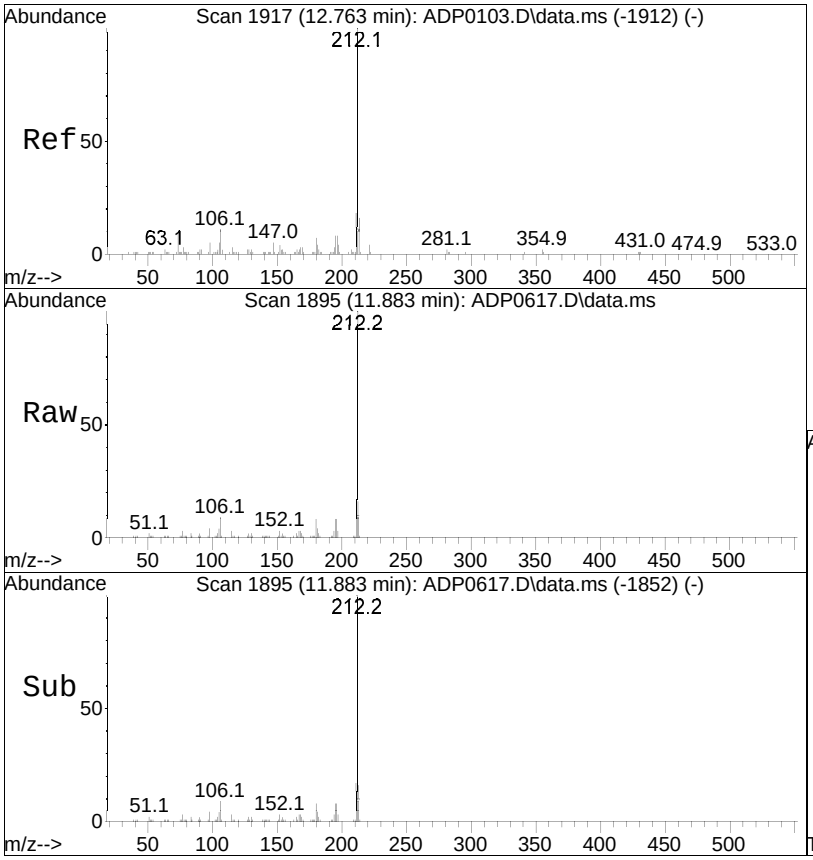


#101
Parathion
Concen: 6.18 ug/ml
RT: 10.677 min Scan# 1690
Delta R.T. 0.000 min
Lab File: ADP0617.D
Acq: 17 Jun 2024 9:09 am

Tgt Ion:109 Resp: 65228

Ion	Ratio	Lower	Upper
109	100		
97	116.4	87.4	131.2
291	33.7	34.2	51.2#

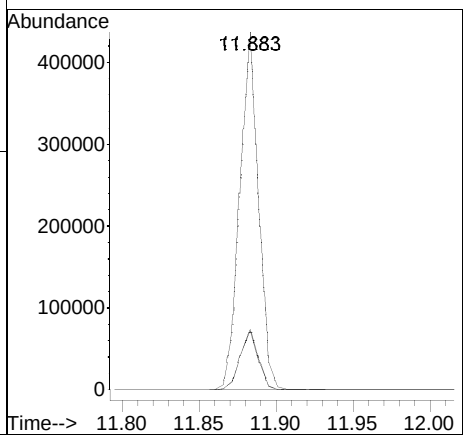




#102
3,3'-Dimethylbenzidine
Concen: 5.20 ug/ml
RT: 11.883 min Scan# 1895
Delta R.T. 0.000 min
Lab File: ADP0617.D
Acq: 17 Jun 2024 9:09 am

Tgt Ion:212 Resp: 363973

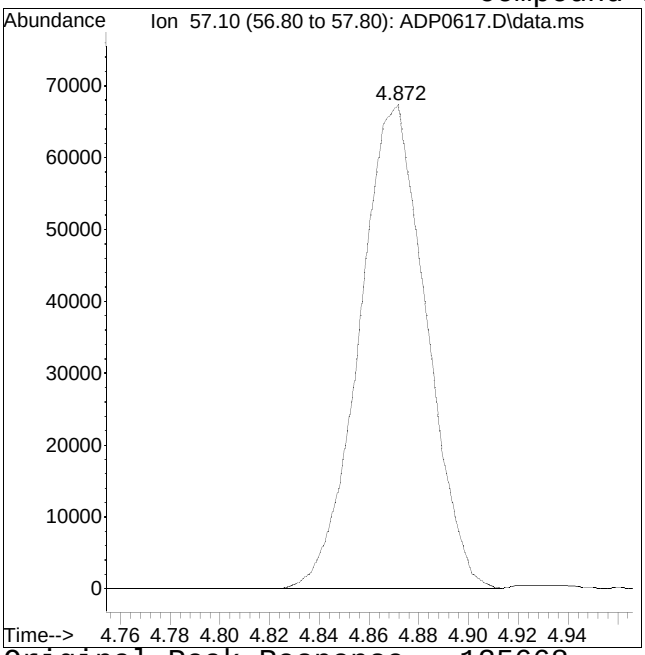
Ion	Ratio	Lower	Upper
212	100		
211	16.8	12.9	19.3
213	16.3	13.2	19.8

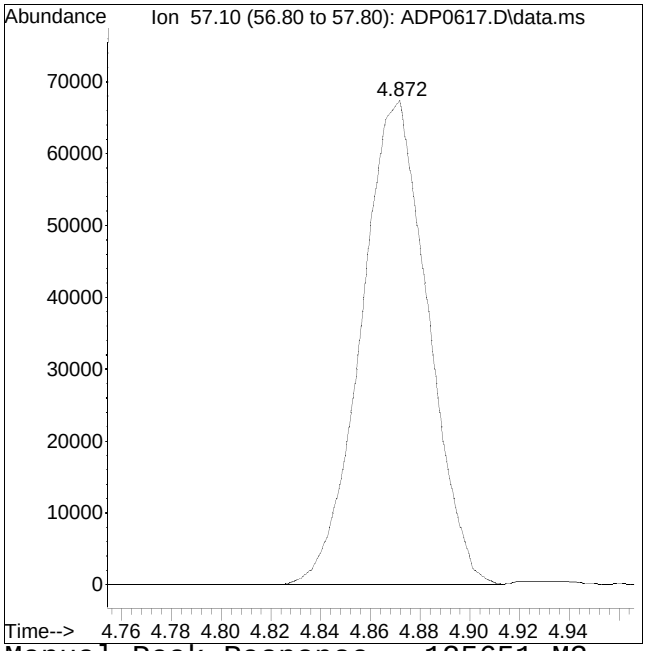


Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\ QMethod : FS240418SV106.m
Data File : ADP0617.D Operator : SV106:sz
Date Inj'd : 6/17/2024 9:09 am Instrument : SV 106
Sample : wg1935225-5,32,,ADP 10751 Quant Date : 6/17/2024 12:24 pm

Compound #33: n-Decane





Original Peak Response = 125668 Manual Peak Response = 125651 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240617RVT\
Data File : AP90617.D
Acq On : 17 Jun 2024 9:33 am
Operator : SV106:sz
Sample : wg1935225-4,32,,AP9 10770 gmr0616A
Misc : wg1935225,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 17 12:25:15 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:44 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
28	T	Benzaldehyde	1.095	1.289	-17.7	163	0.00
29	T	Acetophenone	1.981	2.315	-16.9	158	0.00
30	T	m-Toluidine	1.685	2.157	-28.0#	159	0.00
31	T	2-Chloroaniline	1.619	1.960	-21.1#	160	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	123	0.00
55	T	a-Terpineol	0.330	0.382	-15.8	152	0.00
56	T	3-Chloroaniline	0.181	0.206	-13.8	141	0.00
57	T	2,6-Dichlorophenol	0.300	0.378	-26.0#	168	0.00
58	T	1-chloro-2-nitrobenzene	0.172	0.193	-12.2	158	0.00
59	T	Caprolactam	0.176	0.214	-21.6#	163	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.461	0.492	-6.7	145	0.00
61	T	Biphenyl	0.901	1.026	-13.9	149	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	125	0.00
83	T	Dichloran	0.191	0.263	-37.7#	177	0.00
84	T	Pentachloronitrobenzene	0.232	0.302	-30.2#	176	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	129	0.00
98	T	Diphenamid	0.451	0.592	-31.3#	173	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : AP90617.D
Acq On : 17 Jun 2024 9:33 am
Operator : SV106:sz
Sample : wg1935225-4,32,,AP9 10770 gmr0616A
Misc : wg1935225,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 17 12:25:15 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:44 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.936	152	73522	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	6.666	136	271609	4.000	ug/ml	#	0.00
82) IS2_Acenaphthene-d10	8.454	164	175707	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	9.848	188	400927	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	3.807	105	118419	5.881	ug/ml		99
29) Acetophenone	5.648	105	212743	5.842	ug/ml	#	82
30) m-Toluidine	5.778	106	198237	6.401	ug/ml		95
31) 2-Chloroaniline	6.231	127	180088	6.052	ug/ml		95
55) a-Terpineol	6.795	59	129587	5.776	ug/ml	#	79
56) 3-Chloroaniline	6.801	65	69920	5.684	ug/ml		77
57) 2,6-Dichlorophenol	6.819	162	128297	6.304	ug/ml	#	88
58) 1-chloro-2-nitrobenzene	7.095	111	65662	5.633	ug/ml	#	1
59) Caprolactam	7.160	55	72593	6.075	ug/ml	#	70
60) 1,2,4,5-Tetrachloroben...	7.625	216	167162	5.345	ug/ml		98
61) Biphenyl	7.930	154	348489	5.695	ug/ml		99
83) Dichloran	9.583	206	57838	6.879	ug/ml	#	76
84) Pentachloronitrobenzene	9.719	237	66265	6.498	ug/ml	#	82
98) Diphenamid	10.789	167	296751	6.560	ug/ml		82

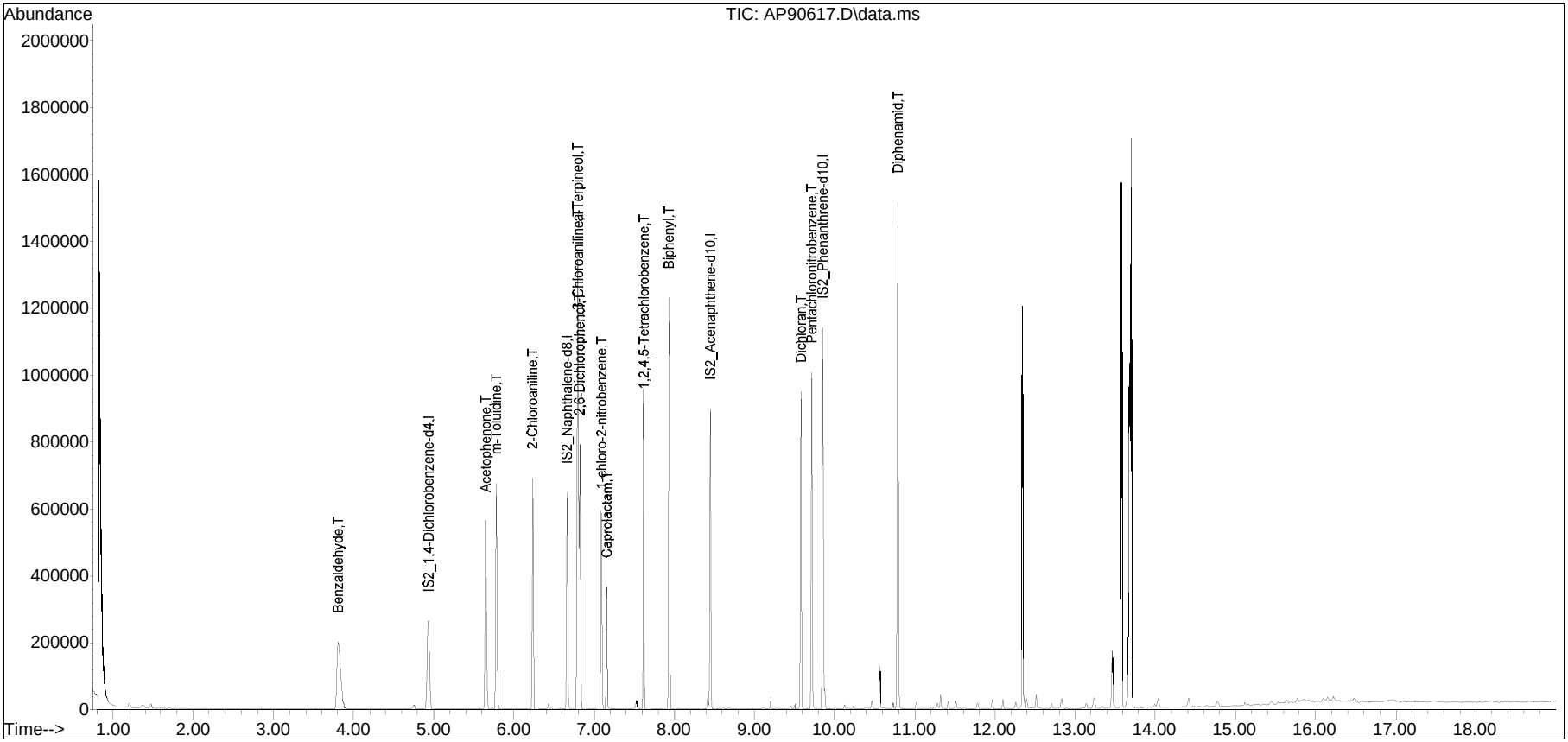
(#) = qualifier out of range (m) = manual integration (+) = signals summed

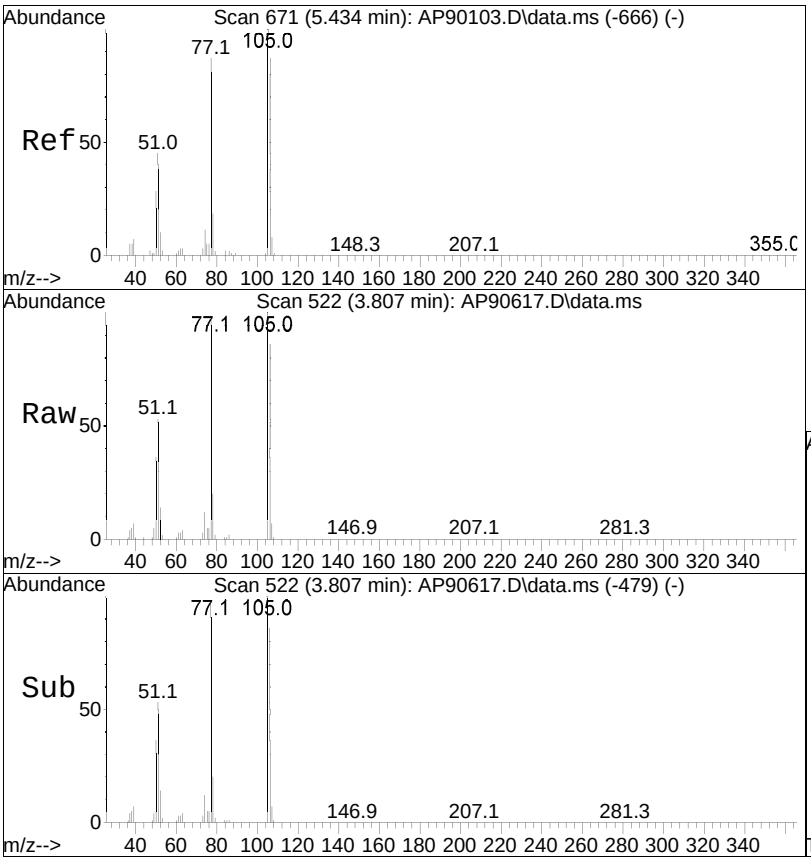
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : AP90617.D
Acq On : 17 Jun 2024 9:33 am
Operator : SV106:sz
Sample : wg1935225-4,32,,AP9 10770 gmr0616A
Misc : wg1935225,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 17 12:25:15 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:44 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

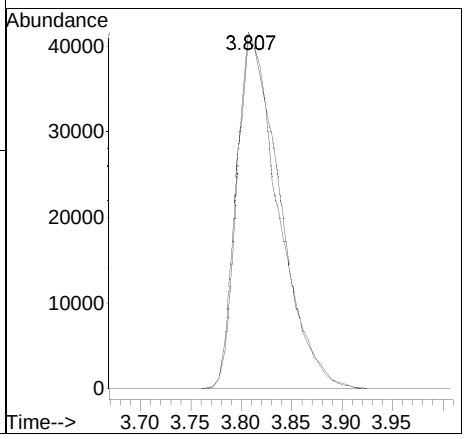


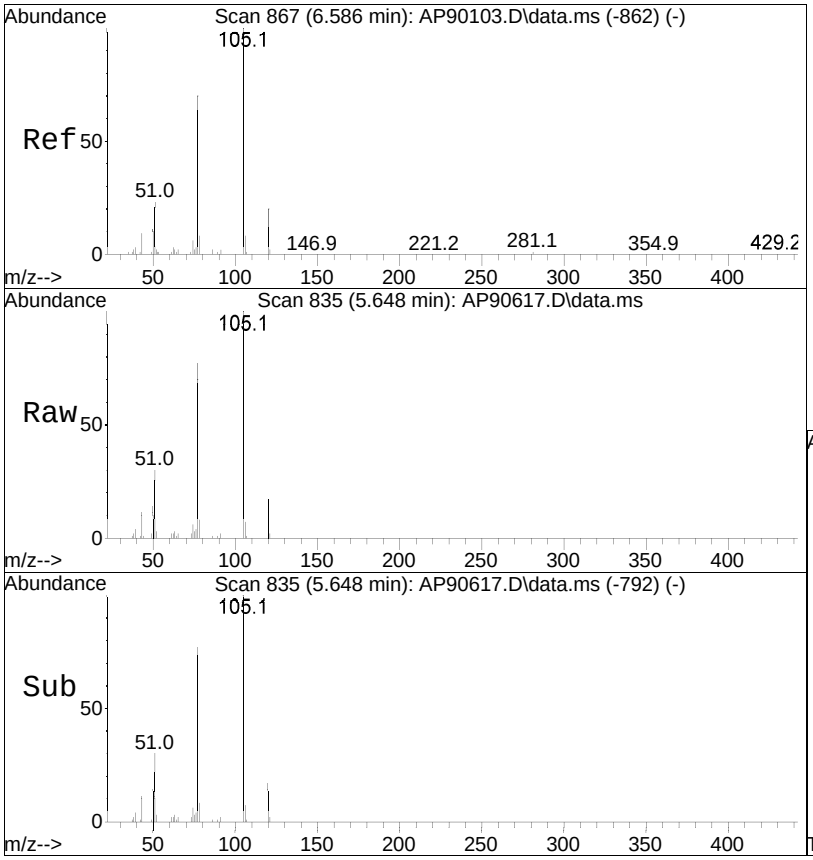


#28
Benzaldehyde
Concen: 5.88 ug/ml
RT: 3.807 min Scan# 522
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:105 Resp: 118419

Ion	Ratio	Lower	Upper
105	100		
77	103.8	82.2	123.4

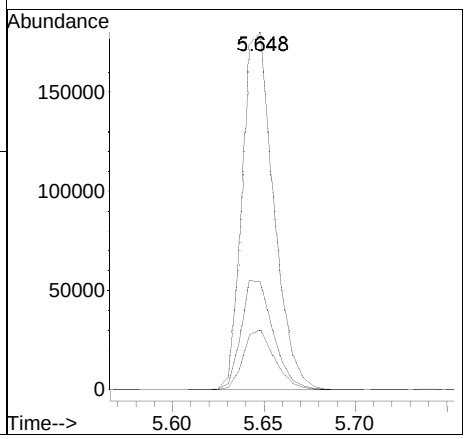


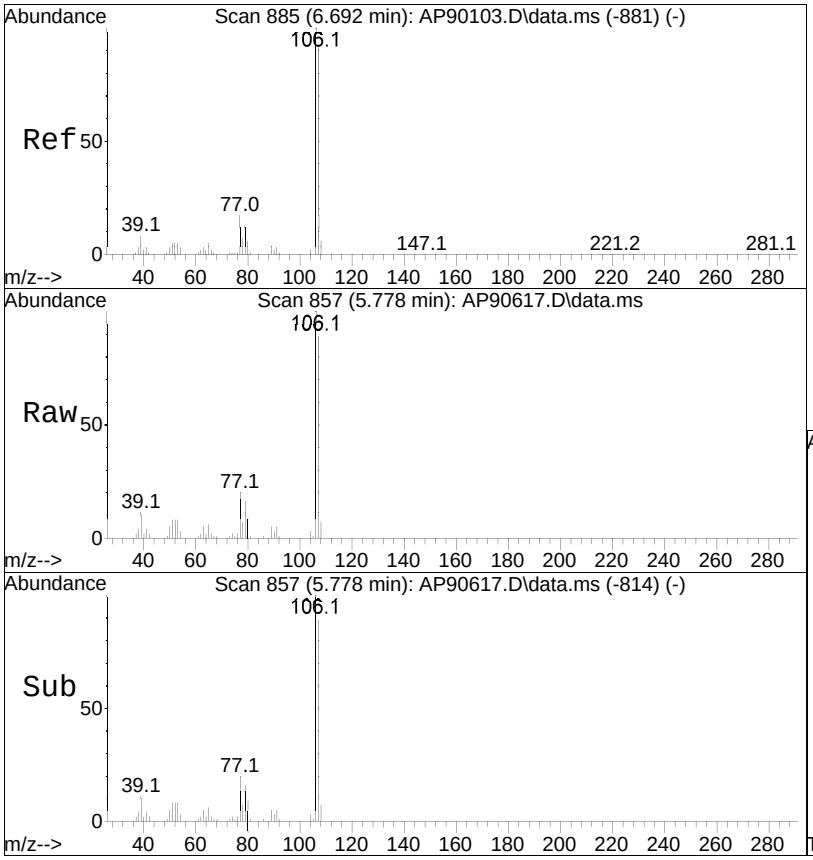


#29
Acetophenone
Concen: 5.84 ug/ml
RT: 5.648 min Scan# 835
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:105 Resp: 212743

Ion	Ratio	Lower	Upper
105	100		
120	16.8	20.5	30.7#
51	31.5	34.9	52.3#

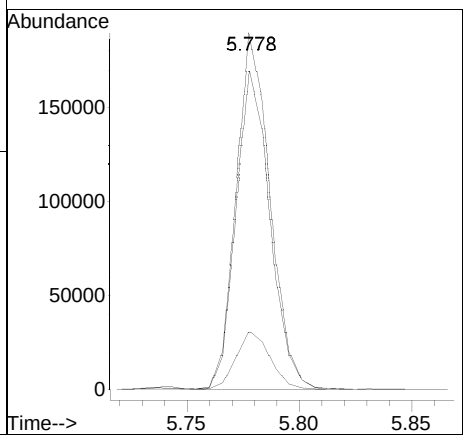


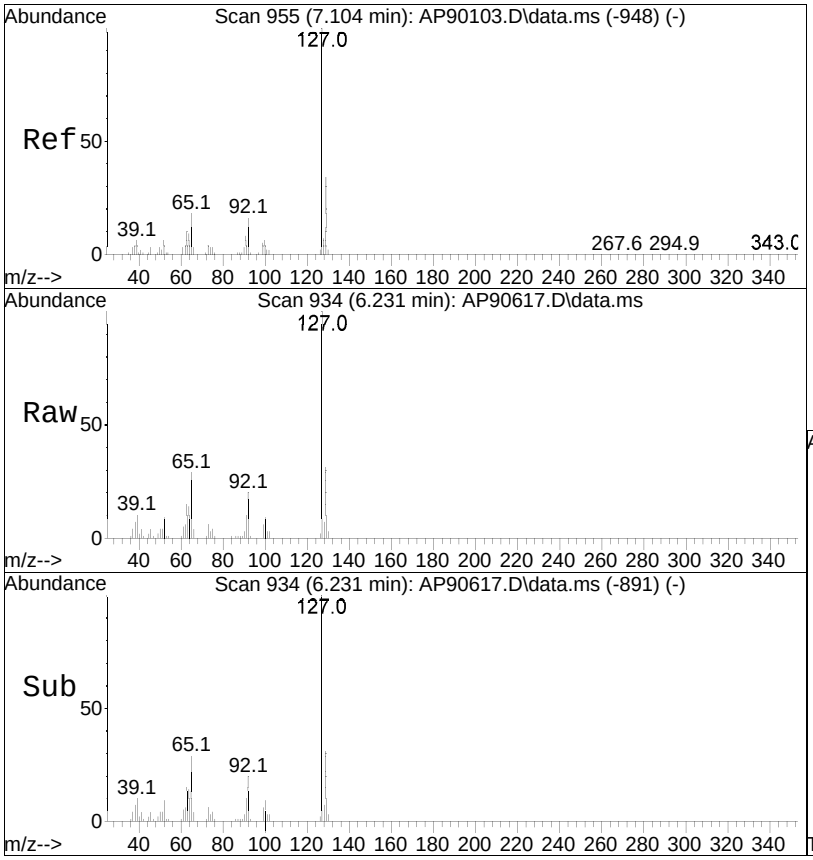


#30
m-Toluidine
Concen: 6.40 ug/ml
RT: 5.778 min Scan# 857
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:106 Resp: 198237

Ion	Ratio	Lower	Upper
106	100		
107	89.5	75.7	113.5
79	16.4	11.8	17.8

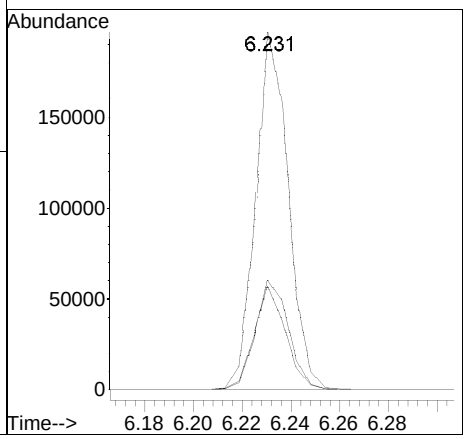


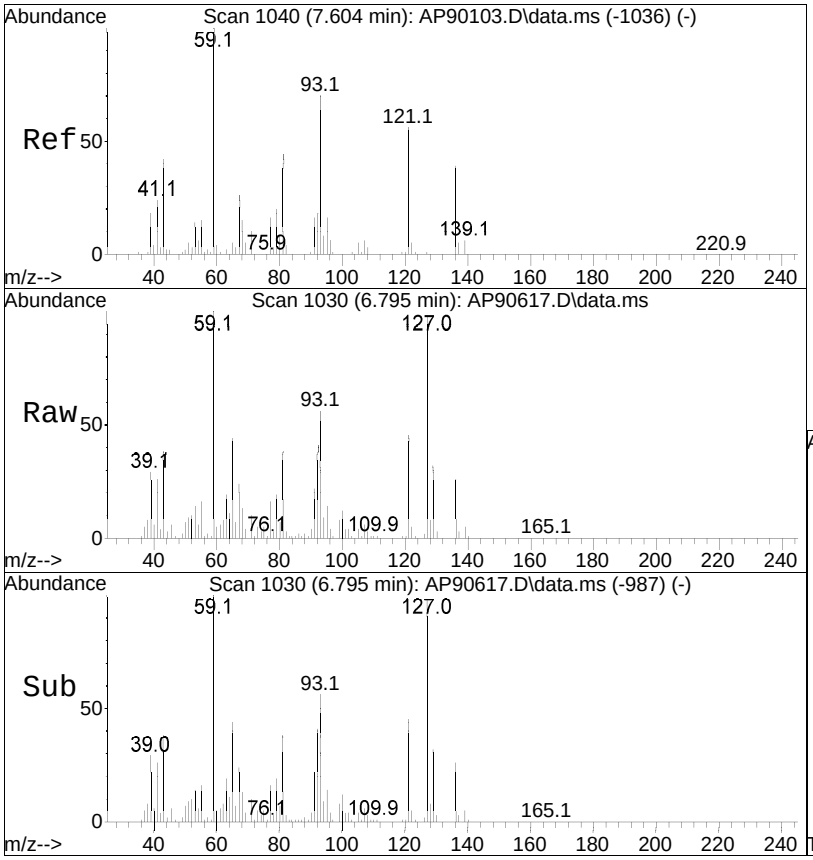


#31
2-Chloroaniline
Concen: 6.05 ug/ml
RT: 6.231 min Scan# 934
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:127 Resp: 180088

Ion	Ratio	Lower	Upper
127	100		
129	31.3	25.9	38.9
65	28.2	26.3	39.5

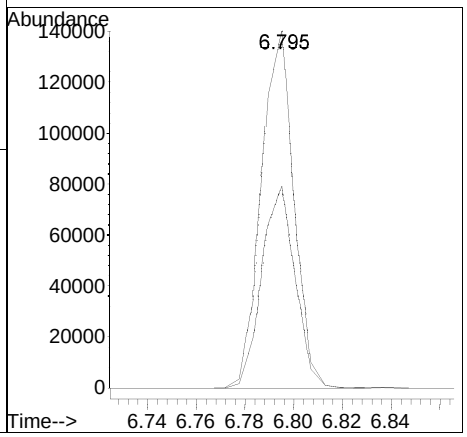


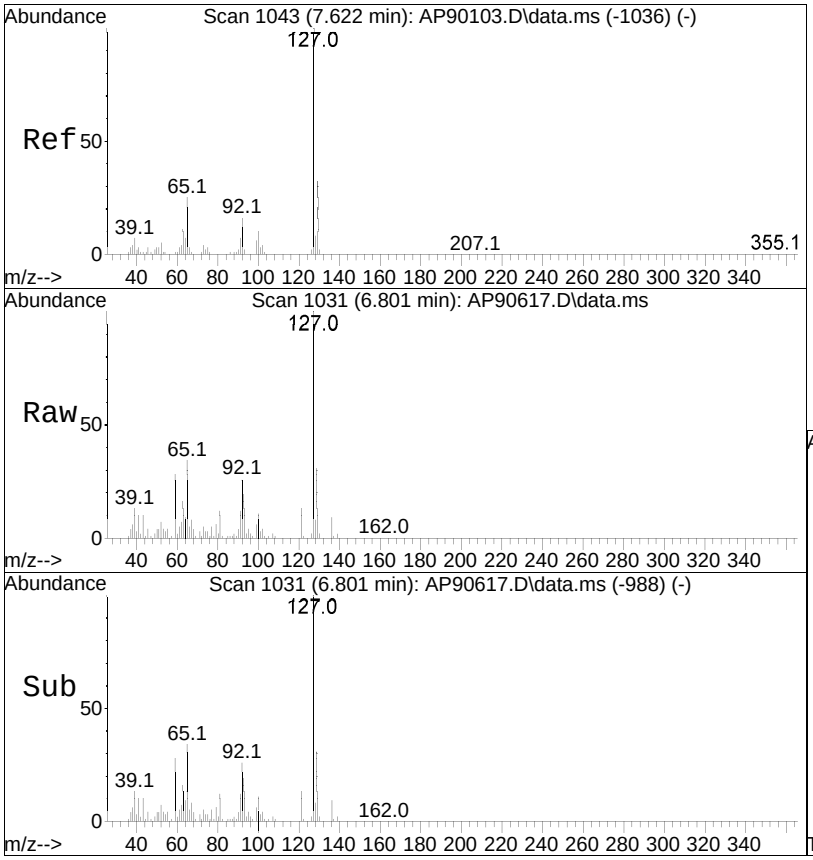


#55
a-Terpineol
Concen: 5.78 ug/ml
RT: 6.795 min Scan# 1030
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion: 59 Resp: 129587

Ion	Ratio	Lower	Upper
59	100		
93	58.0	35.6	53.4#

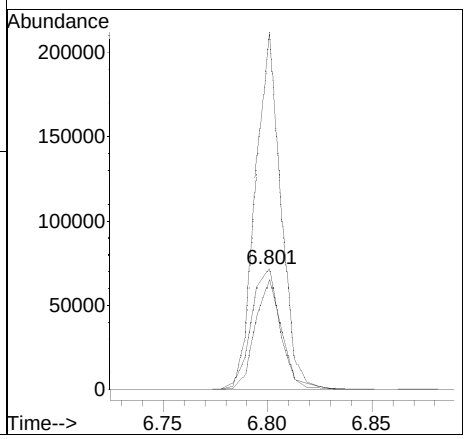


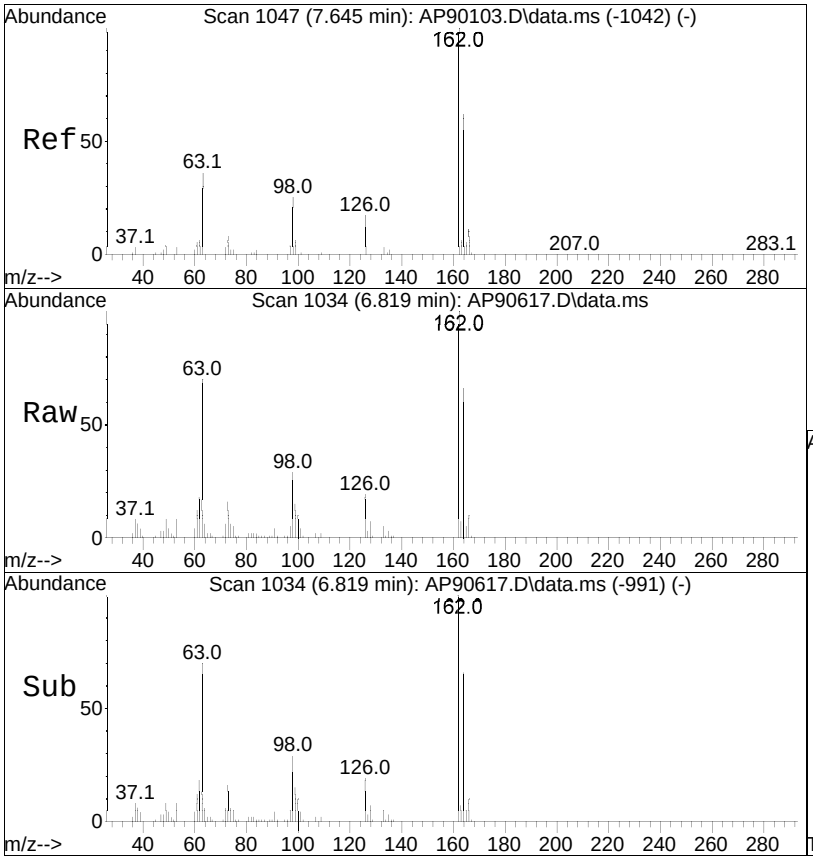


#56
3-Chloroaniline
Concen: 5.68 ug/ml
RT: 6.801 min Scan# 1031
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion: 65 Resp: 69920

Ion	Ratio	Lower	Upper
65	100		
127	255.5	243.2	364.8
129	82.0	78.8	118.2

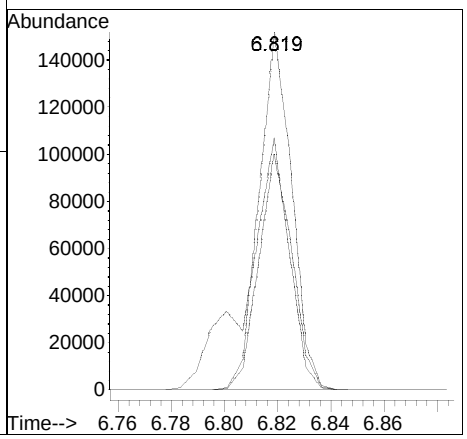


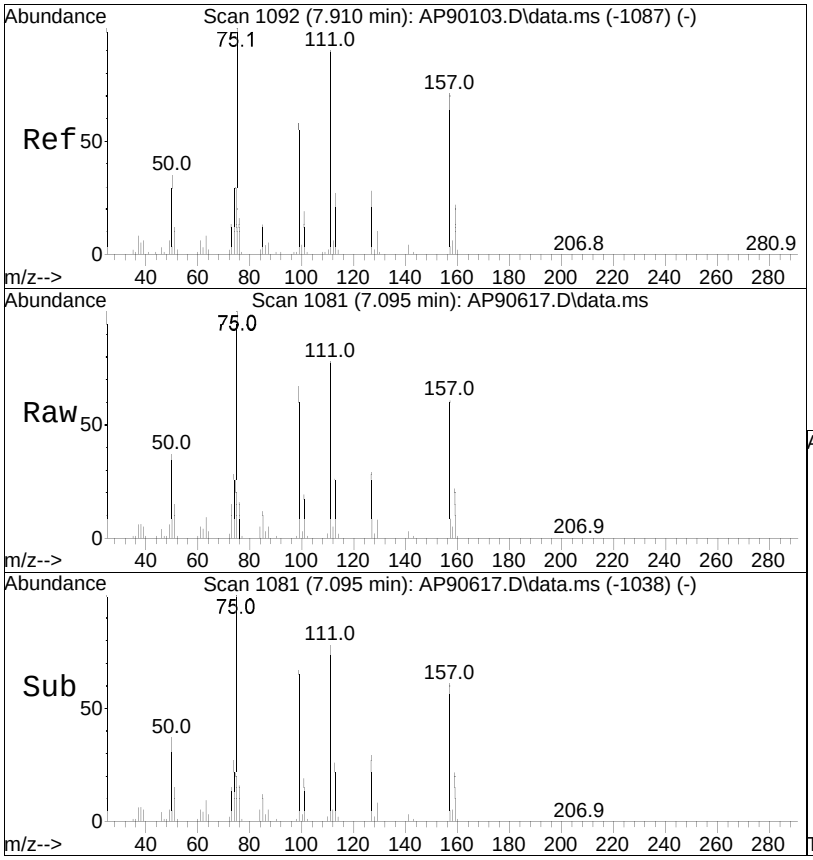


#57
2,6-Dichlorophenol
Concen: 6.30 ug/ml
RT: 6.819 min Scan# 1034
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:162 Resp: 128297

Ion	Ratio	Lower	Upper
162	100		
164	67.4	51.1	76.7
63	91.6	60.8	91.2#

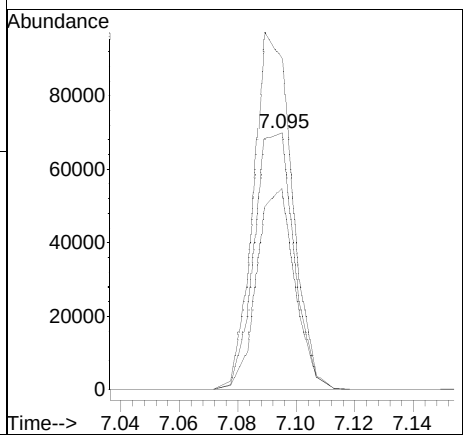


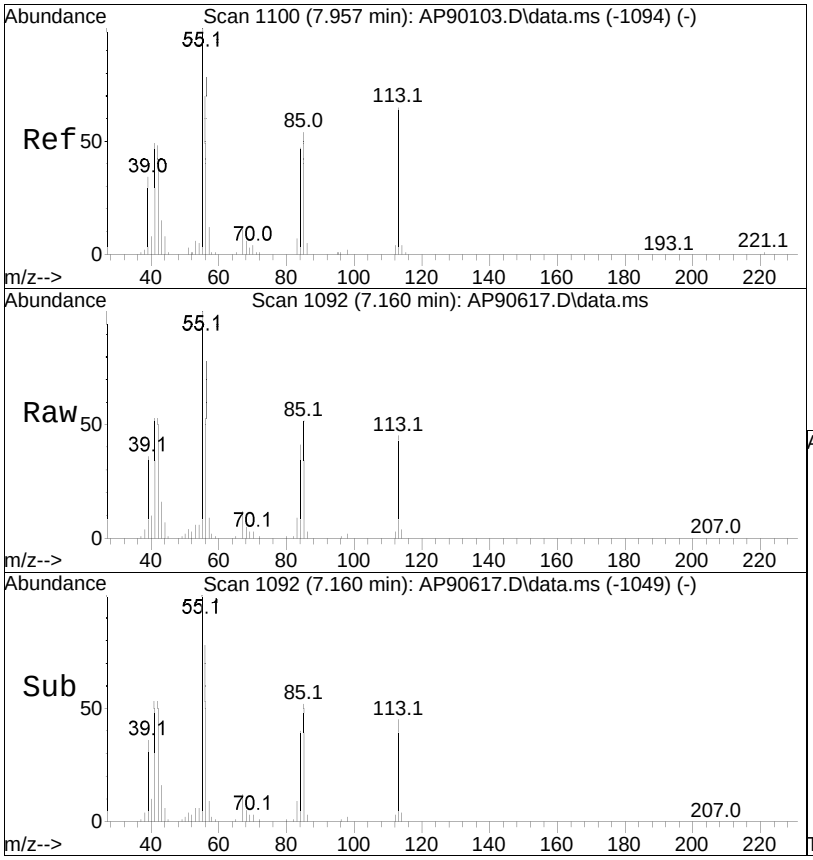


#58
1-chloro-2-nitrobenzene
Concen: 5.63 ug/ml
RT: 7.095 min Scan# 1081
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:111 Resp: 65662

Ion	Ratio	Lower	Upper
111	100		
157	75.1	0.0	0.0#
75	135.1	28.2	42.2#

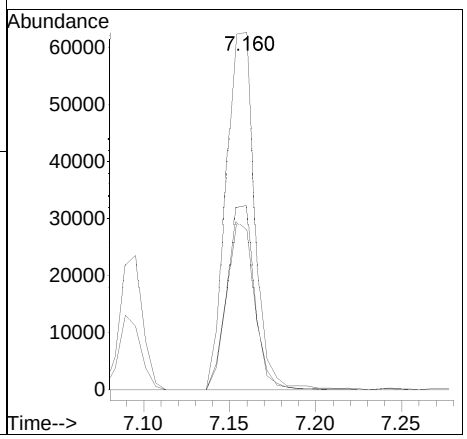


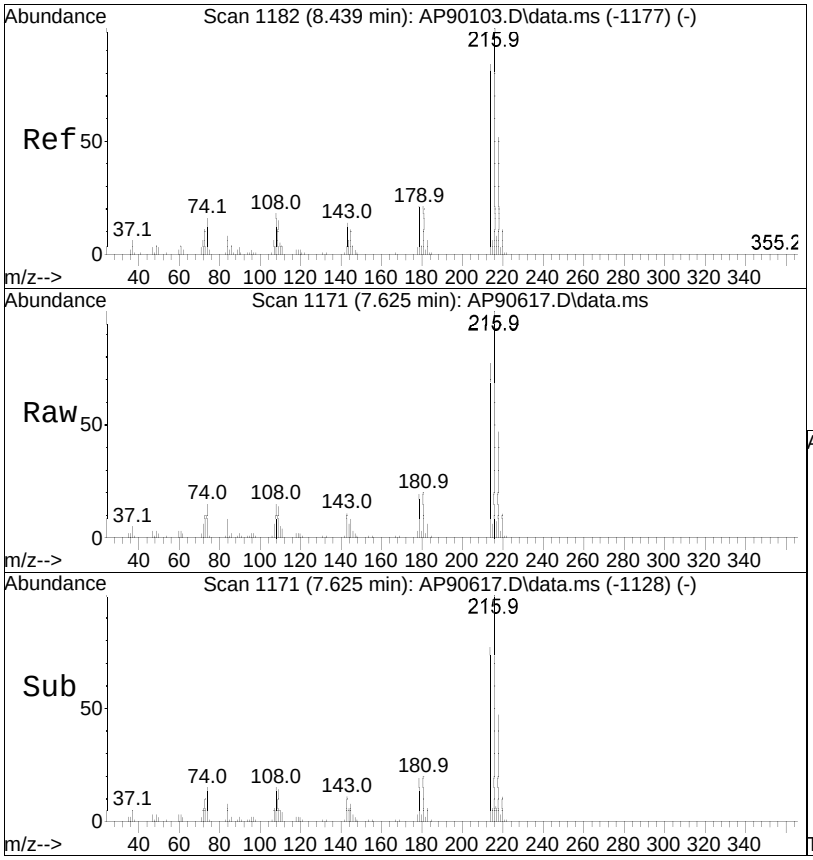


#59
Caprolactam
Concen: 6.07 ug/ml
RT: 7.160 min Scan# 1092
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion: 55 Resp: 72593

Ion	Ratio	Lower	Upper
55	100		
85	50.3	19.8	29.6#
113	46.3	29.6	44.4#

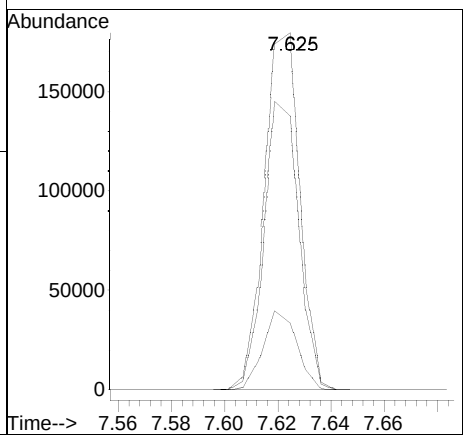


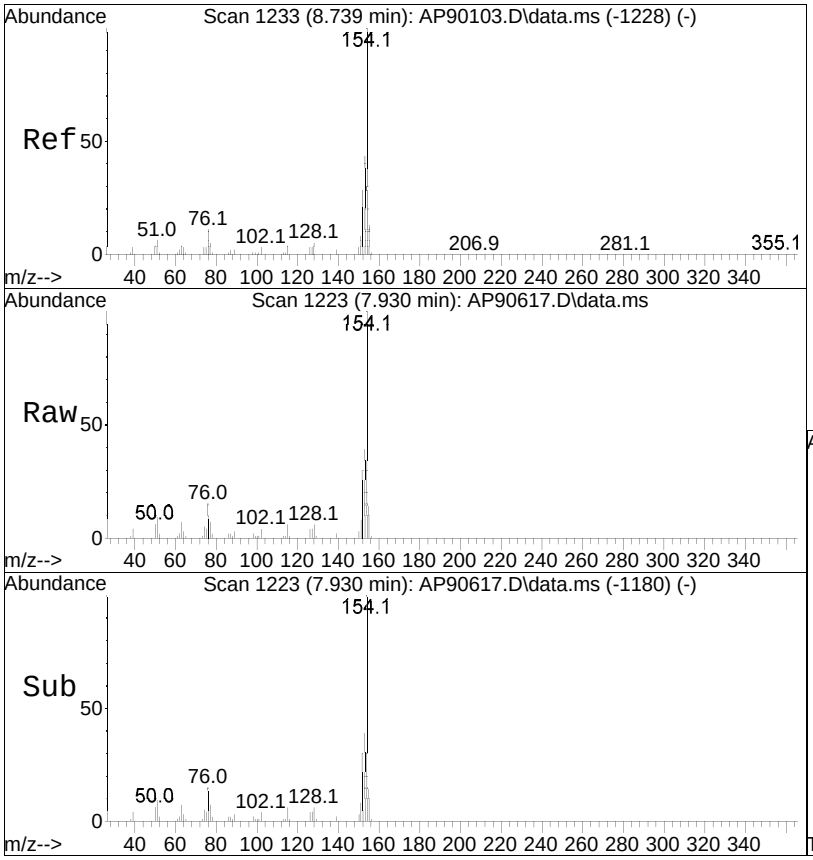


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.35 ug/ml
RT: 7.625 min Scan# 1171
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:216 Resp: 167162

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.7	95.5
179	21.1	19.0	28.6

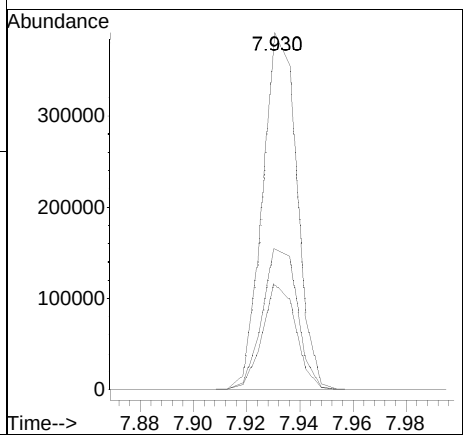


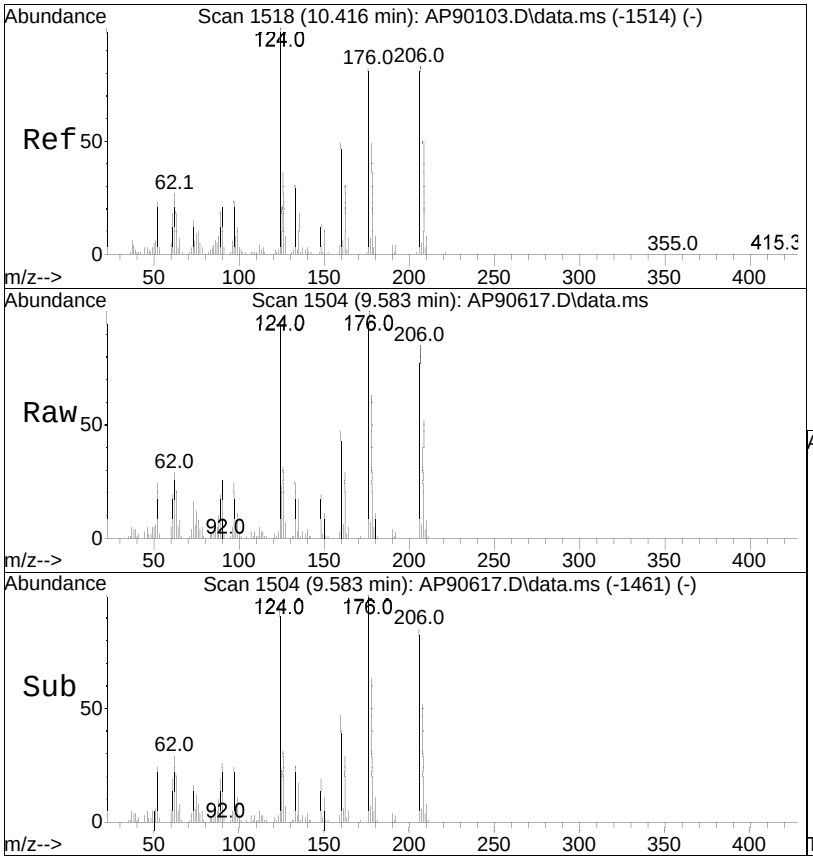


#61
Biphenyl
Concen: 5.70 ug/ml
RT: 7.930 min Scan# 1223
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:154 Resp: 348489

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.1	22.5	33.7

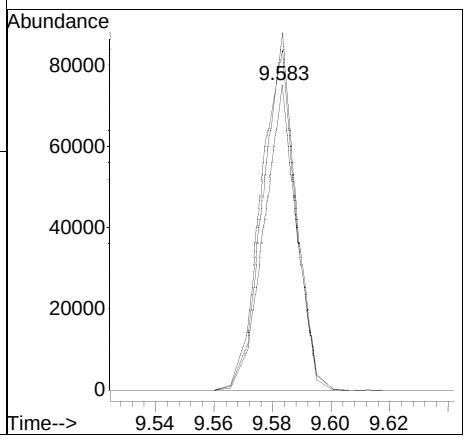


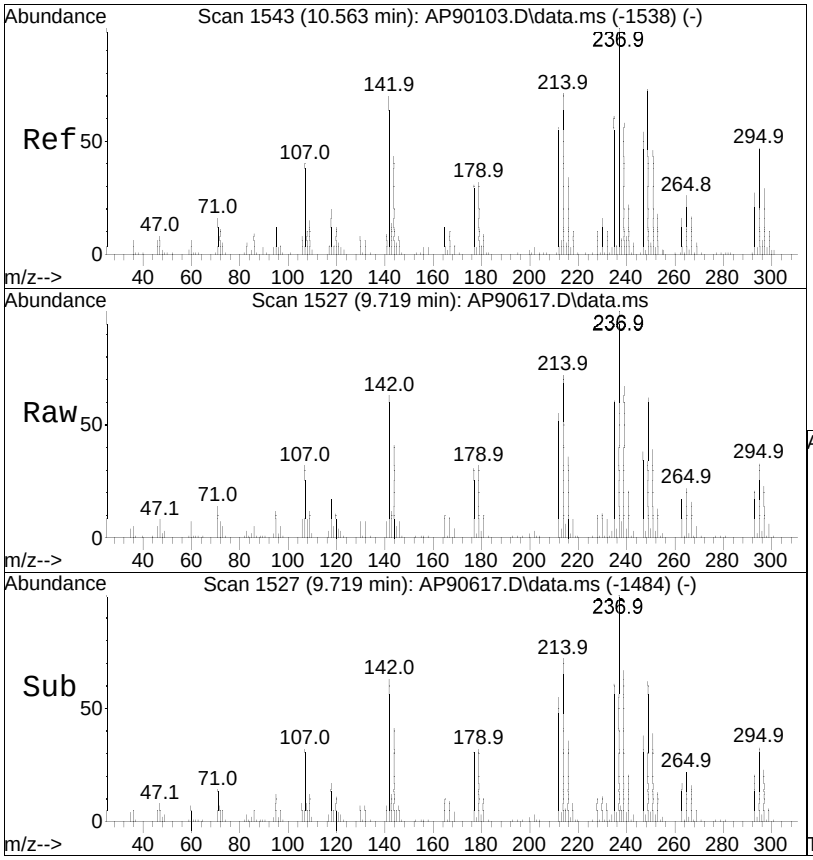


#83
Dichloran
Concen: 6.88 ug/ml
RT: 9.583 min Scan# 1504
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:206 Resp: 57838

Ion	Ratio	Lower	Upper
206	100		
176	117.1	104.6	157.0
124	118.5	130.5	195.7#

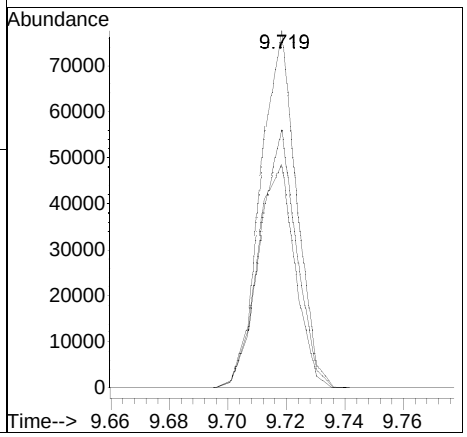


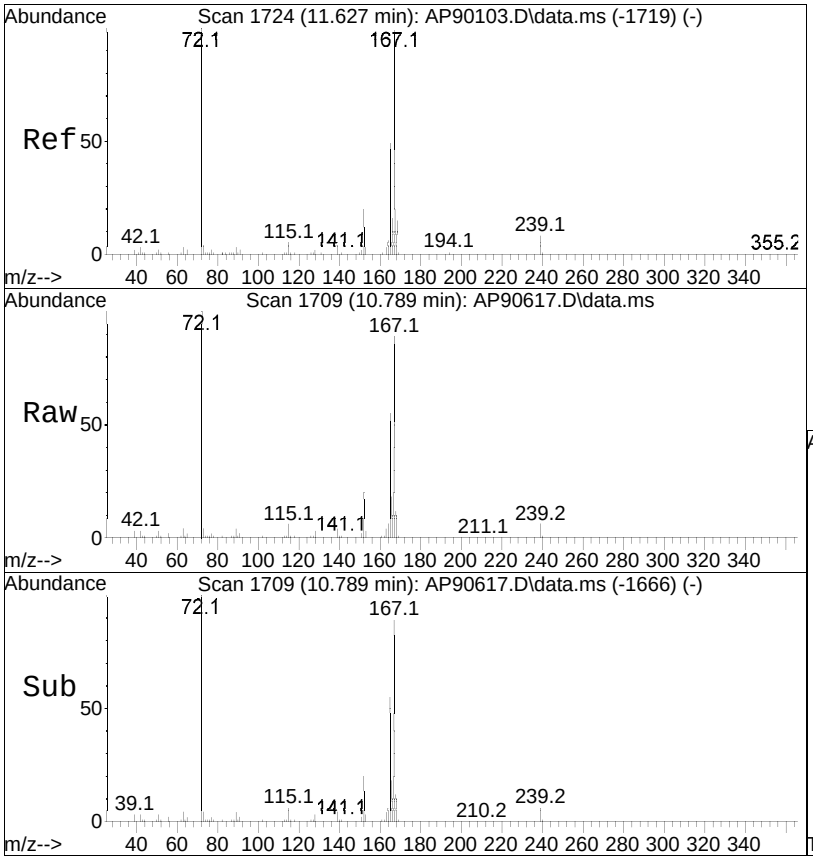


#84
Pentachloronitrobenzene
Concen: 6.50 ug/ml
RT: 9.719 min Scan# 1527
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:237 Resp: 66265

Ion	Ratio	Lower	Upper
237	100		
142	66.1	77.0	115.4#
214	72.9	58.2	87.4

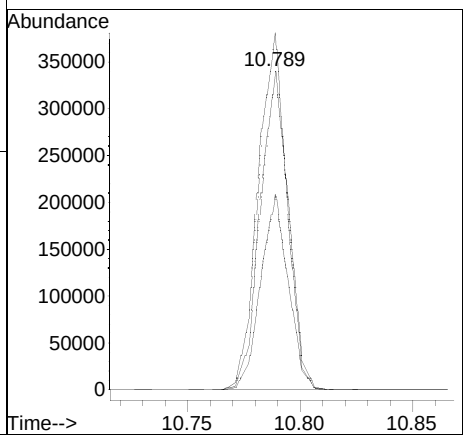




#98
Diphenamid
Concen: 6.56 ug/ml
RT: 10.789 min Scan# 1709
Delta R.T. 0.000 min
Lab File: AP90617.D
Acq: 17 Jun 2024 9:33 am

Tgt Ion:167 Resp: 296751

Ion	Ratio	Lower	Upper
167	100		
72	112.4	109.7	164.5
165	60.0	41.8	62.6



Manual Integration Report

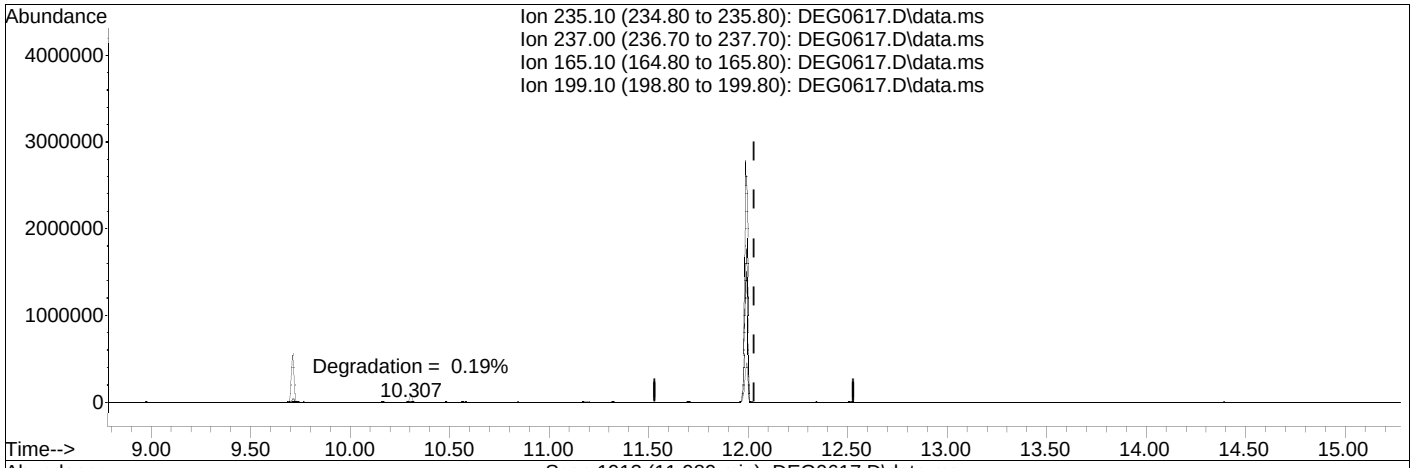
Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: AP90617.D	Operator	: SV106:sz
Date Inj'd	: 6/17/2024 9:33 am	Instrument	: SV 106
Sample	: wg1935225-4,32,,AP9 10770	Quant Date	: 6/17/2024 12:25 pm

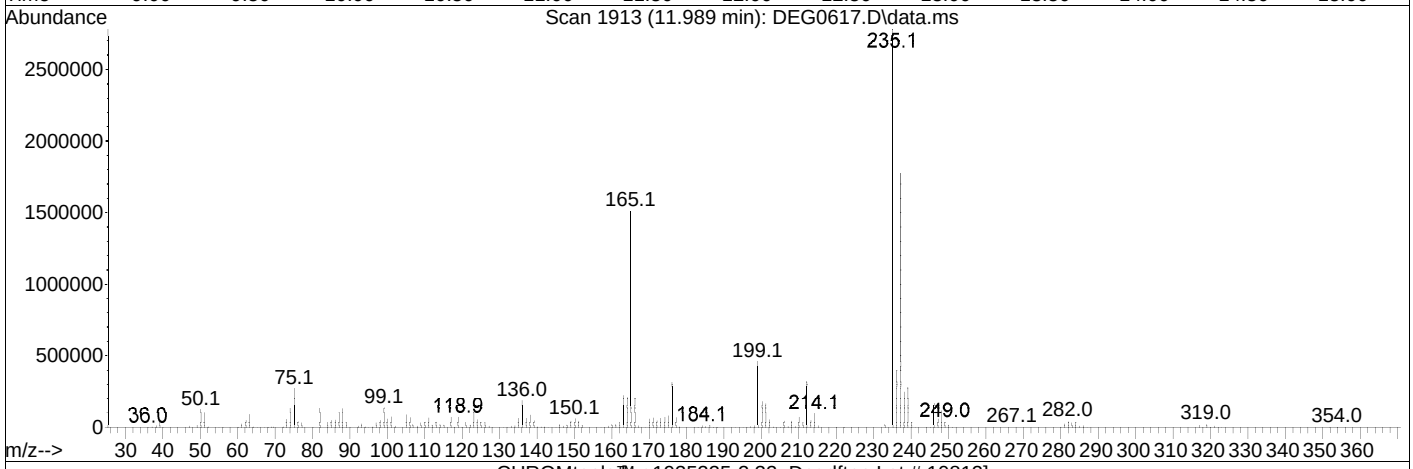
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240617RVT\
Data File : DEG0617.D
Acq On : 17 Jun 2024 8:22 am
Operator : SV106:sz
Sample : wg1935225-2,32,,Degdftpp Lot # 10812
Misc : wg1935225,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 17 08:44:43 2024
Quant Method : I:\8270\SV106\240617RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools [wg1935225-2,32,,Degdftpp Lot # 10812]

(6) DDT (T)

11.989min (-0.041) 455.86

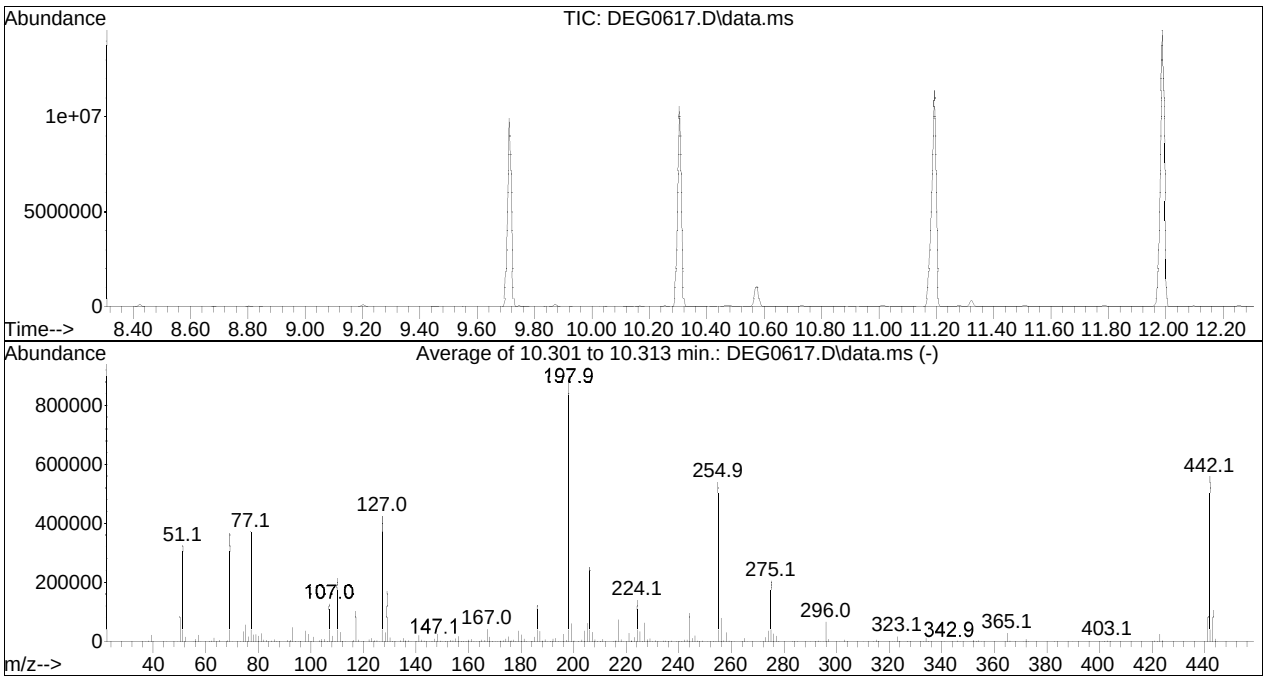
response 2778776

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.69
165.10	44.50	53.59
199.10	14.80	16.58

Data Path : I:\8270\SV106\240617RVT\
Data File : DEG0617.D
Acq On : 17 Jun 2024 8:22 am
Operator : SV106:HNY
Sample : WG1935225-1,32,,Degdftpp Lot # 10812
Misc : WG1935225,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 17 09:11:28 2024



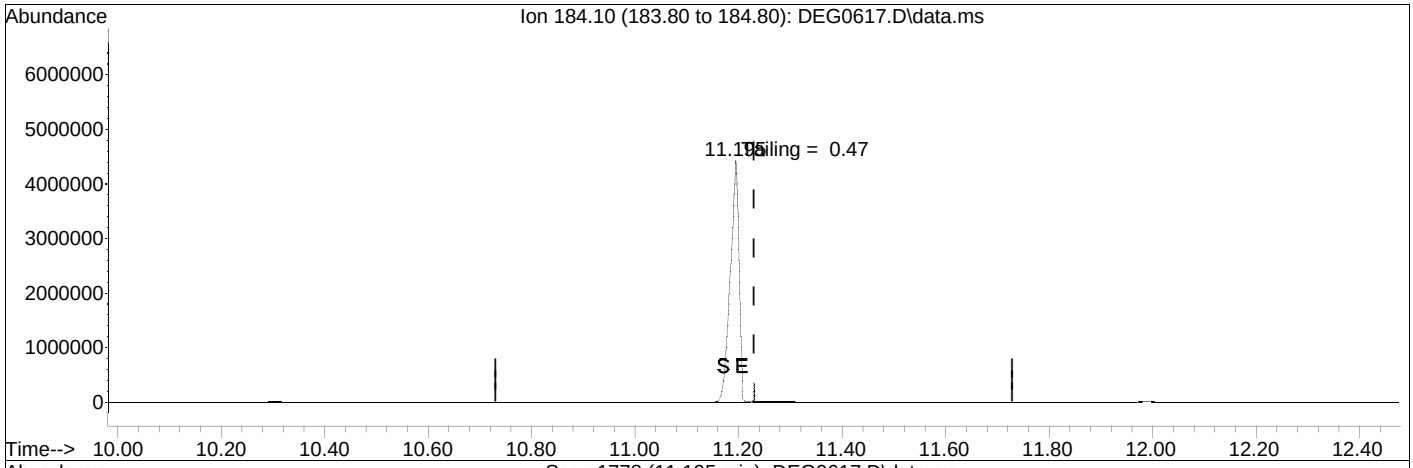
Spectrum Information: Average of 10.301 to 10.313 min.

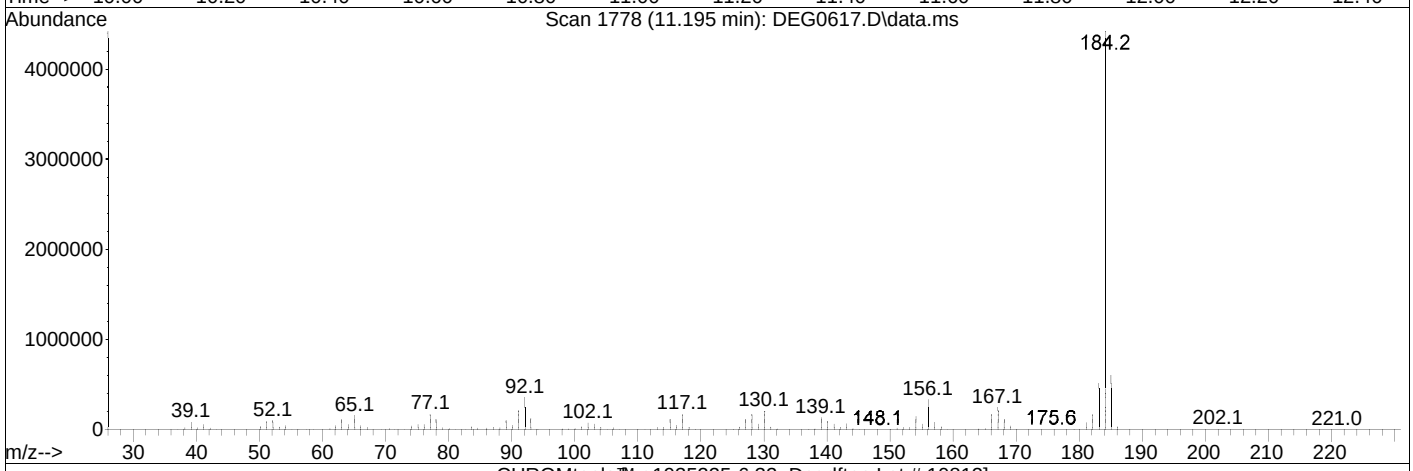
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.2	323456	PASS
68	69	0.00	2	1.5	5427	PASS
69	69	100	100	100.0	366735	PASS
70	69	0.00	2	0.5	1936	PASS
127	198	10	80	47.5	424359	PASS
197	198	0.00	2	0.7	6382	PASS
198	198	100	100	100.0	894115	PASS
199	198	5	9	6.7	59883	PASS
275	198	10	60	23.0	205938	PASS
365	198	1	100	3.3	29269	PASS
441	442	0.01	24	15.7	87288	PASS
442	198	50	100	62.4	557483	PASS
443	442	15	24	19.2	106768	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240617RVT\
Data File : DEG0617.D
Acq On : 17 Jun 2024 8:22 am
Operator : SV106:sz
Sample : wg1935225-6,32,,Degdftpp Lot # 10812
Misc : wg1935225,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 17 08:44:43 2024
Quant Method : I:\8270\SV106\240617RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools™ [wg1935225-6,32,,Degdftpp Lot # 10812]

(3) Benzidine (T)

11.195min (-0.035) 484.99

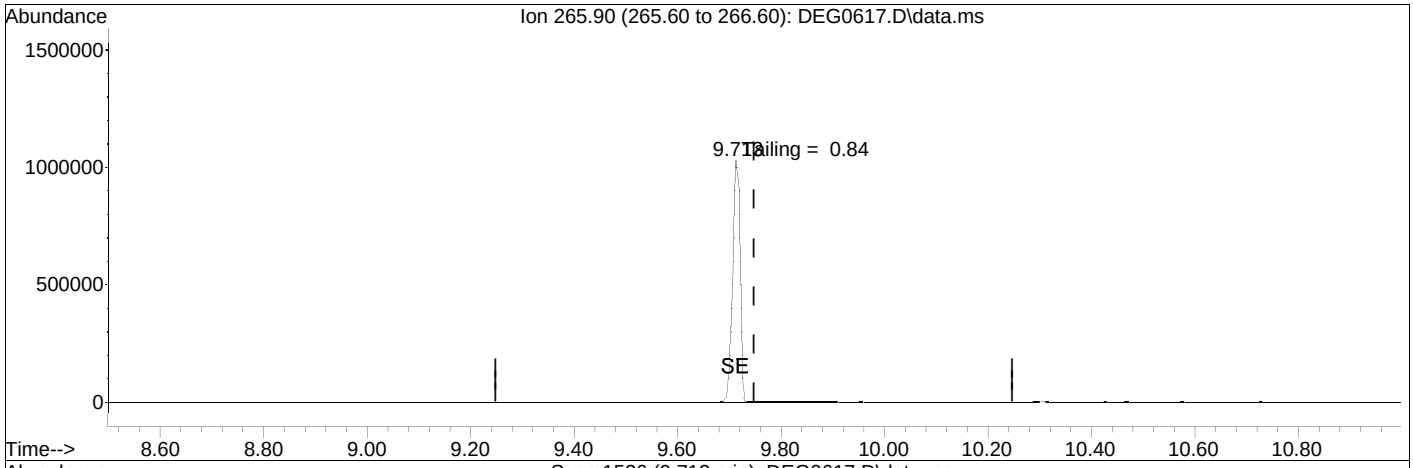
response 4937239

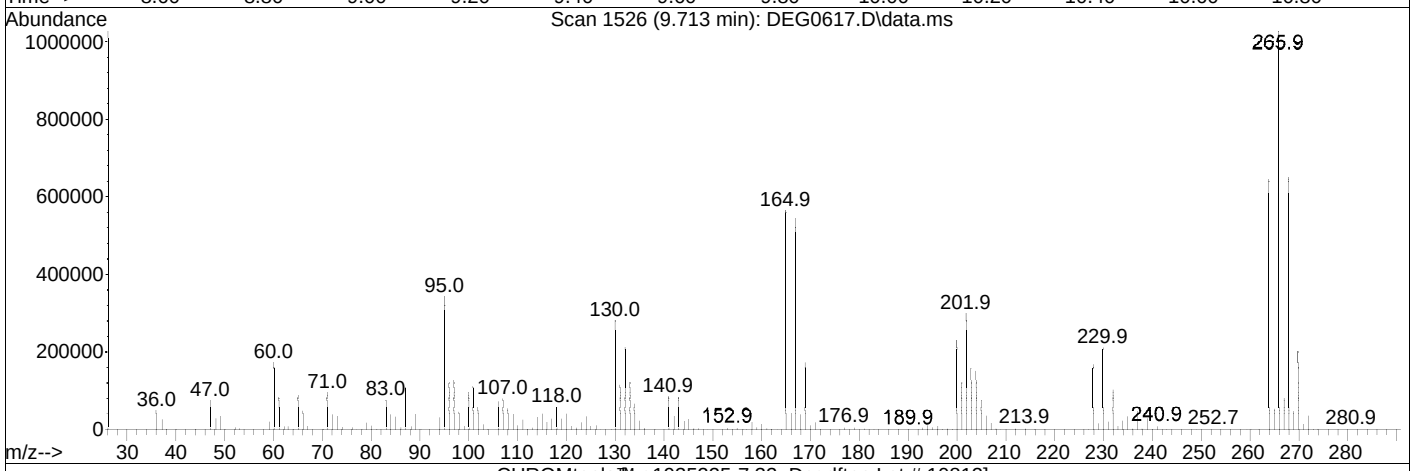
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240617RVT\
Data File : DEG0617.D
Acq On : 17 Jun 2024 8:22 am
Operator : SV106:sz
Sample : wg1935225-7,32,,Degdftpp Lot # 10812
Misc : wg1935225,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 17 08:44:43 2024
Quant Method : I:\8270\SV106\240617RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools™ [wg1935225-7,32,,Degdftpp Lot # 10812]

(1) Pentachlorophenol (T)

9.713min (-0.035) 471.81

response 990970

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 12:32:21 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 10:16:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.937	152	76643	4.000	ug/ml		0.00
Standard Area 1 = 84755			Recovery = 90.43%				
27) IS2_1,4-Dichlorobenzen...	4.937	152	76643	4.000	ug/ml		0.00
Standard Area 3 = 73522			Recovery = 104.24%				
32) IS3_1,4-Dichlorobenzen...	4.937	152	76643	4.000	ug/ml		0.00
Standard Area 2 = 71151			Recovery = 107.72%				
34) IS1_Naphthalene-d8	6.666	136	279395	4.000	ug/ml	#	0.00
Standard Area 1 = 322983			Recovery = 86.50%				
54) IS2_Naphthalene-d8	6.666	136	279395	4.000	ug/ml	#	0.00
Standard Area 3 = 271609			Recovery = 102.87%				
62) IS1_Acenaphthene-d10	8.454	164	174818	4.000	ug/ml		0.00
Standard Area 1 = 215292			Recovery = 81.20%				
82) IS2_Acenaphthene-d10	8.454	164	174818	4.000	ug/ml		0.00
Standard Area 3 = 175707			Recovery = 99.49%				
85) IS3_Acenaphthene-d10	8.454	164	174818	4.000	ug/ml		0.00
Standard Area 2 = 161219			Recovery = 108.44%				
87) IS1_Phenanthrene-d10	9.848	188	369217	4.000	ug/ml		0.00
Standard Area 1 = 459399			Recovery = 80.37%				
99) IS3_Phenanthrene-d10	9.848	188	369217	4.000	ug/ml		0.00
Standard Area 2 = 350424			Recovery = 105.36%				
103) IS1_Chrysene-d12	12.342	240	331989	4.000	ug/ml		0.00
Standard Area 1 = 399251			Recovery = 83.15%				
112) IS1_Perylene-d12	13.677	264	383182	4.000	ug/ml		0.00
Standard Area 1 = 419339			Recovery = 91.38%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.066	112	23696	1.094	ug/ml		0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 54.70%				
7) Phenol-d6	4.501	99	23528	0.841	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.05%				
19) Nitrobenzene-d5	5.831	82	19685	0.657	ug/ml		0.01
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.70%				
45) 2-Fluorobiphenyl	7.854	172	40113	0.619	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.90%				
78) 2,4,6-Tribromophenol	9.213	330	13933	1.498	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 74.90%				

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 12:32:21 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 10:16:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.419	244	60973	0.767	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 76.70%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	d
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
37) 4-Chloroaniline	0.000	0	N.D.	d
39) p-Chloro-m-cresol	0.000	0	N.D.	
42) Hexachlorocyclopentadiene	0.000	0	N.D.	
43) 2,4,6-Trichlorophenol	0.000	0	N.D.	
44) 2,4,5-Trichlorophenol	0.000	0	N.D.	
47) 2-Nitroaniline	0.000	0	N.D.	
50) Dimethyl phthalate	0.000	0	N.D.	d
52) 2,6-Dinitrotoluene	0.000	0	N.D.	d
59) Caprolactam	0.000	0	N.D.	d
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
61) Biphenyl	0.000	0	N.D.	
63) 3-Nitroaniline	0.000	0	N.D.	
65) 2,4-Dinitrophenol	0.000	0	N.D.	
66) Dibenzofuran	0.000	0	N.D.	
67) 2,4-Dinitrotoluene	0.000	0	N.D.	
68) 4-Nitrophenol	0.000	0	N.D.	
71) Diethyl phthalate	0.000	0	N.D.	d
73) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
74) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 12:32:21 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 10:16:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

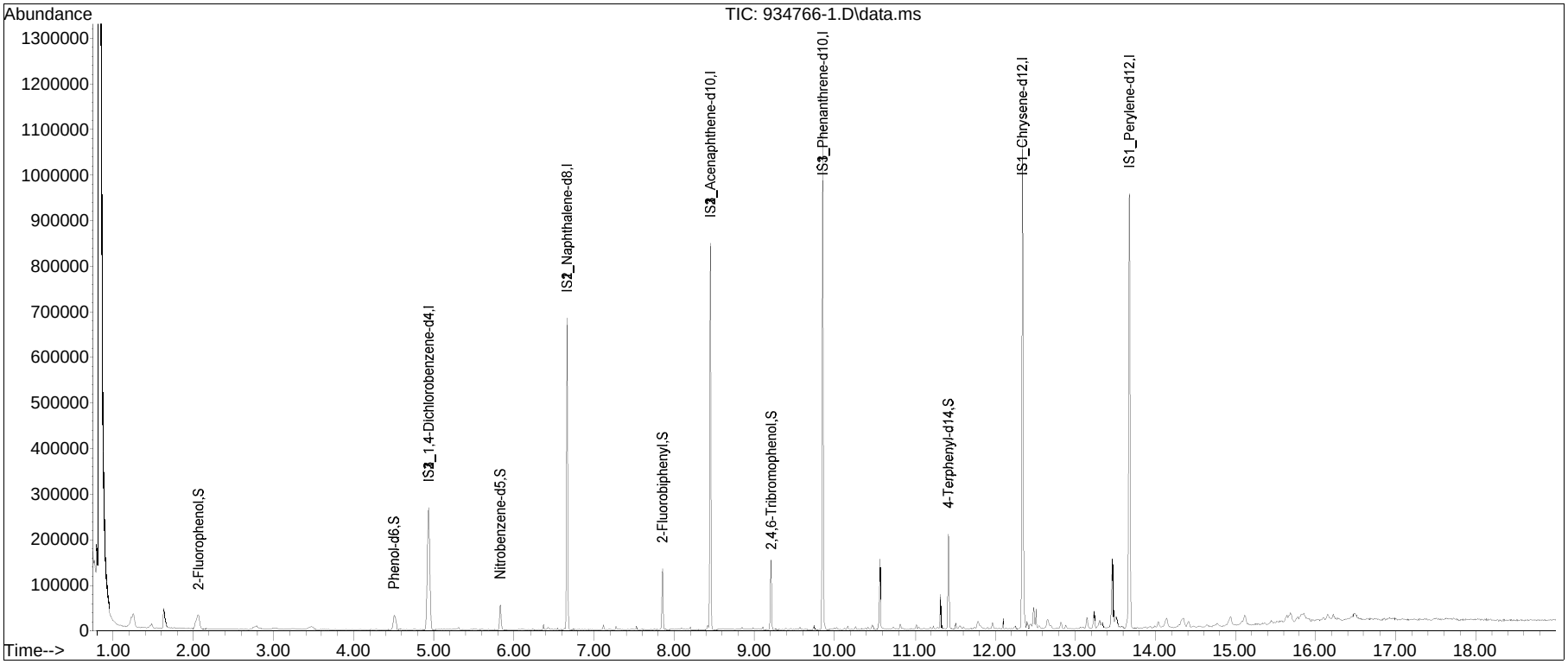
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 12:32:21 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 10:16:53 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90617.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: 934766-1.D	Operator	: SV106:sz
Date Inj'd	: 6/17/2024 9:57 am	Instrument	: SV 106
Sample	: WG1934773-1,32,,HNY	Quant Date	: 6/17/2024 10:16 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 934766-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.225	75	83	85	rBV5	20316	35510	3.12%	0.495%
2	1.255	85	88	96	rVB4	28980	51800	4.56%	0.723%
3	1.484	124	127	134	rVB2	9801	16266	1.43%	0.227%
4	1.631	148	152	165	rBV	43451	81681	7.18%	1.139%
5	2.060	214	225	232	rBV2	31764	91003	8.00%	1.269%
6	3.466	451	464	466	rBV10	6049	17928	1.58%	0.250%
7	4.501	632	640	648	rBV3	32293	69248	6.09%	0.966%
8	4.937	705	714	722	rBV	268843	493368	43.40%	6.882%
9	5.831	861	866	872	rVB	54449	64565	5.68%	0.901%
10	6.666	1004	1008	1012	rVB	682799	610989	53.74%	8.523%
11	7.854	1201	1210	1213	rBV	134204	125365	11.03%	1.749%
12	8.454	1308	1312	1315	rVB	847188	761046	66.94%	10.616%
13	9.207	1435	1440	1444	rBV2	153111	141480	12.44%	1.974%
14	9.848	1545	1549	1553	rBV	1107099	924777	81.34%	12.901%
15	10.466	1650	1654	1660	rBV2	9467	14899	1.31%	0.208%
16	10.566	1664	1671	1680	rBV2	152567	146539	12.89%	2.044%
17	10.813	1710	1713	1716	rBV3	11136	12120	1.07%	0.169%
18	11.007	1742	1746	1751	rBV2	9677	12691	1.12%	0.177%
19	11.319	1795	1799	1804	rBV2	73553	66370	5.84%	0.926%
20	11.419	1812	1816	1820	rBV	207720	191167	16.81%	2.667%
21	11.507	1827	1831	1835	rVB3	12797	15570	1.37%	0.217%
22	11.560	1835	1840	1845	rVB6	6912	11620	1.02%	0.162%
23	11.789	1874	1879	1882	rBV4	14673	23980	2.11%	0.335%
24	11.966	1906	1909	1914	rVB3	12878	13628	1.20%	0.190%
25	12.101	1928	1932	1936	rBV2	21815	23156	2.04%	0.323%
26	12.342	1969	1973	1977	rBV	1071367	1031812	90.75%	14.394%
27	12.401	1980	1983	1987	rVB2	14420	17102	1.50%	0.239%
28	12.454	1987	1992	1994	rBV4	9782	16049	1.41%	0.224%

LSC Area Percent Report

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270

29	12.483	1994	1997	2000	rVV2	43039	48270	4.25%	0.673%
30	12.518	2000	2003	2007	rVB	40574	42080	3.70%	0.587%
31	12.666	2019	2028	2033	rBV3	20527	47195	4.15%	0.658%
32	12.824	2051	2055	2061	rVB3	14304	18976	1.67%	0.265%
33	13.148	2106	2110	2115	rBV5	23931	29280	2.58%	0.408%
34	13.236	2118	2125	2129	rBV3	37961	55712	4.90%	0.777%
35	13.307	2130	2137	2140	rVV3	15748	30809	2.71%	0.430%
36	13.460	2152	2163	2168	rBV	152449	211579	18.61%	2.951%
37	13.507	2168	2171	2178	rVB5	21606	47225	4.15%	0.659%
38	13.677	2191	2200	2207	rVB	953527	1136921	100.00%	15.860%
39	14.036	2257	2261	2267	rVB4	12011	18548	1.63%	0.259%
40	14.136	2272	2278	2284	rVB3	19021	41447	3.65%	0.578%
41	14.295	2293	2305	2306	rBV10	7430	16335	1.44%	0.228%
42	14.342	2306	2313	2319	rVV6	19893	56763	4.99%	0.792%
43	14.407	2319	2324	2331	rVB8	12733	25085	2.21%	0.350%
44	14.936	2401	2414	2423	rBV6	20260	62403	5.49%	0.871%
45	15.077	2431	2438	2439	rBV7	8065	13620	1.20%	0.190%
46	15.118	2439	2445	2451	rVB7	19472	51475	4.53%	0.718%
47	15.642	2528	2534	2536	rBV6	14001	24250	2.13%	0.338%
48	15.683	2536	2541	2549	rVB6	19927	46748	4.11%	0.652%
49	15.771	2551	2556	2559	rBV7	9020	16740	1.47%	0.234%
50	16.154	2617	2621	2628	rBV9	10983	19537	1.72%	0.273%
51	16.224	2630	2633	2637	rVB6	10468	13282	1.17%	0.185%
52	16.483	2675	2677	2681	rBV5	7713	12521	1.10%	0.175%

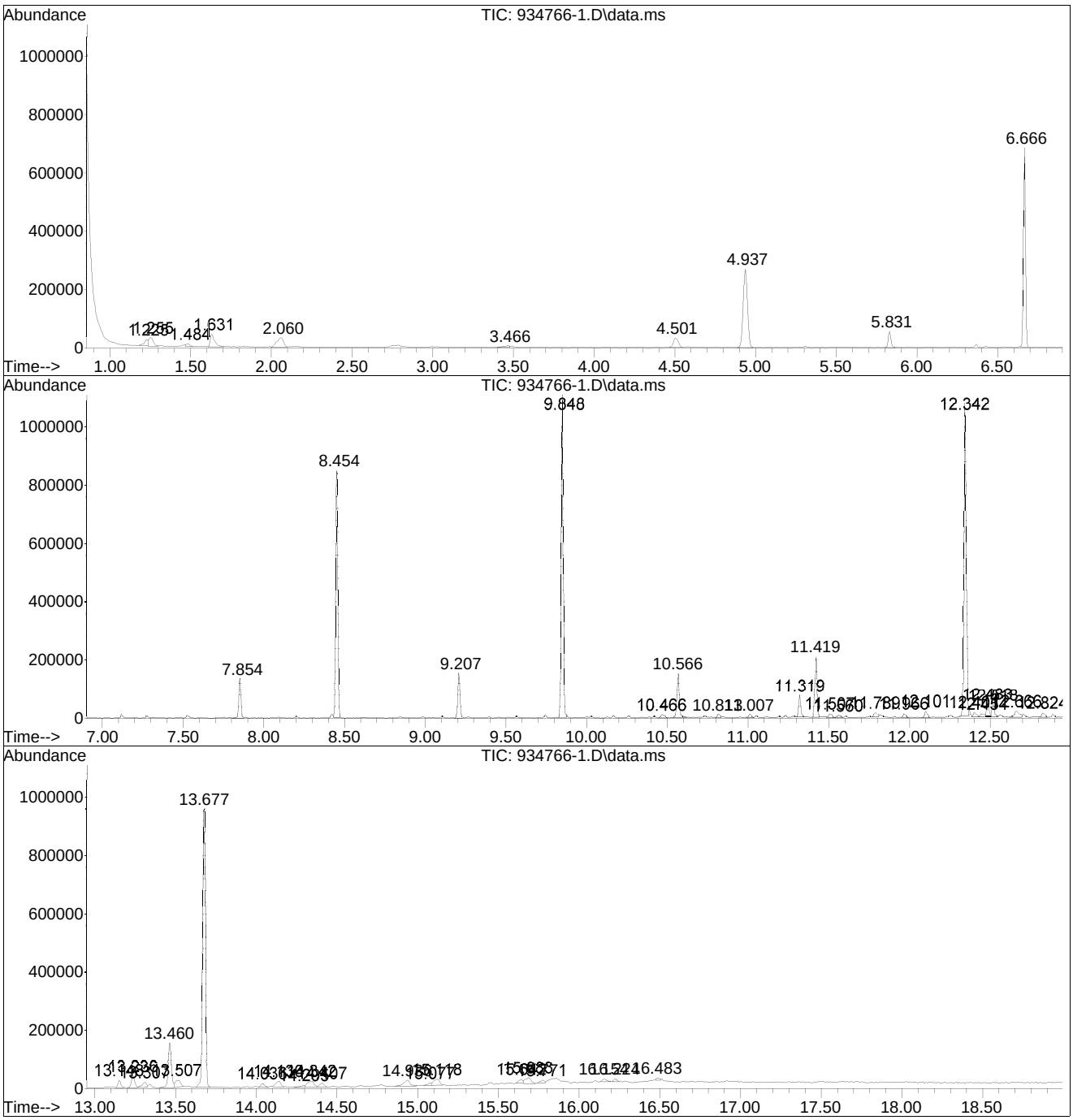
Sum of corrected areas: 7168530

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

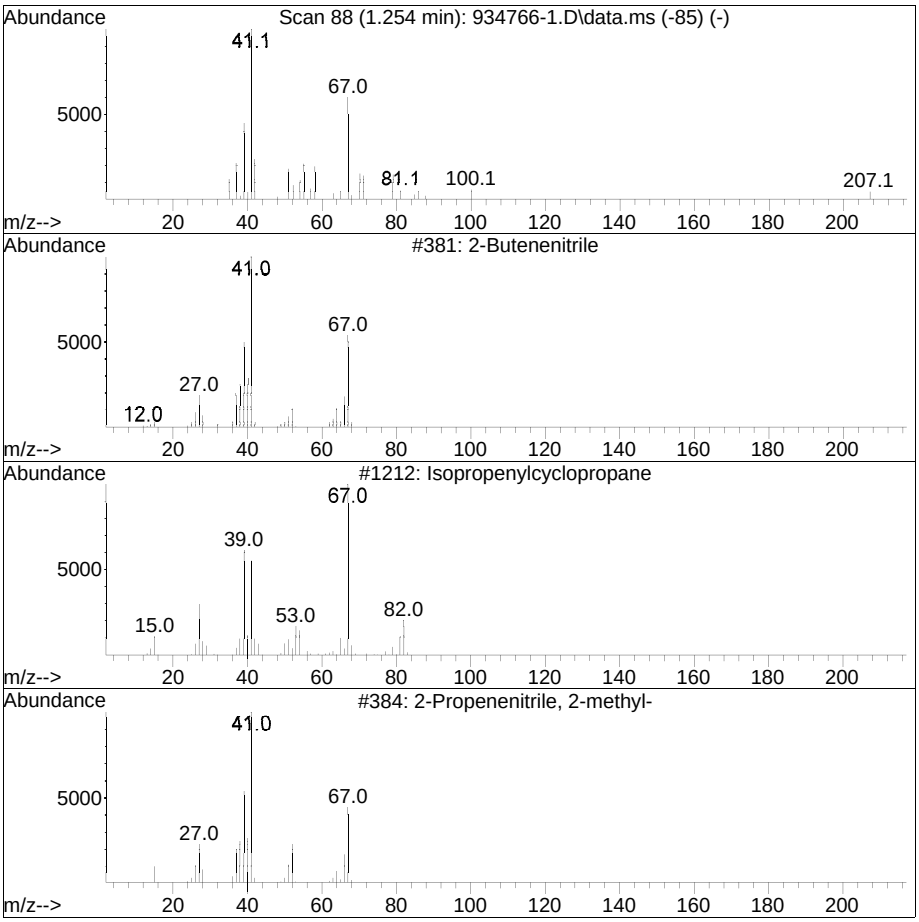
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

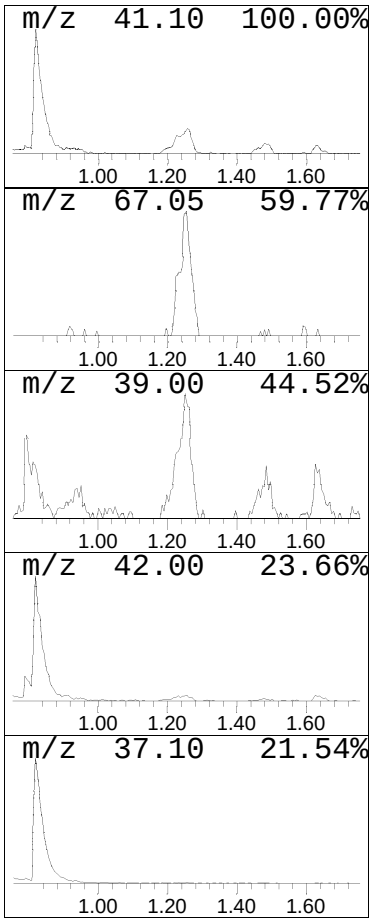
****

Peak Number 1 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.254	0.42 ug/ml	51800	IS2_1,4-Dichlorobenzene-d4	4.937

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butenenitrile	67	C4H5N	004786-20-3	53
2	Isopropenylcyclopropane	82	C6H10	004663-22-3	10
3	2-Propenenitrile, 2-methyl-	67	C4H5N	000126-98-7	9
4	3-Butenenitrile	67	C4H5N	000109-75-1	9
5	9-Oxabicyclo[6.1.0]nonan-4-one	140	C8H12O2	028399-88-4	9





Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

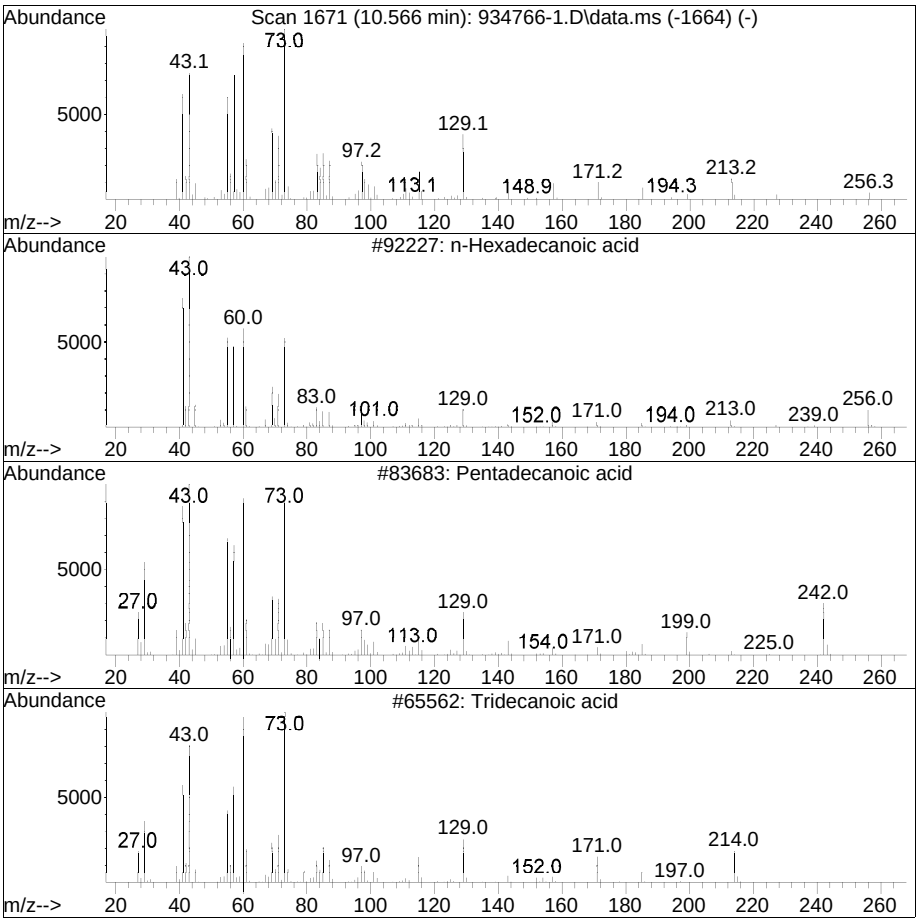
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

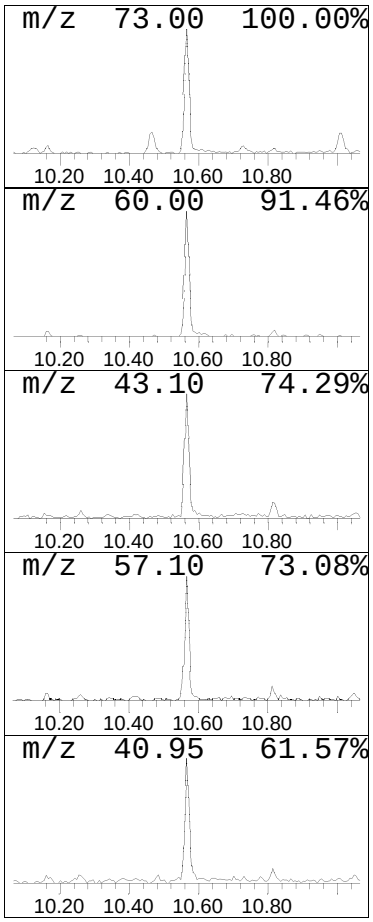
****

Peak Number 3 Unknown Organic Acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.566	0.63 ug/ml	146539	IS3_Phenanthrene-d10	9.848

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	83
3	Tridecanoic acid	214	C13H26O2	000638-53-9	68
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	56
5	Undecanoic acid	186	C11H22O2	000112-37-8	53





Library Search Compound Report

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

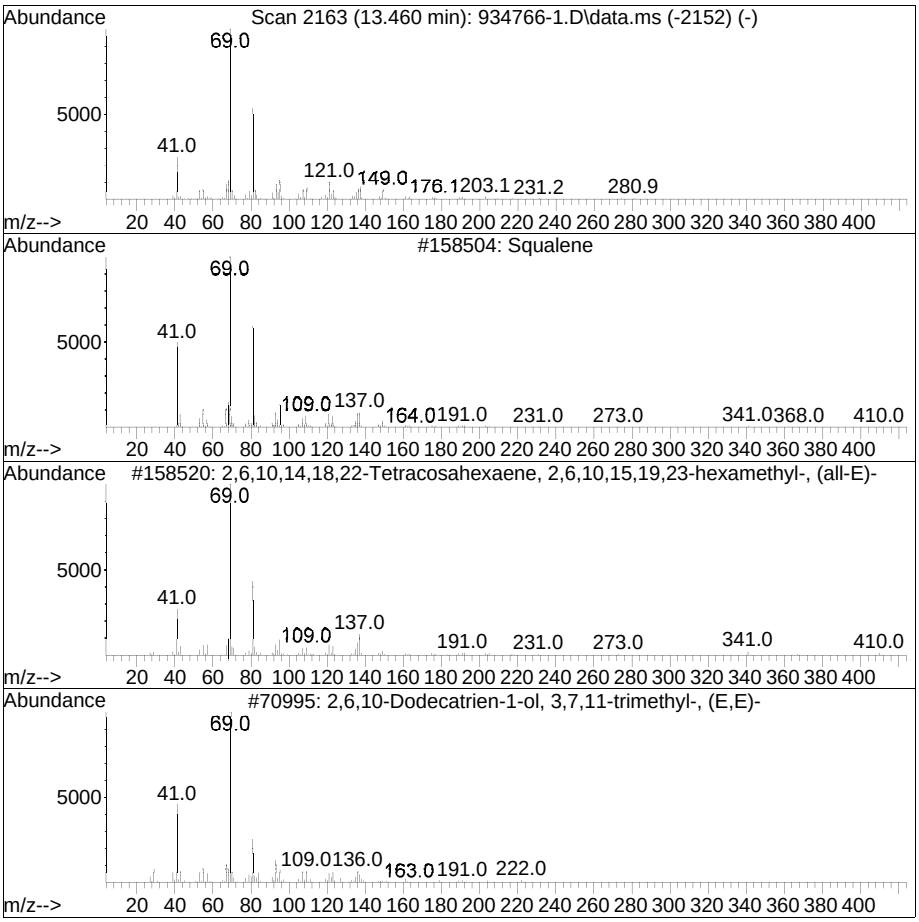
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

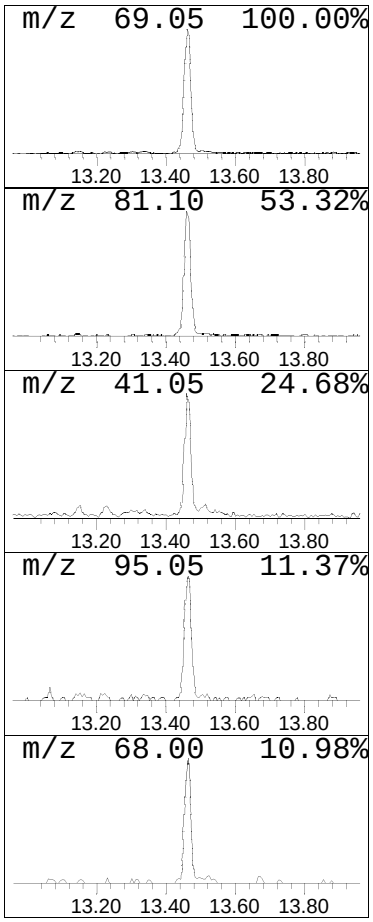
****

Peak Number 4 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.460	0.74 ug/ml	211579	IS1_Perylene-d12	13.677

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	91
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	78
3	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	72
4	5,9,13-Pentadecatrien-2-one, 6,1...	262	C18H30O	001117-52-8	64
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-1.D
Acq On : 17 Jun 2024 9:57 am
Operator : SV106:sz
Sample : WG1934773-1,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	1.254	0.4	ug/ml	51800	1	4.937	493368	4.0
Unknown Organic...	10.566	0.6	ug/ml	146539	11	9.848	924777	4.0
Unknown	13.460	0.7	ug/ml	211579	13	13.677	1136920	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-2.D
Acq On : 17 Jun 2024 10:20 am
Operator : SV106:sz
Sample : WG1934773-2,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 12:33:34 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.937	152	76794	4.000	ug/ml		0.00
Standard Area 1 = 84755			Recovery = 90.61%				
27) IS2_1,4-Dichlorobenzen...	4.937	152	76794	4.000	ug/ml		0.00
Standard Area 3 = 73522			Recovery = 104.45%				
32) IS3_1,4-Dichlorobenzen...	4.937	152	76794	4.000	ug/ml		0.00
Standard Area 2 = 71151			Recovery = 107.93%				
34) IS1_Naphthalene-d8	6.666	136	285116	4.000	ug/ml	#	0.00
Standard Area 1 = 322983			Recovery = 88.28%				
54) IS2_Naphthalene-d8	6.666	136	285116	4.000	ug/ml	#	0.00
Standard Area 3 = 271609			Recovery = 104.97%				
62) IS1_Acenaphthene-d10	8.454	164	182589	4.000	ug/ml		0.00
Standard Area 1 = 215292			Recovery = 84.81%				
82) IS2_Acenaphthene-d10	8.454	164	182589	4.000	ug/ml		0.00
Standard Area 3 = 175707			Recovery = 103.92%				
85) IS3_Acenaphthene-d10	8.454	164	182589	4.000	ug/ml		0.00
Standard Area 2 = 161219			Recovery = 113.26%				
87) IS1_Phenanthrene-d10	9.848	188	401101	4.000	ug/ml		0.00
Standard Area 1 = 459399			Recovery = 87.31%				
99) IS3_Phenanthrene-d10	9.848	188	401101	4.000	ug/ml		0.00
Standard Area 2 = 350424			Recovery = 114.46%				
103) IS1_Chrysene-d12	12.342	240	351772	4.000	ug/ml		0.00
Standard Area 1 = 399251			Recovery = 88.11%				
112) IS1_Perylene-d12	13.677	264	378332	4.000	ug/ml		0.00
Standard Area 1 = 419339			Recovery = 90.22%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.054	112	14855	0.684	ug/ml		0.03
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.20%				
7) Phenol-d6	4.507	99	24012	0.856	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.80%				
19) Nitrobenzene-d5	5.825	82	22096	0.736	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.60%				
45) 2-Fluorobiphenyl	7.848	172	43501	0.658	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.80%				
78) 2,4,6-Tribromophenol	9.213	330	9057	0.932	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.60%				

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-2.D
Acq On : 17 Jun 2024 10:20 am
Operator : SV106:sz
Sample : WG1934773-2,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 12:33:34 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.419	244	65274	0.756	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 75.60%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.525	128	27263	1.155	ug/ml	97
8) Phenol	4.531	94	26378	0.883	ug/ml#	81
14) Bis(2-chloroisopropyl)...	5.548	45	47707	1.368	ug/ml#	77
15) 2-Methylphenol	5.584	108	31228	1.469	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.731	70	30255	1.523	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.819	108	31651	1.369	ug/ml	96
20) Nitrobenzene	5.848	77	41832	1.448	ug/ml#	96
21) Isophorone	6.195	82	77861	1.519	ug/ml#	93
22) 2-Nitrophenol	6.266	139	13199	1.105	ug/ml#	94
23) 2,4-Dimethylphenol	6.448	107	22110	0.913	ug/ml	97
24) Bis(2-chloroethoxy)met...	6.537	93	51430	1.599	ug/ml#	95
25) 2,4-Dichlorophenol	6.572	162	23775	1.078	ug/ml	97
28) Benzaldehyde	3.825	105	31075	1.478	ug/ml	97
29) Acetophenone	5.648	105	58989	1.551	ug/ml#	85
37) 4-Chloroaniline	6.819	65	14915M3	1.309	ug/ml	
39) p-Chloro-m-cresol	7.413	107	36306	1.558	ug/ml	97
42) Hexachlorocyclopentadiene	7.631	237	16751	0.861	ug/ml	98
43) 2,4,6-Trichlorophenol	7.766	196	16497	0.871	ug/ml	96
44) 2,4,5-Trichlorophenol	7.795	196	18191	0.882	ug/ml	97
47) 2-Nitroaniline	8.054	138	26860	1.752	ug/ml	97
50) Dimethyl phthalate	8.289	163	112933	1.614	ug/ml#	98
52) 2,6-Dinitrotoluene	8.319	165	24440	1.739	ug/ml#	88
59) Caprolactam	7.154	55	8917	0.711	ug/ml#	64
60) 1,2,4,5-Tetrachloroben...	7.619	216	34456	1.050	ug/ml	98
61) Biphenyl	7.931	154	83585	1.301	ug/ml	99
63) 3-Nitroaniline	8.460	138	24506	1.833	ug/ml#	88
65) 2,4-Dinitrophenol	8.560	184	5951	0.996	ug/ml	88
66) Dibenzofuran	8.654	168	113004	1.427	ug/ml	97
67) 2,4-Dinitrotoluene	8.695	165	31721	1.744	ug/ml	93
68) 4-Nitrophenol	8.695	65	10525	0.734	ug/ml#	79
71) Diethyl phthalate	8.978	149	121555	1.845	ug/ml	99
73) 4-Chlorophenyl phenyl ...	9.025	204	45878	1.402	ug/ml	95
74) 4-Nitroaniline	9.030	138	24267	1.854	ug/ml#	78

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-2.D
Acq On : 17 Jun 2024 10:20 am
Operator : SV106:sz
Sample : WG1934773-2,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 12:33:34 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4,6-Dinitro-o-cresol	9.072	198	10291	1.005	ug/ml#	74
76) NDPA/DPA	9.148	169	71058	1.387	ug/ml	92
79) 4-Bromophenyl phenyl e...	9.477	248	28472	1.461	ug/ml	96
86) Atrazine	9.707	200	32260	1.754	ug/ml	87
90) Carbazole	10.101	167	149630	1.669	ug/ml	98
91) Di-n-butylphthalate	10.548	149	214536	1.964	ug/ml	100
96) Butyl benzyl phthalate	11.948	149	99078	2.133	ug/ml	95
105) 3,3'-Dichlorobenzidine	12.371	252	65689	1.676	ug/ml#	97
107) Bis(2-ethylhexyl)phtha...	12.560	149	156552	2.320	ug/ml#	91
108) Di-n-octylphthalate	13.183	149	264619	2.394	ug/ml#	73

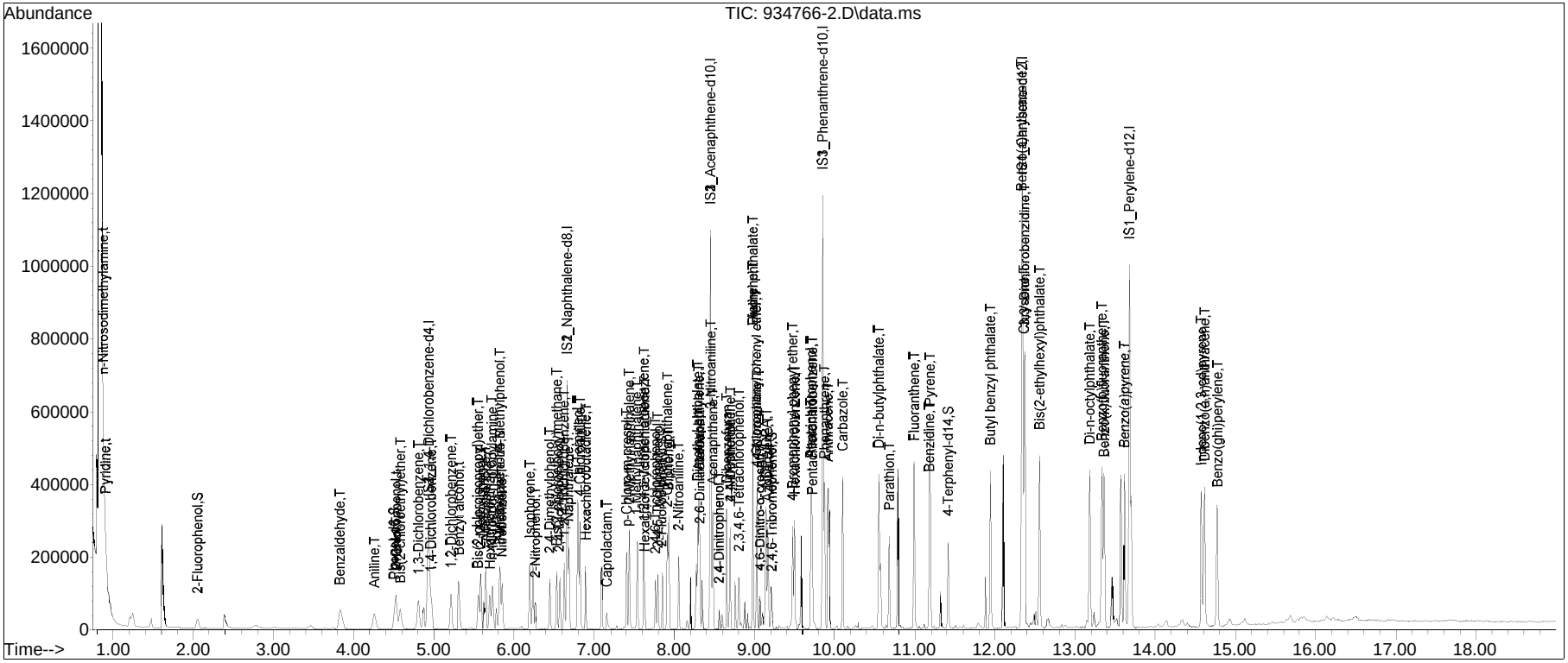
(#) = qualifier out of range (m) = manual integration (+) = signals summed

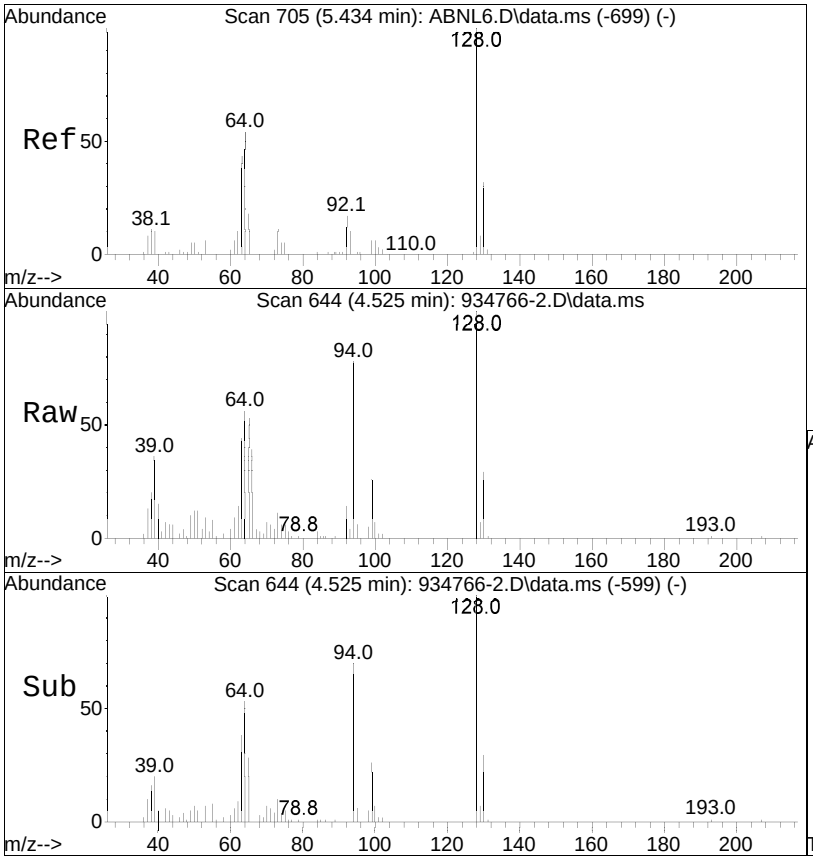
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-2.D
Acq On : 17 Jun 2024 10:20 am
Operator : SV106:sz
Sample : WG1934773-2,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 12:33:34 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90617.D•

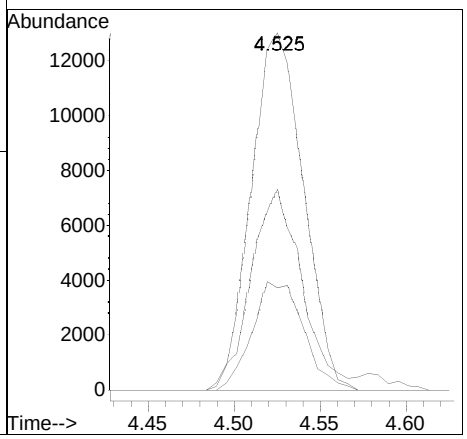


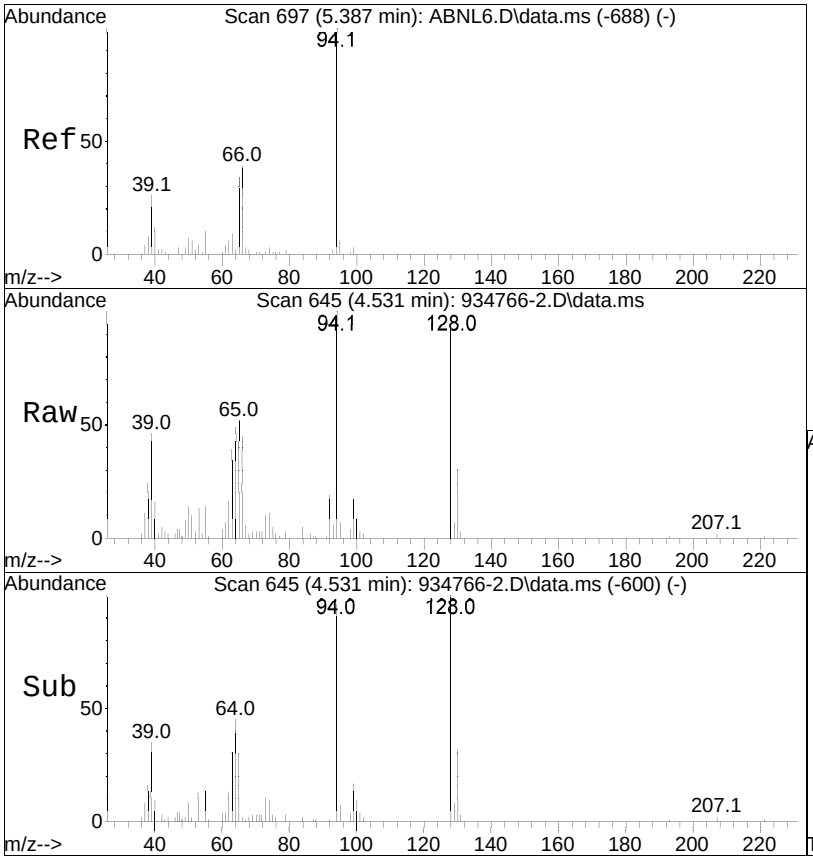


#6
2-Chlorophenol
Concen: 1.15 ug/ml
RT: 4.525 min Scan# 644
Delta R.T. 0.012 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:128 Resp: 27263

Ion	Ratio	Lower	Upper
128	100		
64	54.8	45.1	67.7
130	29.9	26.2	39.4

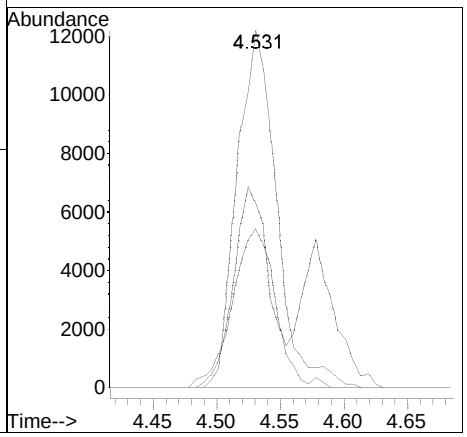


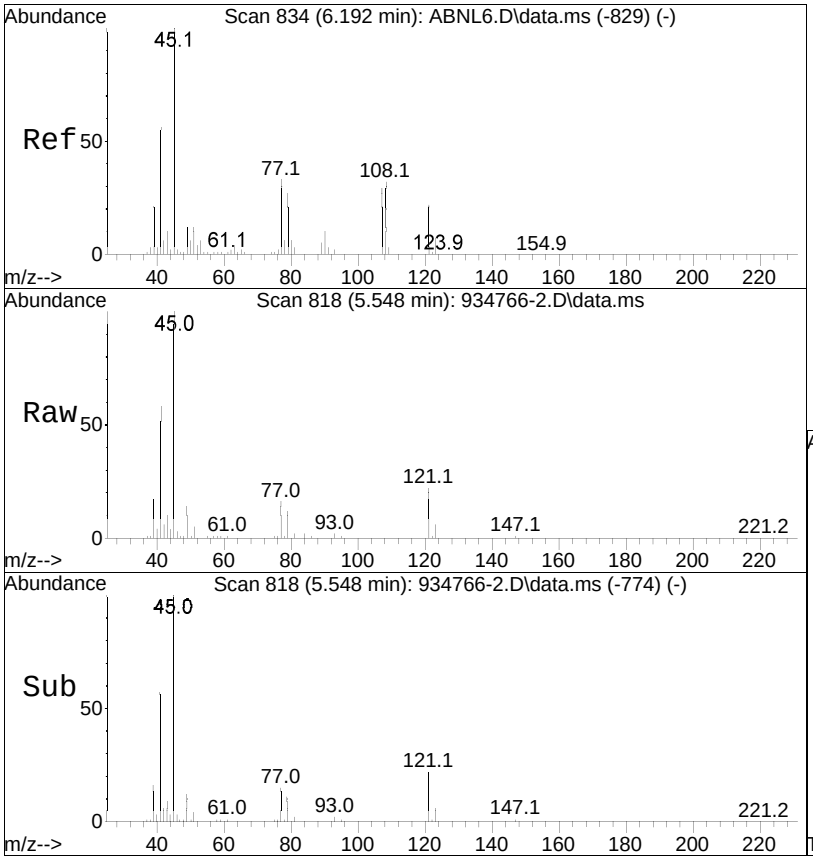


#8
Phenol
Concen: 0.88 ug/ml
RT: 4.531 min Scan# 645
Delta R.T. 0.012 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 94 Resp: 26378

Ion	Ratio	Lower	Upper
94	100		
65	50.6	26.0	39.0#
66	47.7	33.8	50.8

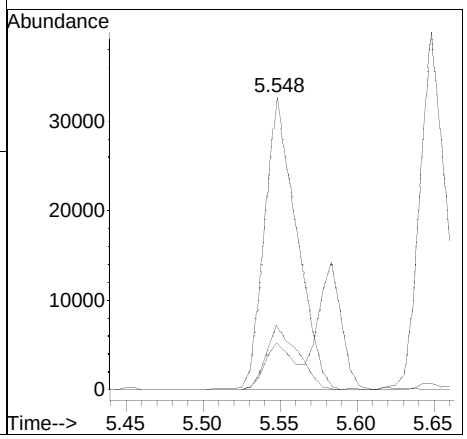


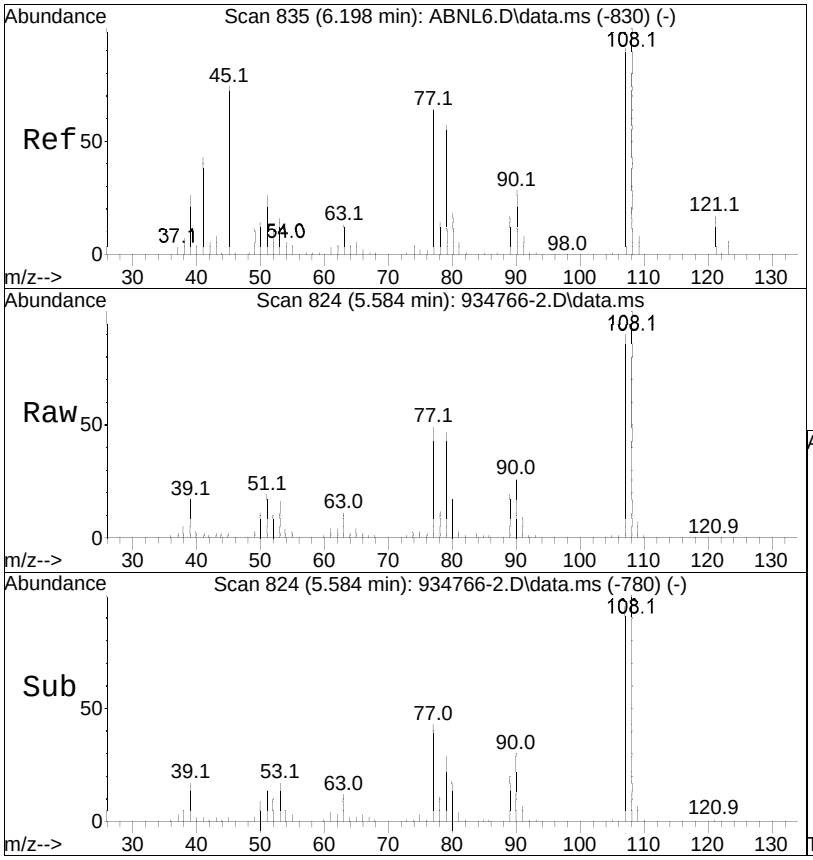


#14
Bis(2-chloroisopropyl)ether
Concen: 1.37 ug/ml
RT: 5.548 min Scan# 818
Delta R.T. 0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 45 Resp: 47707

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	15.4	6.1	9.1#

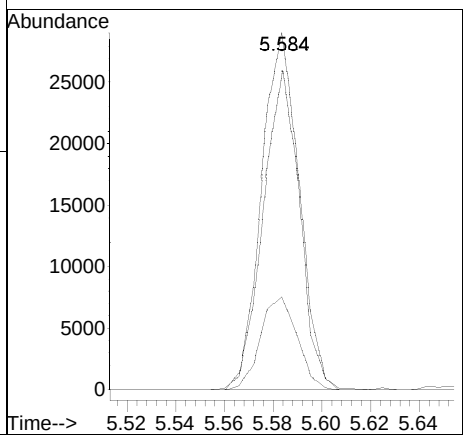


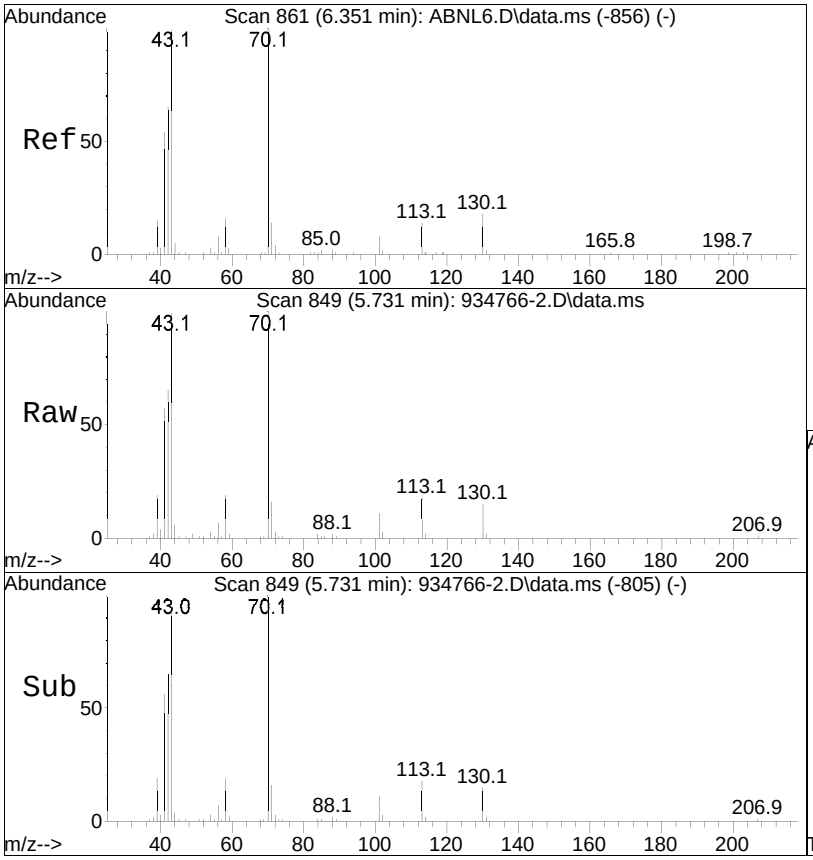


#15
2-Methylphenol
Concen: 1.47 ug/ml
RT: 5.584 min Scan# 824
Delta R.T. 0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:108 Resp: 31228

Ion	Ratio	Lower	Upper
108	100		
107	86.2	70.7	106.1
90	25.5	18.7	28.1

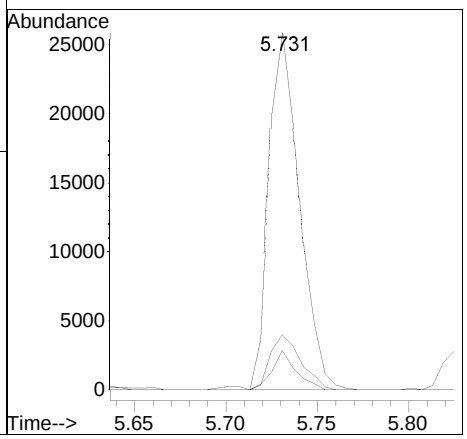


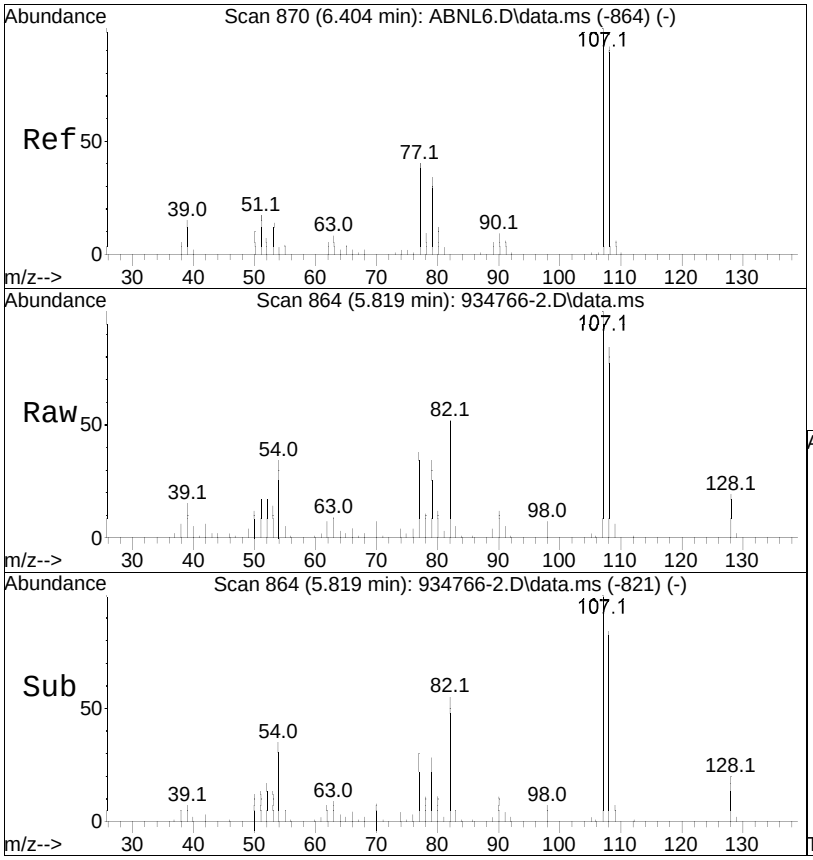


#17
n-Nitrosodi-n-propylamine
Concen: 1.52 ug/ml
RT: 5.731 min Scan# 849
Delta R.T. 0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 70 Resp: 30255

Ion	Ratio	Lower	Upper
70	100		
130	15.3	18.2	27.4#
101	8.5	7.8	11.8

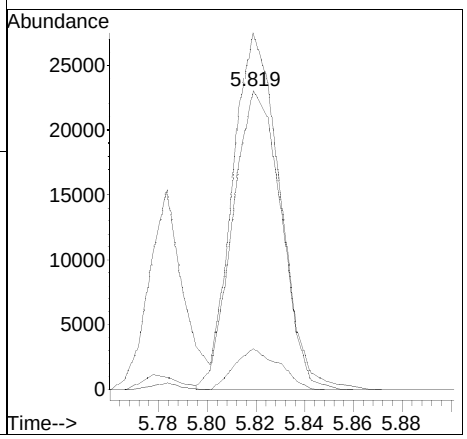


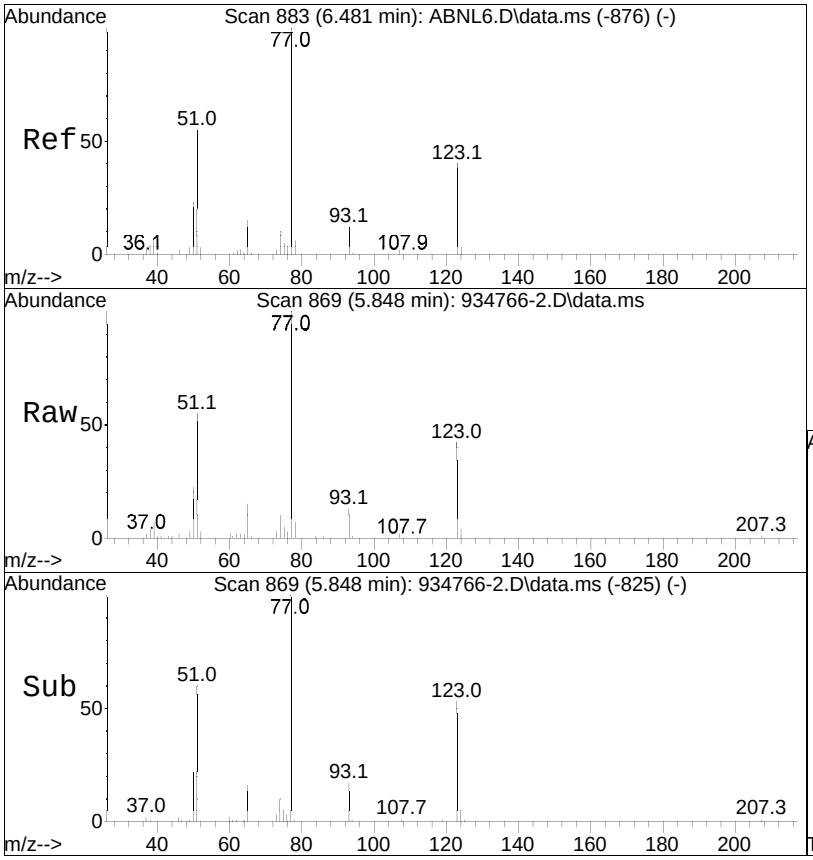


#18
3-Methylphenol/4-Methylphenol
Concen: 1.37 ug/ml
RT: 5.819 min Scan# 864
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:108 Resp: 31651

Ion	Ratio	Lower	Upper
108	100		
107	115.1	88.6	132.8
90	12.9	8.8	13.2

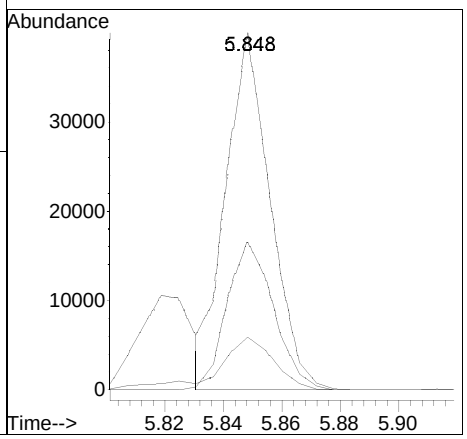


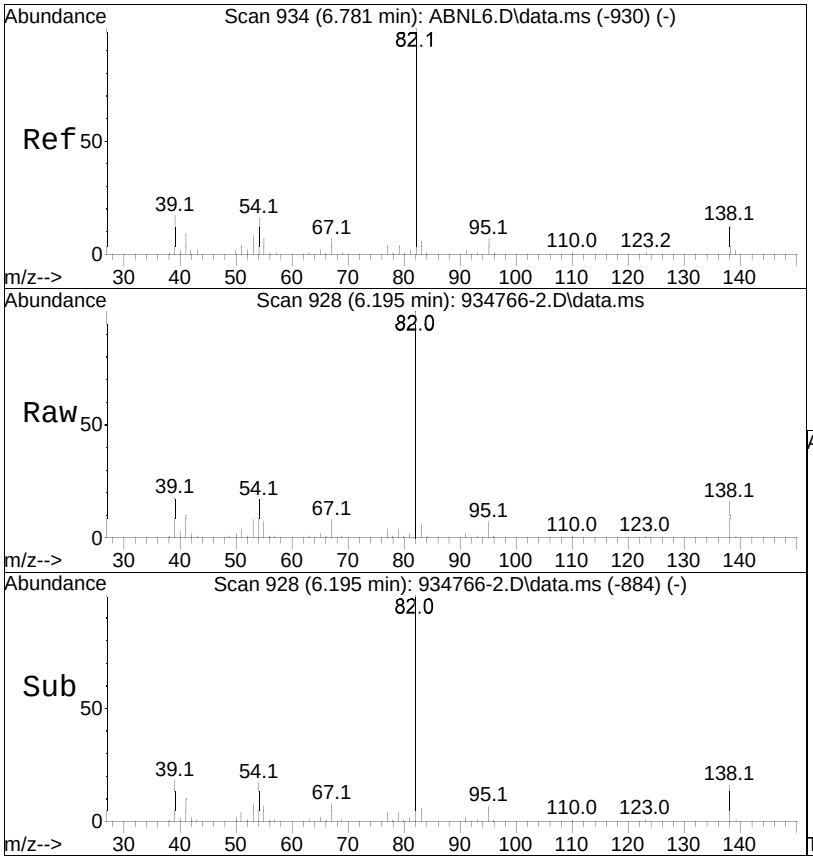


#20
Nitrobenzene
Concen: 1.45 ug/ml
RT: 5.848 min Scan# 869
Delta R.T. 0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 77 Resp: 41832

Ion	Ratio	Lower	Upper
77	100		
123	43.8	36.3	54.5
65	18.8	11.6	17.4#

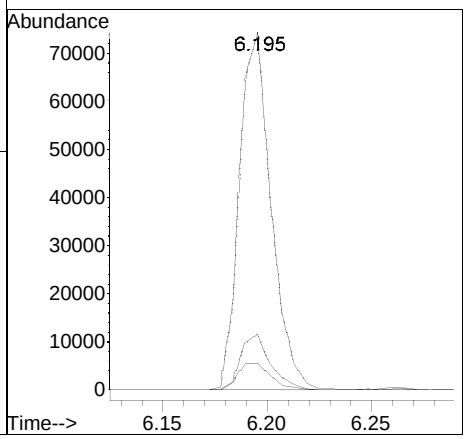


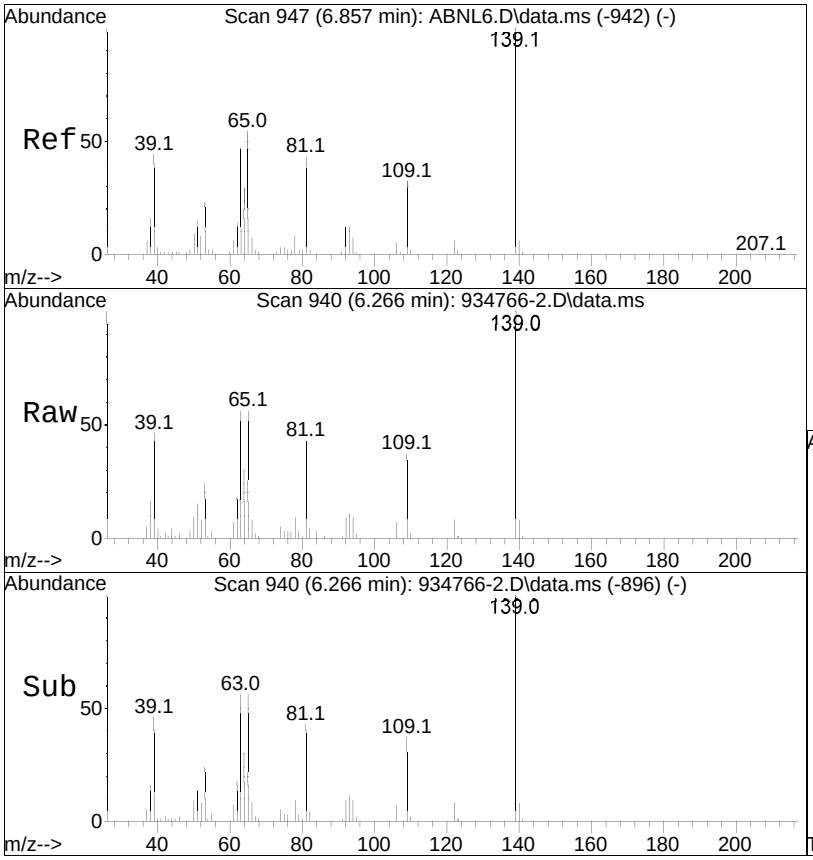


#21
Isophorone
Concen: 1.52 ug/ml
RT: 6.195 min Scan# 928
Delta R.T. 0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 82 Resp: 77861

Ion	Ratio	Lower	Upper
82	100		
138	14.7	14.7	22.1
95	7.8	5.2	7.8#

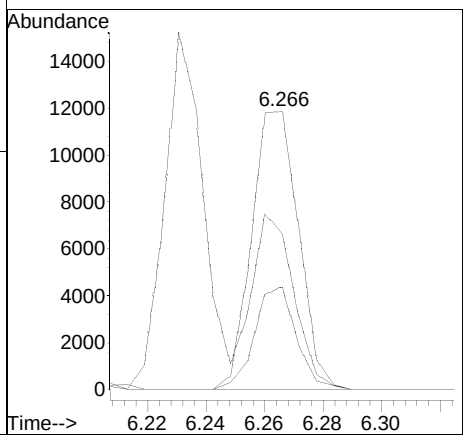


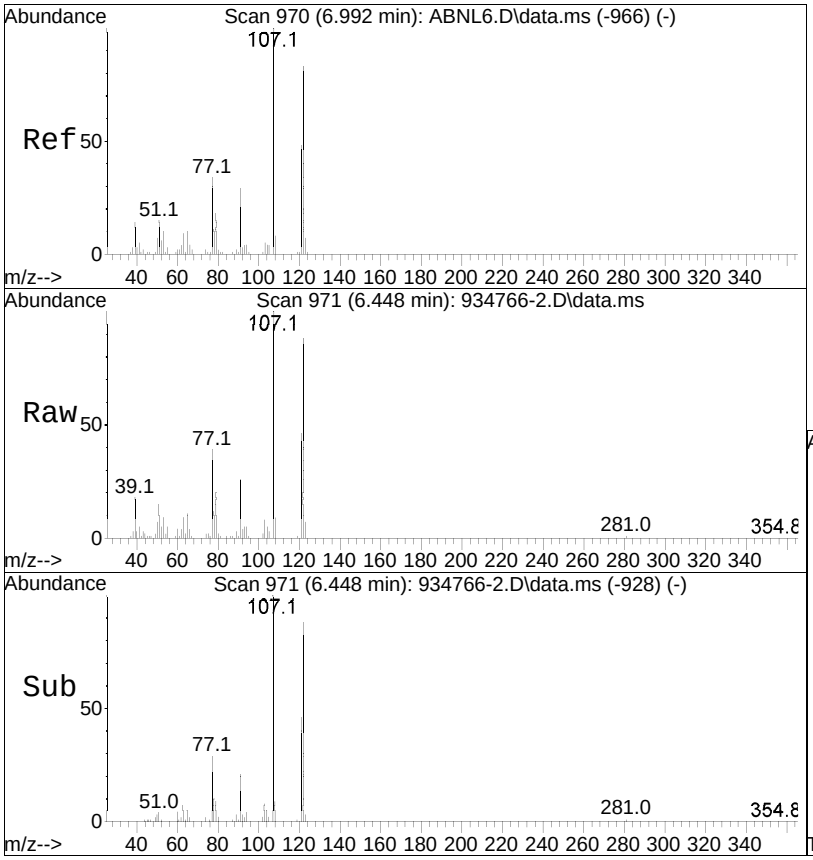


#22
2-Nitrophenol
Concen: 1.10 ug/ml
RT: 6.266 min Scan# 940
Delta R.T. 0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:139 Resp: 13199

Ion	Ratio	Lower	Upper
139	100		
109	33.0	19.4	29.0#
65	56.6	46.1	69.1

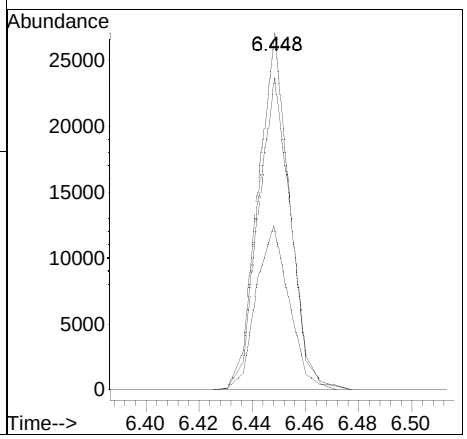


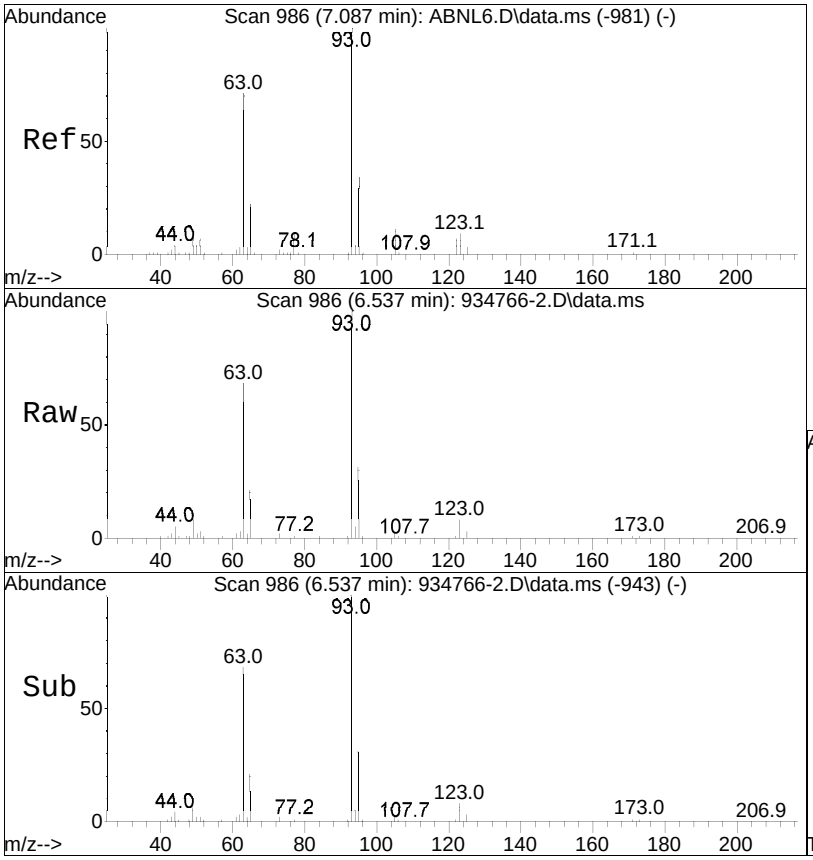


#23
2,4-Dimethylphenol
Concen: 0.91 ug/ml
RT: 6.448 min Scan# 971
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:107 Resp: 22110

Ion	Ratio	Lower	Upper
107	100		
121	48.3	40.0	60.0
122	90.7	70.2	105.4

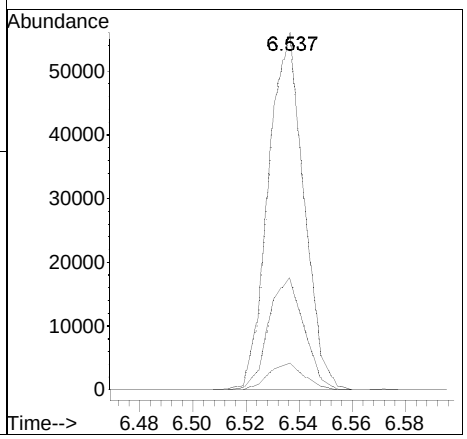


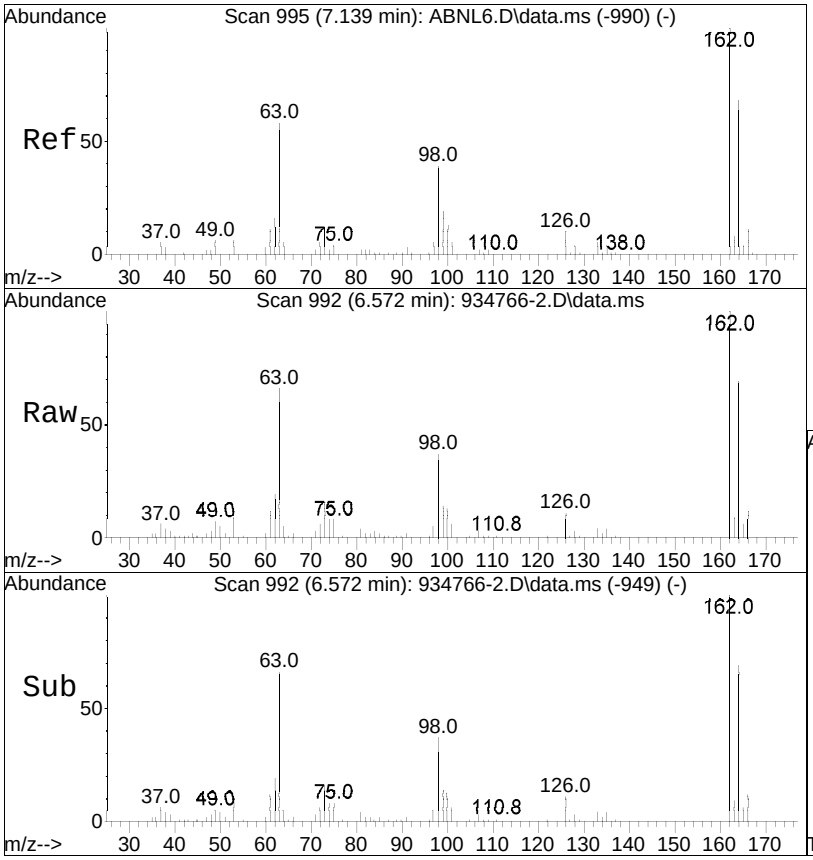


#24
Bis(2-chloroethoxy)methane
Concen: 1.60 ug/ml
RT: 6.537 min Scan# 986
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 93 Resp: 51430

Ion	Ratio	Lower	Upper
93	100		
95	31.5	25.8	38.8
123	7.5	10.1	15.1#

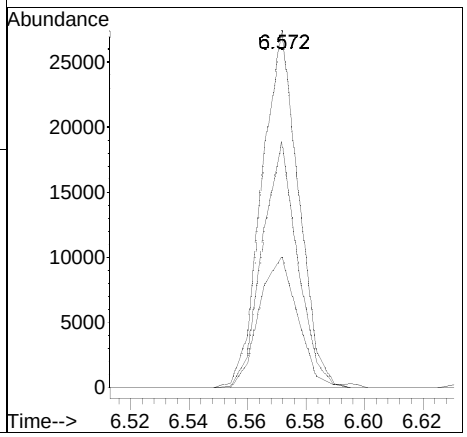


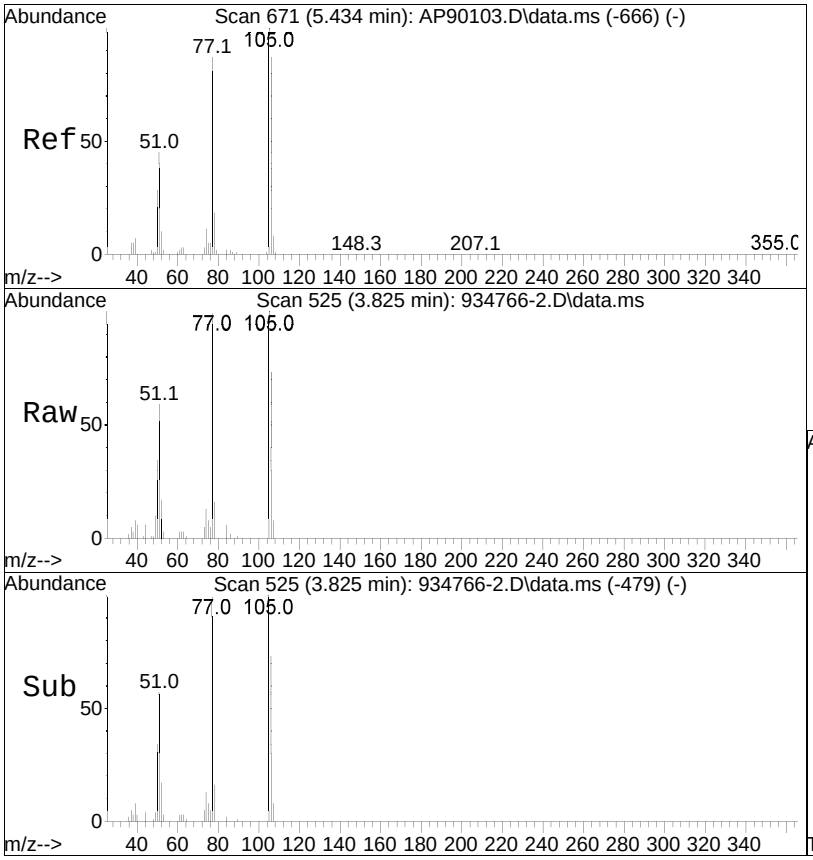


#25
2,4-Dichlorophenol
Concen: 1.08 ug/ml
RT: 6.572 min Scan# 992
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:162 Resp: 23775

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.0	76.4
98	38.6	32.2	48.2

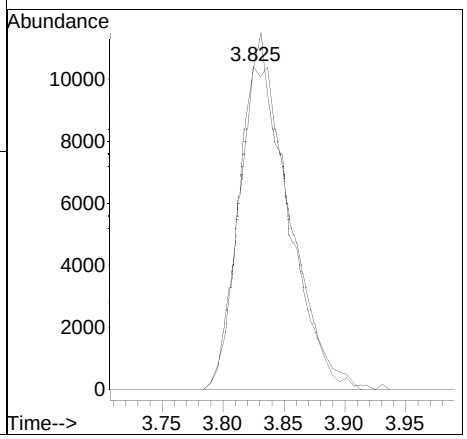


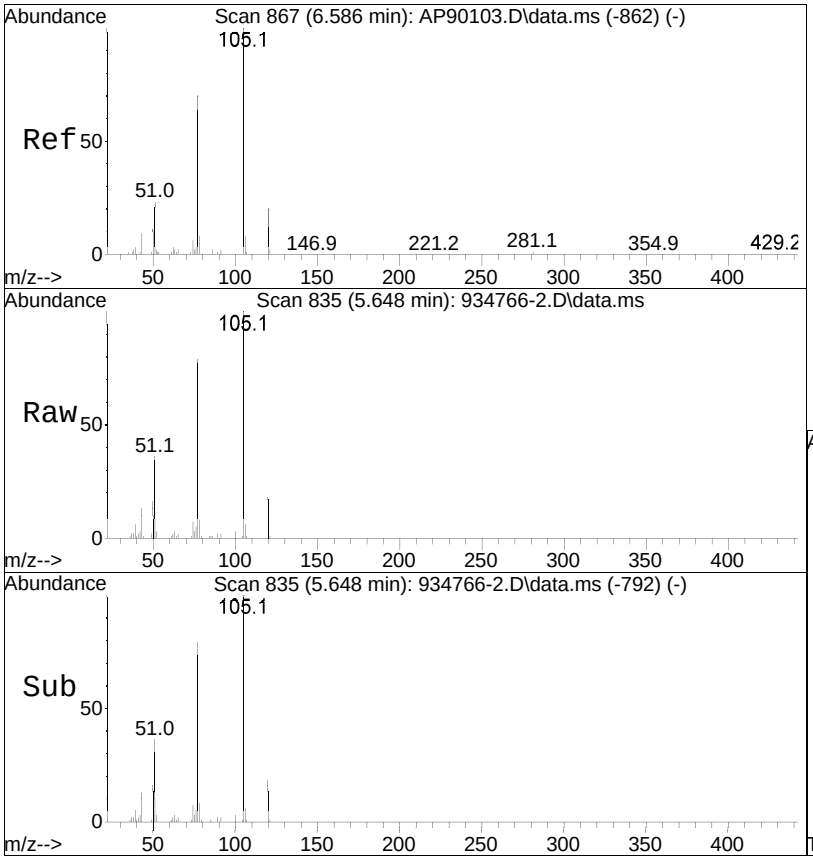


#28
Benzaldehyde
Concen: 1.48 ug/ml
RT: 3.825 min Scan# 525
Delta R.T. 0.018 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:105 Resp: 31075

Ion	Ratio	Lower	Upper
105	100		
77	99.5	82.2	123.4

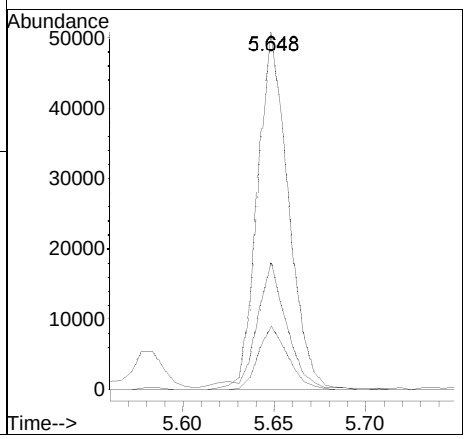


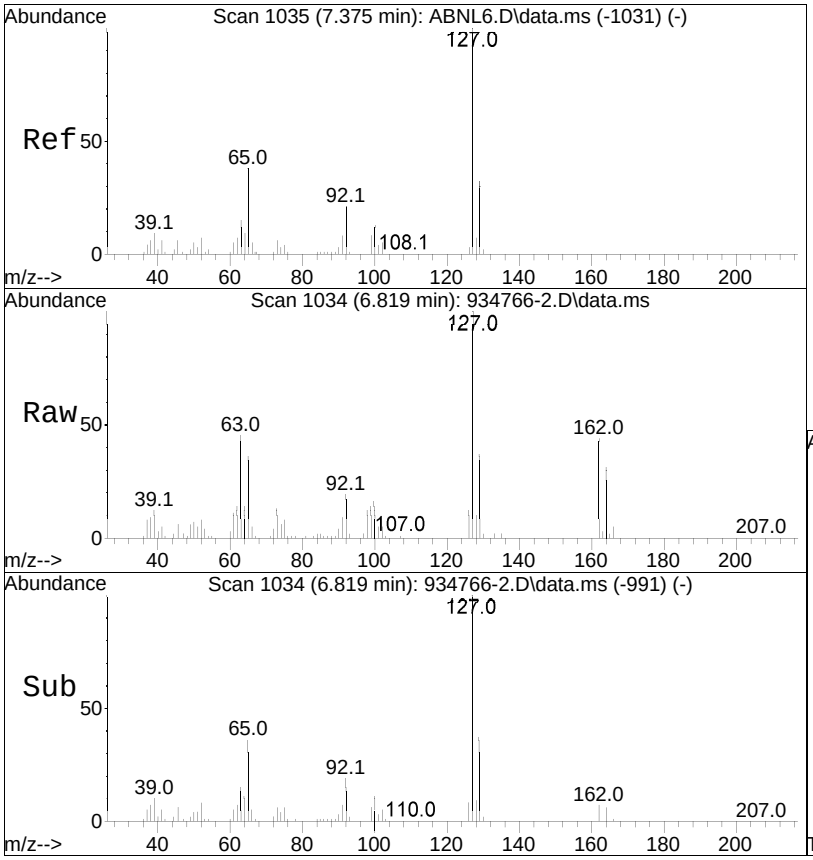


#29
Acetophenone
Concen: 1.55 ug/ml
RT: 5.648 min Scan# 835
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:105 Resp: 58989

Ion	Ratio	Lower	Upper
105	100		
120	17.0	20.5	30.7#
51	34.9	34.9	52.3

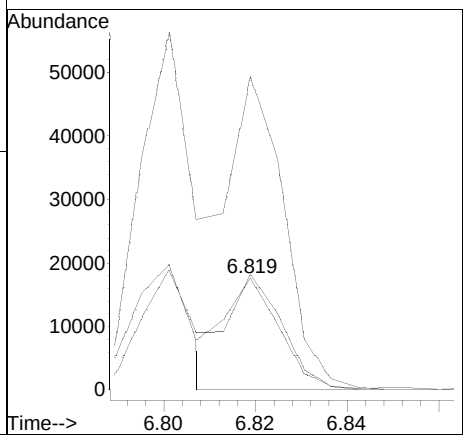


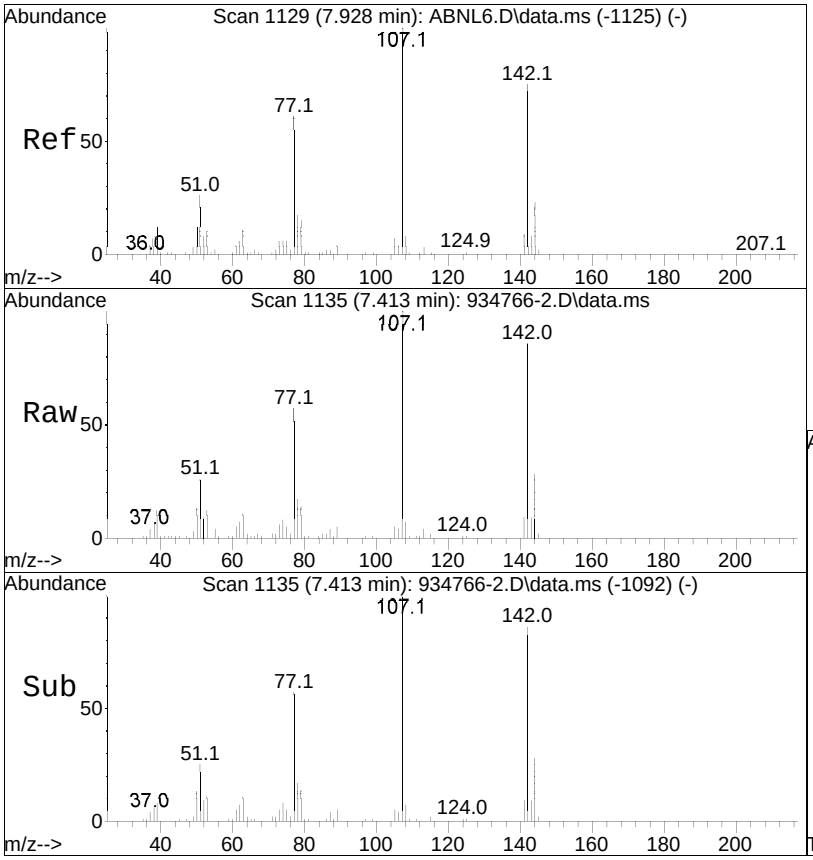


#37
4-Chloroaniline
Concen: 1.31 ug/ml M3
RT: 6.819 min Scan# 1034
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 65 Resp: 14915

Ion	Ratio	Lower	Upper
65	100		
127	367.1	237.6	356.4#
129	99.0	76.3	114.5

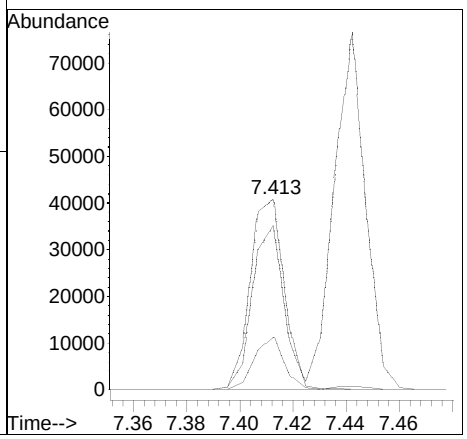


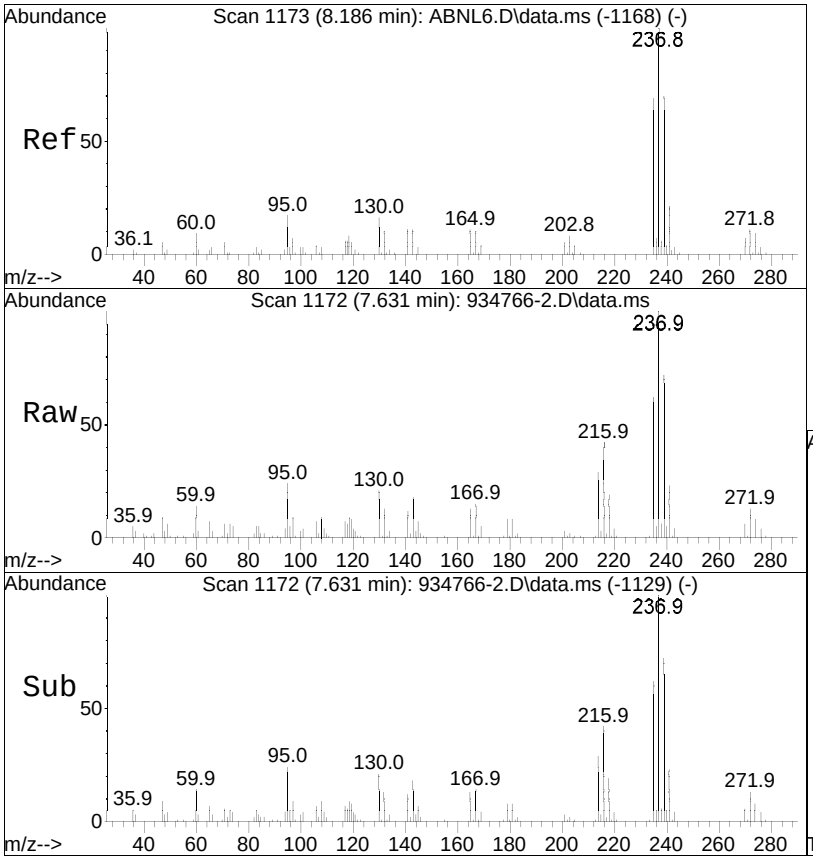


#39
p-Chloro-m-cresol
Concen: 1.56 ug/ml
RT: 7.413 min Scan# 1135
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:107 Resp: 36306

Ion	Ratio	Lower	Upper
107	100		
144	24.0	20.9	31.3
142	80.7	66.1	99.1

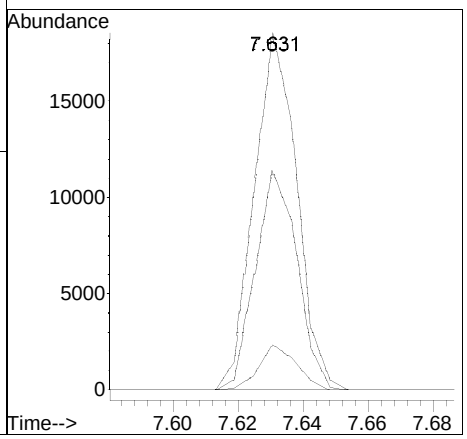


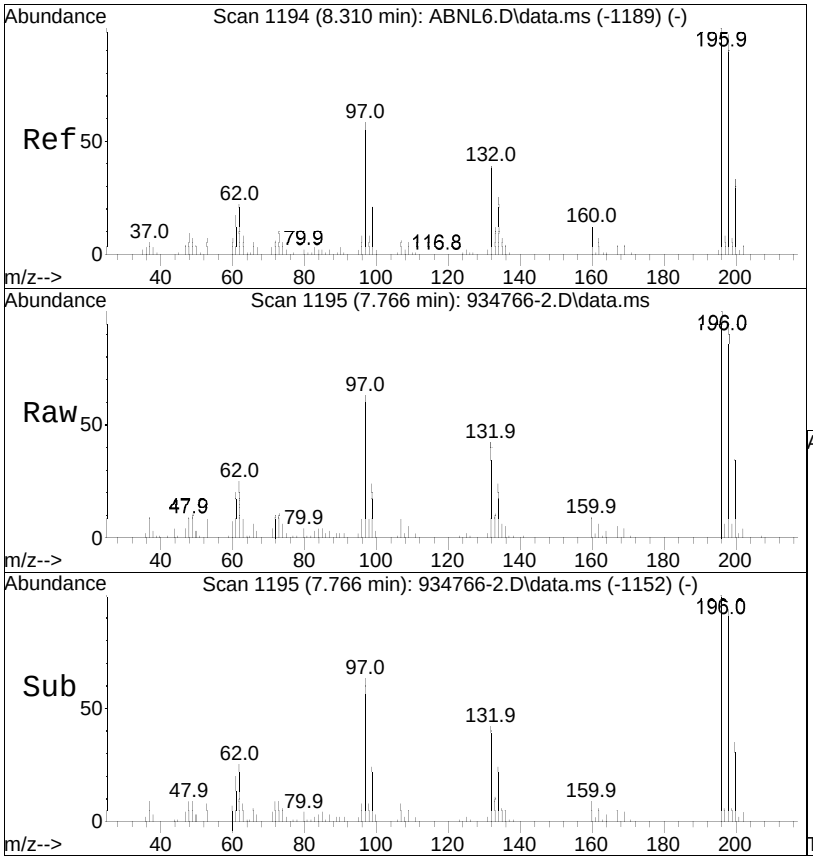


#42
Hexachlorocyclopentadiene
Concen: 0.86 ug/ml
RT: 7.631 min Scan# 1172
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:237 Resp: 16751

Ion	Ratio	Lower	Upper
237	100		
235	60.4	49.7	74.5
272	11.3	9.8	14.6

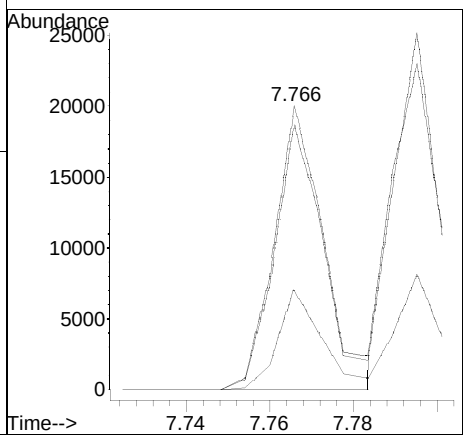


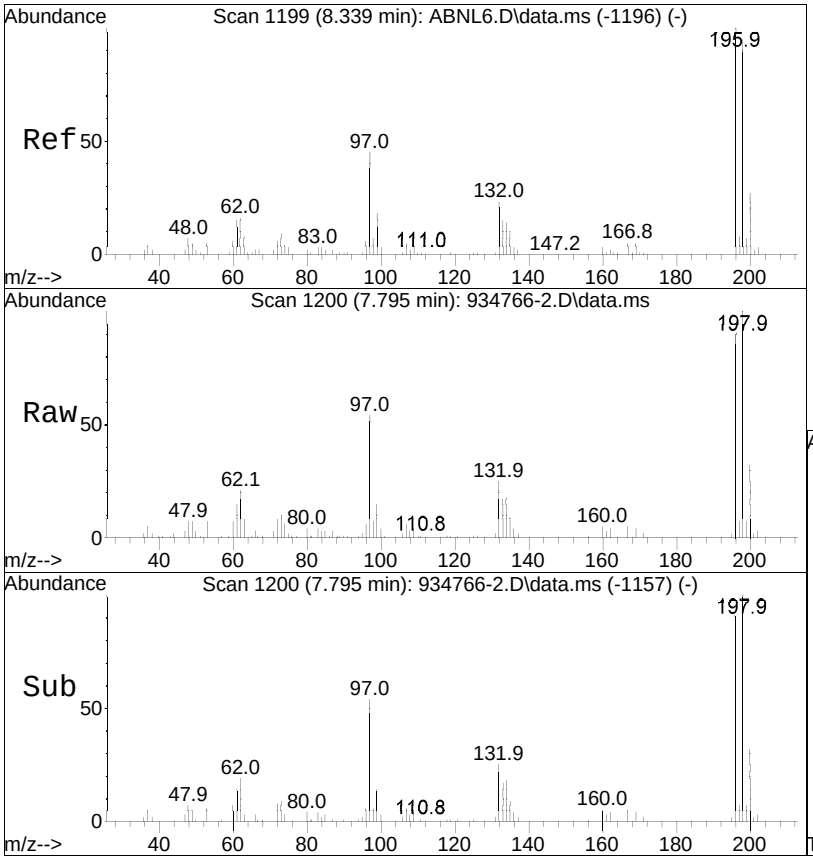


#43
2,4,6-Trichlorophenol
Concen: 0.87 ug/ml
RT: 7.766 min Scan# 1195
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:196 Resp: 16497

Ion	Ratio	Lower	Upper
196	100		
198	93.2	77.5	116.3
200	32.0	23.8	35.6

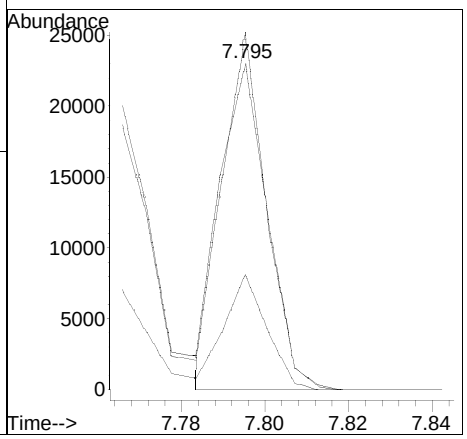


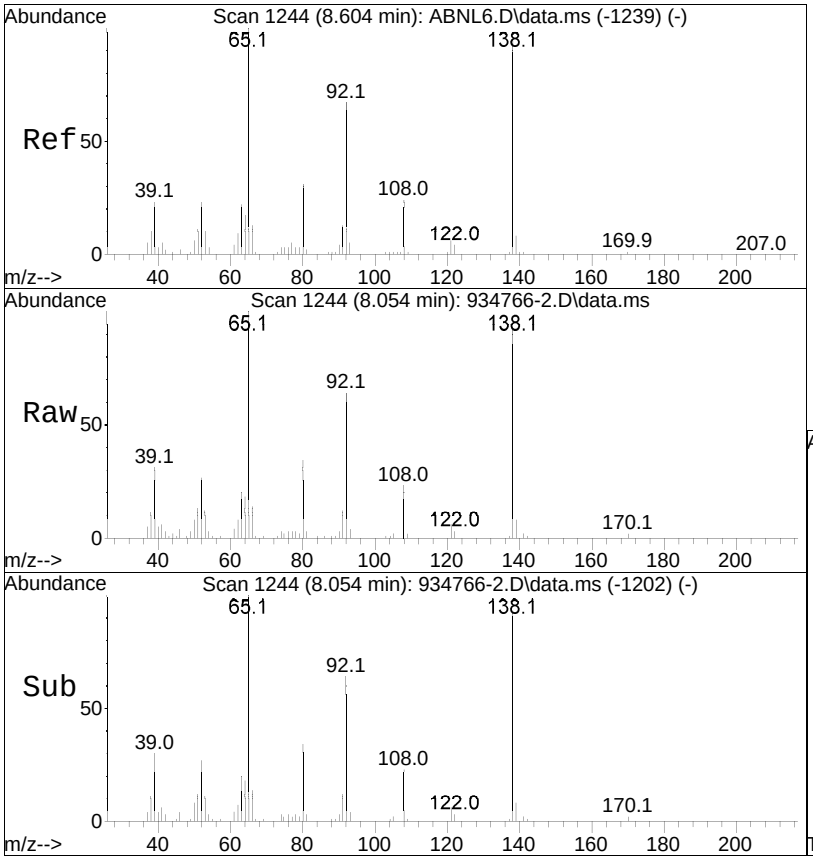


#44
2,4,5-Trichlorophenol
Concen: 0.88 ug/ml
RT: 7.795 min Scan# 1200
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:196 Resp: 18191

Ion	Ratio	Lower	Upper
196	100		
200	31.6	25.4	38.0
198	101.0	78.0	117.0

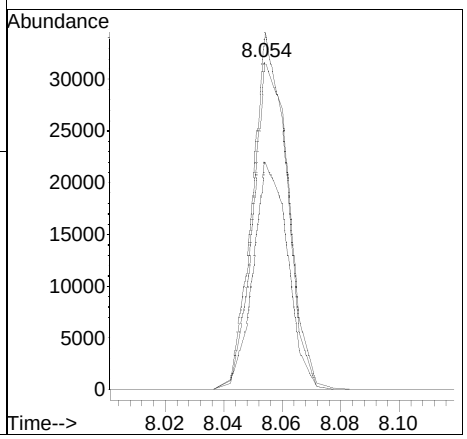


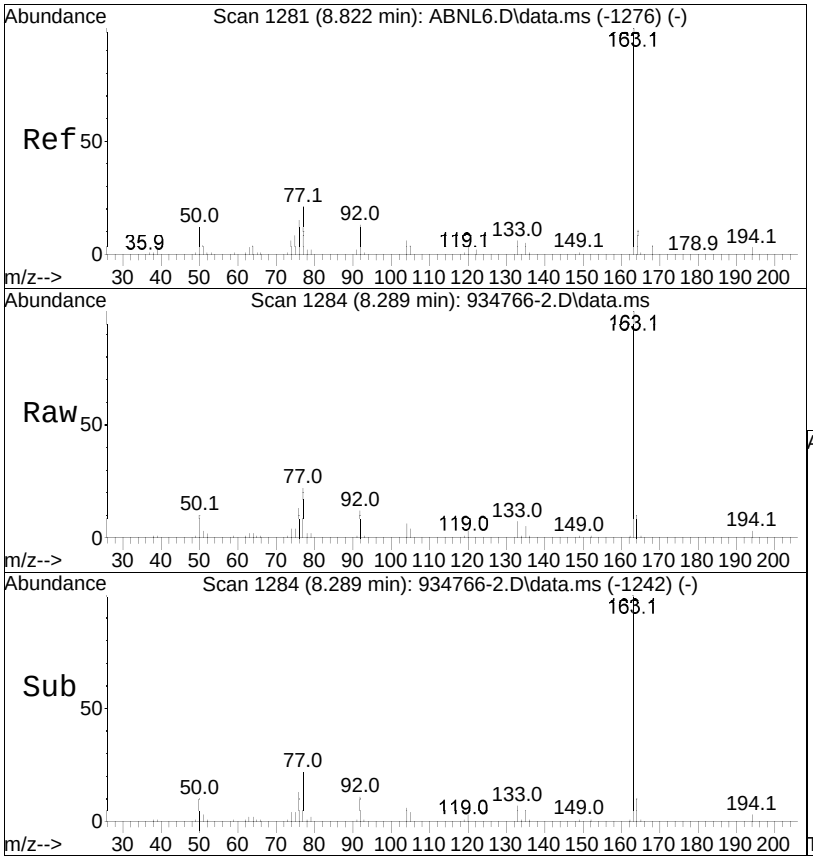


#47
2-Nitroaniline
Concen: 1.75 ug/ml
RT: 8.054 min Scan# 1244
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:138 Resp: 26860

Ion	Ratio	Lower	Upper
138	100		
92	67.2	53.5	80.3
65	103.7	86.3	129.5

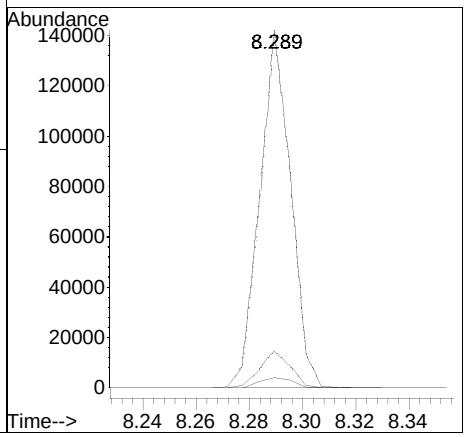


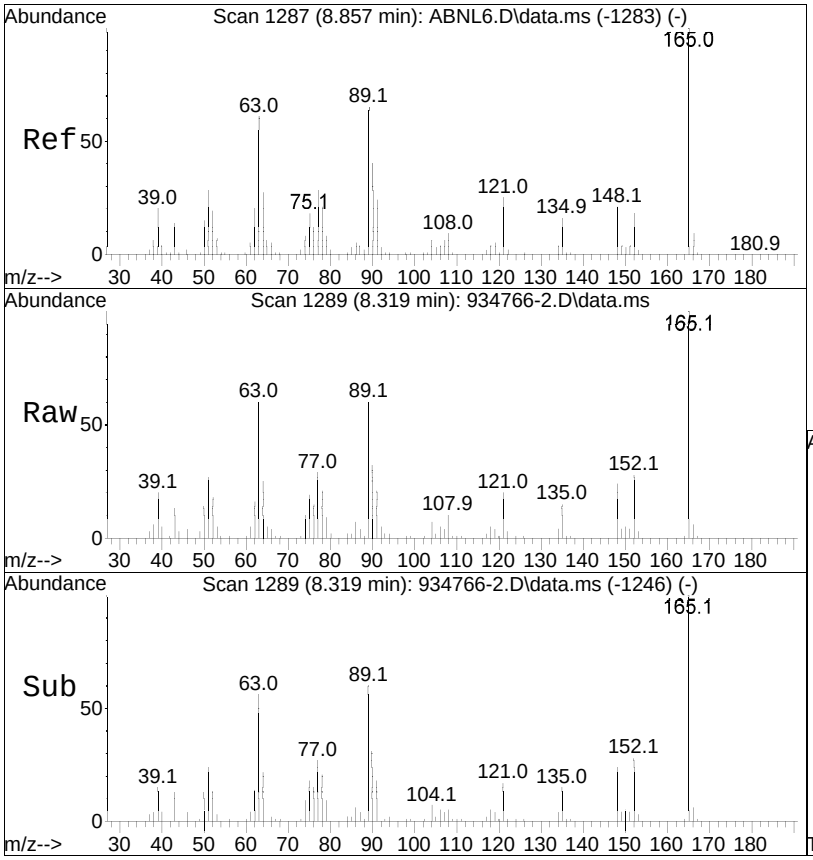


#50
Dimethyl phthalate
Concen: 1.61 ug/ml
RT: 8.289 min Scan# 1284
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:163 Resp: 112933

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.3	7.9	11.9

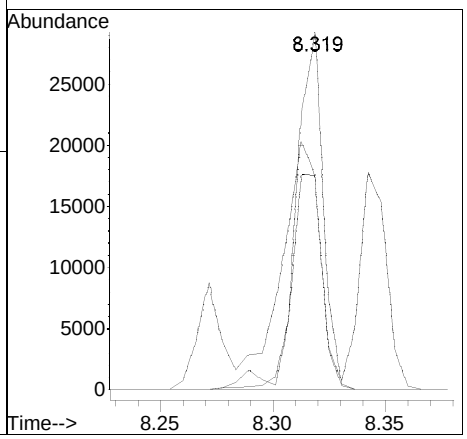


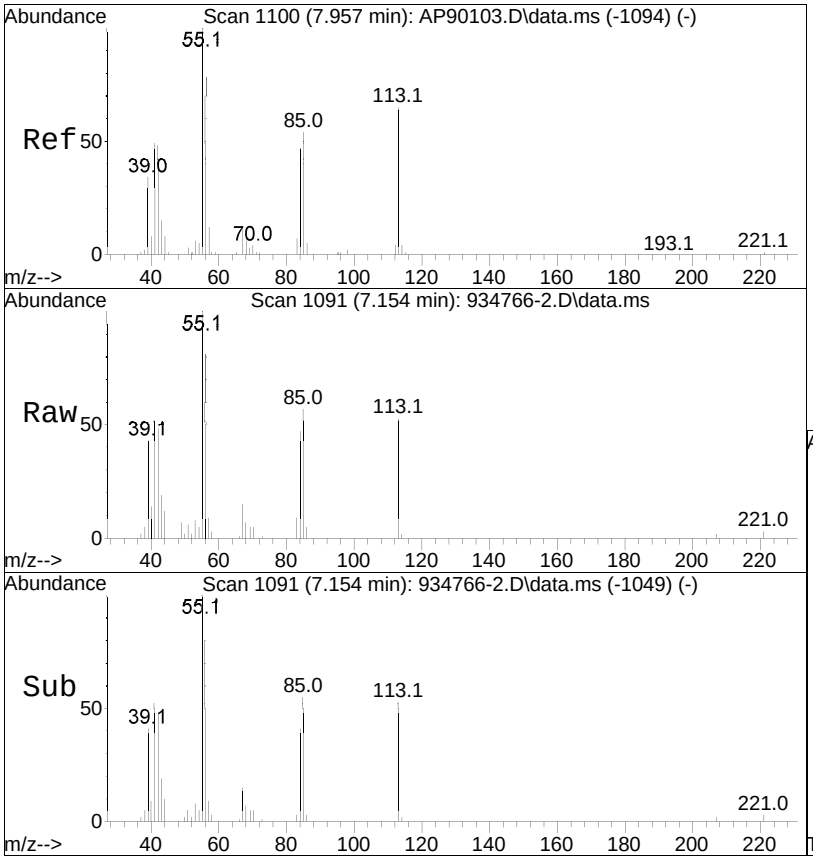


#52
2,6-Dinitrotoluene
Concen: 1.74 ug/ml
RT: 8.319 min Scan# 1289
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:165 Resp: 24440

Ion	Ratio	Lower	Upper
165	100		
89	66.9	54.2	81.2
63	98.6	64.2	96.2#

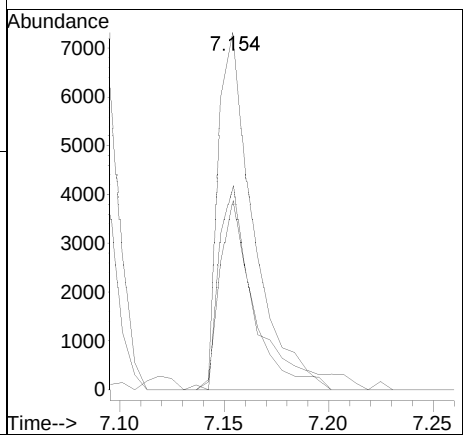


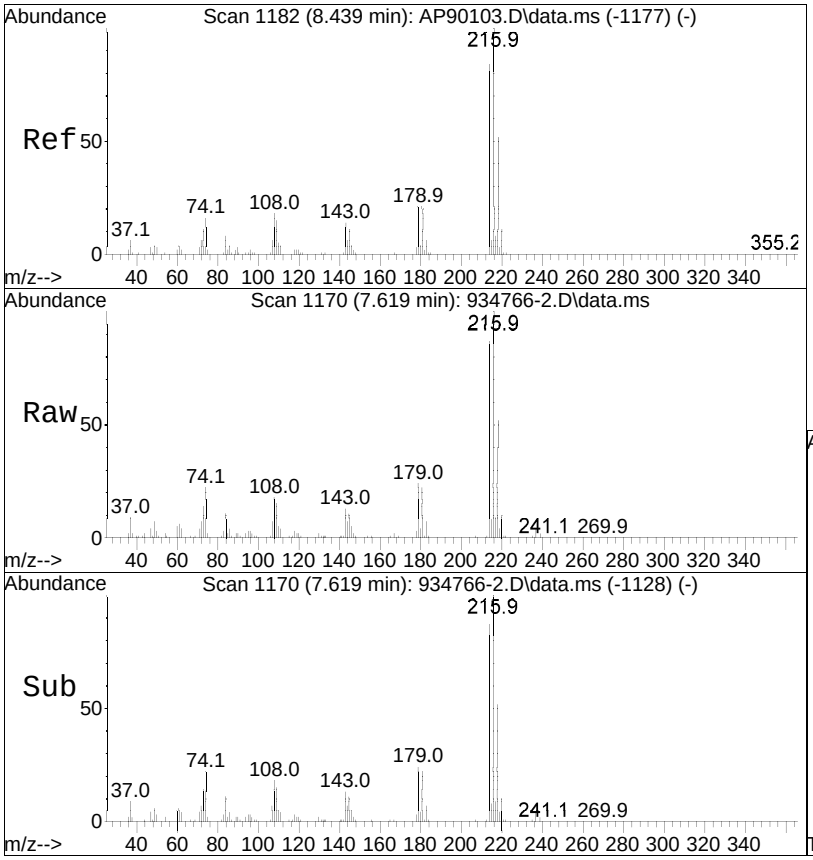


#59
Caprolactam
Concen: 0.71 ug/ml
RT: 7.154 min Scan# 1091
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 55 Resp: 8917

Ion	Ratio	Lower	Upper
55	100		
85	54.8	19.8	29.6#
113	48.7	29.6	44.4#

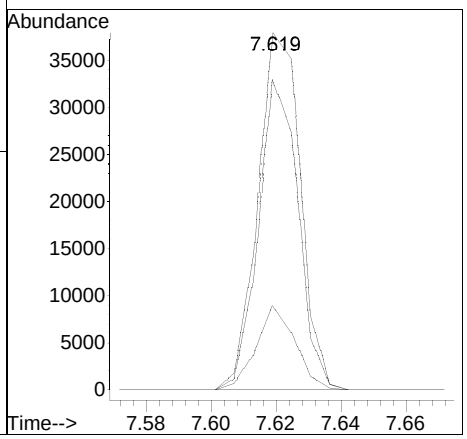


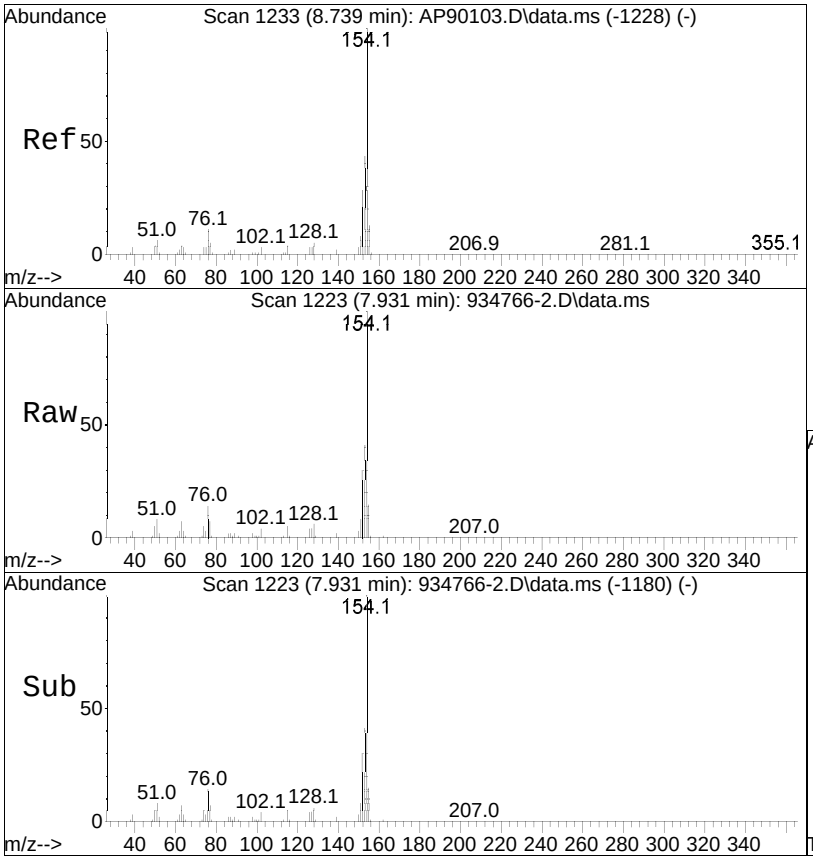


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.05 ug/ml
RT: 7.619 min Scan# 1170
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:216 Resp: 34456

Ion	Ratio	Lower	Upper
216	100		
214	81.1	63.7	95.5
179	21.6	19.0	28.6

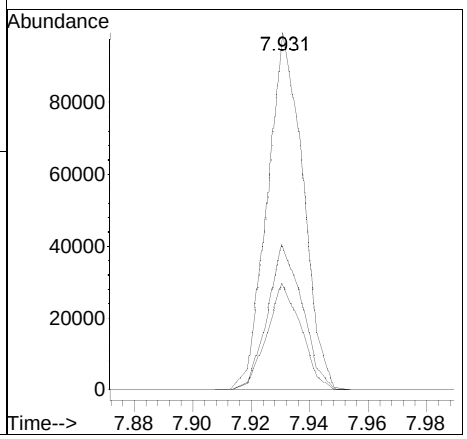


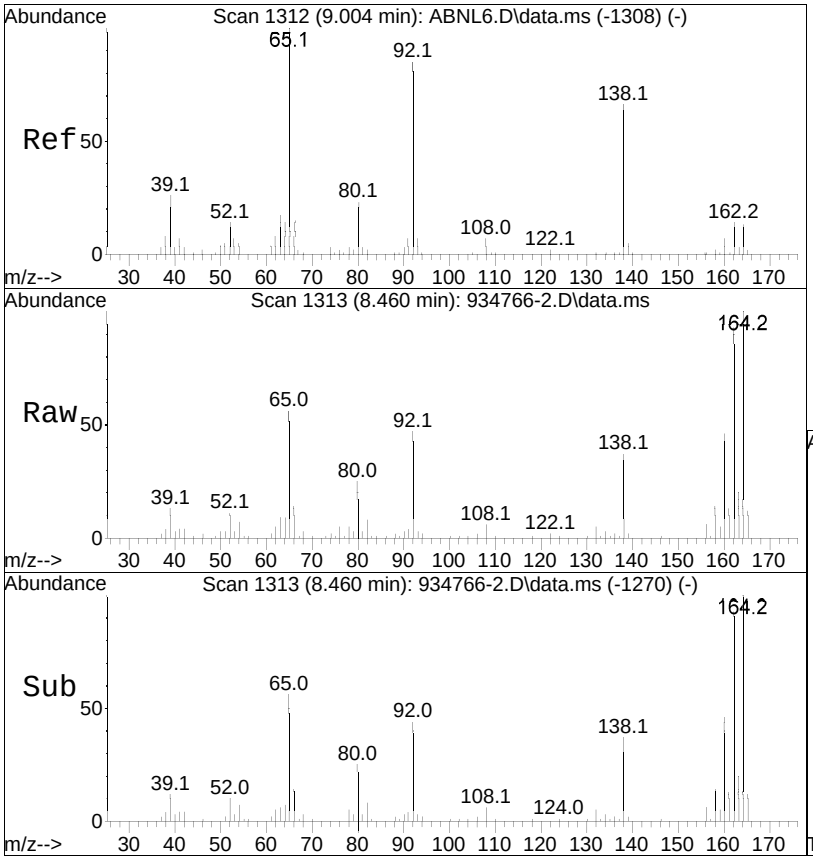


#61
Biphenyl
Concen: 1.30 ug/ml
RT: 7.931 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:154 Resp: 83585

Ion	Ratio	Lower	Upper
154	100		
153	39.9	32.3	48.5
152	28.8	22.5	33.7

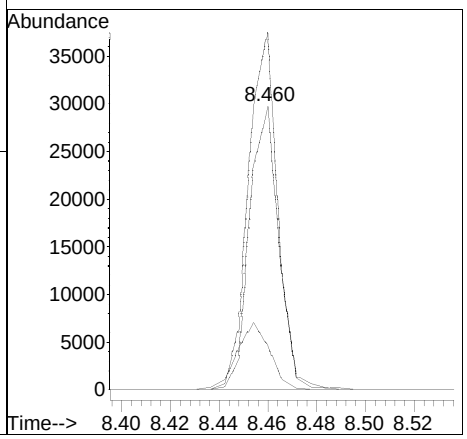


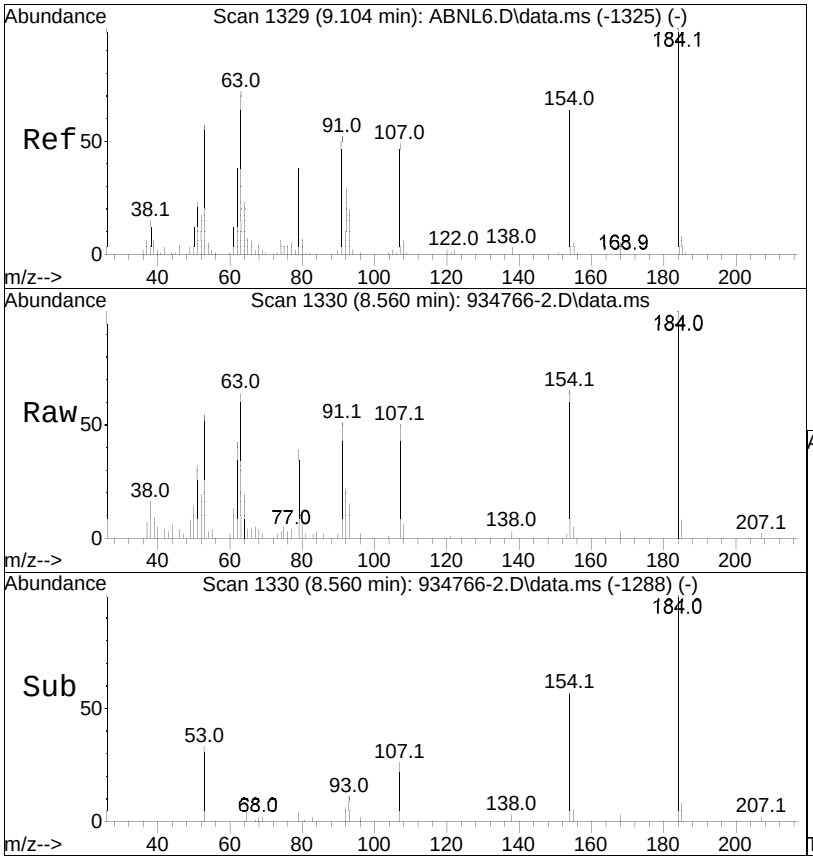


#63
3-Nitroaniline
Concen: 1.83 ug/ml
RT: 8.460 min Scan# 1313
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:138 Resp: 24506

Ion	Ratio	Lower	Upper
138	100		
92	126.8	93.4	140.2
108	26.5	9.5	14.3#

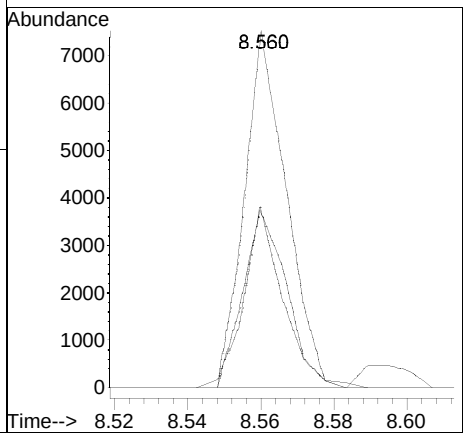


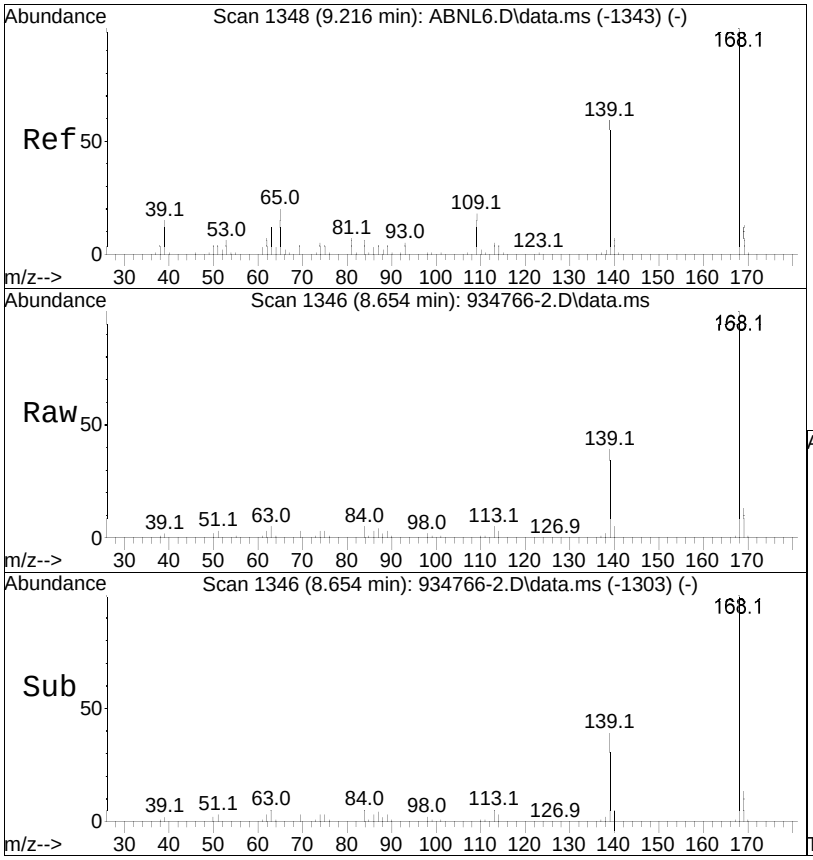


#65
2,4-Dinitrophenol
Concen: 1.00 ug/ml
RT: 8.560 min Scan# 1330
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:184 Resp: 5951

Ion	Ratio	Lower	Upper
184	100		
107	52.3	37.7	56.5
91	46.8	46.3	69.5

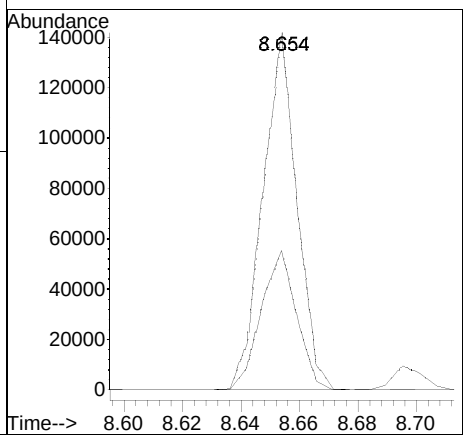


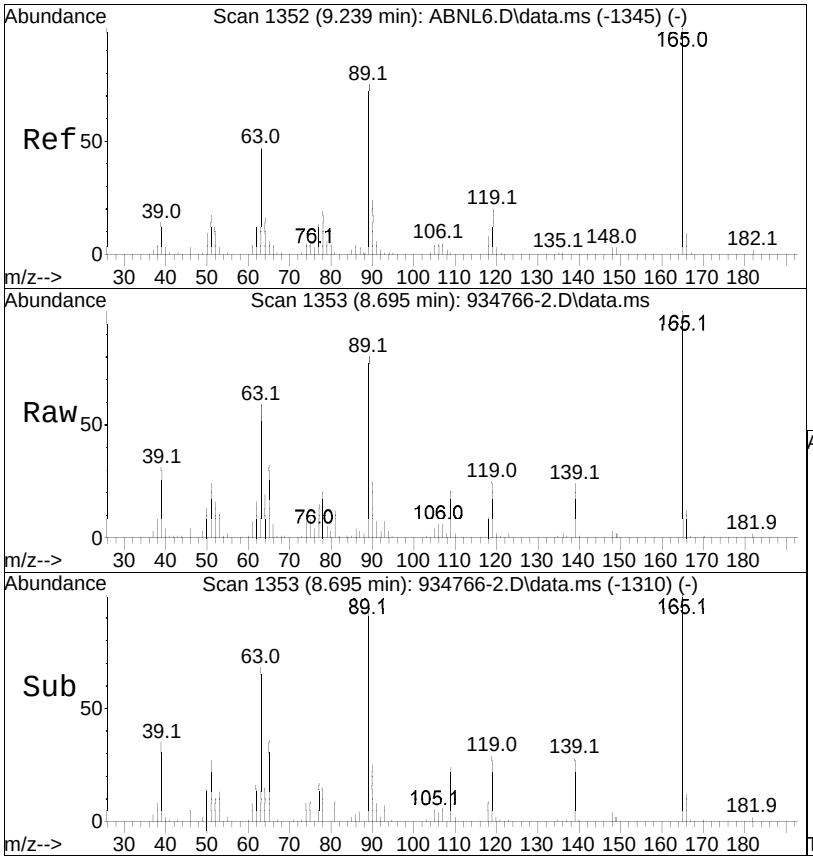


#66
Dibenzofuran
Concen: 1.43 ug/ml
RT: 8.654 min Scan# 1346
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:168 Resp: 113004

Ion	Ratio	Lower	Upper
168	100		
139	41.0	31.4	47.2

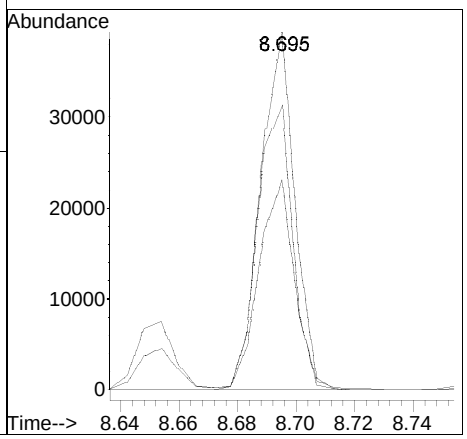


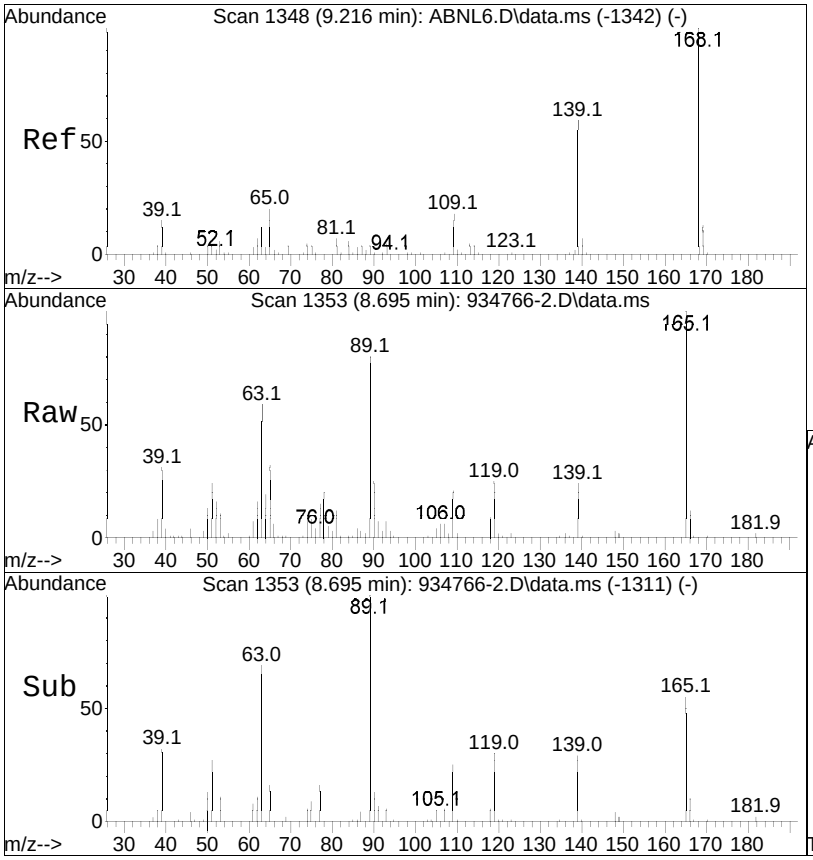


#67
2,4-Dinitrotoluene
Concen: 1.74 ug/ml
RT: 8.695 min Scan# 1353
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:165 Resp: 31721

Ion	Ratio	Lower	Upper
165	100		
89	82.2	72.0	108.0
63	61.7	52.7	79.1

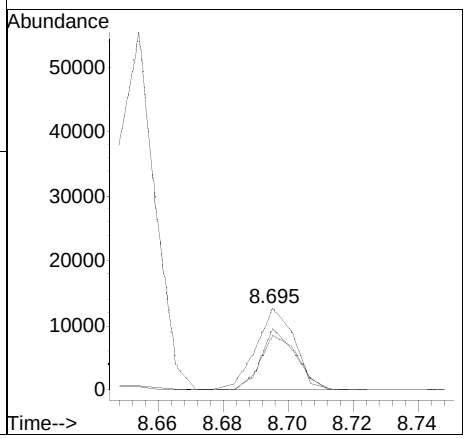


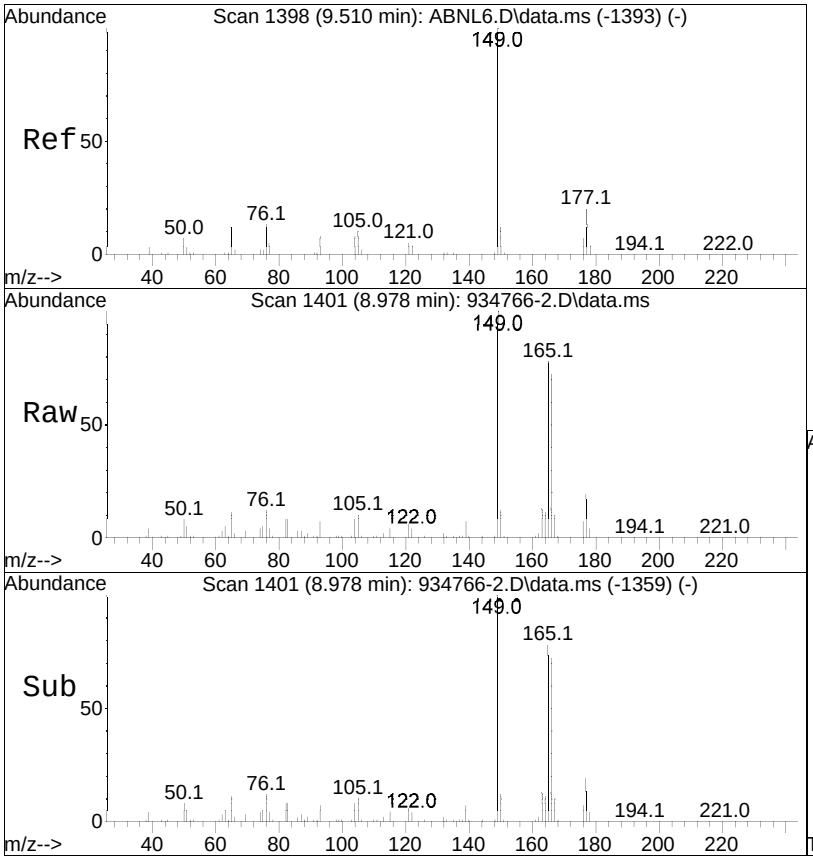


#68
4-Nitrophenol
Concen: 0.73 ug/ml
RT: 8.695 min Scan# 1353
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion: 65 Resp: 10525

Ion	Ratio	Lower	Upper
65	100		
109	64.5	47.4	71.2
139	67.3	76.6	115.0#

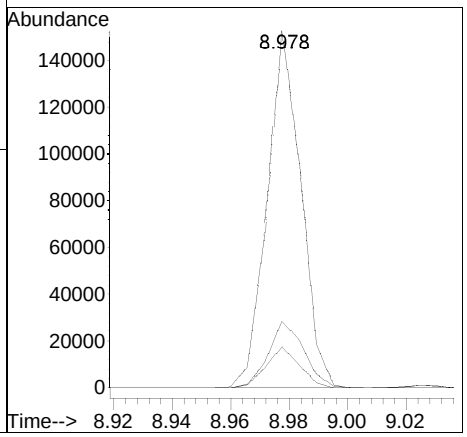


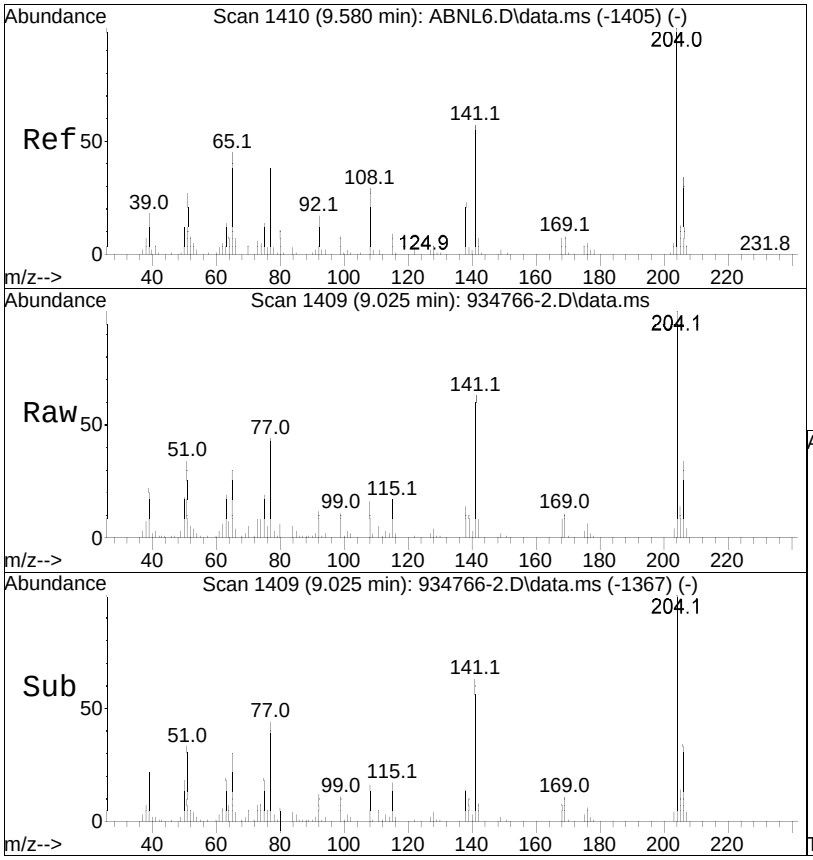


#71
Diethyl phthalate
Concen: 1.85 ug/ml
RT: 8.978 min Scan# 1401
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:149 Resp: 121555

Ion	Ratio	Lower	Upper
149	100		
177	19.8	16.1	24.1
150	11.5	9.4	14.2

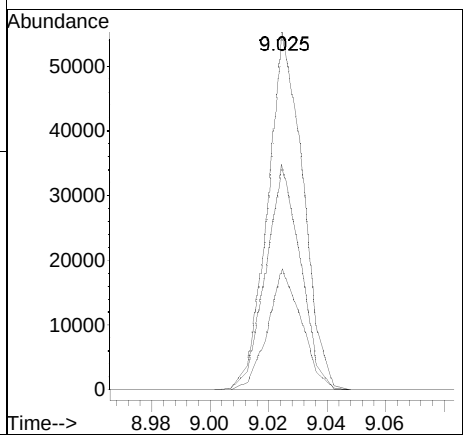


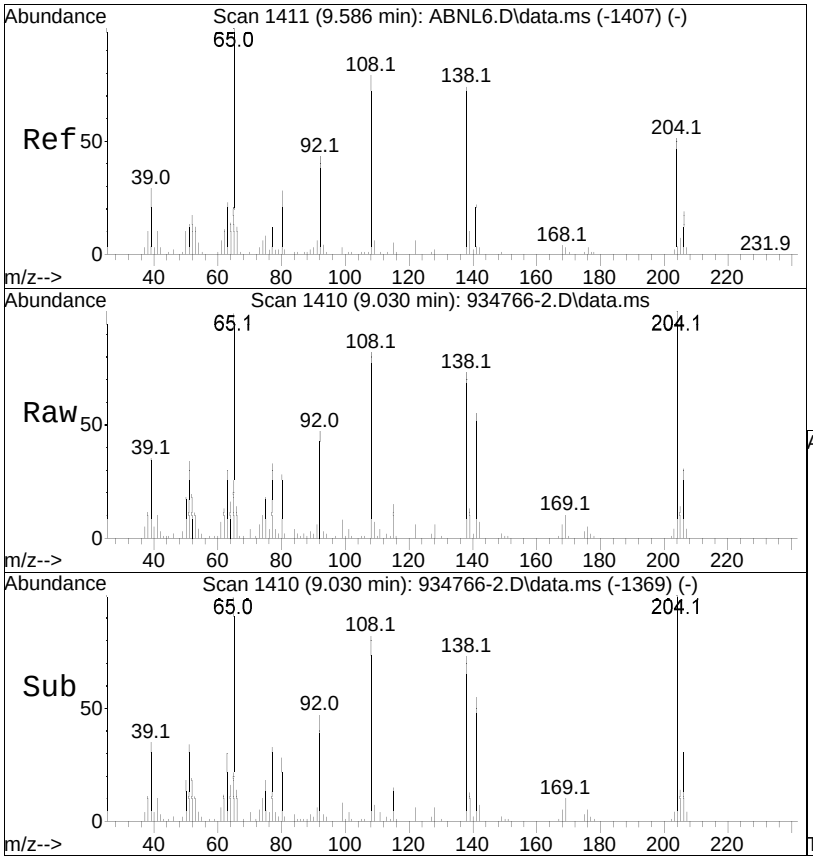


#73
4-Chlorophenyl phenyl ether
Concen: 1.40 ug/ml
RT: 9.025 min Scan# 1409
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:204 Resp: 45878

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	61.8	53.6	80.4

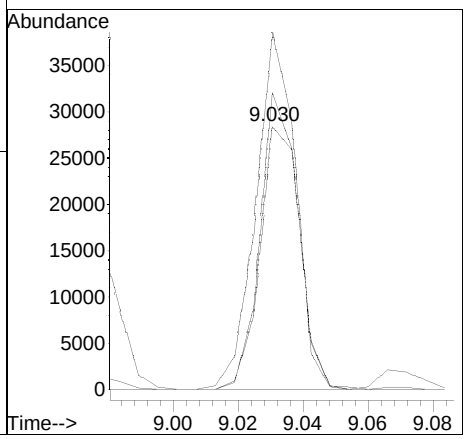


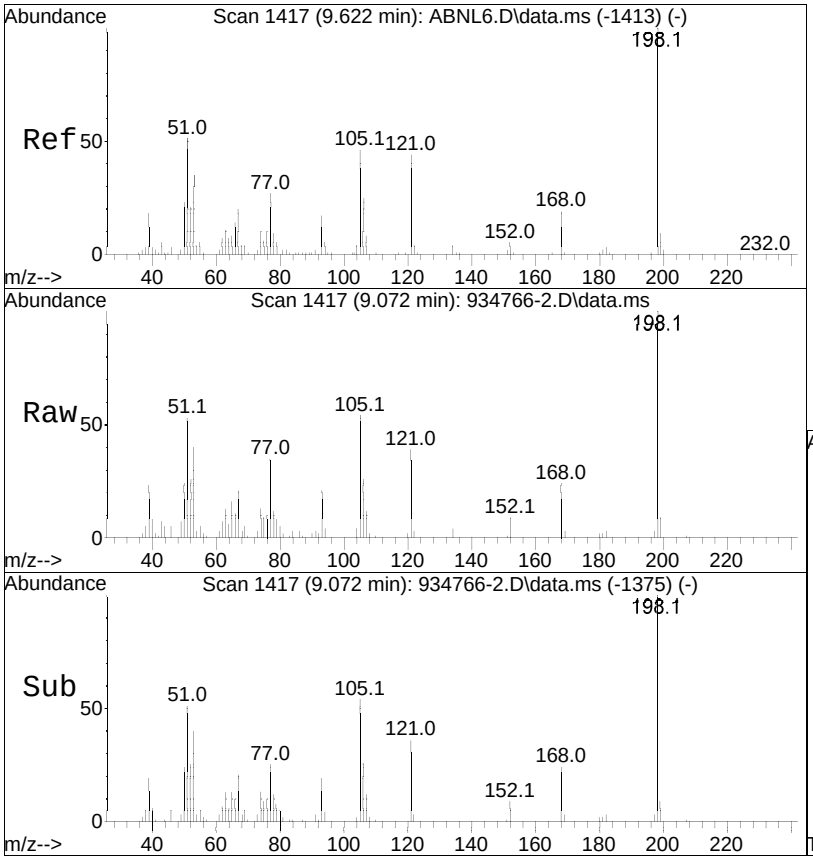


#74
4-Nitroaniline
Concen: 1.85 ug/ml
RT: 9.030 min Scan# 1410
Delta R.T. -0.012 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:138 Resp: 24267

Ion	Ratio	Lower	Upper
138	100		
108	106.6	52.1	78.1#
65	134.6	115.0	172.6

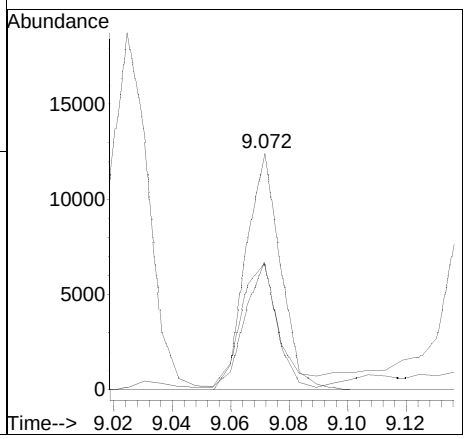


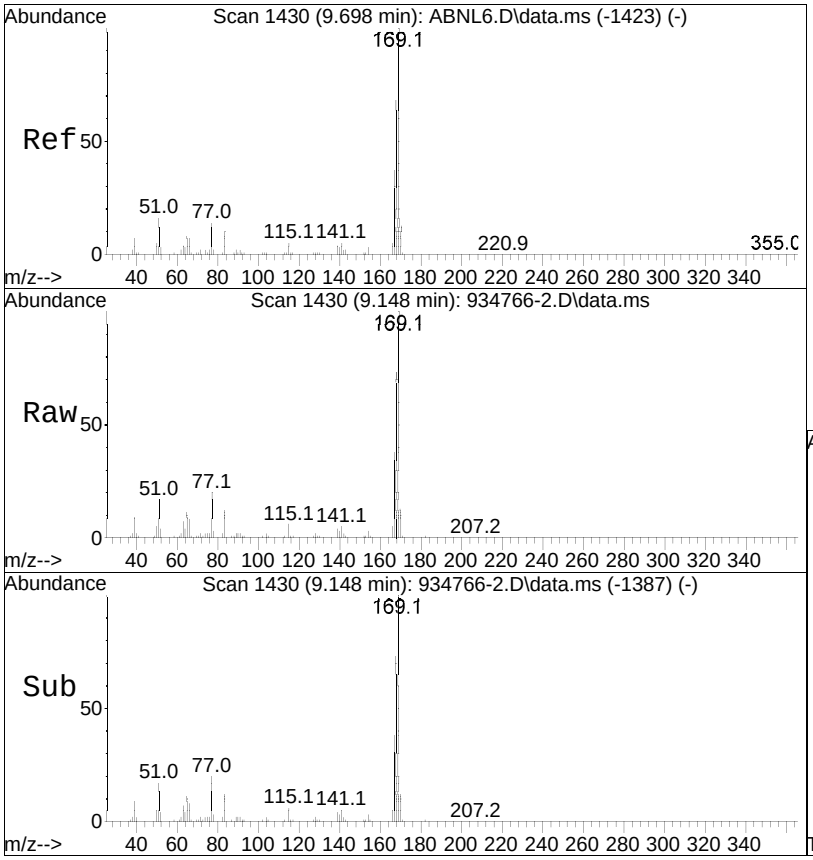


#75
4,6-Dinitro-o-cresol
Concen: 1.00 ug/ml
RT: 9.072 min Scan# 1417
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:198 Resp: 10291

Ion	Ratio	Lower	Upper
198	100		
51	58.5	76.0	114.0#
105	51.4	45.6	68.4

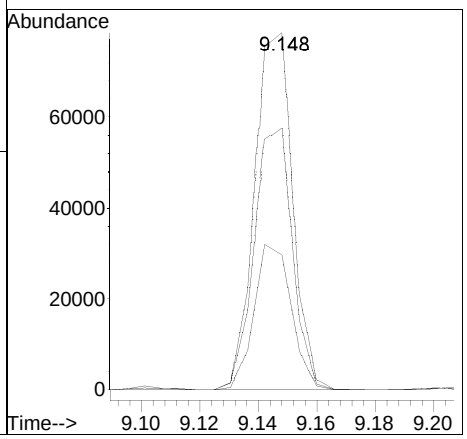


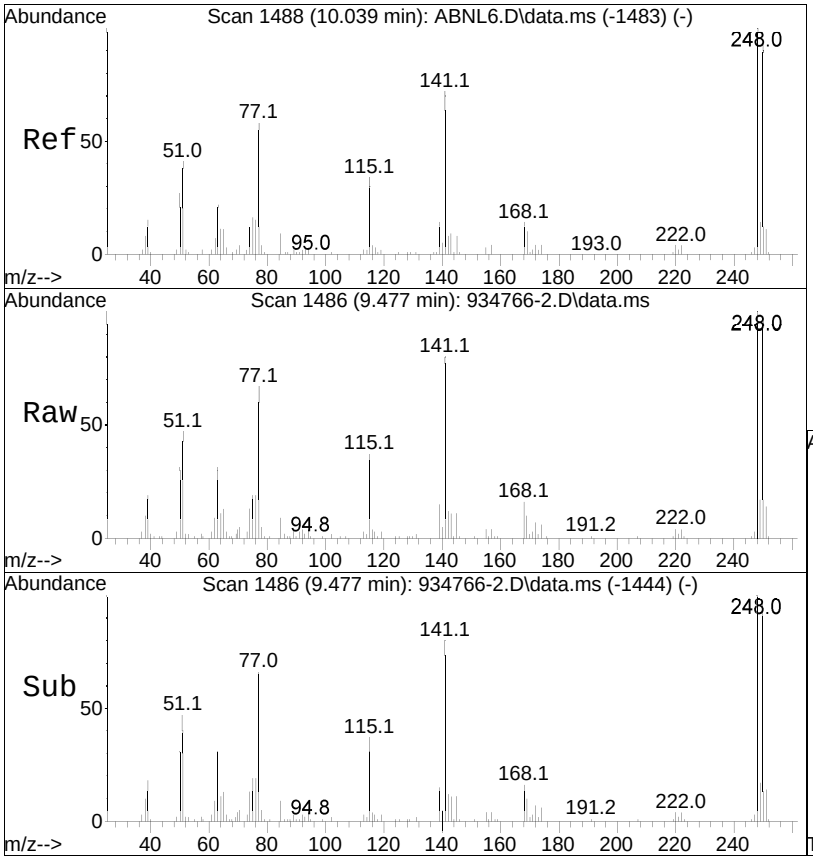


#76
NDPA/DPA
Concen: 1.39 ug/ml
RT: 9.148 min Scan# 1430
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:169 Resp: 71058

Ion	Ratio	Lower	Upper
169	100		
168	73.7	54.0	81.0
167	40.1	28.6	42.8

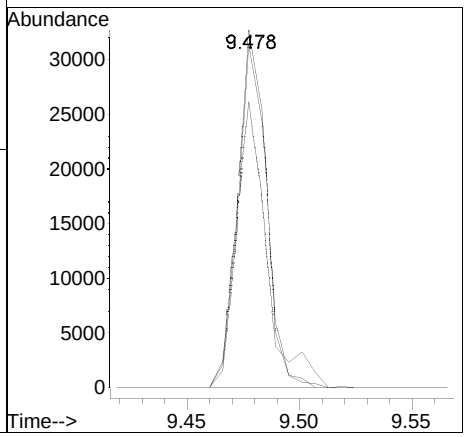


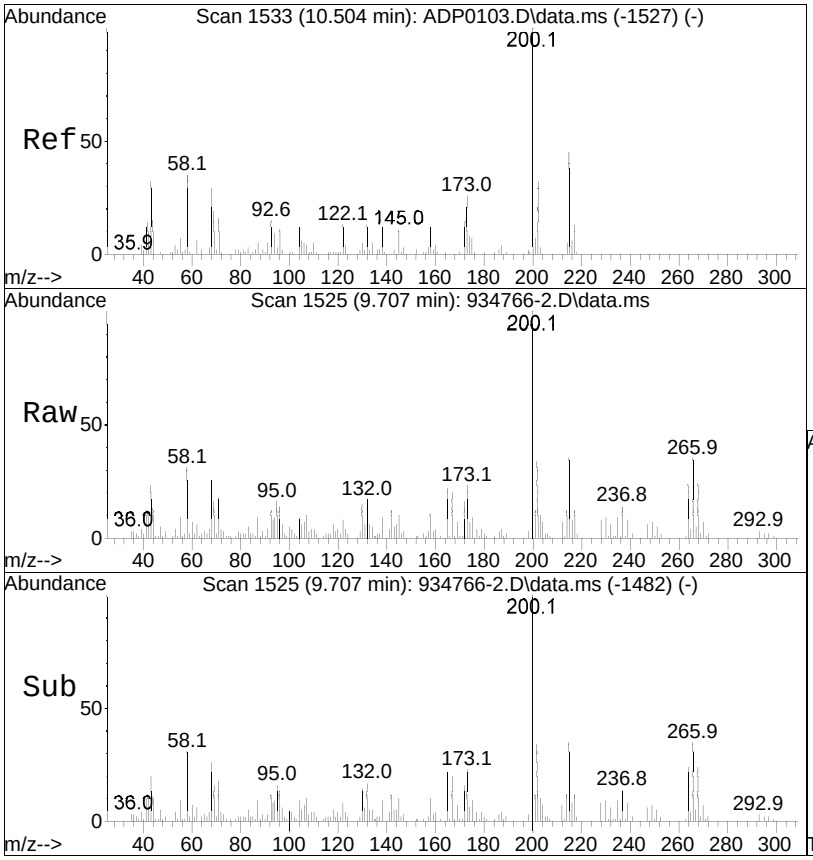


#79
4-Bromophenyl phenyl ether
Concen: 1.46 ug/ml
RT: 9.477 min Scan# 1486
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:248 Resp: 28472

Ion	Ratio	Lower	Upper
248	100		
141	87.7	76.6	114.8
250	96.4	77.3	115.9

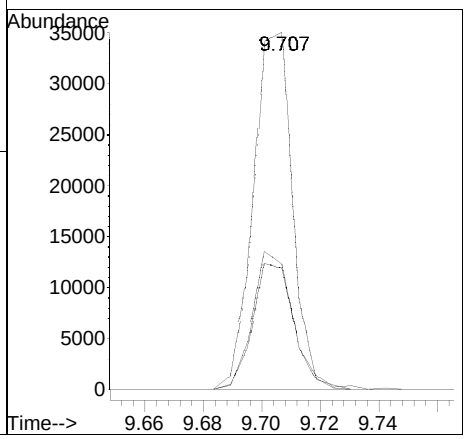


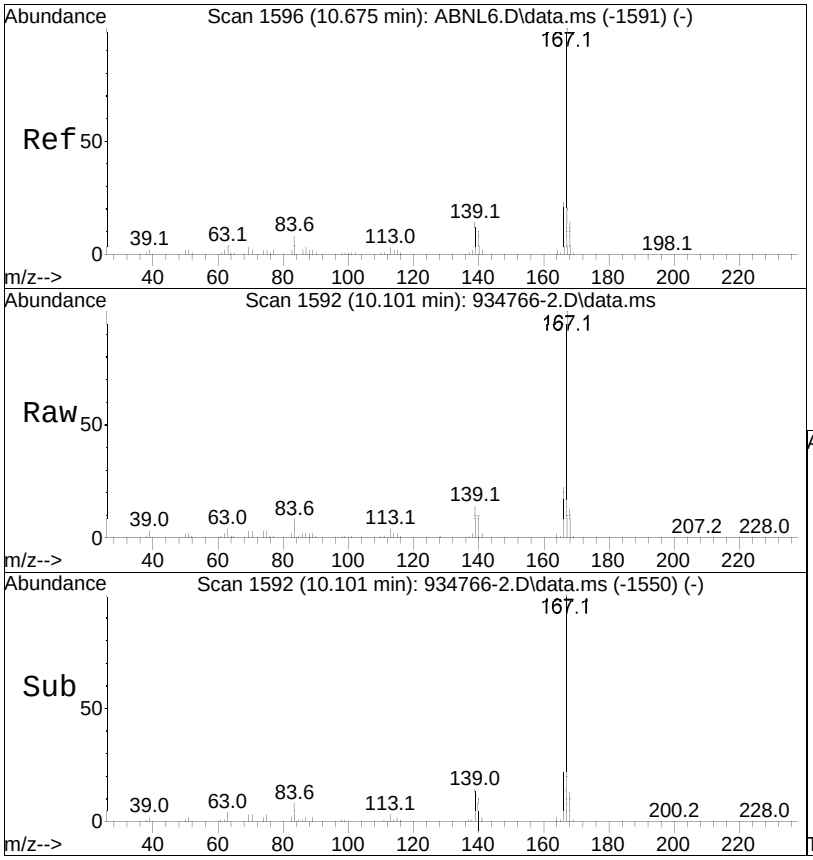


#86
Atrazine
Concen: 1.75 ug/ml
RT: 9.707 min Scan# 1525
Delta R.T. -0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:200 Resp: 32260

Ion	Ratio	Lower	Upper
200	100		
202	37.6	25.8	38.6
215	40.4	40.2	60.4

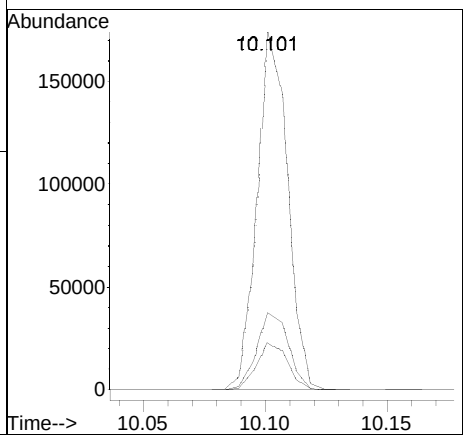


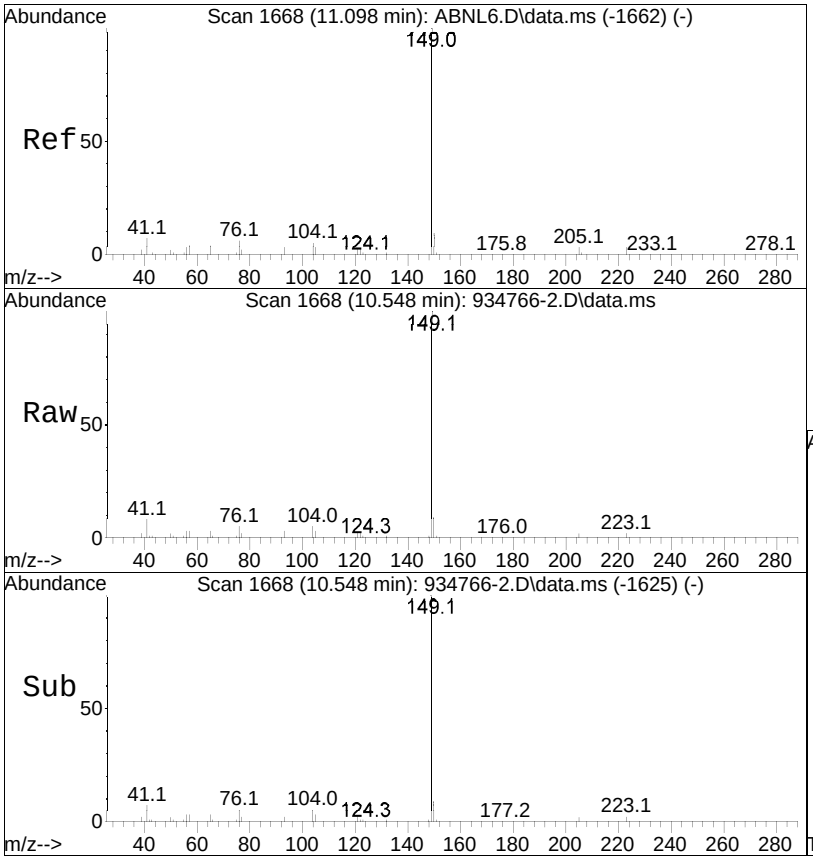


#90
Carbazole
Concen: 1.67 ug/ml
RT: 10.101 min Scan# 1592
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:167 Resp: 149630

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.7	17.4	26.0

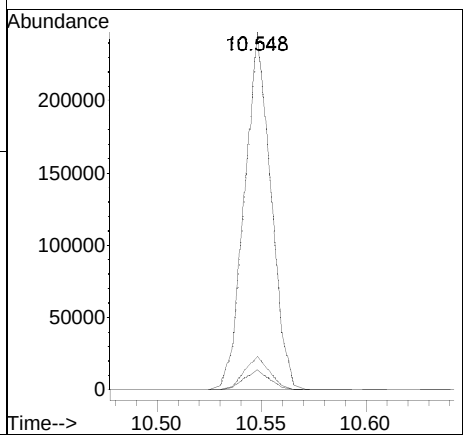


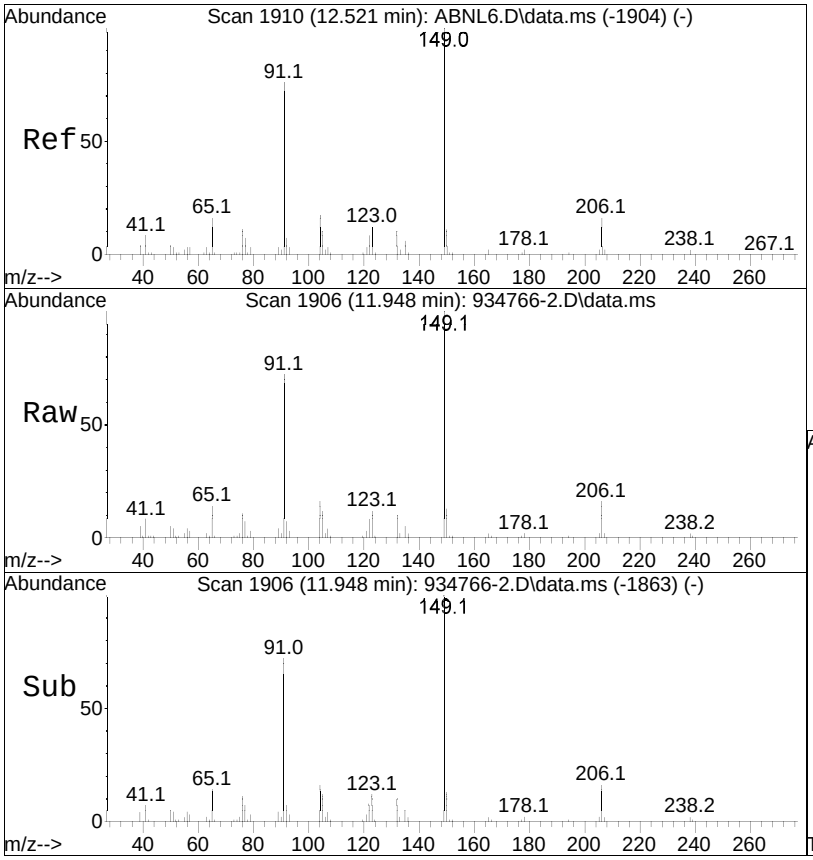


#91
Di-n-butylphthalate
Concen: 1.96 ug/ml
RT: 10.548 min Scan# 1668
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:149 Resp: 214536

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	5.5	4.5	6.7

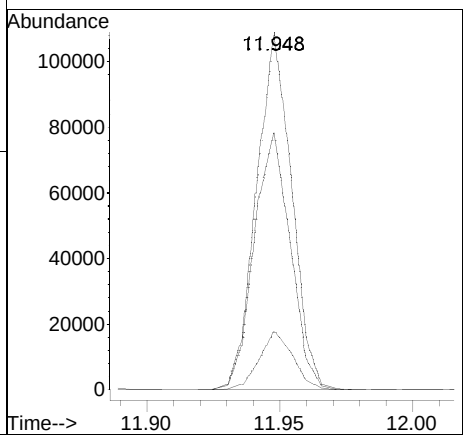


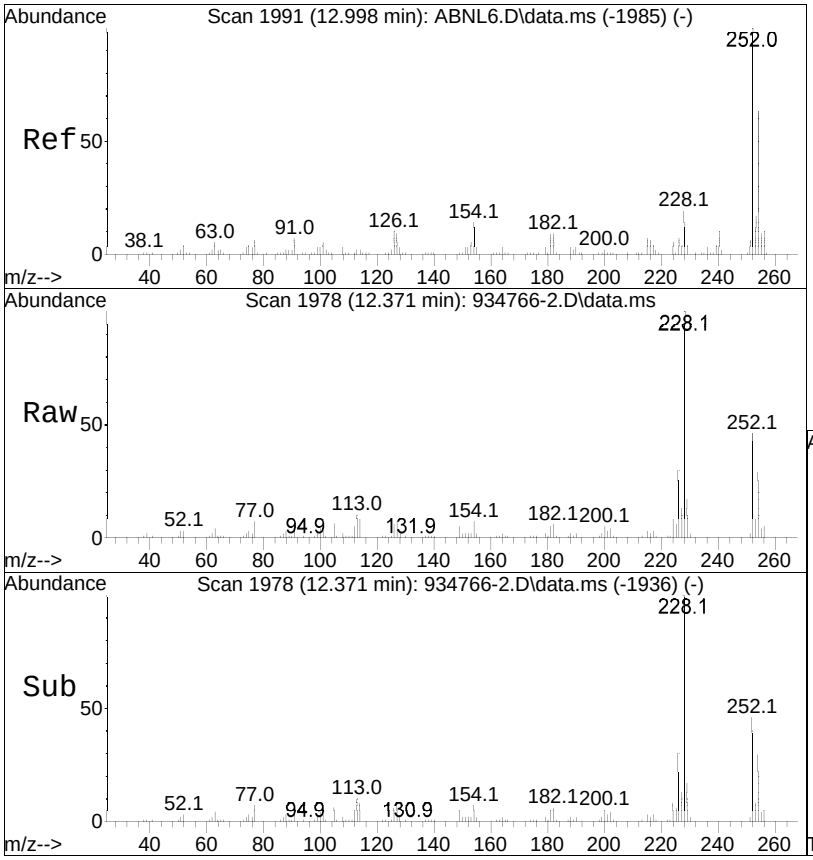


#96
Butyl benzyl phthalate
Concen: 2.13 ug/ml
RT: 11.948 min Scan# 1906
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:149 Resp: 99078

Ion	Ratio	Lower	Upper
149	100		
91	74.2	63.3	94.9
206	15.8	13.9	20.9

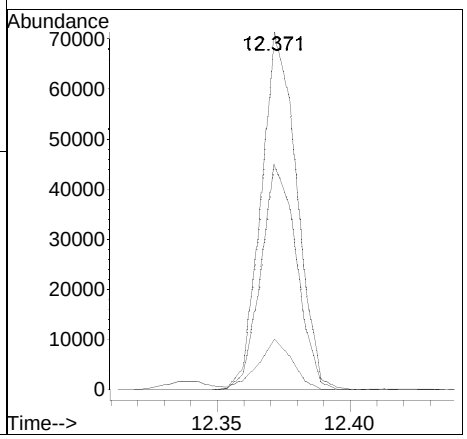


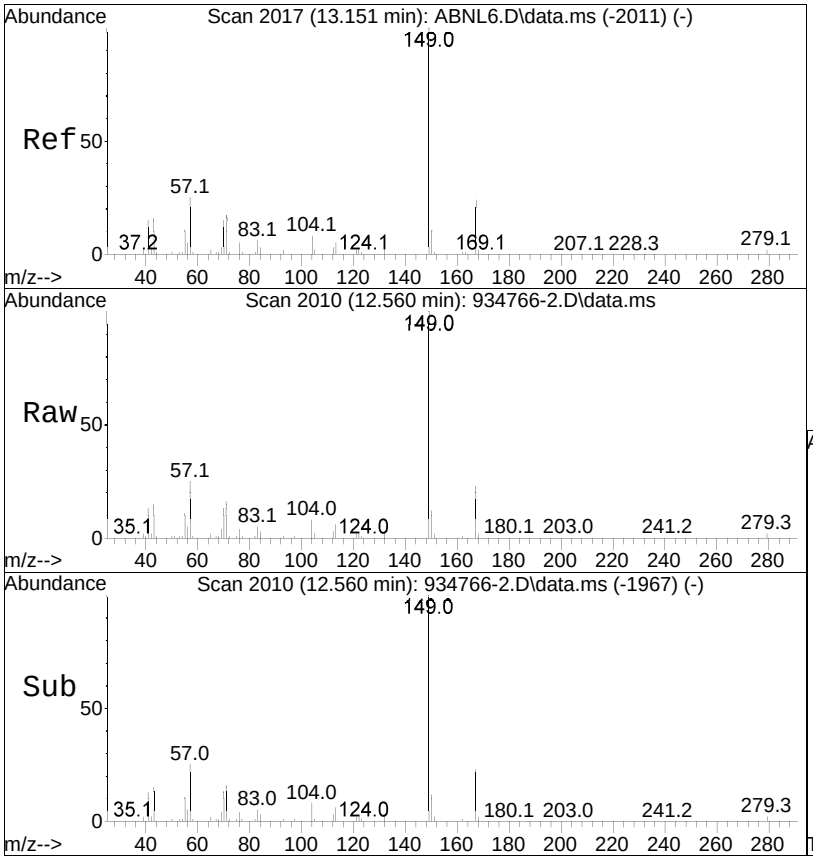


#105
3,3'-Dichlorobenzidine
Concen: 1.68 ug/ml
RT: 12.371 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:252 Resp: 65689

Ion	Ratio	Lower	Upper
252	100		
126	13.7	14.5	21.7#
254	63.3	51.2	76.8

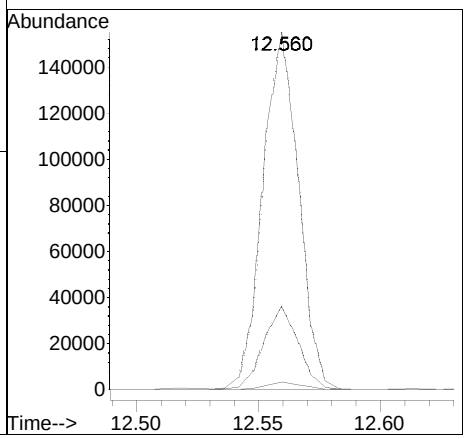


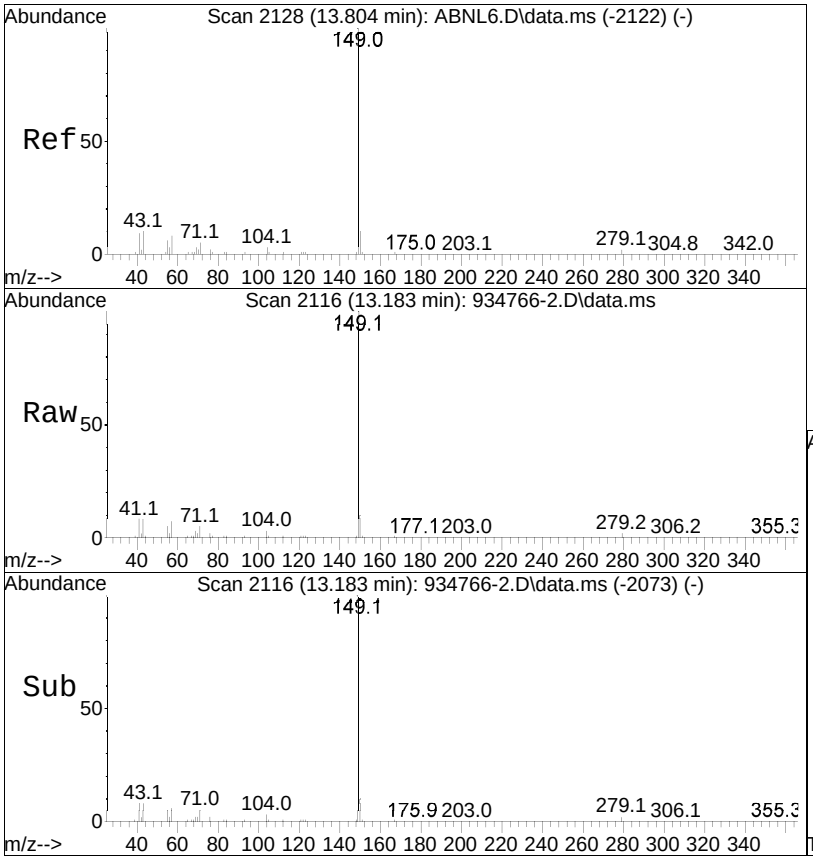


#107
Bis(2-ethylhexyl)phthalate
Concen: 2.32 ug/ml
RT: 12.560 min Scan# 2010
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:149 Resp: 156552

Ion	Ratio	Lower	Upper
149	100		
167	22.8	22.1	33.1
279	1.9	3.0	4.4#

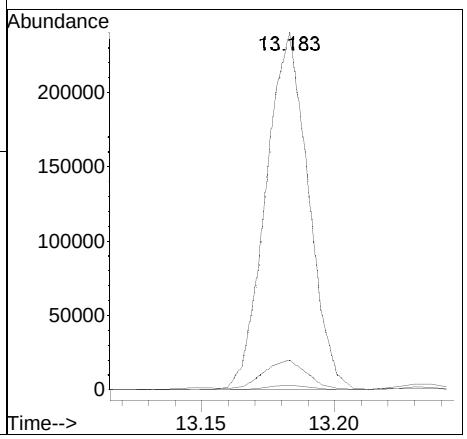




#108
Di-n-octylphthalate
Concen: 2.39 ug/ml
RT: 13.183 min Scan# 2116
Delta R.T. 0.000 min
Lab File: 934766-2.D
Acq: 17 Jun 2024 10:20 am

Tgt Ion:149 Resp: 264619

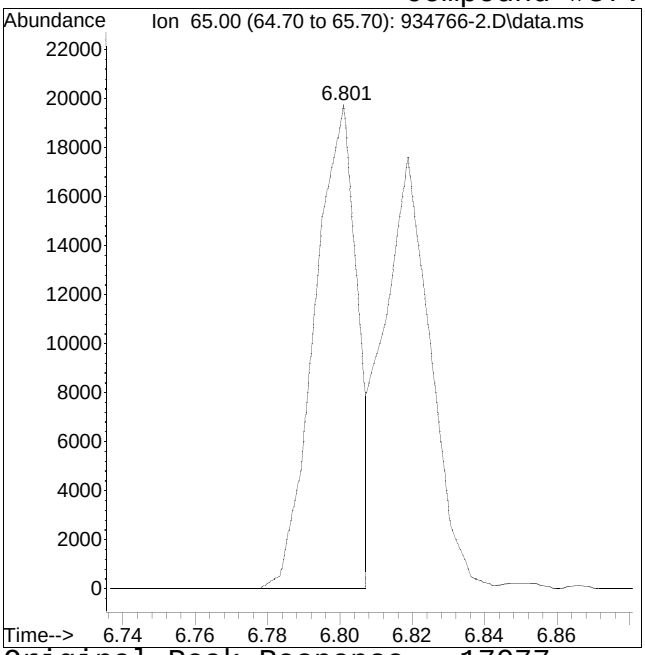
Ion	Ratio	Lower	Upper
149	100		
43	9.2	18.8	28.2#
167	1.3	1.3	1.9

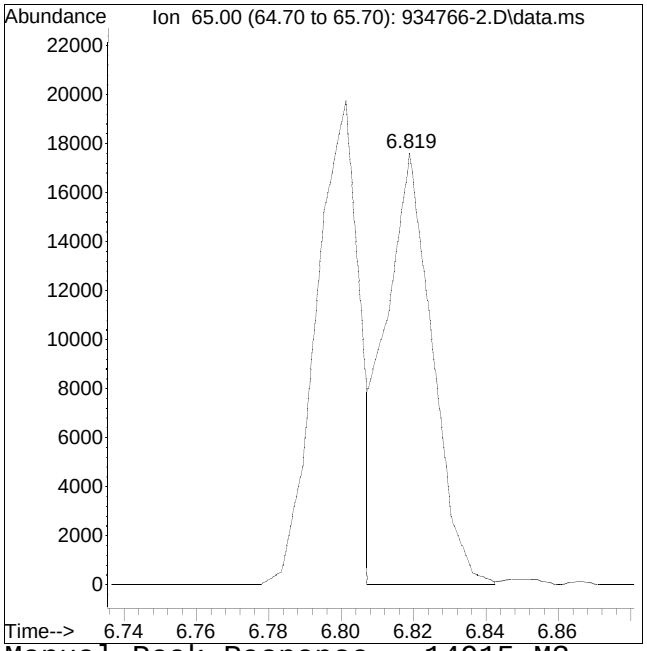


Manual Integration Report

Data Path	: I:\8270\SV106\240617RVT\	QMethod	: FS240418SV106.m
Data File	: 934766-2.D	Operator	: SV106:sz
Date Inj'd	: 6/17/2024 10:20 am	Instrument	: SV 106
Sample	: WG1934773-2,32,,HNY	Quant Date	: 6/17/2024 12:29 pm

Compound #37: 4-Chloroaniline





Original Peak Response = 17077 Manual Peak Response = 14915 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-3.D
Acq On : 17 Jun 2024 10:44 am
Operator : SV106:sz
Sample : WG1934773-3,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 12:34:39 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.931	152	82314	4.000	ug/ml	0.00
Standard Area 1 = 84755			Recovery = 97.12%			
27) IS2_1,4-Dichlorobenzen...	4.931	152	82314	4.000	ug/ml	0.00
Standard Area 3 = 73522			Recovery = 111.96%			
32) IS3_1,4-Dichlorobenzen...	4.931	152	82314	4.000	ug/ml	0.00
Standard Area 2 = 71151			Recovery = 115.69%			
34) IS1_Naphthalene-d8	6.666	136	300199	4.000	ug/ml	# 0.00
Standard Area 1 = 322983			Recovery = 92.95%			
54) IS2_Naphthalene-d8	6.666	136	300199	4.000	ug/ml	# 0.00
Standard Area 3 = 271609			Recovery = 110.53%			
62) IS1_Acenaphthene-d10	8.454	164	193833	4.000	ug/ml	0.00
Standard Area 1 = 215292			Recovery = 90.03%			
82) IS2_Acenaphthene-d10	8.454	164	193833	4.000	ug/ml	0.00
Standard Area 3 = 175707			Recovery = 110.32%			
85) IS3_Acenaphthene-d10	8.454	164	193833	4.000	ug/ml	0.00
Standard Area 2 = 161219			Recovery = 120.23%			
87) IS1_Phenanthrene-d10	9.848	188	419381	4.000	ug/ml	0.00
Standard Area 1 = 459399			Recovery = 91.29%			
99) IS3_Phenanthrene-d10	9.848	188	419381	4.000	ug/ml	0.00
Standard Area 2 = 350424			Recovery = 119.68%			
103) IS1_Chrysene-d12	12.342	240	365075	4.000	ug/ml	0.00
Standard Area 1 = 399251			Recovery = 91.44%			
112) IS1_Perylene-d12	13.677	264	398892	4.000	ug/ml	0.00
Standard Area 1 = 419339			Recovery = 95.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.049	112	25339	1.089	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 54.45%			
7) Phenol-d6	4.501	99	28165	0.937	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.85%			
19) Nitrobenzene-d5	5.825	82	23127	0.718	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.80%			
45) 2-Fluorobiphenyl	7.848	172	45251	0.650	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.00%			
78) 2,4,6-Tribromophenol	9.213	330	16078	1.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 77.95%			

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-3.D
Acq On : 17 Jun 2024 10:44 am
Operator : SV106:sz
Sample : WG1934773-3,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 12:34:39 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.419	244	68284	0.756	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 75.60%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.525	128	36259	1.433	ug/ml	99
8) Phenol	4.525	94	30285	0.945	ug/ml#	73
14) Bis(2-chloroisopropyl)...	5.548	45	47136	1.261	ug/ml#	75
15) 2-Methylphenol	5.584	108	32851	1.441	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.731	70	29688	1.395	ug/ml#	93
18) 3-Methylphenol/4-Methy...	5.819	108	34040	1.374	ug/ml#	99
20) Nitrobenzene	5.848	77	43051	1.390	ug/ml	94
21) Isophorone	6.195	82	82641	1.504	ug/ml#	90
22) 2-Nitrophenol	6.260	139	19594	1.530	ug/ml#	91
23) 2,4-Dimethylphenol	6.448	107	34463	1.328	ug/ml	93
24) Bis(2-chloroethoxy)met...	6.537	93	51776	1.502	ug/ml#	96
25) 2,4-Dichlorophenol	6.572	162	35074	1.483	ug/ml	94
28) Benzaldehyde	3.819	105	30487	1.352	ug/ml	100
29) Acetophenone	5.648	105	59554	1.461	ug/ml#	83
37) 4-Chloroaniline	6.819	65	15217M3	1.268	ug/ml	
39) p-Chloro-m-cresol	7.413	107	38073	1.552	ug/ml	97
42) Hexachlorocyclopentadiene	7.631	237	17712	0.864	ug/ml	98
43) 2,4,6-Trichlorophenol	7.766	196	30417	1.526	ug/ml	98
44) 2,4,5-Trichlorophenol	7.795	196	31827	1.466	ug/ml	99
47) 2-Nitroaniline	8.054	138	26748	1.657	ug/ml	97
50) Dimethyl phthalate	8.289	163	115586	1.568	ug/ml#	97
52) 2,6-Dinitrotoluene	8.319	165	24716	1.670	ug/ml#	87
59) Caprolactam	7.154	55	9180	0.695	ug/ml#	62
60) 1,2,4,5-Tetrachloroben...	7.619	216	34480	0.998	ug/ml	96
61) Biphenyl	7.931	154	82401	1.218	ug/ml	98
63) 3-Nitroaniline	8.460	138	24426	1.721	ug/ml#	88
65) 2,4-Dinitrophenol	8.560	184	7084	1.077	ug/ml	96
66) Dibenzofuran	8.654	168	113216	1.347	ug/ml	98
67) 2,4-Dinitrotoluene	8.695	165	32315	1.674	ug/ml	98
68) 4-Nitrophenol	8.695	65	15196	0.998	ug/ml#	78
71) Diethyl phthalate	8.978	149	123498	1.766	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.025	204	47048	1.354	ug/ml	92
74) 4-Nitroaniline	9.031	138	24320	1.750	ug/ml#	84

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-3.D
Acq On : 17 Jun 2024 10:44 am
Operator : SV106:sz
Sample : WG1934773-3,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 12:34:39 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240617RVT\ABN0617.D
: 2 - I:\8270\sv106\240617RVT\ADP0617.D
: 3 - I:\8270\sv106\240617RVT\AP90617.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4,6-Dinitro-o-cresol	9.072	198	15436	1.419	ug/ml#	72
76) NDPA/DPA	9.148	169	83329	1.533	ug/ml	97
79) 4-Bromophenyl phenyl e...	9.478	248	29576	1.429	ug/ml	93
86) Atrazine	9.701	200	34622	1.773	ug/ml#	82
90) Carbazole	10.101	167	153076	1.633	ug/ml	100
91) Di-n-butylphthalate	10.548	149	224156	1.963	ug/ml	99
96) Butyl benzyl phthalate	11.948	149	103312	2.127	ug/ml	91
105) 3,3'-Dichlorobenzidine	12.371	252	71847	1.766	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	12.560	149	161294	2.304	ug/ml#	89
108) Di-n-octylphthalate	13.183	149	265768	2.317	ug/ml#	73

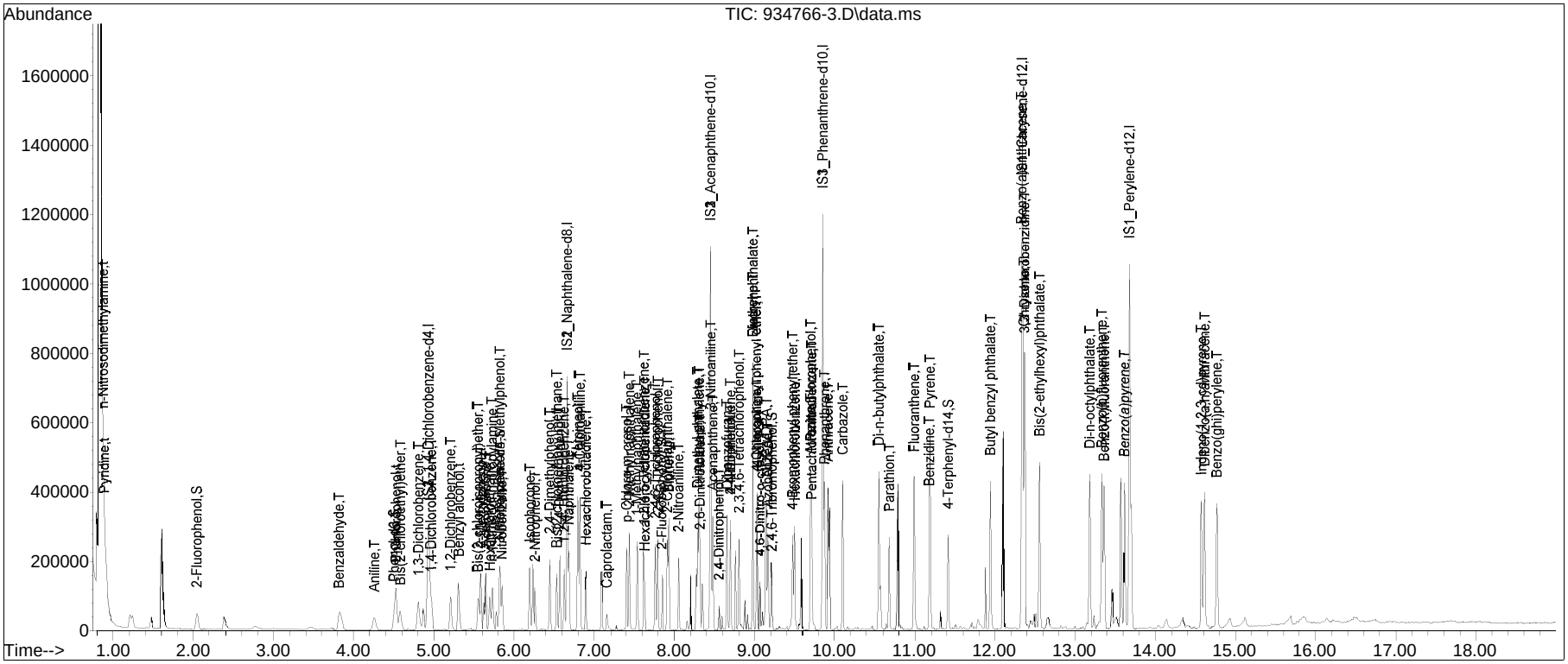
(#) = qualifier out of range (m) = manual integration (+) = signals summed

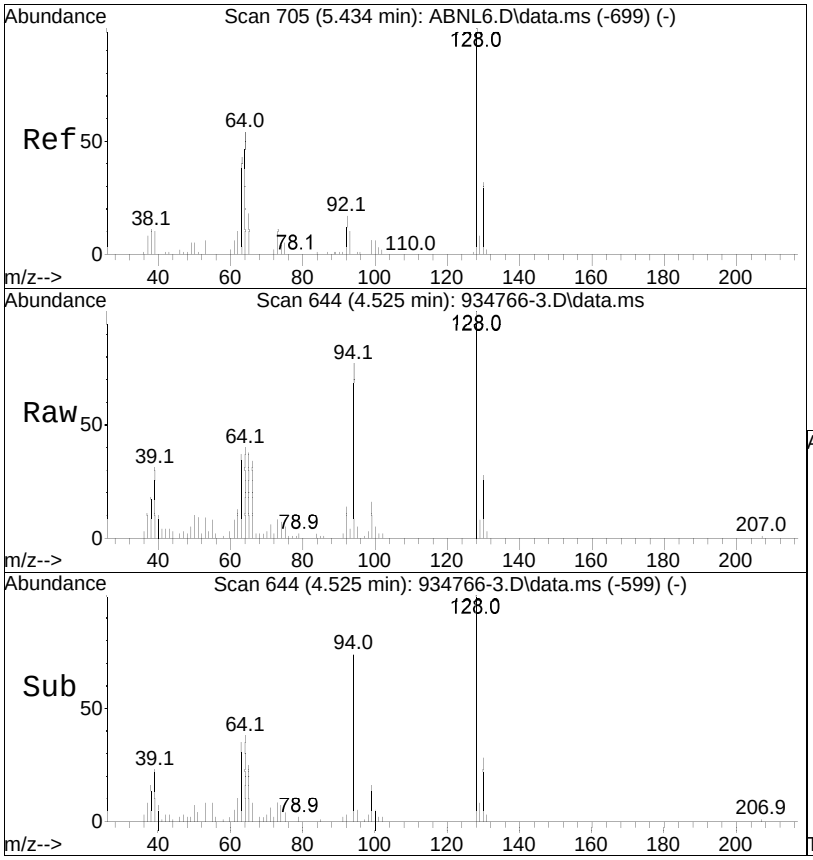
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-3.D
Acq On : 17 Jun 2024 10:44 am
Operator : SV106:sz
Sample : WG1934773-3,32,,HNY
Misc : WG1935225,WG1934773,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 12:34:39 2024
Quant Method : I:\8270\sv106\240617RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 12:25:42 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90617.D•

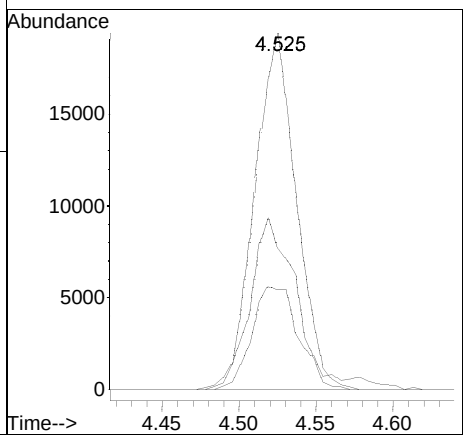


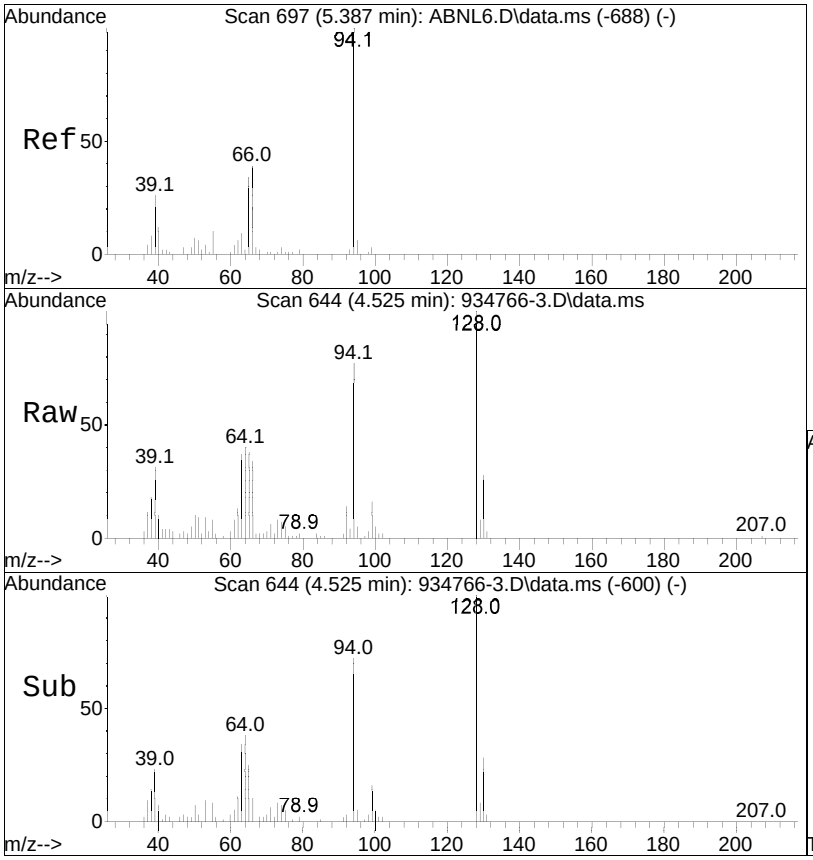


#6
2-Chlorophenol
Concen: 1.43 ug/ml
RT: 4.525 min Scan# 644
Delta R.T. 0.012 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:128 Resp: 36259

Ion	Ratio	Lower	Upper
128	100		
64	55.5	45.1	67.7
130	32.7	26.2	39.4

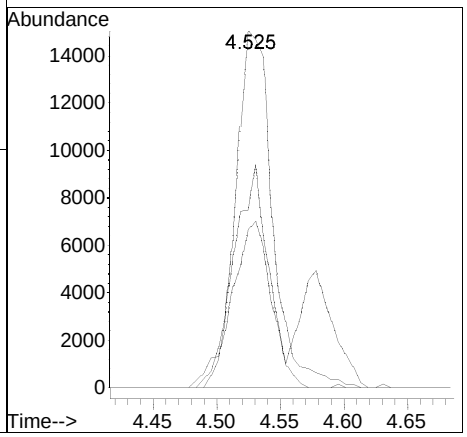


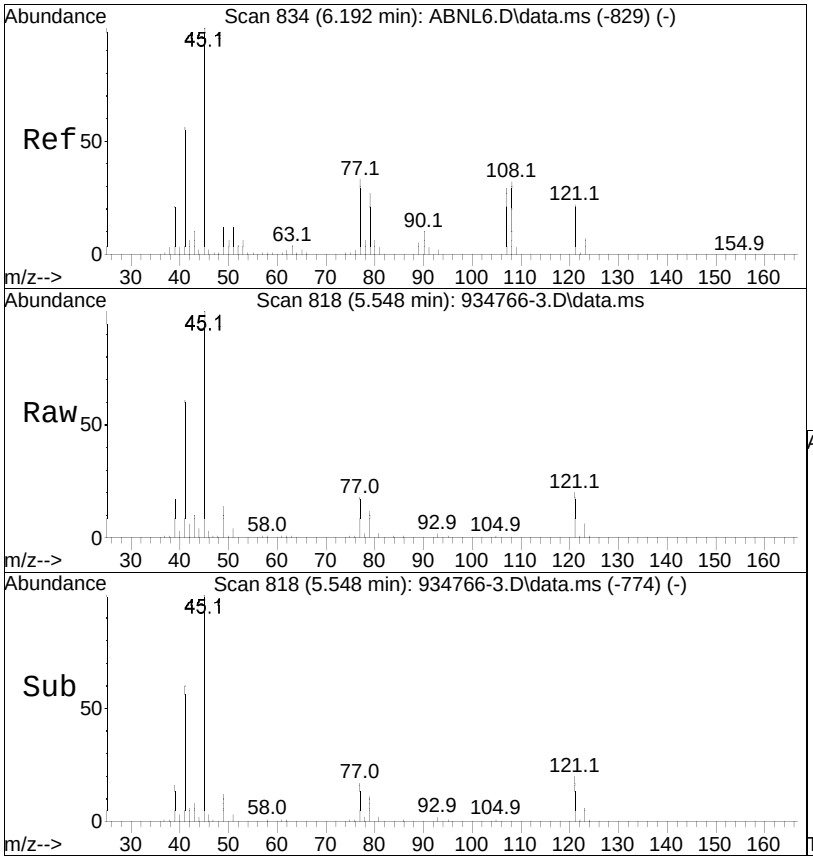


#8
Phenol
Concen: 0.95 ug/ml
RT: 4.525 min Scan# 644
Delta R.T. 0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 94 Resp: 30285

Ion	Ratio	Lower	Upper
94	100		
65	58.6	26.0	39.0#
66	50.0	33.8	50.8

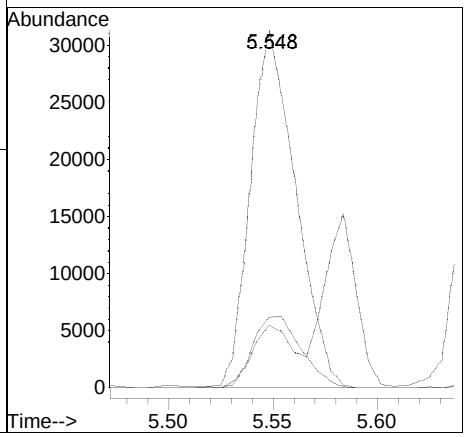


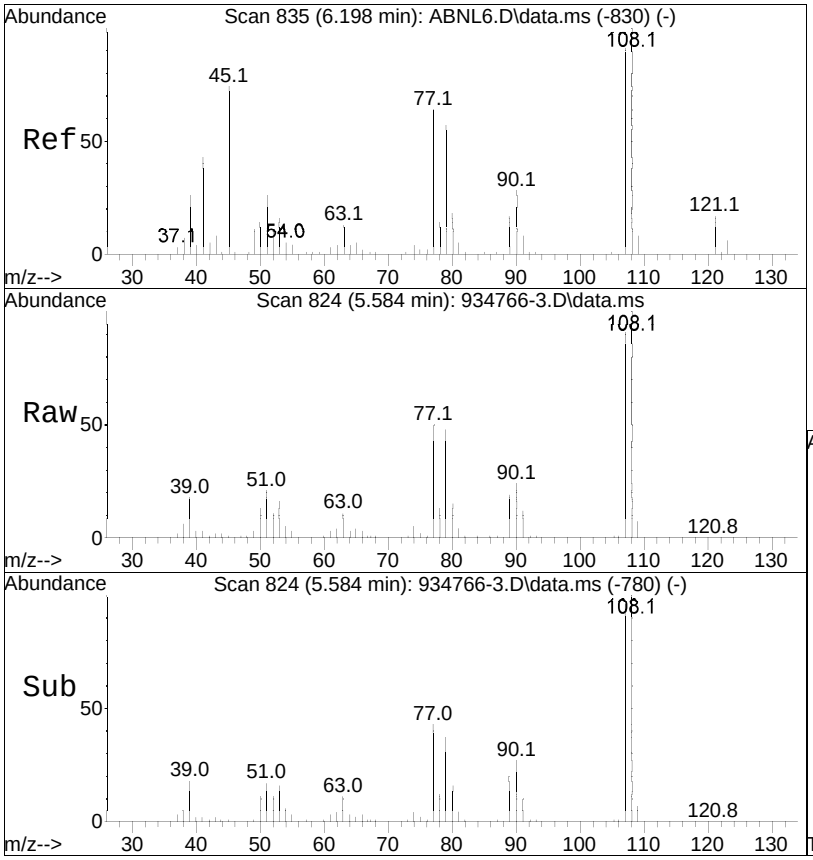


#14
Bis(2-chloroisopropyl)ether
Concen: 1.26 ug/ml
RT: 5.548 min Scan# 818
Delta R.T. 0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 45 Resp: 47136

Ion	Ratio	Lower	Upper
45	100		
121	21.4	9.8	14.6#
77	17.0	6.1	9.1#

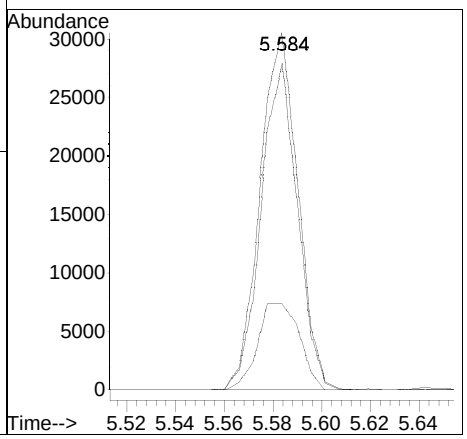


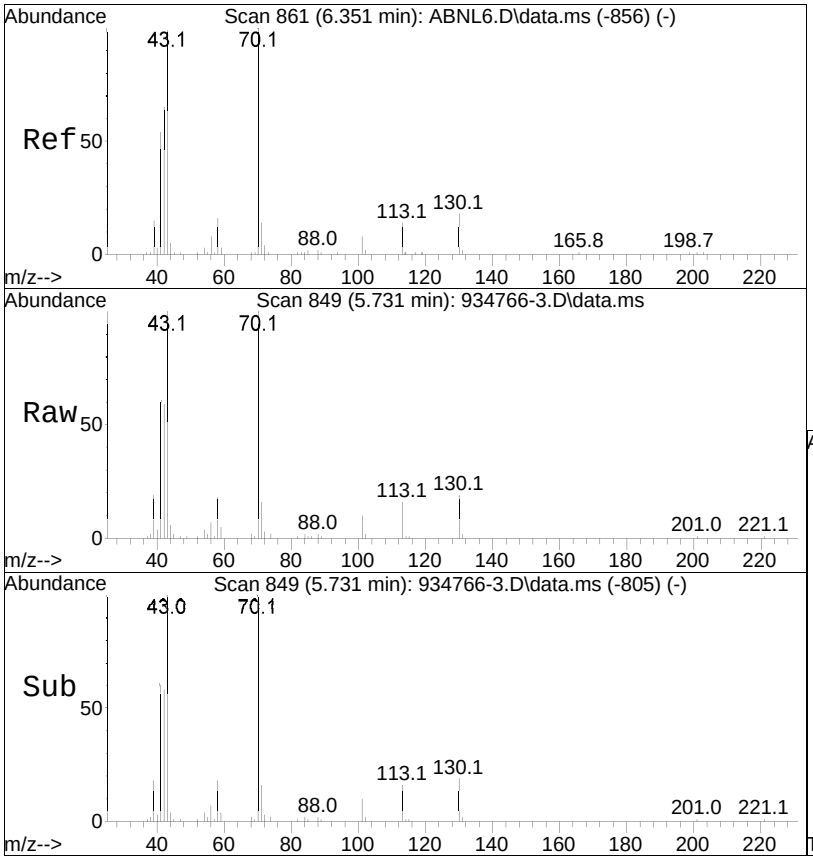


#15
2-Methylphenol
Concen: 1.44 ug/ml
RT: 5.584 min Scan# 824
Delta R.T. 0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:108 Resp: 32851

Ion	Ratio	Lower	Upper
108	100		
107	87.8	70.7	106.1
90	26.9	18.7	28.1

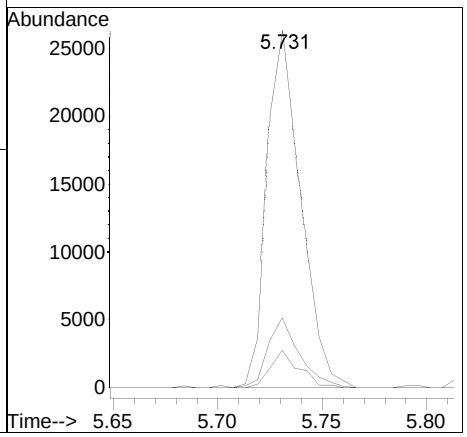


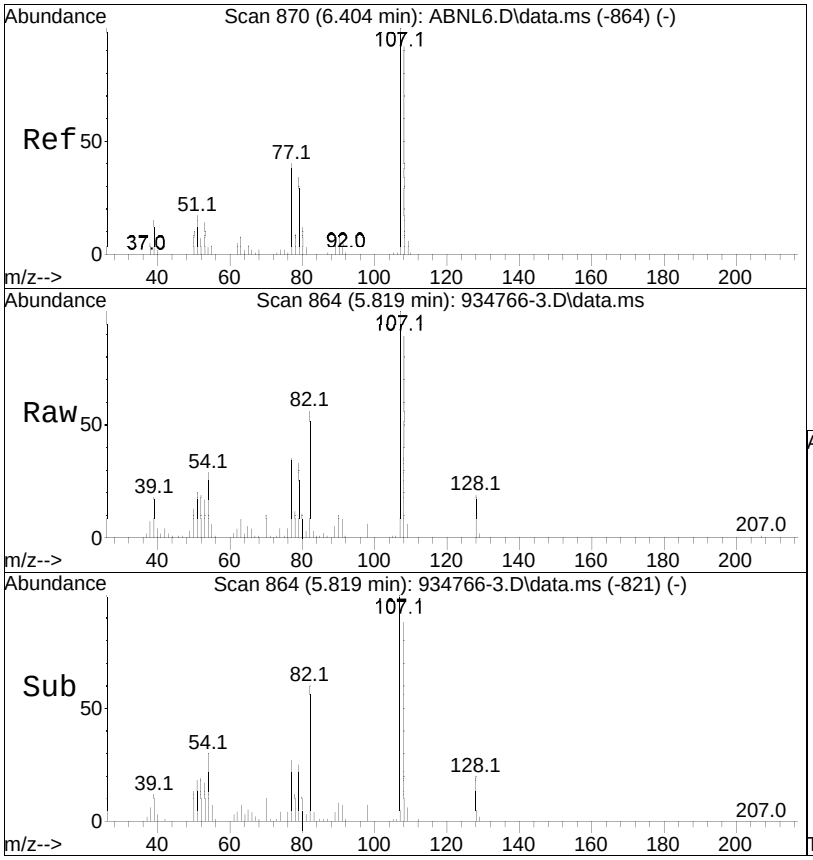


#17
n-Nitrosodi-n-propylamine
Concen: 1.39 ug/ml
RT: 5.731 min Scan# 849
Delta R.T. 0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 70 Resp: 29688

Ion	Ratio	Lower	Upper
70	100		
130	18.2	18.2	27.4#
101	8.9	7.8	11.8

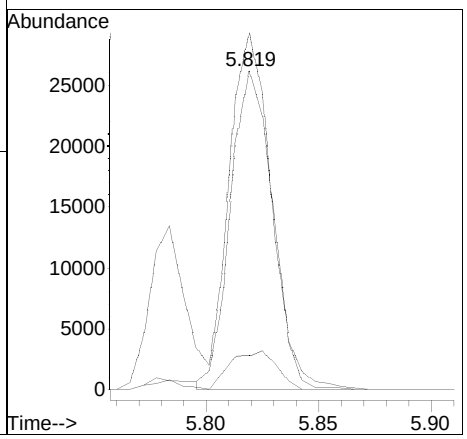


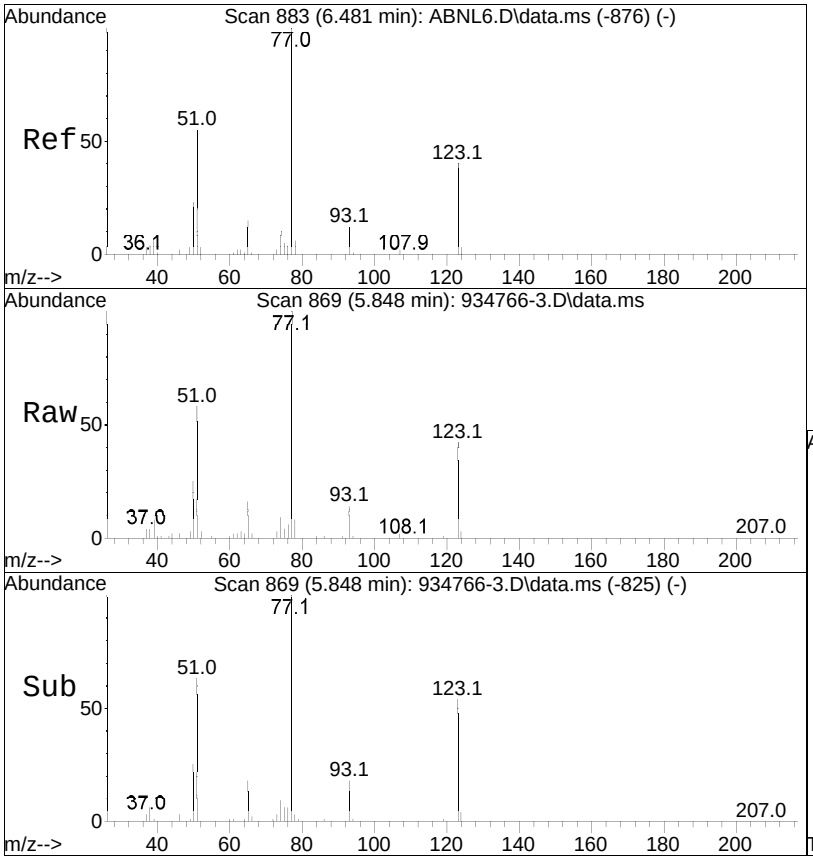


#18
3-Methylphenol/4-Methylphenol
Concen: 1.37 ug/ml
RT: 5.819 min Scan# 864
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:108 Resp: 34040

Ion	Ratio	Lower	Upper
108	100		
107	111.1	88.6	132.8
90	13.3	8.8	13.2#

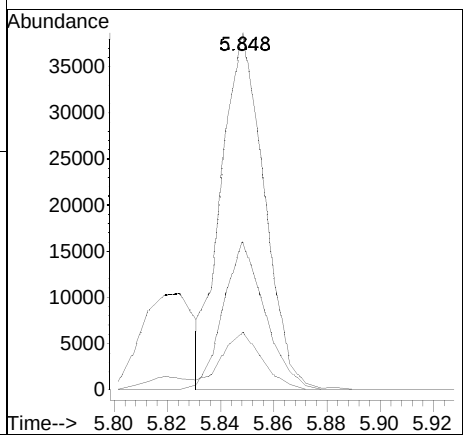


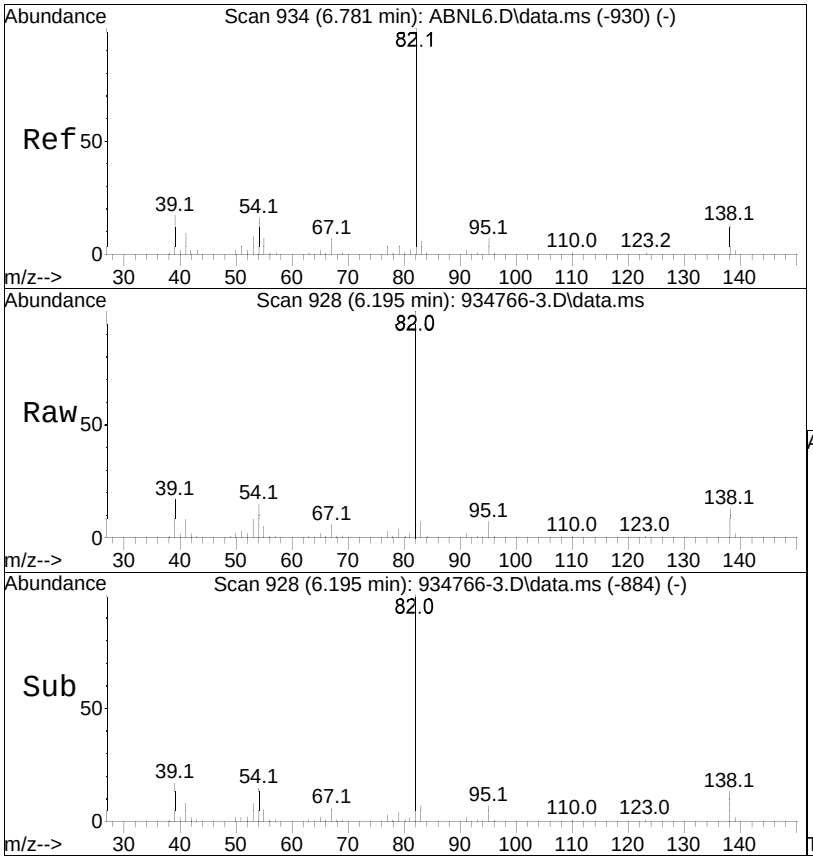


#20
Nitrobenzene
Concen: 1.39 ug/ml
RT: 5.848 min Scan# 869
Delta R.T. 0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 77 Resp: 43051

Ion	Ratio	Lower	Upper
77	100		
123	40.4	36.3	54.5
65	15.2	11.6	17.4

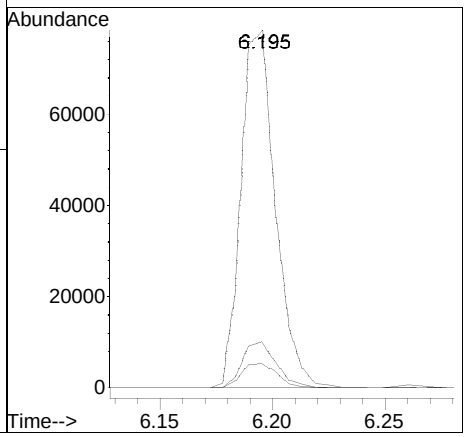


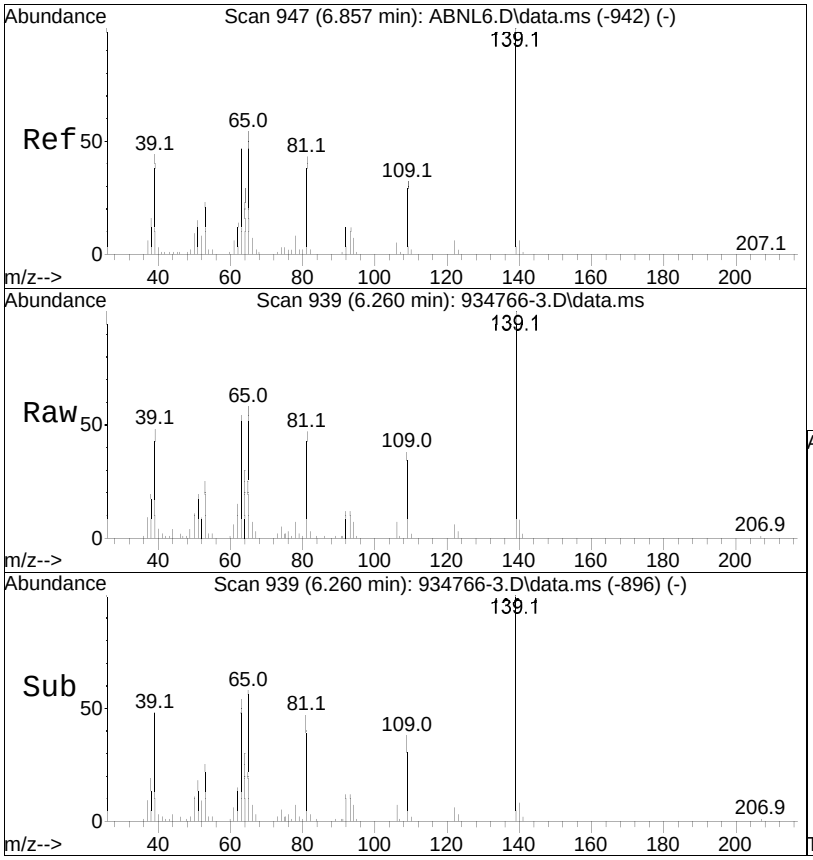


#21
Isophorone
Concen: 1.50 ug/ml
RT: 6.195 min Scan# 928
Delta R.T. 0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 82 Resp: 82641

Ion	Ratio	Lower	Upper
82	100		
138	12.9	14.7	22.1#
95	7.3	5.2	7.8

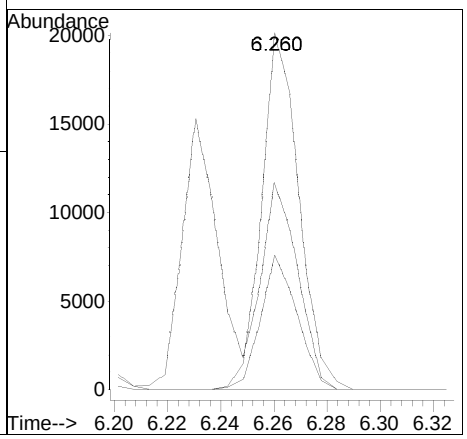


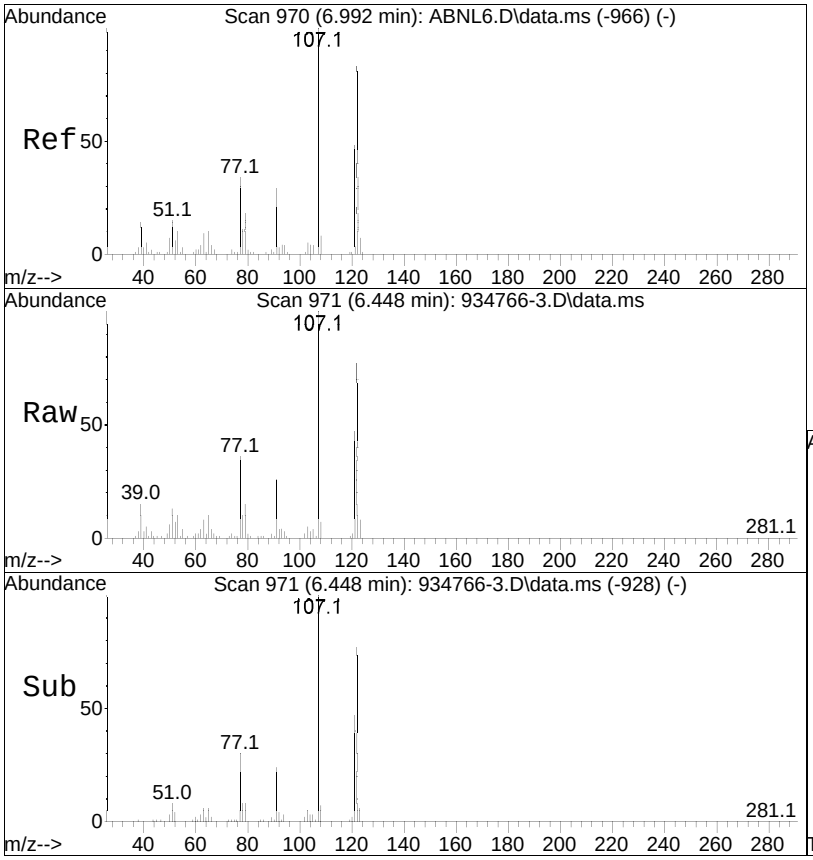


#22
2-Nitrophenol
Concen: 1.53 ug/ml
RT: 6.260 min Scan# 939
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:139 Resp: 19594

Ion	Ratio	Lower	Upper
139	100		
109	37.0	19.4	29.0#
65	56.2	46.1	69.1

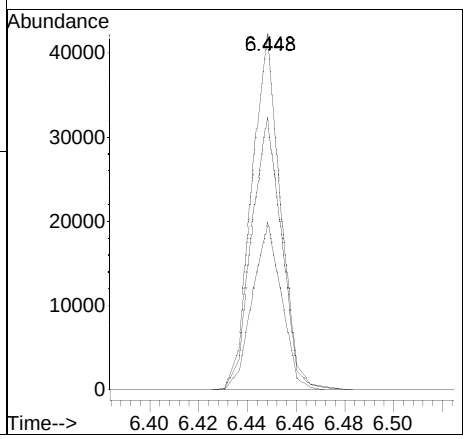


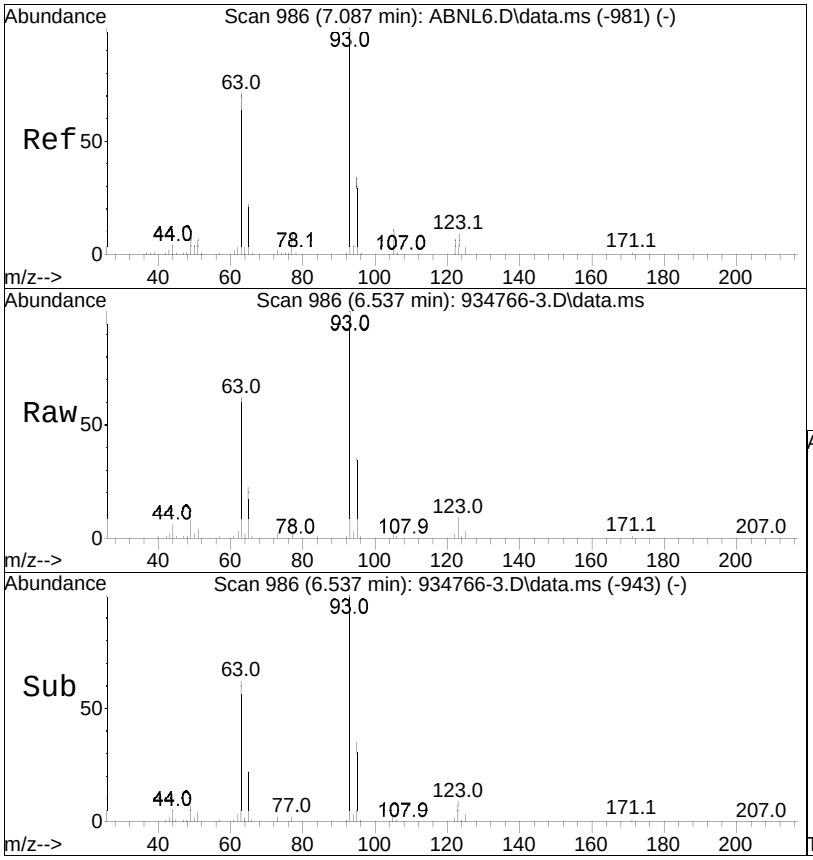


#23
2,4-Dimethylphenol
Concen: 1.33 ug/ml
RT: 6.448 min Scan# 971
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:107 Resp: 34463

Ion	Ratio	Lower	Upper
107	100		
121	47.5	40.0	60.0
122	79.5	70.2	105.4

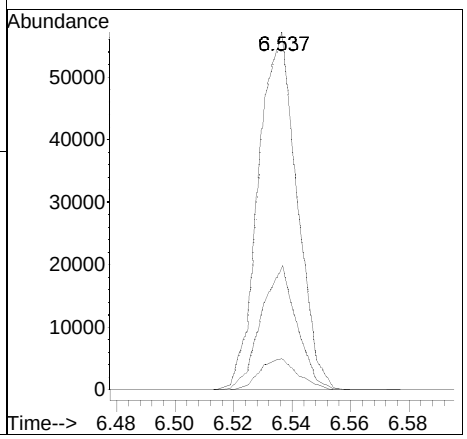


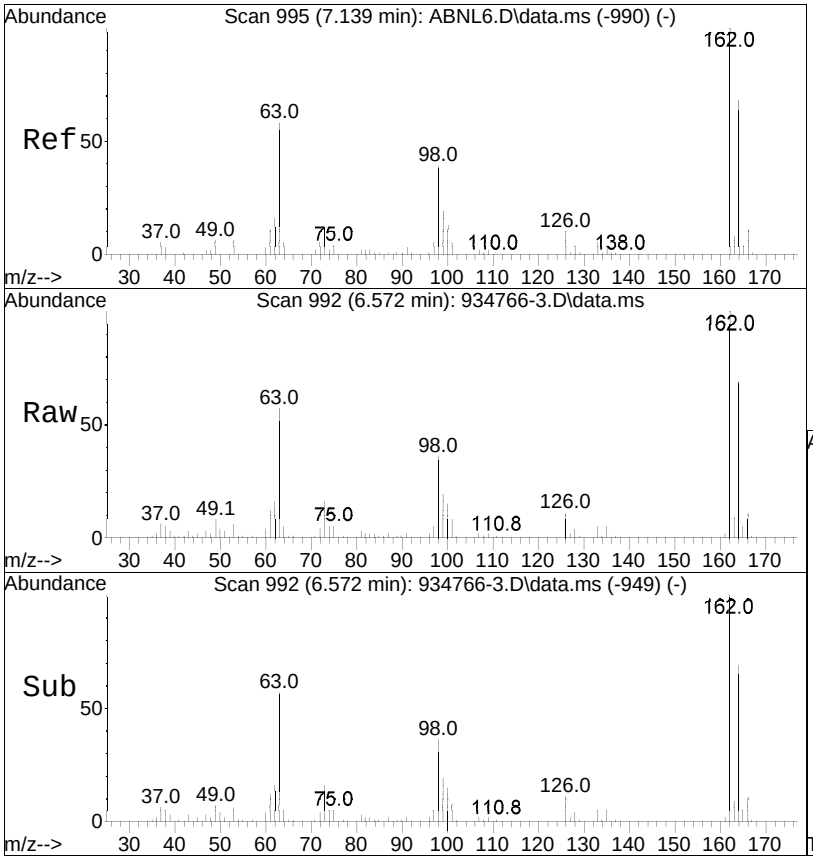


#24
Bis(2-chloroethoxy)methane
Concen: 1.50 ug/ml
RT: 6.537 min Scan# 986
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 93 Resp: 51776

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	8.8	10.1	15.1#

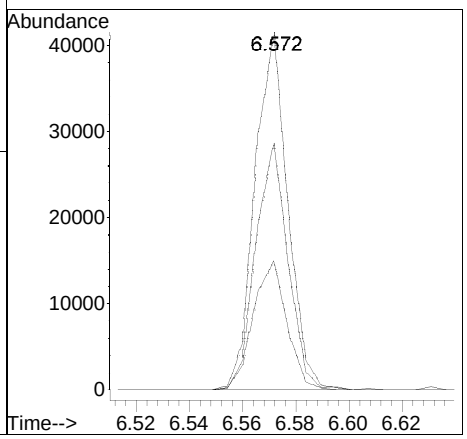


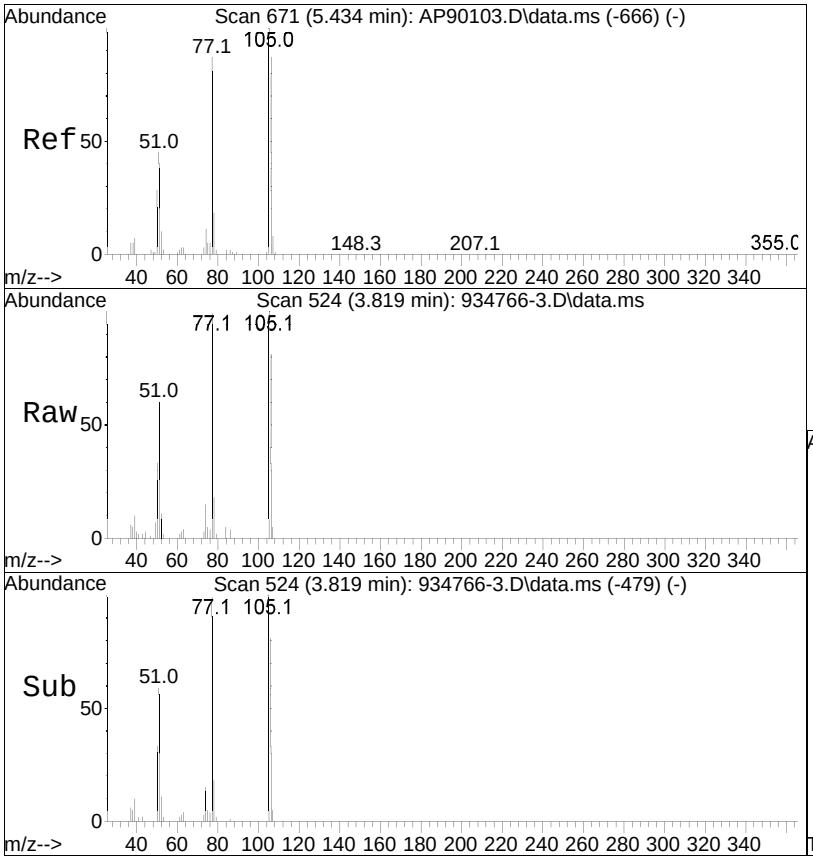


#25
2,4-Dichlorophenol
Concen: 1.48 ug/ml
RT: 6.572 min Scan# 992
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:162 Resp: 35074

Ion	Ratio	Lower	Upper
162	100		
164	68.3	51.0	76.4
98	37.2	32.2	48.2

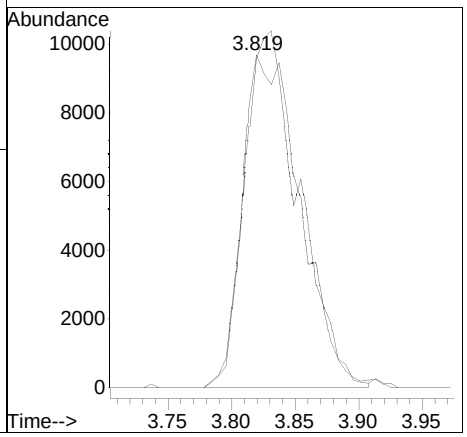


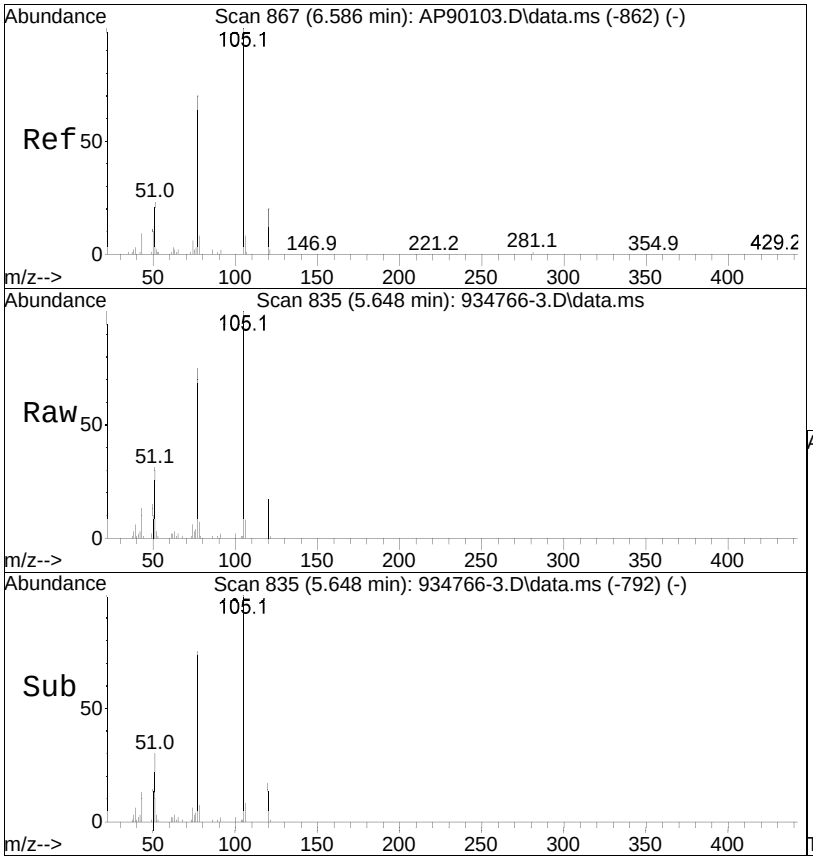


#28
Benzaldehyde
Concen: 1.35 ug/ml
RT: 3.819 min Scan# 524
Delta R.T. 0.012 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:105 Resp: 30487

Ion	Ratio	Lower	Upper
105	100		
77	102.6	82.2	123.4

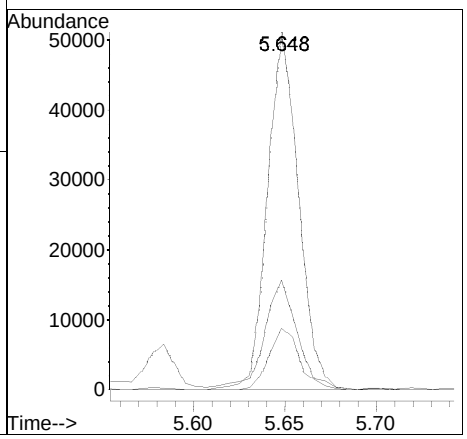


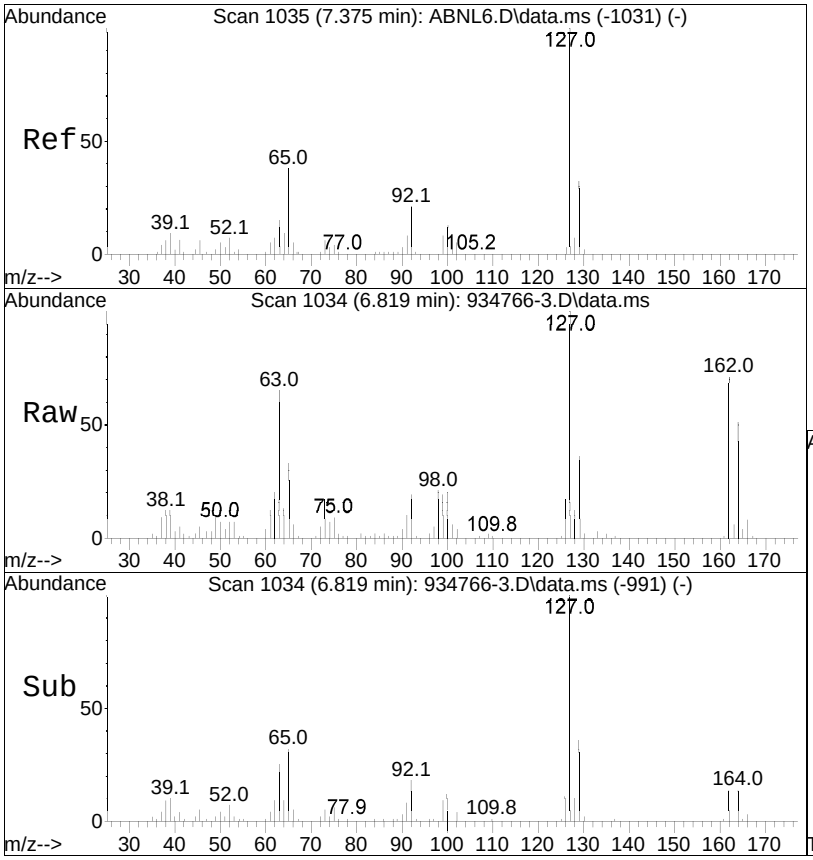


#29
Acetophenone
Concen: 1.46 ug/ml
RT: 5.648 min Scan# 835
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:105 Resp: 59554

Ion	Ratio	Lower	Upper
105	100		
120	17.1	20.5	30.7#
51	33.1	34.9	52.3#

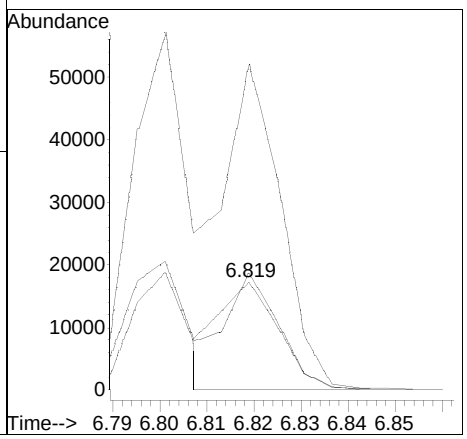


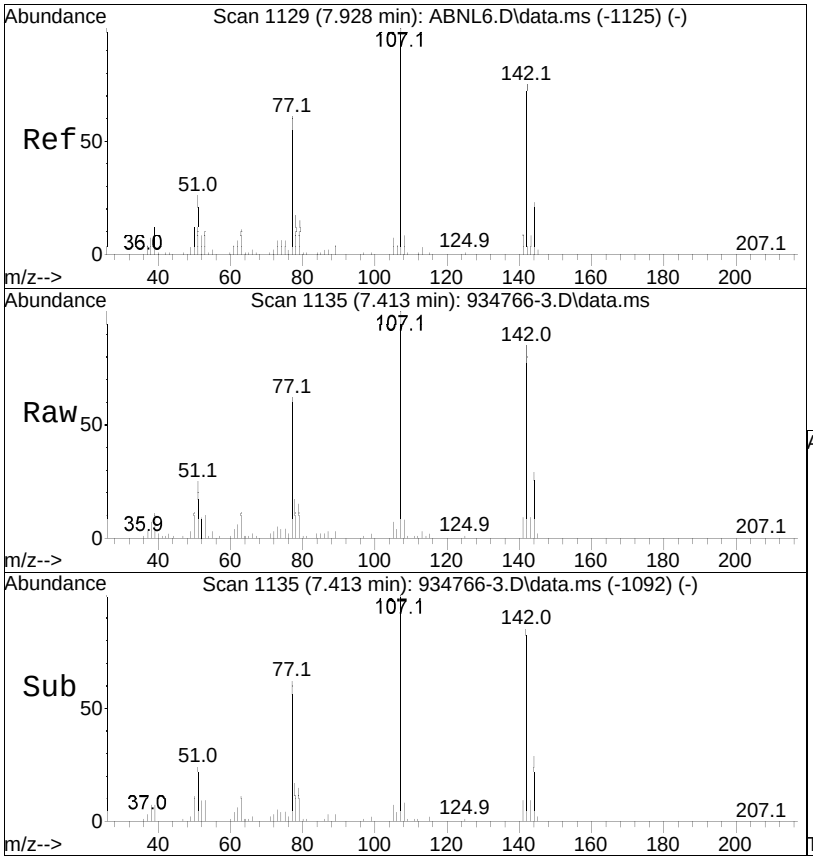


#37
4-Chloroaniline
Concen: 1.27 ug/ml M3
RT: 6.819 min Scan# 1034
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 65 Resp: 15217

Ion	Ratio	Lower	Upper
65	100		
127	307.3	237.6	356.4
129	99.9	76.3	114.5

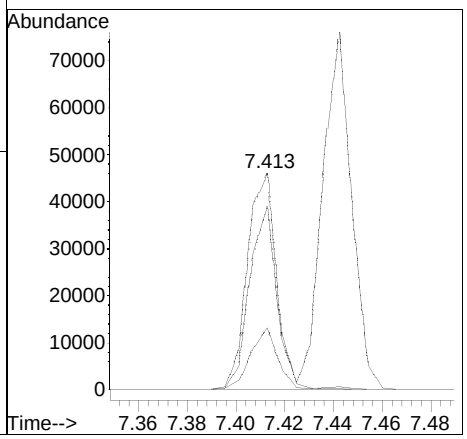


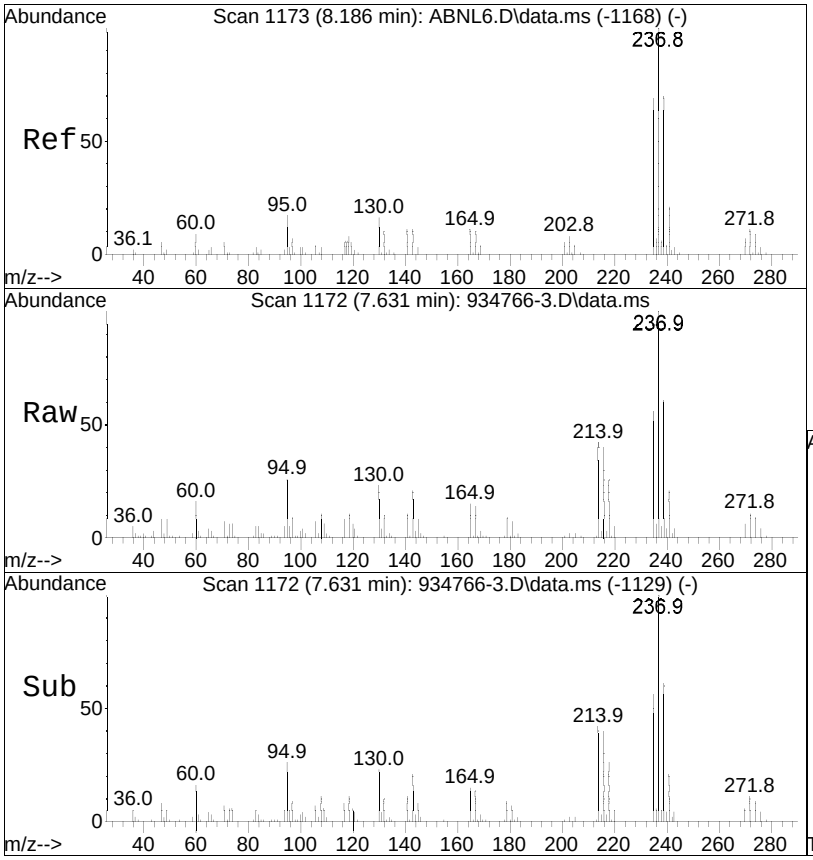


#39
p-Chloro-m-cresol
Concen: 1.55 ug/ml
RT: 7.413 min Scan# 1135
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:107 Resp: 38073

Ion	Ratio	Lower	Upper
107	100		
144	26.8	20.9	31.3
142	79.3	66.1	99.1

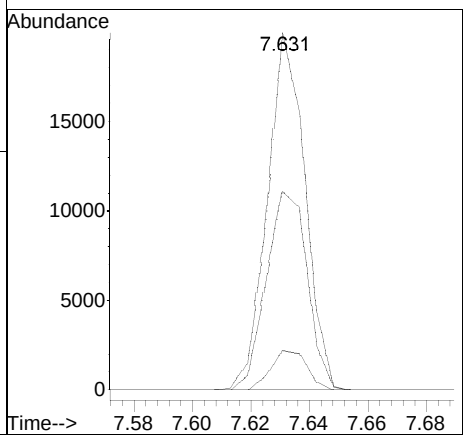


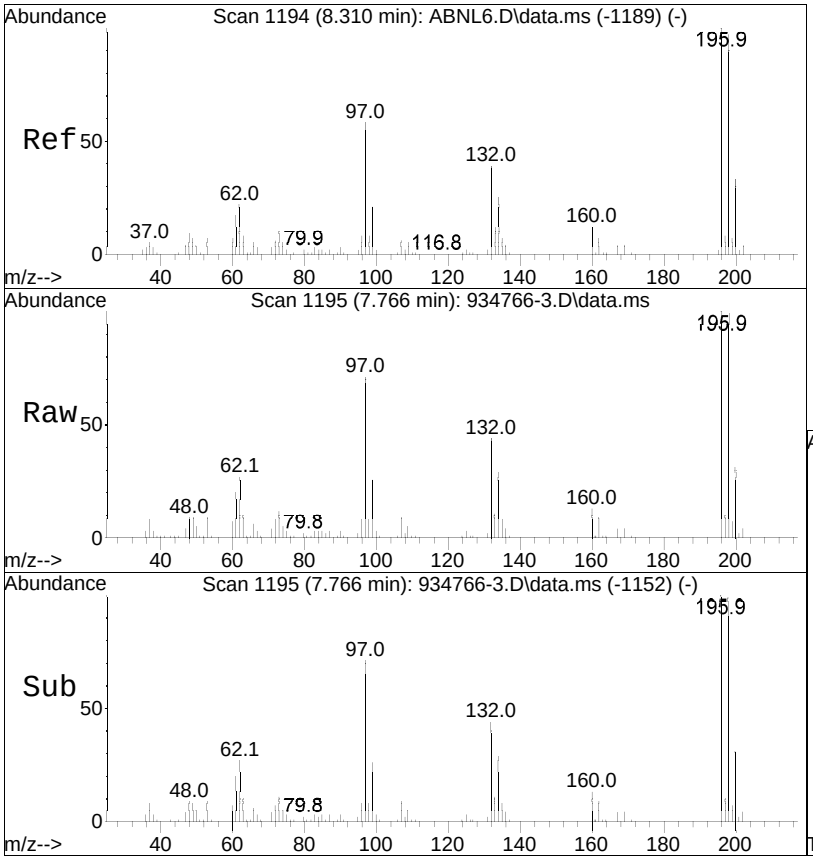


#42
Hexachlorocyclopentadiene
Concen: 0.86 ug/ml
RT: 7.631 min Scan# 1172
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:237 Resp: 17712

Ion	Ratio	Lower	Upper
237	100		
235	60.6	49.7	74.5
272	10.7	9.8	14.6

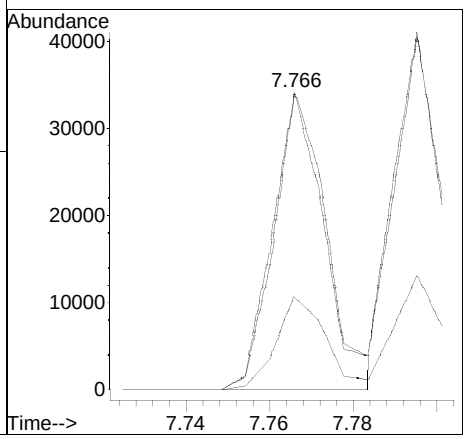


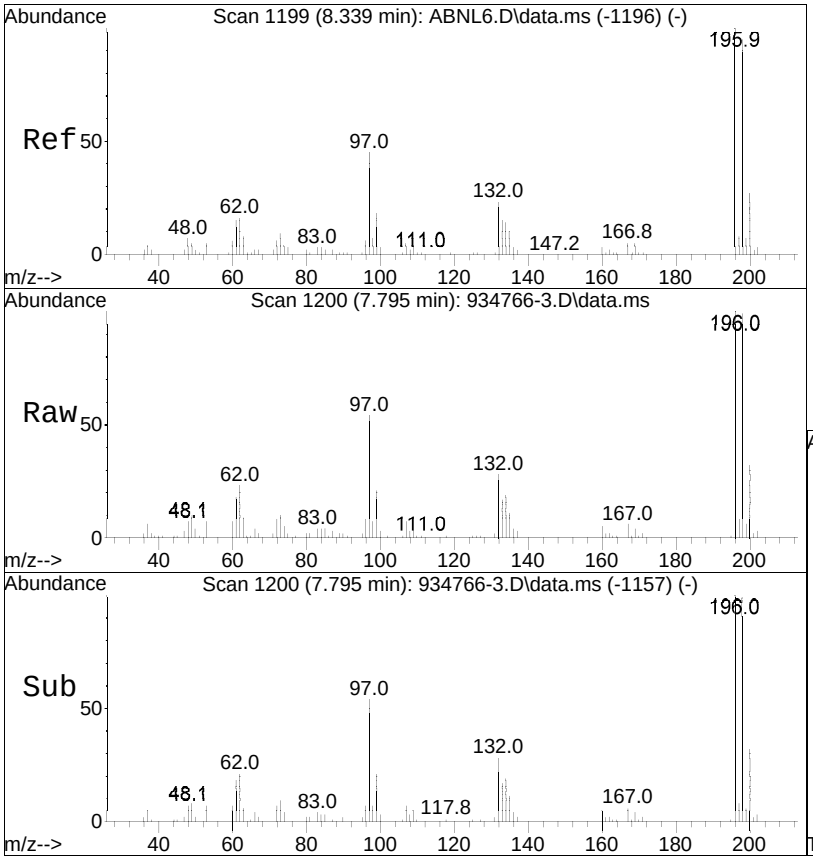


#43
2,4,6-Trichlorophenol
Concen: 1.53 ug/ml
RT: 7.766 min Scan# 1195
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:196 Resp: 30417

Ion	Ratio	Lower	Upper
196	100		
198	93.9	77.5	116.3
200	29.5	23.8	35.6

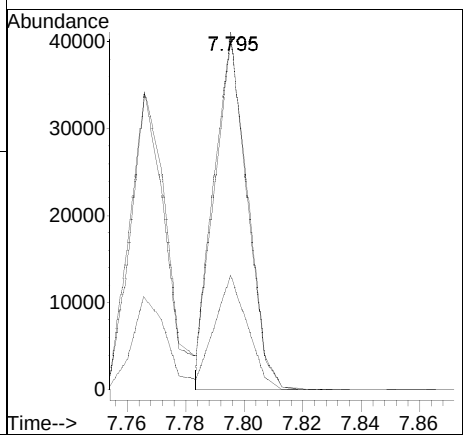


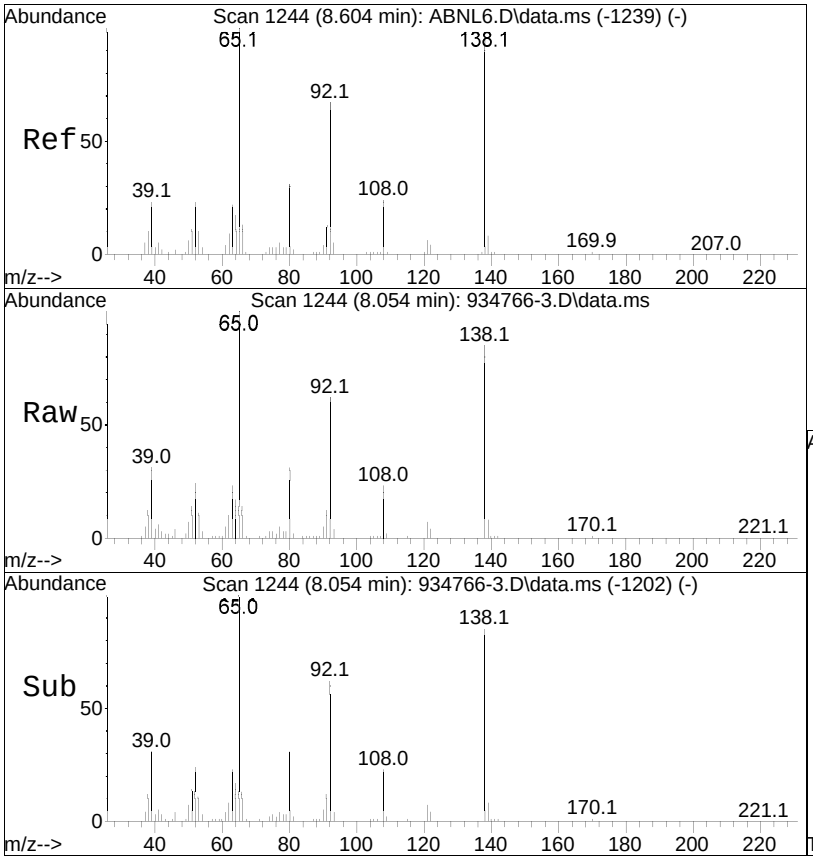


#44
2,4,5-Trichlorophenol
Concen: 1.47 ug/ml
RT: 7.795 min Scan# 1200
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:196 Resp: 31827

Ion	Ratio	Lower	Upper
196	100		
200	32.0	25.4	38.0
198	98.9	78.0	117.0

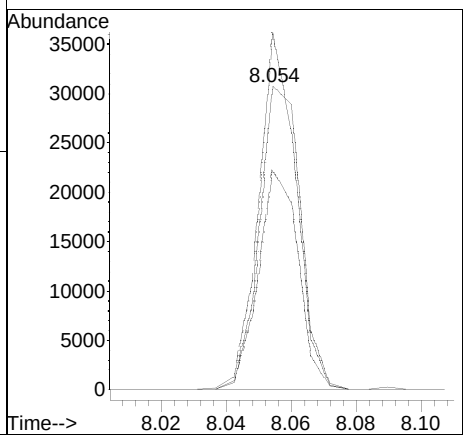


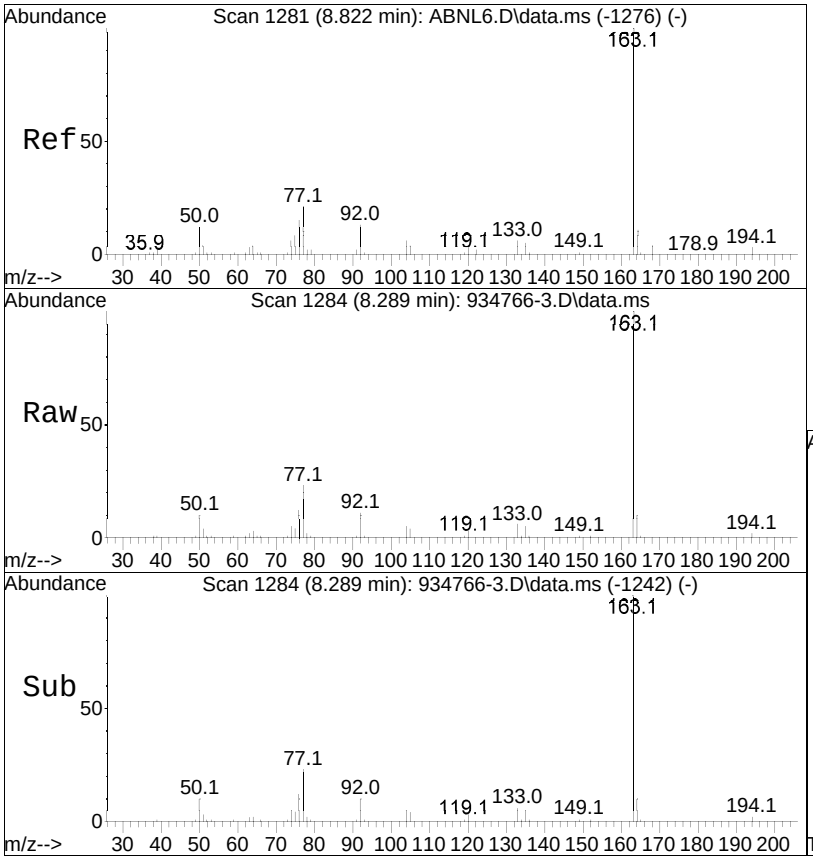


#47
2-Nitroaniline
Concen: 1.66 ug/ml
RT: 8.054 min Scan# 1244
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:138 Resp: 26748

Ion	Ratio	Lower	Upper
138	100		
92	70.5	53.5	80.3
65	106.3	86.3	129.5

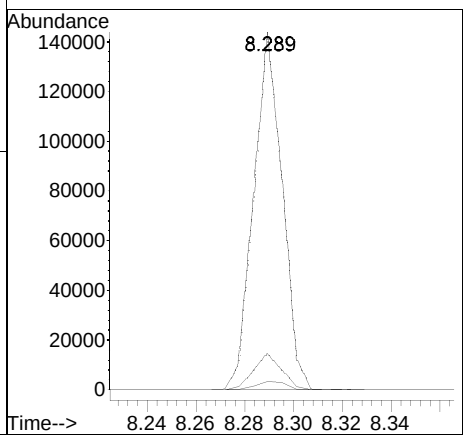


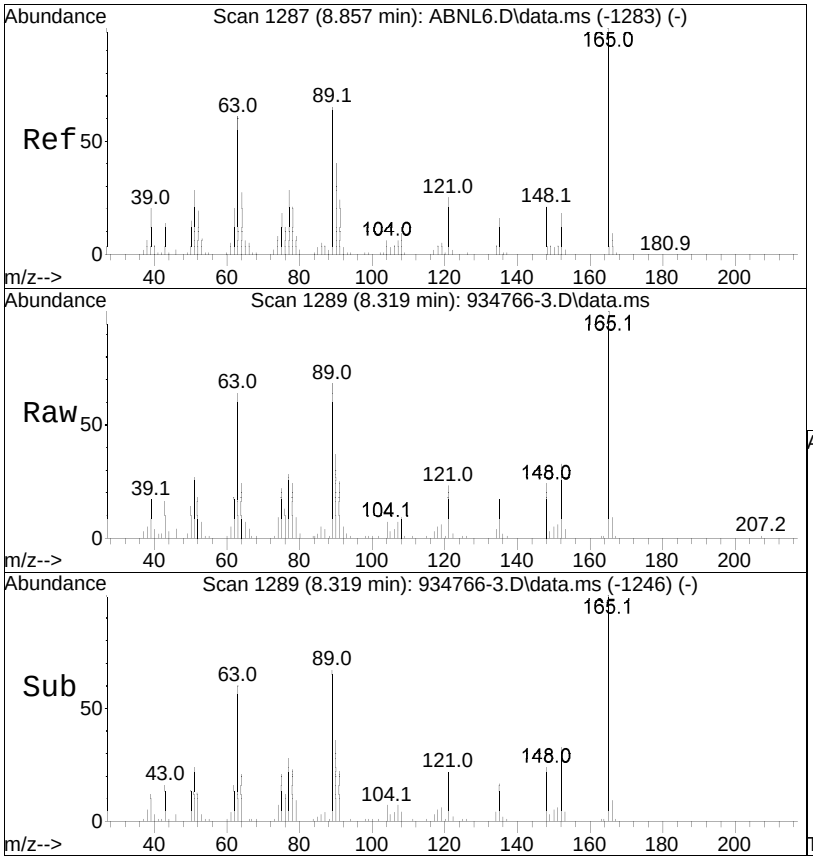


#50
Dimethyl phthalate
Concen: 1.57 ug/ml
RT: 8.289 min Scan# 1284
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:163 Resp: 115586

Ion	Ratio	Lower	Upper
163	100		
194	2.6	3.5	5.3#
164	10.4	7.9	11.9

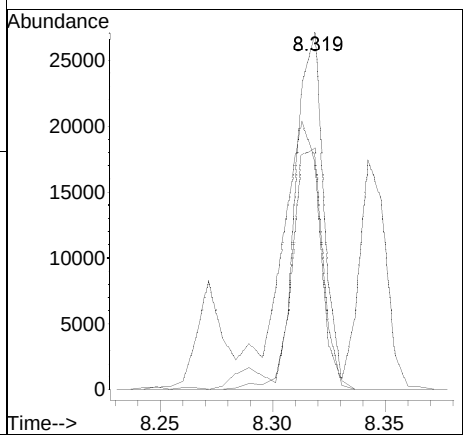


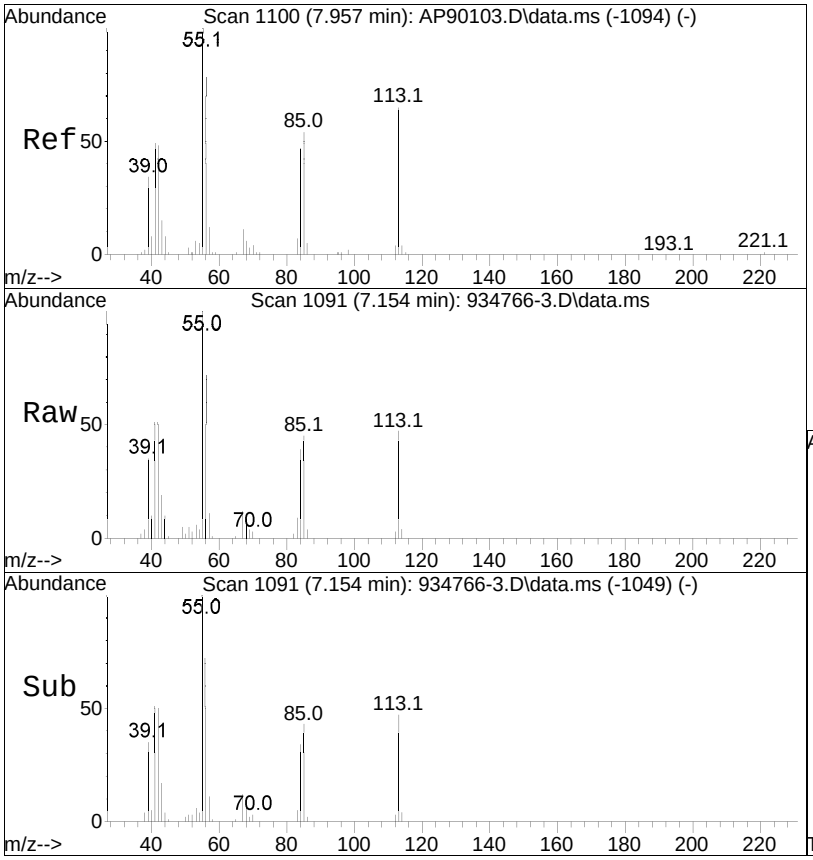


#52
2,6-Dinitrotoluene
Concen: 1.67 ug/ml
RT: 8.319 min Scan# 1289
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:165 Resp: 24716

Ion	Ratio	Lower	Upper
165	100		
89	69.6	54.2	81.2
63	98.9	64.2	96.2#

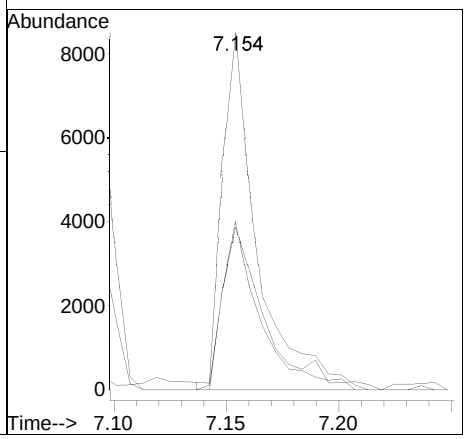


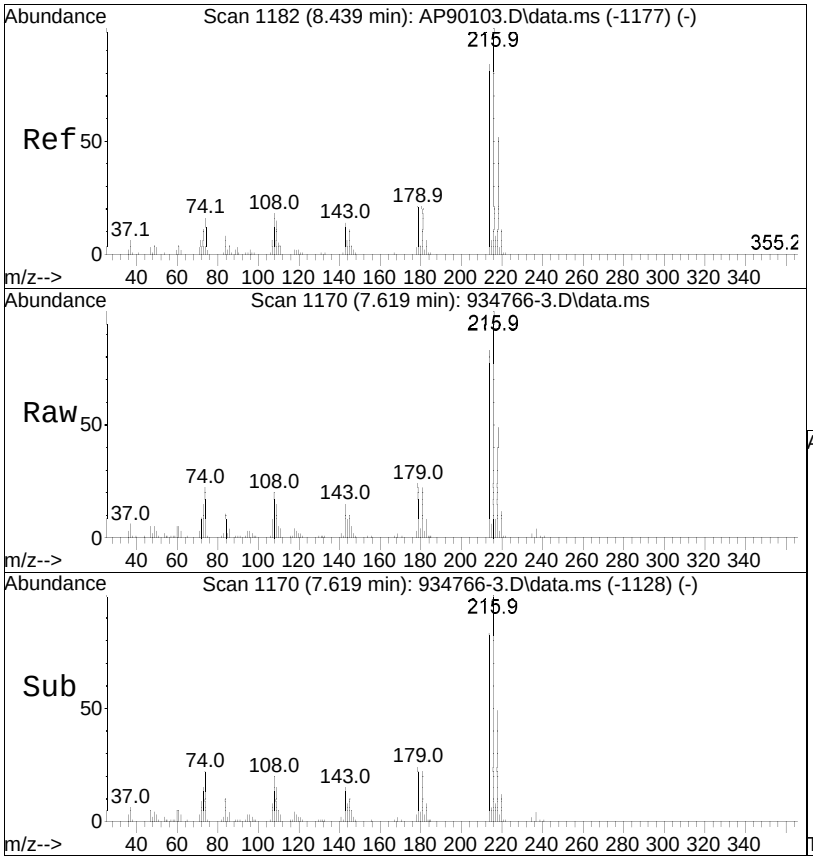


#59
Caprolactam
Concen: 0.70 ug/ml
RT: 7.154 min Scan# 1091
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 55 Resp: 9180

Ion	Ratio	Lower	Upper
55	100		
85	55.8	19.8	29.6#
113	50.2	29.6	44.4#

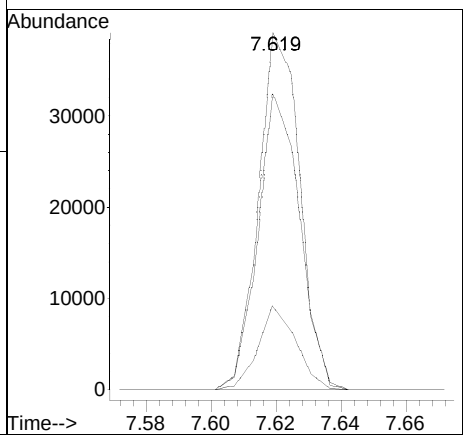


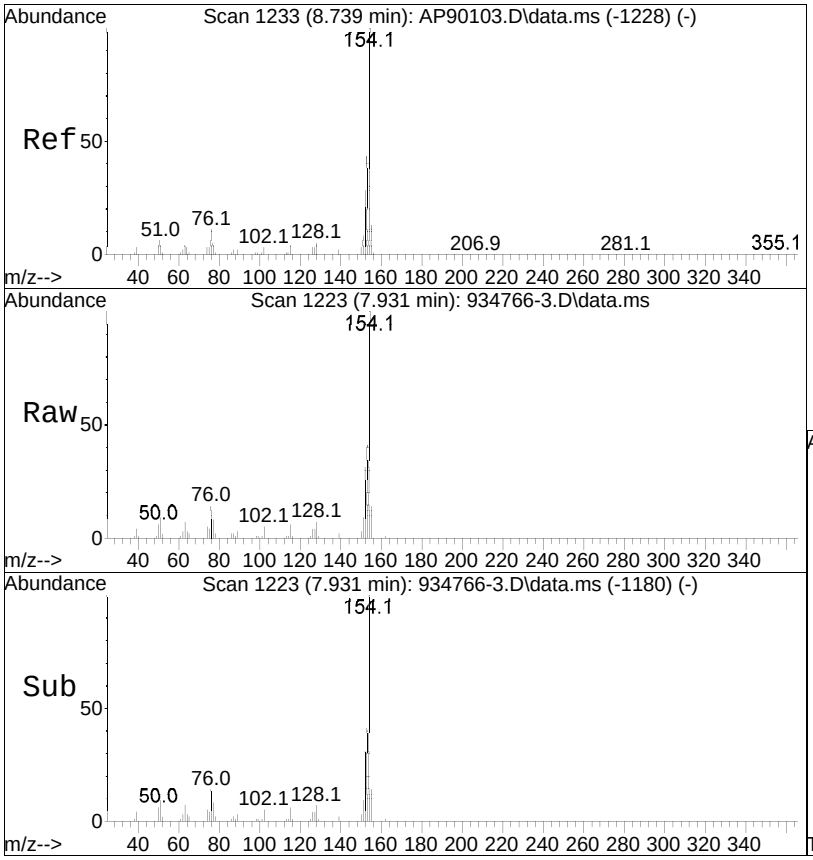


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.00 ug/ml
RT: 7.619 min Scan# 1170
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:216 Resp: 34480

Ion	Ratio	Lower	Upper
216	100		
214	83.5	63.7	95.5
179	21.7	19.0	28.6

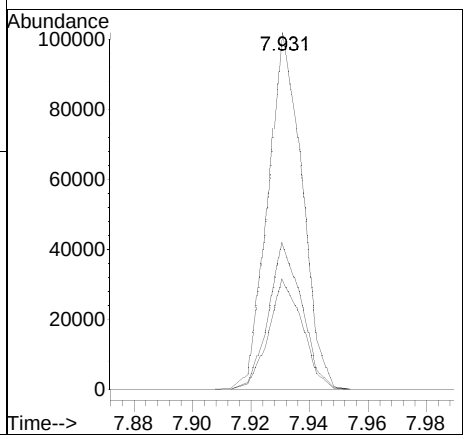


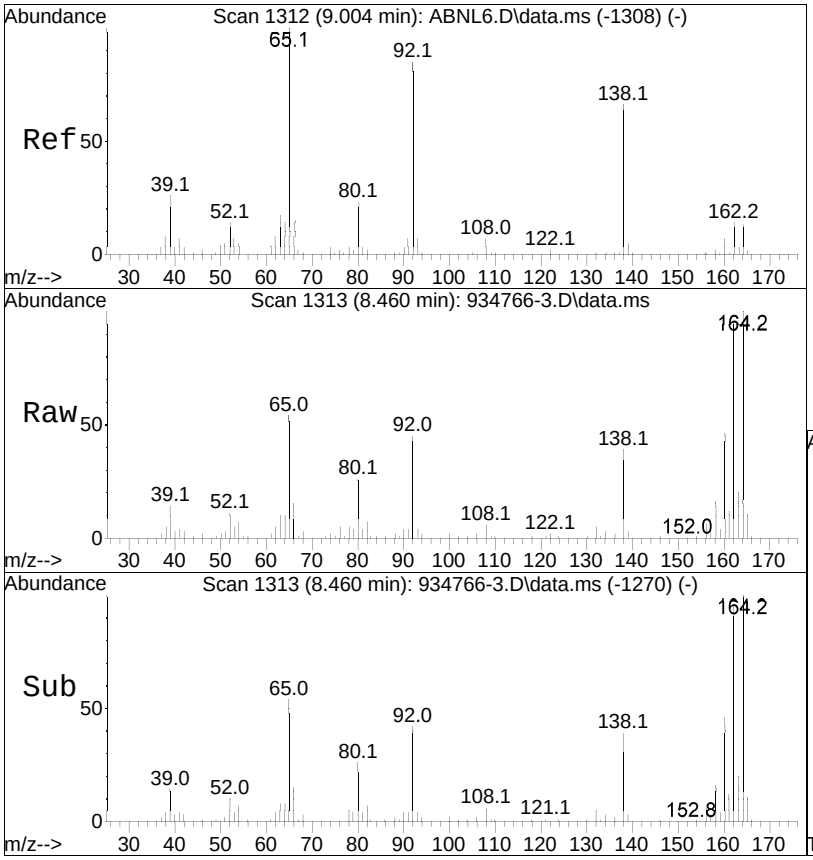


#61
Biphenyl
Concen: 1.22 ug/ml
RT: 7.931 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:154 Resp: 82401

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	30.8	22.5	33.7

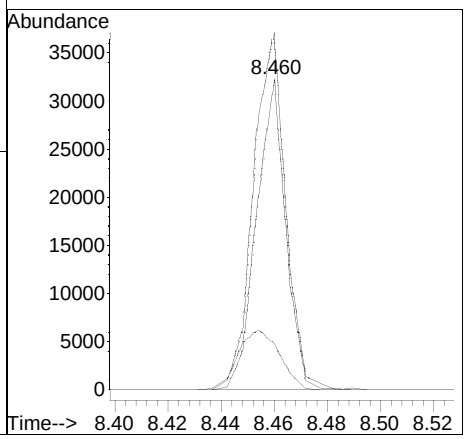


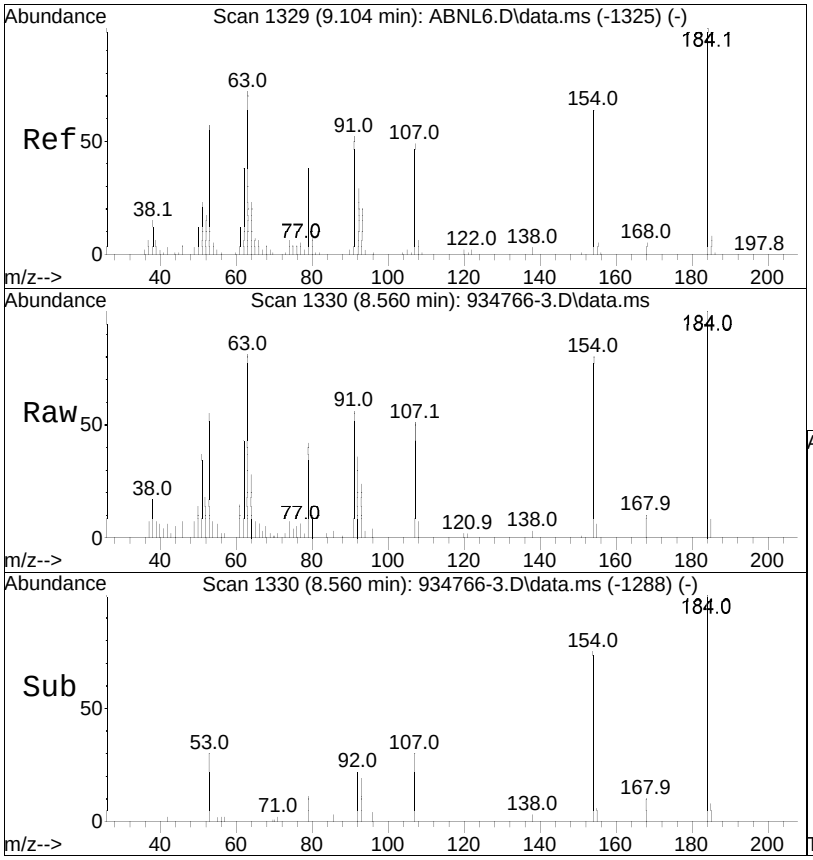


#63
3-Nitroaniline
Concen: 1.72 ug/ml
RT: 8.460 min Scan# 1313
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:138 Resp: 24426

Ion	Ratio	Lower	Upper
138	100		
92	126.4	93.4	140.2
108	27.6	9.5	14.3#

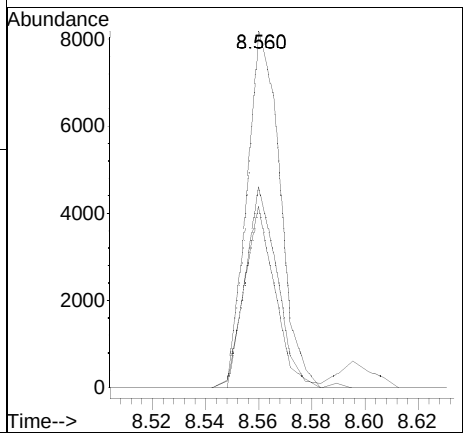


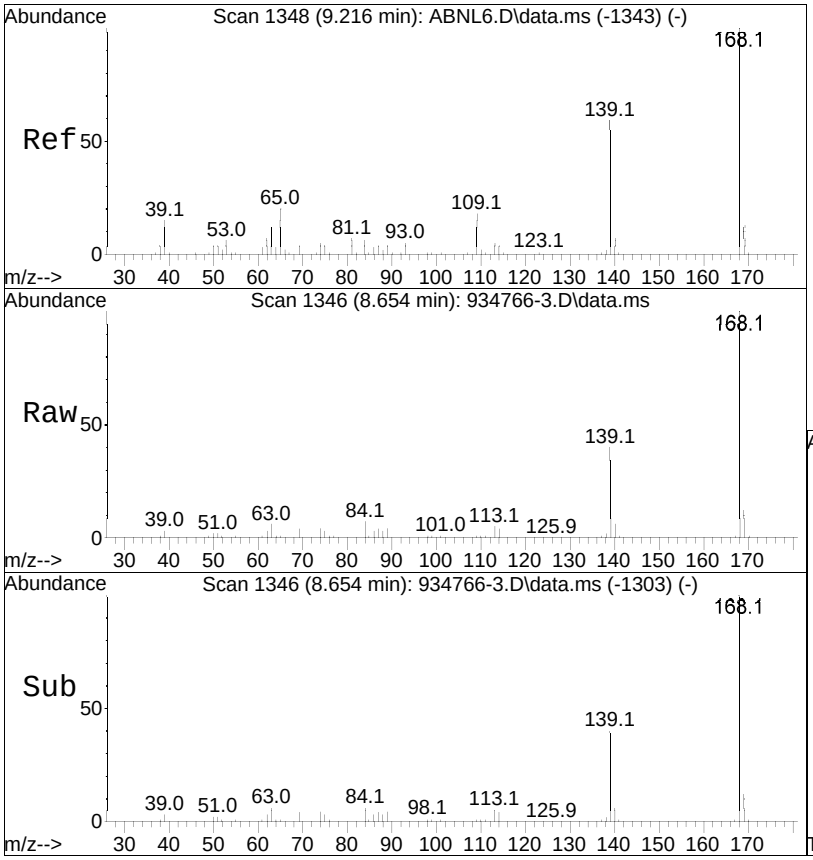


#65
2,4-Dinitrophenol
Concen: 1.08 ug/ml
RT: 8.560 min Scan# 1330
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:184 Resp: 7084

Ion	Ratio	Lower	Upper
184	100		
107	46.0	37.7	56.5
91	53.9	46.3	69.5

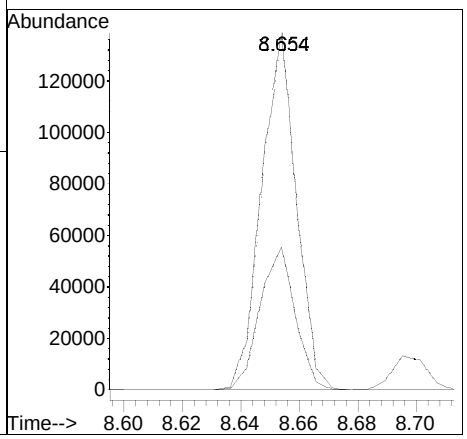


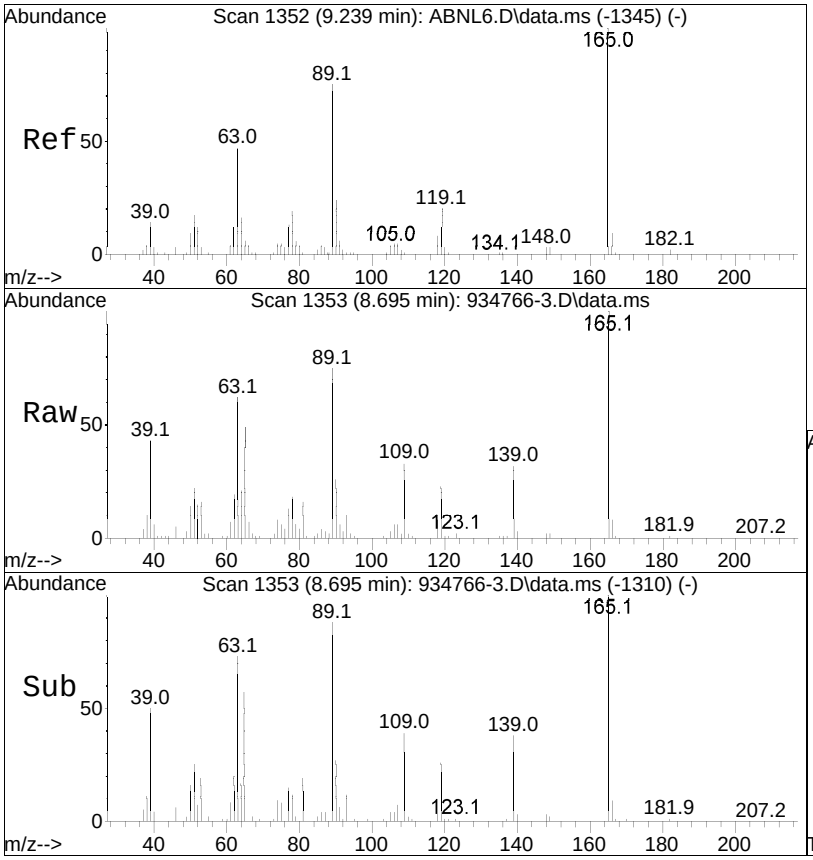


#66
Dibenzofuran
Concen: 1.35 ug/ml
RT: 8.654 min Scan# 1346
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:168 Resp: 113216

Ion	Ratio	Lower	Upper
168	100		
139	40.8	31.4	47.2

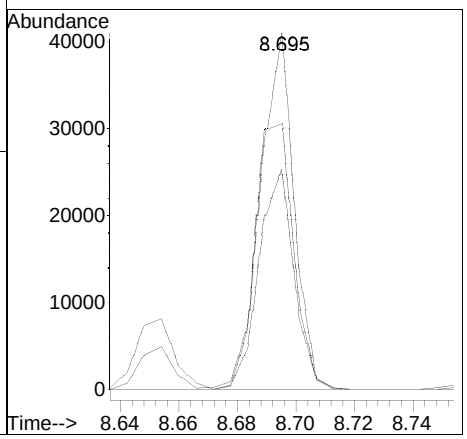


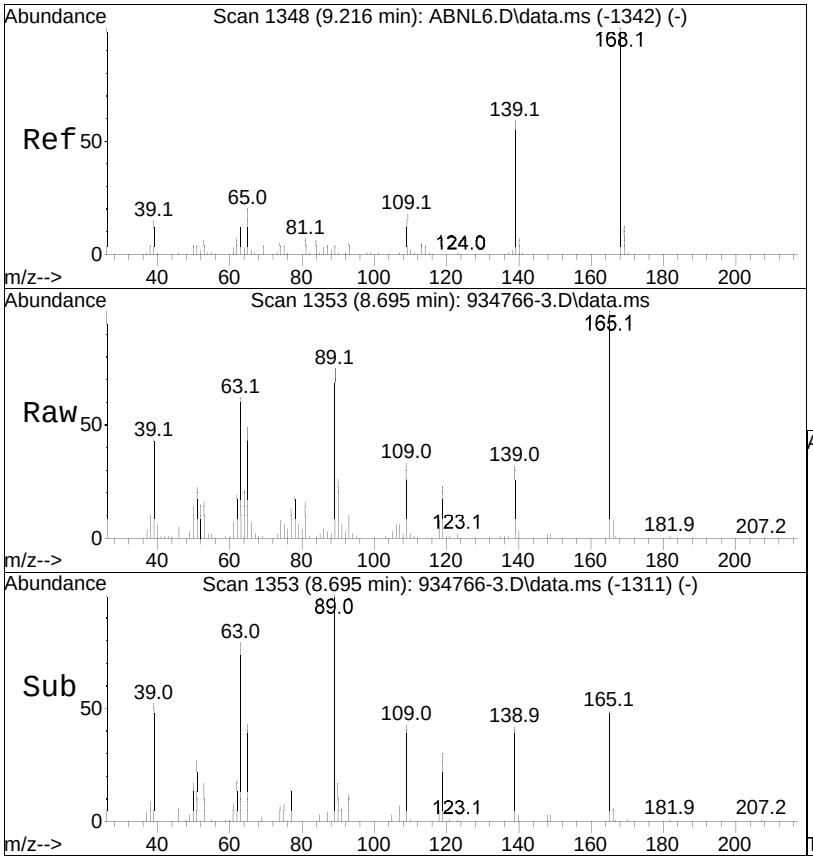


#67
2,4-Dinitrotoluene
Concen: 1.67 ug/ml
RT: 8.695 min Scan# 1353
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:165 Resp: 32315

Ion	Ratio	Lower	Upper
165	100		
89	86.9	72.0	108.0
63	65.4	52.7	79.1

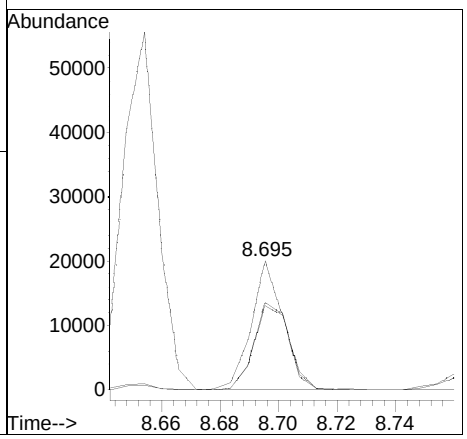


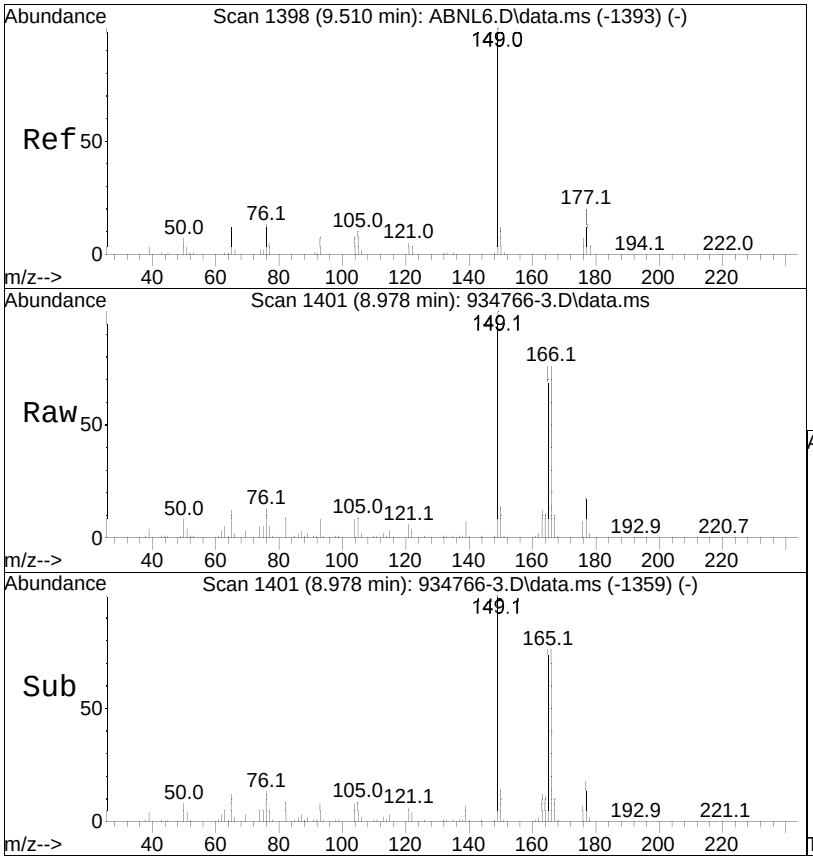


#68
4-Nitrophenol
Concen: 1.00 ug/ml
RT: 8.695 min Scan# 1353
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion: 65 Resp: 15196

Ion	Ratio	Lower	Upper
65	100		
109	74.7	47.4	71.2#
139	73.8	76.6	115.0#

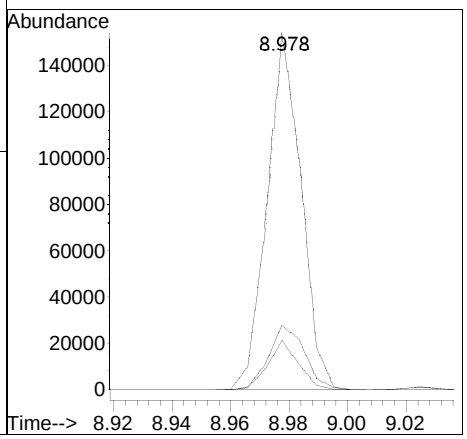


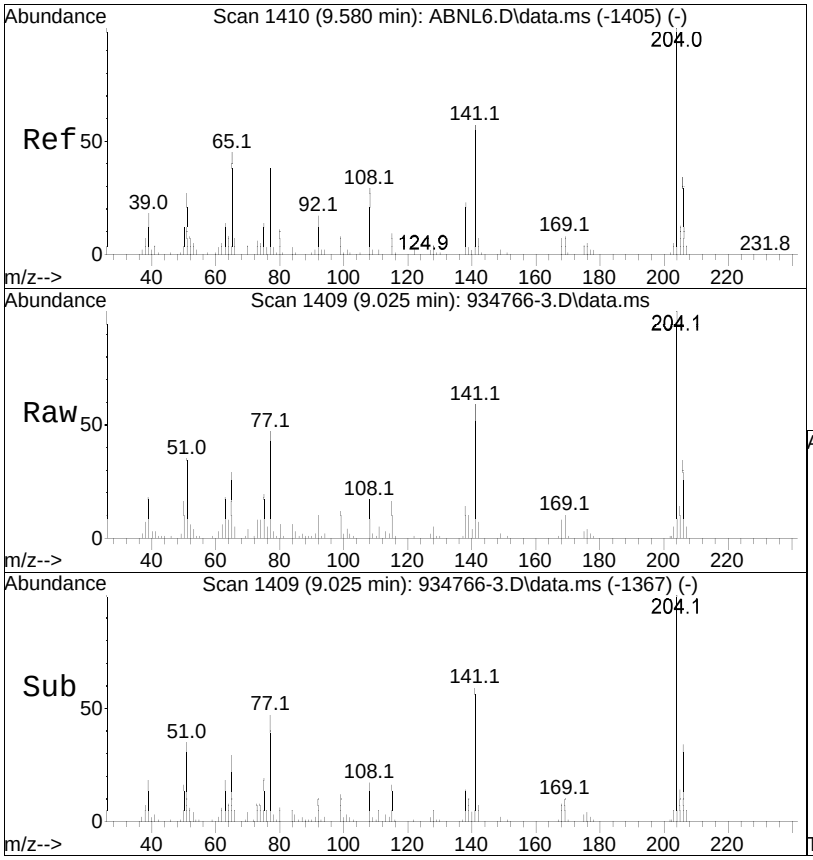


#71
Diethyl phthalate
Concen: 1.77 ug/ml
RT: 8.978 min Scan# 1401
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:149 Resp: 123498

Ion	Ratio	Lower	Upper
149	100		
177	19.4	16.1	24.1
150	12.6	9.4	14.2

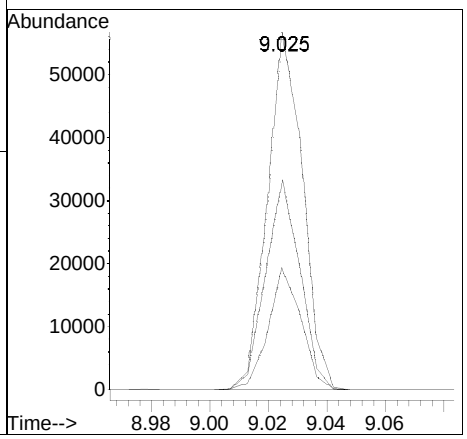


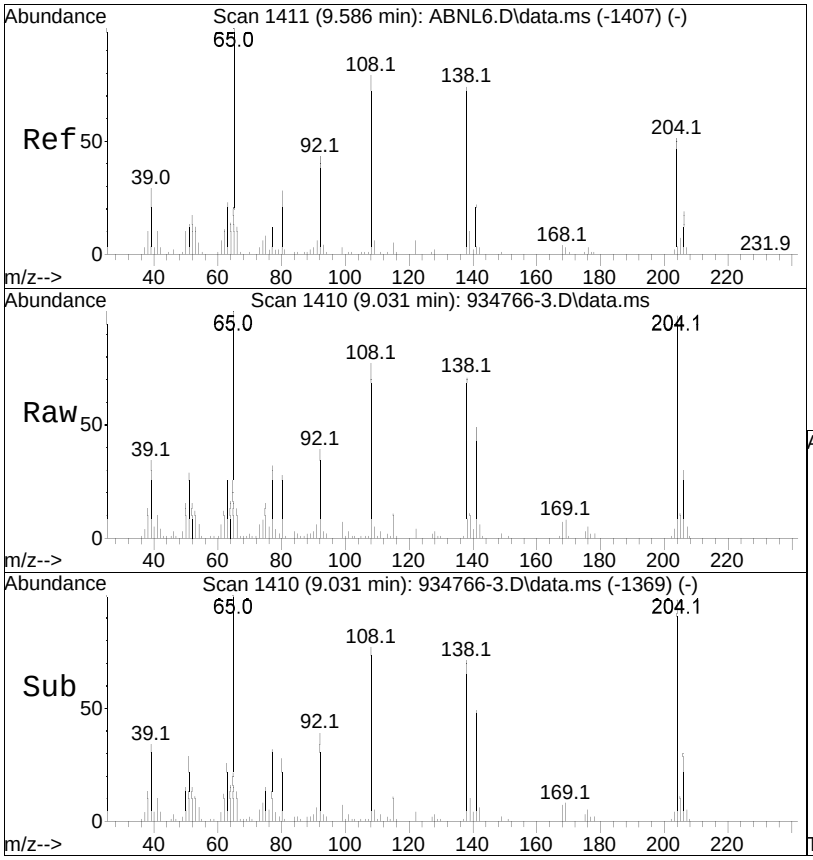


#73
4-Chlorophenyl phenyl ether
Concen: 1.35 ug/ml
RT: 9.025 min Scan# 1409
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:204 Resp: 47048

Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.8	38.6
141	57.6	53.6	80.4

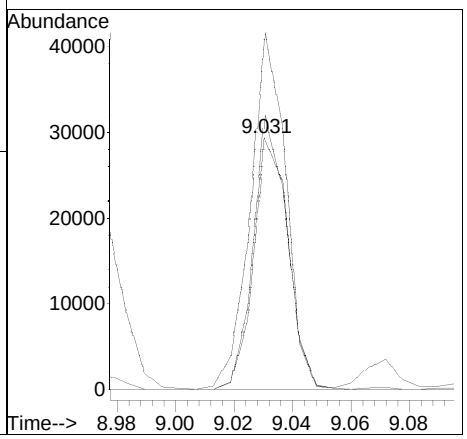


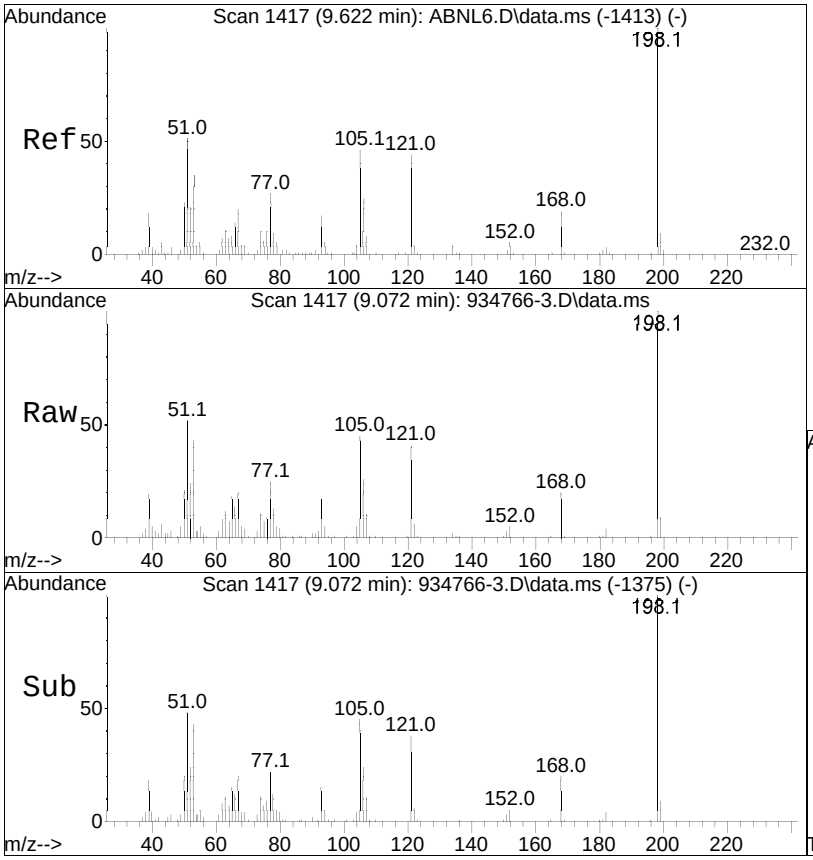


#74
4-Nitroaniline
Concen: 1.75 ug/ml
RT: 9.031 min Scan# 1410
Delta R.T. -0.012 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:138 Resp: 24320

Ion	Ratio	Lower	Upper
138	100		
108	105.0	52.1	78.1#
65	143.7	115.0	172.6

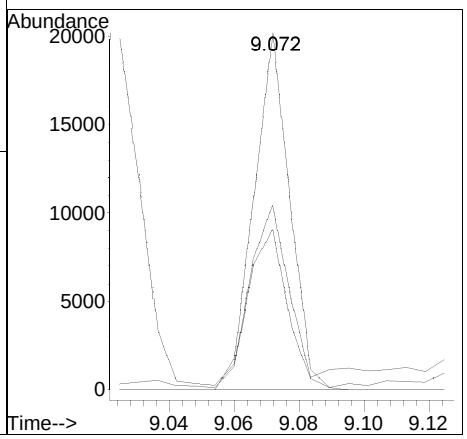


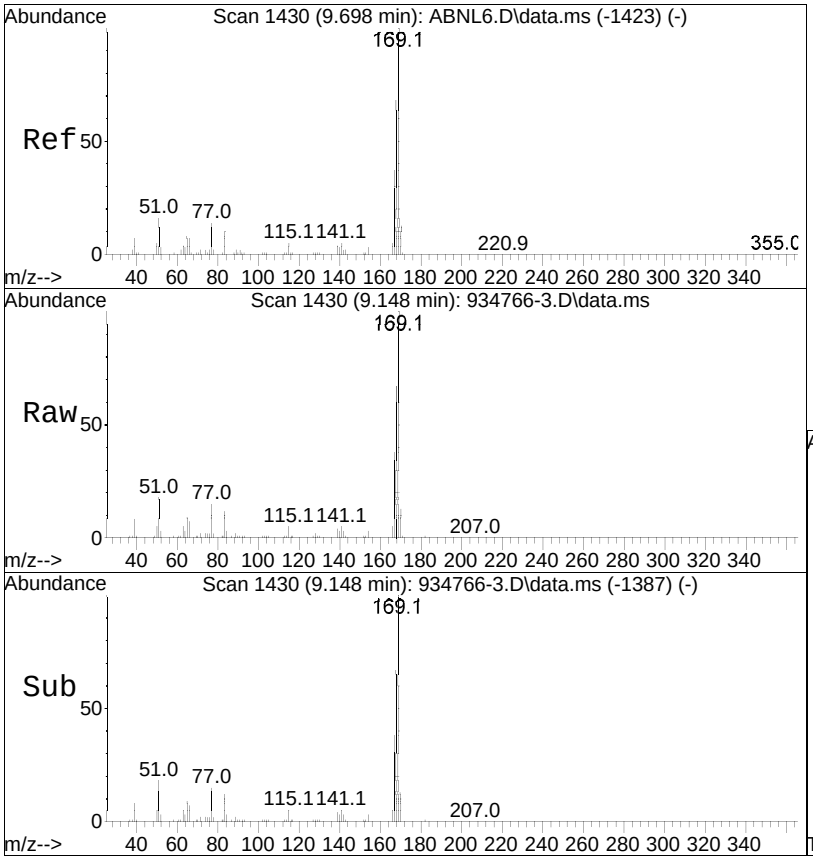


#75
4,6-Dinitro-o-cresol
Concen: 1.42 ug/ml
RT: 9.072 min Scan# 1417
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:198 Resp: 15436

Ion	Ratio	Lower	Upper
198	100		
51	56.1	76.0	114.0#
105	51.3	45.6	68.4

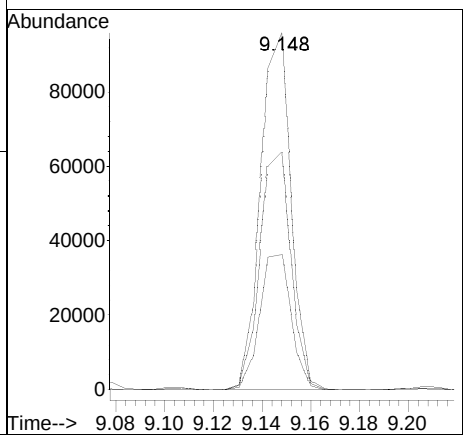


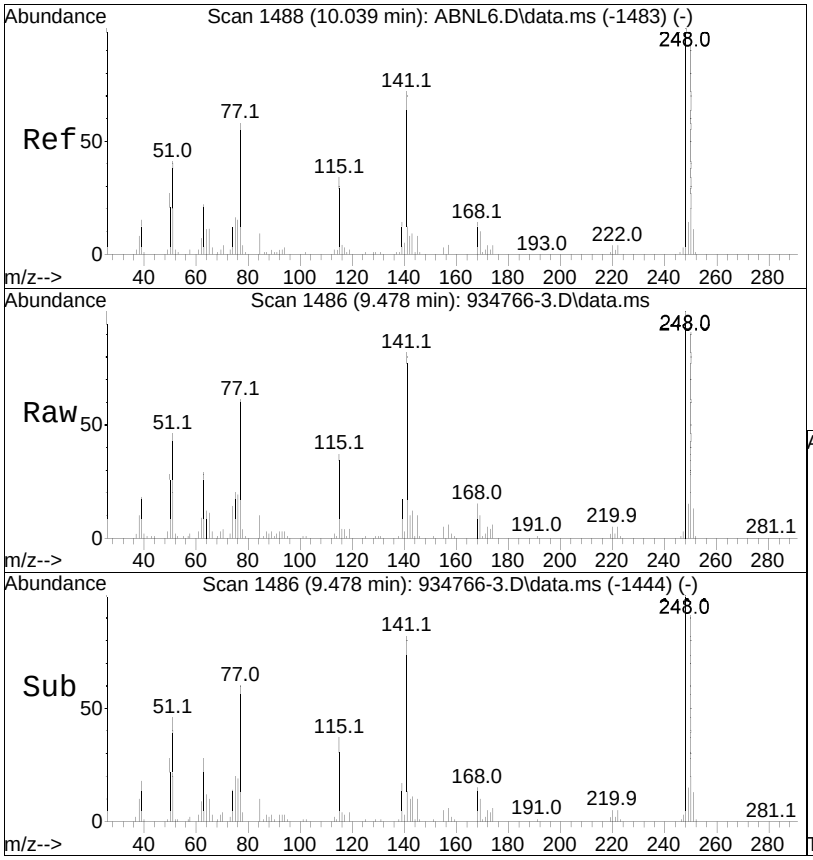


#76
NDPA/DPA
Concen: 1.53 ug/ml
RT: 9.148 min Scan# 1430
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:169 Resp: 83329

Ion	Ratio	Lower	Upper
169	100		
168	68.2	54.0	81.0
167	39.5	28.6	42.8

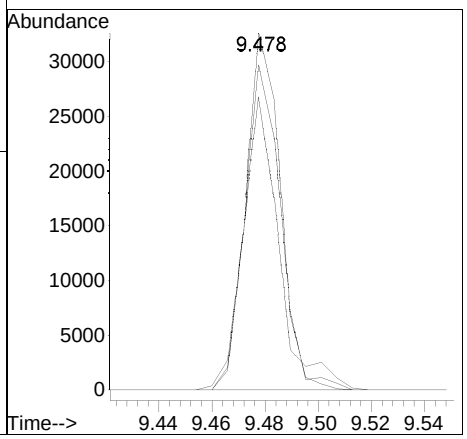


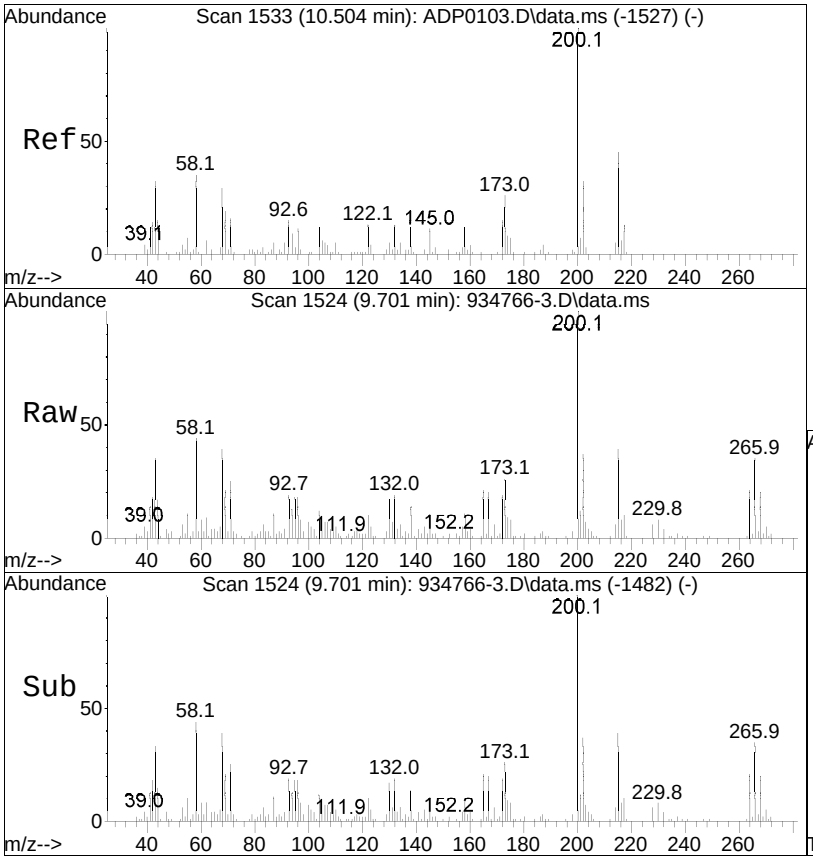


#79
4-Bromophenyl phenyl ether
Concen: 1.43 ug/ml
RT: 9.478 min Scan# 1486
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:248 Resp: 29576

Ion	Ratio	Lower	Upper
248	100		
141	84.7	76.6	114.8
250	93.8	77.3	115.9

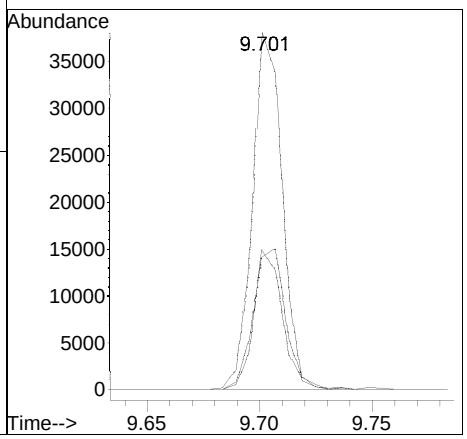


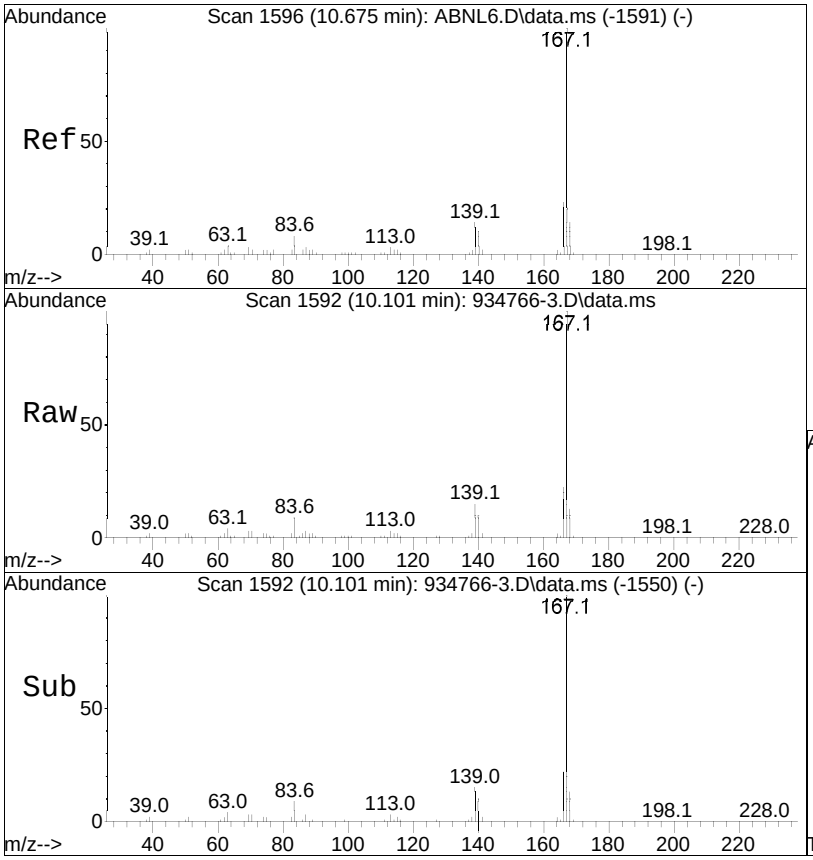


#86
Atrazine
Concen: 1.77 ug/ml
RT: 9.701 min Scan# 1524
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:200 Resp: 34622

Ion	Ratio	Lower	Upper
200	100		
202	43.4	25.8	38.6#
215	38.5	40.2	60.4#

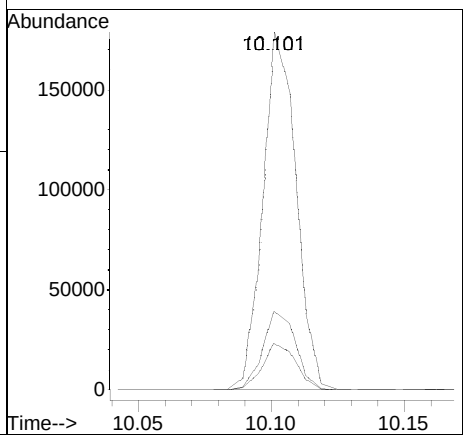


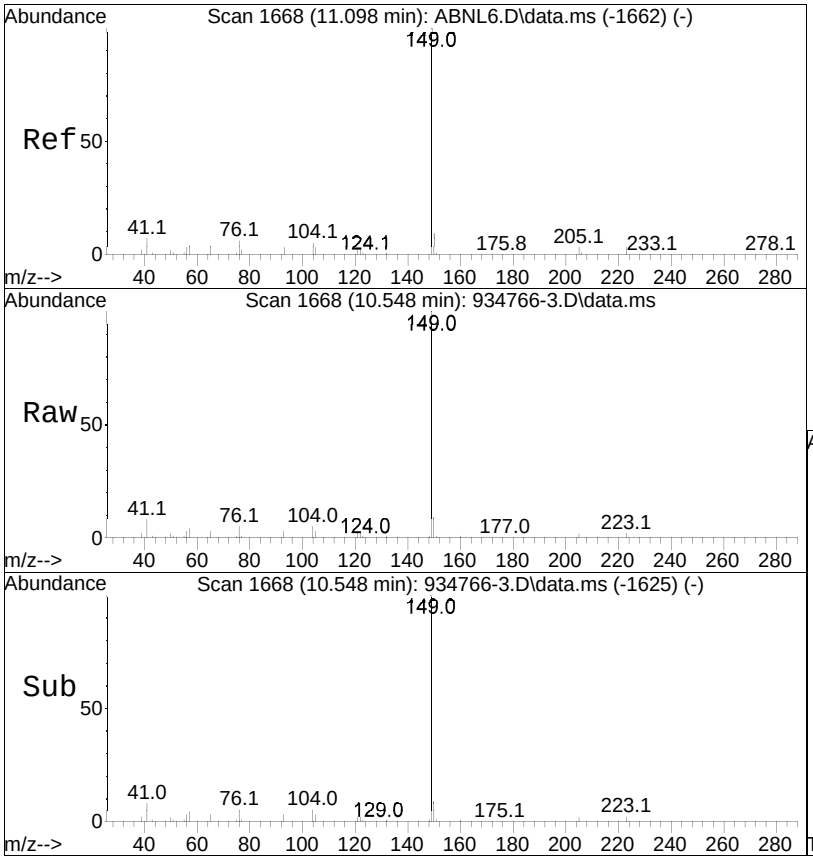


#90
Carbazole
Concen: 1.63 ug/ml
RT: 10.101 min Scan# 1592
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:167 Resp: 153076

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.0	17.4	26.0

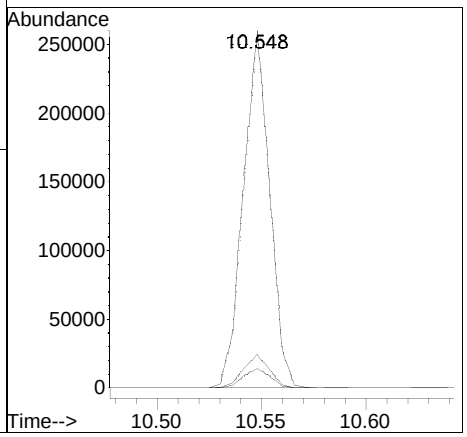


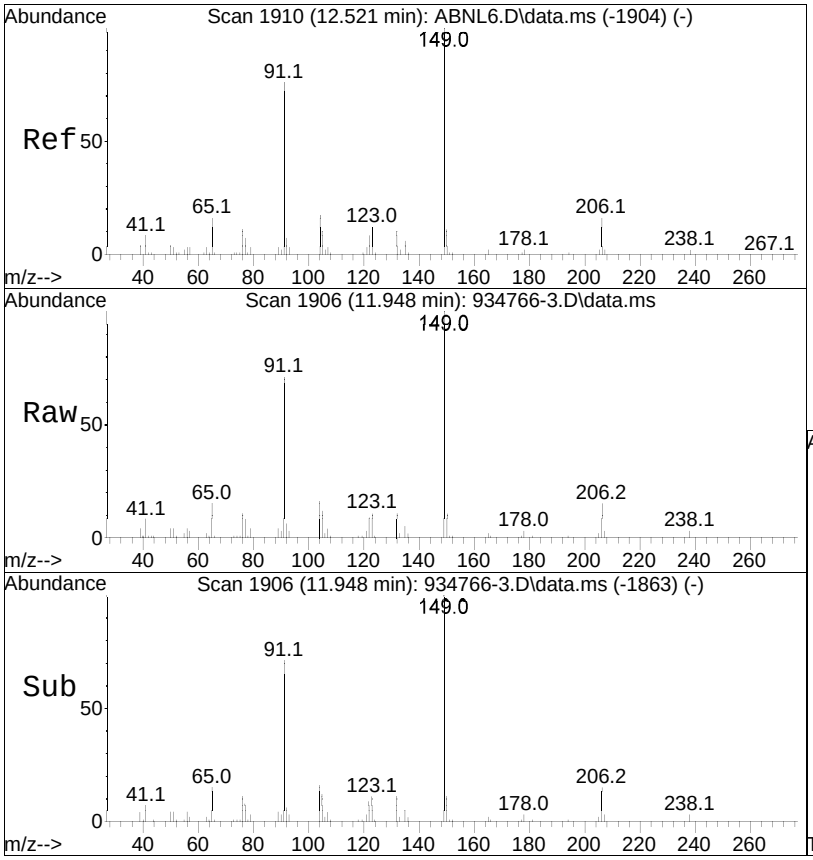


#91
Di-n-butylphthalate
Concen: 1.96 ug/ml
RT: 10.548 min Scan# 1668
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:149 Resp: 224156

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.7	4.5	6.7

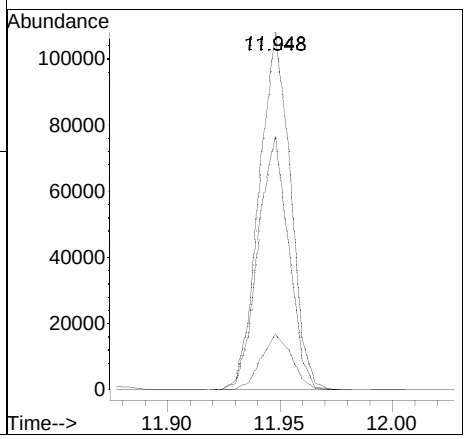


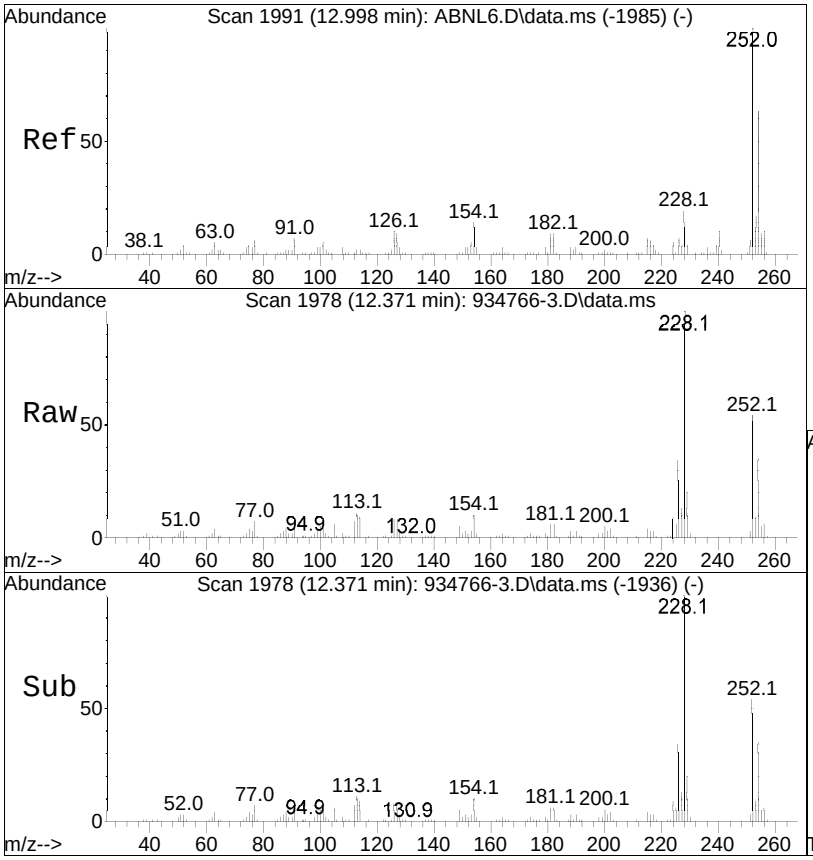


#96
Butyl benzyl phthalate
Concen: 2.13 ug/ml
RT: 11.948 min Scan# 1906
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:149 Resp: 103312

Ion	Ratio	Lower	Upper
149	100		
91	70.1	63.3	94.9
206	15.5	13.9	20.9

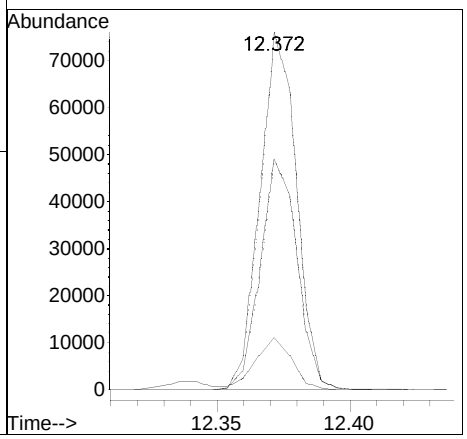


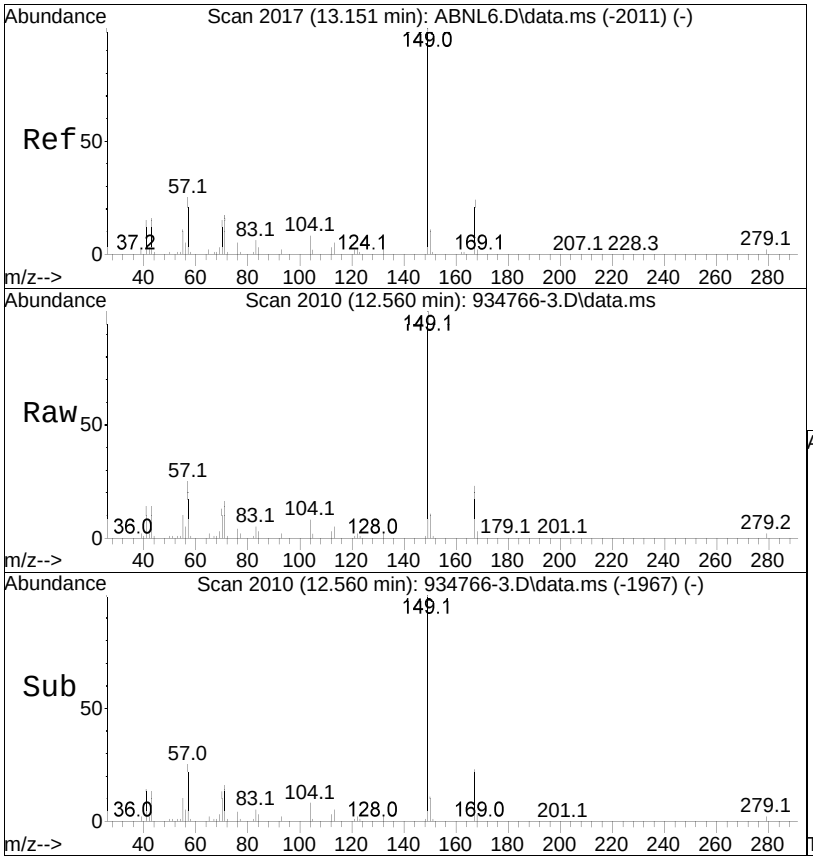


#105
3,3'-Dichlorobenzidine
Concen: 1.77 ug/ml
RT: 12.371 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:252 Resp: 71847

Ion	Ratio	Lower	Upper
252	100		
126	15.0	14.5	21.7
254	65.6	51.2	76.8

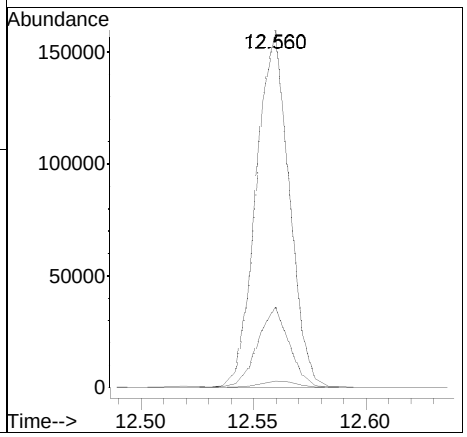


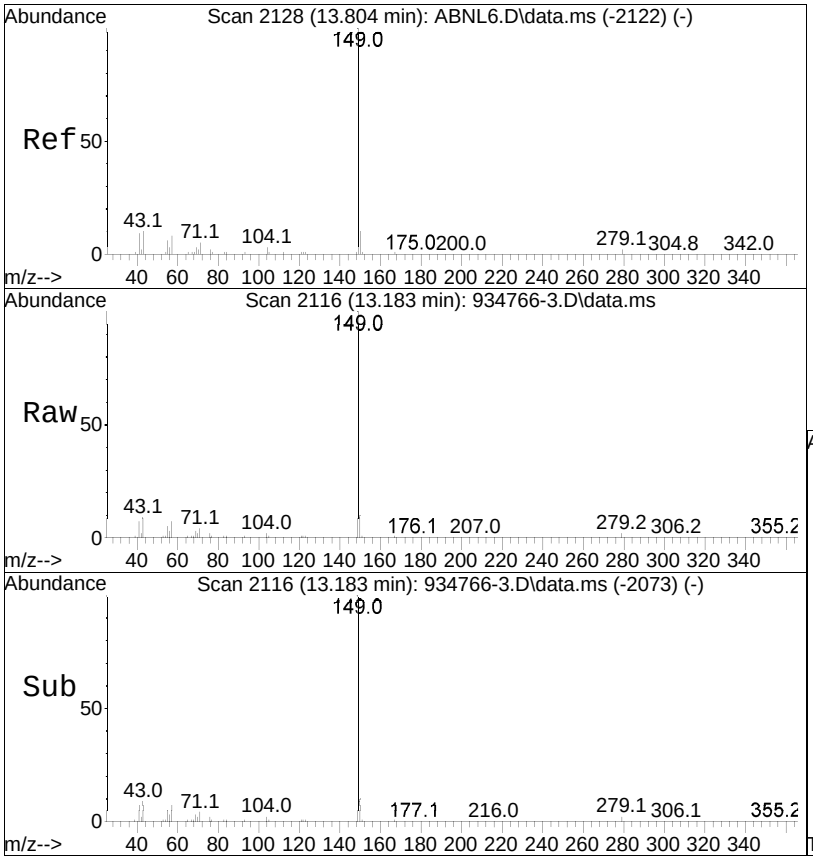


#107
Bis(2-ethylhexyl)phthalate
Concen: 2.30 ug/ml
RT: 12.560 min Scan# 2010
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:149 Resp: 161294

Ion	Ratio	Lower	Upper
149	100		
167	21.7	22.1	33.1#
279	1.8	3.0	4.4#

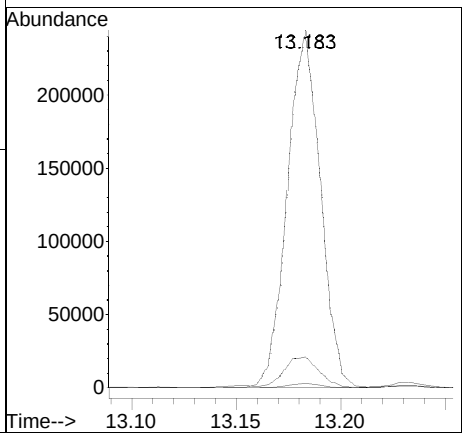




#108
Di-n-octylphthalate
Concen: 2.32 ug/ml
RT: 13.183 min Scan# 2116
Delta R.T. 0.000 min
Lab File: 934766-3.D
Acq: 17 Jun 2024 10:44 am

Tgt Ion:149 Resp: 265768

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.2	1.3	1.9#

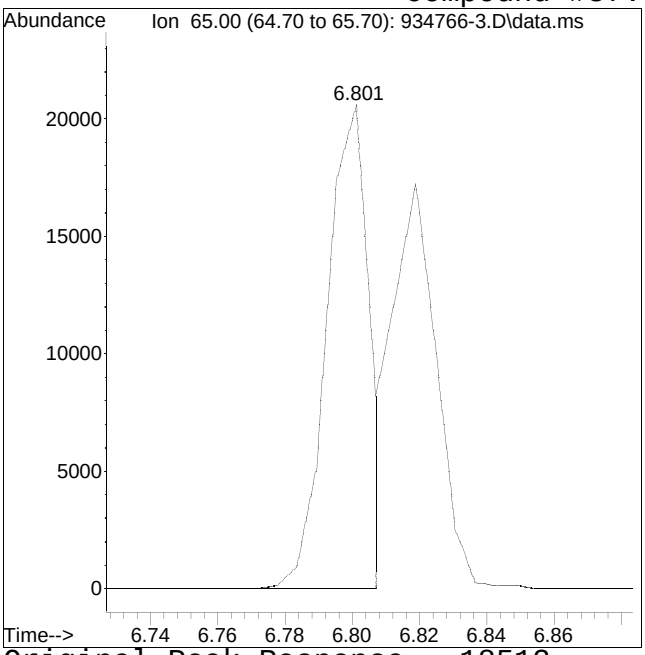


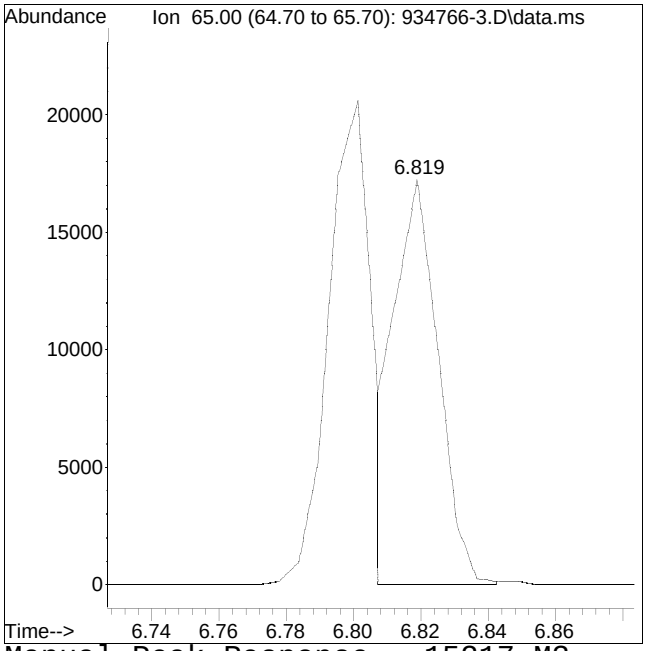
Manual Integration Report

Data Path : I:\8270\SV106\240617RVT\
Data File : 934766-3.D
Date Inj'd : 6/17/2024 10:44 am
Sample : WG1934773-3,32,,HNY

QMethod : FS240418SV106.m
Operator : SV106:sz
Instrument : SV 106
Quant Date : 6/17/2024 12:29 pm

Compound #37: 4-Chloroaniline





Original Peak Response = 18512 Manual Peak Response = 15217 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 09:14 am

Work Group: WG1934773 for Department: 2 Organic Preparation

Created: 15-JUN-24 Due: Operator: DLP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432371-03	SB-1 (GW)	C	NYTCL-8270-RVT	WATER	DONE	U	0617	0617	S0	Amber-A.1
L2432371-04	SB-2 (GW)	C	NYTCL-8270-RVT	WATER	DONE	U	0617	0617	S0	Amber-A.1
L2432552-01	IRM-EFFLUENT-240611	S	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432552-02	IRM-MIDPOINT-240611	S	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432552-03	IRM-INFLUENT-240611	S	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-01	MW-11S	C	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-02	MW-11D	C	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-03	MW-13S	C	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-04	MW-13D	C	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432791-34	FB_06112024	C	NYTCL-8270-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
WG1934773-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1934773-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1934773-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1934773-3 WG1934773-2

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV106\240418RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNLVI.M	Tune1	WG1911693,,	4/18/2024 8:26 pm
2	ABNL9.D	ABNLVI.M	IL2,32,,ABNL50 Lot# 106	WG1911693,,	4/18/2024 8:50 pm
3	ABNL8.D	ABNLVI.M	IL3,32,,ABNL25 Lot# 106	WG1911693,,	4/18/2024 9:14 pm
4	ABNL7.D	ABNLVI.M	IL4,32,,ABNL10 Lot# 106	WG1911693,,	4/18/2024 9:39 pm
5	ABNL6.D	ABNLVI.M	IL5,32,,ABNL5 Lot# 1069	WG1911693,,	4/18/2024 10:03 pm
6	ABNL5.D	ABNLVI.M	IL6,32,,ABNL2.5 Lot# 10	WG1911693,,	4/18/2024 10:27 pm
7	ABNL4.D	ABNLVI.M	IL7,32,,ABNL1 Lot# 1069	WG1911693,,	4/18/2024 10:51 pm
8	ABNL3.D	ABNLVI.M	IL8,32,,ABNL0.5 Lot# 10	WG1911693,,	4/18/2024 11:15 pm
9	ABNL2.D	ABNLVI.M	IL9,32,,ABNL0.2 Lot# 10	WG1911693,,	4/18/2024 11:39 pm
10	AP9L8.D	ABNLVI.M	IL3,32,,AP9L25 Lot# 107	WG1911693,,	4/19/2024 12:51 am
11	AP9L9.D	ABNLVI.M	IL2,32,,AP9L50 Lot# 107	WG1911693,,	4/19/2024 12:27 am
12	ABNL1.D	ABNLVI.M	IL10,32,,ABNL0.1 Lot# 1	WG1911693,,	4/19/2024 12:04 am
13	AP9L7.D	ABNLVI.M	IL4,32,,AP9L10 Lot# 107	WG1911693,,	4/19/2024 1:16 am
14	AP9L6.D	ABNLVI.M	IL5,32,,AP9L5 Lot# 1070	WG1911693,,	4/19/2024 1:39 am
15	AP9L5.D	ABNLVI.M	IL6,32,,AP9L2.5 Lot# 10	WG1911693,,	4/19/2024 2:03 am
16	AP9L4.D	ABNLVI.M	IL7,32,,AP9L1 Lot# 1070	WG1911693,,	4/19/2024 2:28 am
17	AP9L3.D	ABNLVI.M	IL8,32,,AP9L0.5 Lot# 10	WG1911693,,	4/19/2024 2:52 am
18	AP9L2.D	ABNLVI.M	IL9,32,,AP9L0.2 Lot# 10	WG1911693,,	4/19/2024 3:16 am
19	AP9L1.D	ABNLVI.M	IL10,32,,AP9L0.1 Lot# 1	WG1911693,,	4/19/2024 3:41 am
20	ABNICV.D	ABNLVI.M	CQICV1,32,,ABNICV Lot#	WG1911693,,	4/19/2024 4:04 am
21	AP9ICV.D	ABNLVI.M	CQICV2,32,,AP9ICV Lot#	WG1911693,,	4/19/2024 4:29 am
22	Tune2.D	ABNLVI.M	Tune2	WG1911693,,	4/19/2024 4:53 am
23	ADPL9.D	ABNLVI.M	IL2,32,,ADPL50 Lot# 107	WG1911693,,	4/19/2024 5:17 am
24	ADPL8.D	ABNLVI.M	IL3,32,,ADPL25 Lot# 107	WG1911693,,	4/19/2024 5:41 am
25	ADPL7.D	ABNLVI.M	IL4,32,,ADPL10 Lot# 107	WG1911693,,	4/19/2024 6:05 am
26	ADPL6.D	ABNLVI.M	IL5,32,,ADPL5 Lot# 1071	WG1911693,,	4/19/2024 6:29 am
27	ADPL5.D	ABNLVI.M	IL6,32,,ADPL2.5 Lot# 10	WG1911693,,	4/19/2024 6:52 am
28	ADPL4.D	ABNLVI.M	IL7,32,,ADPL1 Lot# 1071	WG1911693,,	4/19/2024 7:16 am
29	ADPL3.D	ABNLVI.M	IL8,32,,ADPL0.5 Lot# 10	WG1911693,,	4/19/2024 7:40 am
30	ADPL2.D	ABNLVI.M	IL9,32,,ADPL0.2 Lot# 10	WG1911693,,	4/19/2024 8:04 am
31	ADPL1.D	ABNLVI.M	IL10,32,,ADPL0.1 Lot# 1	WG1911693,,	4/19/2024 8:27 am
32	ADPICV.D	ABNLVI.M	CQICV3,32,,ADPICV Lot#	WG1911693,,	4/19/2024 8:51 am
33	Blank1.D	ABNLVI.M	LVI Instrument Blank	WG1911693,,	4/19/2024 9:15 am

Printed: 04/22/24 Page: 1

Dep.: GCMS
Inst: SV106
Date: **06/17/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1935225**

Vial	Data File	Sample	CCAL	notes	Initials
141	DEG0617	wg-1,32,,Degdftpp Lot # 10812			
142	ABN0617	wg-3,32,,ABN 10526 HNY0517B			
144	ADP0617	wg-4,32,,AP9 10770 gmr0616A			
143	AP90617	wg-5,32,,ADP 10751 gmr0518B			
1	934766-1	WG1934766/4773-1,32,,HNY			
2	934766-2	WG1934766/4773-2,32,,HNY			
3	934766-3	WG1934766/4773-3,32,,HNY			
4	138-05d1	L2432138-05d,32,10,RV,HNY			
5	138-03d1	L2432138-03d,32,10,RV,HNY			
6	32371-03	L2432371-03,32,,HNY			
7	32371-04	L2432371-04,32,,HNY			
8	282-01d1	L2432282-01d,32,20,HNY			
9	934926-2	WG1934926-2,32,,HNY			
10	934926-3	WG1934926-3,32,,HNY			
11	934926-1	WG1934926-1,32,,HNY			
12	138-03d2	L2432138-03d,32,10,sz			
13	282-01d2	L2432282-01d,32,100,rr			
14	32570-01	L2432570-01,32,,R3C,HNY			
15	32570-03	L2432570-03,32,,R3C,HNY			
16	32570-05	L2432570-05,32,,R3C,HNY			
17	32791-34	L2432791-34,32,,HNY			
18	32633-04	L2432633-04,32,,HNY			
19	32633-03	L2432633-03,32,,HNY			
20	32633-02	L2432633-02,32,,HNY			
21	32633-01	L2432633-01,32,,HNY			
22	32552-03	L2432552-03,32,,HNY			
23	32552-02	L2432552-02,32,,HNY			
24	32552-01	L2432552-01,32,,HNY			
25	33045-03	L2433045-03,32,,HNY			
26	33045-12	L2433045-12,32,,HNY			
27	22662-46	L2422662-46,32,,HNY			
28	934926-4	WG1934926-4,32,,HNY			
29	934926-5	WG1934926-5,32,,HNY			ALL 6/17/24

ORGANIC ELN REPORT

Workgroup: WG1934773

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10736aj,11/06/2024,d1,4,4
Spike Type: ABN **Lot #:** 10737-10/31/24 ;; 10738-8/30/2
Spike Verify by: NBD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A050724
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432371-03 WATER	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
L2432371-04 WATER	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
L2432552-01 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
L2432552-02 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
L2432552-03 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
L2432633-01 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
L2432633-02 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:50	Victor Kono	1	H

Reported: 18-JUN-24 09:14 AM

ORGANIC ELN REPORT

Workgroup: WG1934773

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2432633-03 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:50	Victor Kono	1	H
L2432633-04 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:50	Victor Kono	1	H
L2432791-34 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:50	Victor Kono	1	H
WG1934773-1 BLANK	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
	WG1934766, WG1934767, WG1934774									
WG1934773-2 LCS	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1	.1	06/15/24 17:30	Victor Kono	1	H
WG1934773-3 LCSD	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1	.1	06/15/24 17:30	Victor Kono	1	H

Reported: 18-JUN-24 09:14 AM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-11S (L2432633-01)	29	29	81	76	37	95	0
MW-11D (L2432633-02)	41	29	64	59	64	78	0
MW-13S (L2432633-03)	38	34	82	79	56	98	0
MW-13D (L2432633-04)	13*	12	79	76	27	92	1
WG1934774-1BLANK	60	45	85	77	83	100	0
WG1934774-2LCS	34	39	81	73	49	90	0
WG1934774-3LCSD	53	44	77	69	81	85	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934774-2 **Analysis Date** : 06/17/24 09:10	**File ID**	: 934774-2
LCSD Sample ID	: WG1934774-3 **Analysis Date** : 06/17/24 09:26	**File ID**	: 934774-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	15	73	20	14	70	4	40-140	40
2-Chloronaphthalene	20	13	67	20	13	64	5	40-140	40
Fluoranthene	20	18	93	20	18	88	6	40-140	40
Hexachlorobutadiene	20	10	51	20	9.8	49	4	40-140	40
Naphthalene	20	12	62	20	12	59	5	40-140	40
Benzo(a)anthracene	20	16	83	20	16	81	2	40-140	40
Benzo(a)pyrene	20	19	95	20	18	92	3	40-140	40
Benzo(b)fluoranthene	20	18	91	20	17	87	4	40-140	40
Benzo(k)fluoranthene	20	18	90	20	18	88	2	40-140	40
Chrysene	20	16	83	20	15	77	8	40-140	40
Acenaphthylene	20	16	79	20	15	75	5	40-140	40
Anthracene	20	16	82	20	16	79	4	40-140	40
Benzo(ghi)perylene	20	18	92	20	18	89	3	40-140	40
Fluorene	20	16	81	20	15	76	6	40-140	40
Phenanthrene	20	16	81	20	15	76	6	40-140	40
Dibenzo(a,h)anthracene	20	20	99	20	20	98	1	40-140	40
Indeno(1,2,3-cd)pyrene	20	20	102	20	20	98	4	40-140	40
Pyrene	20	18	92	20	18	89	3	40-140	40
2-Methylnaphthalene	20	13	65	20	12	62	5	40-140	40
Pentachlorophenol	20	8.0	40	20	12	61	42 Q	40-140	40
Hexachlorobenzene	20	15	77	20	15	73	5	40-140	40
Hexachloroethane	20	11	54	20	10	52	4	40-140	40
Bis(2-chloroethyl)ether	20	15	76	20	14	71	7	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934774-1	**Lab File ID**	: 934774-1
Instrument ID	: SV120	**Extraction Date**	: 06/15/24
Matrix	: WATER	**Analysis Date**	: 06/17/24 09:42
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1934774-2LCS	WG1934774-2	06/17/24 09:10
WG1934774-3LCSD	WG1934774-3	06/17/24 09:26
MW-11S	L2432633-01	06/17/24 13:15
MW-11D	L2432633-02	06/17/24 13:31
MW-13S	L2432633-03	06/17/24 13:48
MW-13D	L2432633-04	06/17/24 14:04

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 05/21/24 09:54
Tune Standard	: R1834227-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52.6
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	54.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	23.7
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.9
442	Base Peak, or >50% of mass 198	58.5
443	15.0 - 24.0% of mass 442	10.8 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL9	R1834227-12	IL9	05/21/24 10:37
IL8	R1834227-11	IL8	05/21/24 10:53
IL7	R1834227-10	IL7	05/21/24 11:10
IL6	R1834227-9	IL6	05/21/24 11:26
IL5	R1834227-8	IL5	05/21/24 11:42
IL4	R1834227-7	IL4	05/21/24 11:59
IL3	R1834227-6	IL3	05/21/24 12:15
IL2	R1834227-5	IL2	05/21/24 12:32
IL1	R1834227-3	IL1	05/21/24 12:48

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 05/22/24 13:16
Tune Standard	: R1834227-2	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.4
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	51
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.5
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	79.9
443	15.0 - 24.0% of mass 442	16.3 (20.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10a	R1834227-4	IL10A	05/22/24 13:32
ICV Quant Report	R1834227-13	ICVA	05/22/24 13:49

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/17/24 06:47
Tune Standard	: WG1935125-1	**Tune File ID**	: deg0617_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	45.2
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.1 (.2)1
127	10.0 - 80.0% of Base Peak	50.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	27.8
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than 24% of mass 442	19.1
442	Base Peak, or >50% of mass 198	86.4
443	15.0 - 24.0% of mass 442	15.7 (18.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935125-4TFACTOR-B	WG1935125-4	DEG0617	06/17/24 06:47
WG1935125-5TFACTOR-P	WG1935125-5	DEG0617	06/17/24 06:47
WG1935125-3CCAL	WG1935125-3	CCV0617	06/17/24 07:04
WG1934774-2LCS	WG1934774-2	934774-2	06/17/24 09:10
WG1934774-3LCSD	WG1934774-3	934774-3	06/17/24 09:26
WG1934774-1BLANK	WG1934774-1	934774-1	06/17/24 09:42
MW-11S	L2432633-01	32633-01	06/17/24 13:15
MW-11D	L2432633-02	32633-02	06/17/24 13:31
MW-13S	L2432633-03	32633-03	06/17/24 13:48
MW-13D	L2432633-04	32633-04	06/17/24 14:04

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/17/24 07:04:00
Sample No	: WG1935125-3	**Lab File ID**	: CCV0617

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1935125-3	108607	2.21	406711	2.87	240410	3.84
Upper Limit	217214	2.71	813422	3.37	480820	4.34
Lower Limit	54304	1.71	203356	2.37	120205	3.34
Sample ID						
WG1934774-2 LCS	116947	2.20	457163	2.86	255077	3.84
WG1934774-3 LCSD	124154	2.21	484069	2.86	270340	3.84
WG1934774-1 BLANK	104981	2.21	387609	2.86	220102	3.84
MW-11S	117917	2.20	441277	2.86	256573	3.84
MW-11D	118201	2.21	445661	2.86	259809	3.84
MW-13S	119716	2.21	448861	2.86	259026	3.84
MW-13D	116462	2.20	431334	2.86	249844	3.84

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/17/24 07:04:00
Sample No	: WG1935125-3	**Lab File ID**	: CCV0617

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1935125-3	525169	4.68	478566	6.21	501063	7.38
Upper Limit	1050338	5.18	957132	6.71	1002126	7.88
Lower Limit	262585	4.18	239283	5.71	250532	6.88
Sample ID						
WG1934774-2 LCS	550061	4.67	470858	6.21	477040	7.38
WG1934774-3 LCSD	584803	4.67	506491	6.21	516363	7.38
WG1934774-1 BLANK	482812	4.67	453964	6.20	466803	7.37
MW-11S	567792	4.67	515522	6.21	503569	7.38
MW-11D	572024	4.67	522464	6.21	519689	7.37
MW-13S	565160	4.67	511702	6.21	506920	7.37
MW-13D	547644	4.67	504029	6.21	505520	7.37

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 13:15
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-01	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.05	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 13:15
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-01	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 13:31
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-02	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 13:31
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-02	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 13:48
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-03	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.07	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 13:48
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-03	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:04
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-04	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:04
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 32633-04	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934774-1	**Date Collected**	: NA
Client ID	: WG1934774-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 09:42
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 934774-1	**Analyst**	: DV
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934774-1	**Date Collected**	: NA
Client ID	: WG1934774-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 09:42
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 934774-1	**Analyst**	: DV
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 01:15 pm
Operator : SV120:ah
Sample : L2432633-01,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 18 09:20:26 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	117917	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery	= 108.57%		
8) Naphthalene-d8	2.864	136	441277	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery	= 108.50%		
17) Acenaphthene-d10	3.835	164	256573	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery	= 106.72%		
22) Phenanthrene-d10	4.672	188	567792	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery	= 108.12%		
31) Chrysene-d12	6.209	240	515522	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery	= 107.72%		
36) Perylene-d12	7.375	264	503569	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery	= 100.50%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	20550	586.367	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 29.32%		
3) Phenol-d6	2.018	99	24295	576.704	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 28.84%		
7) Nitrobenzene-d5	2.481	82	30418	810.411	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 81.04%		
13) 2-Fluorobiphenyl	3.459	172	70933	755.980	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 75.60%		
21) 2,4,6-Tribromophenol	4.278	330	12839	738.071	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 36.90%		
30) 4-Terphenyl-d14	5.583	244	109957	951.787	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 47.59%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.874	128	565M6	4.530	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 01:15 pm
Operator : SV120:ah
Sample : L2432633-01,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 18 09:20:26 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

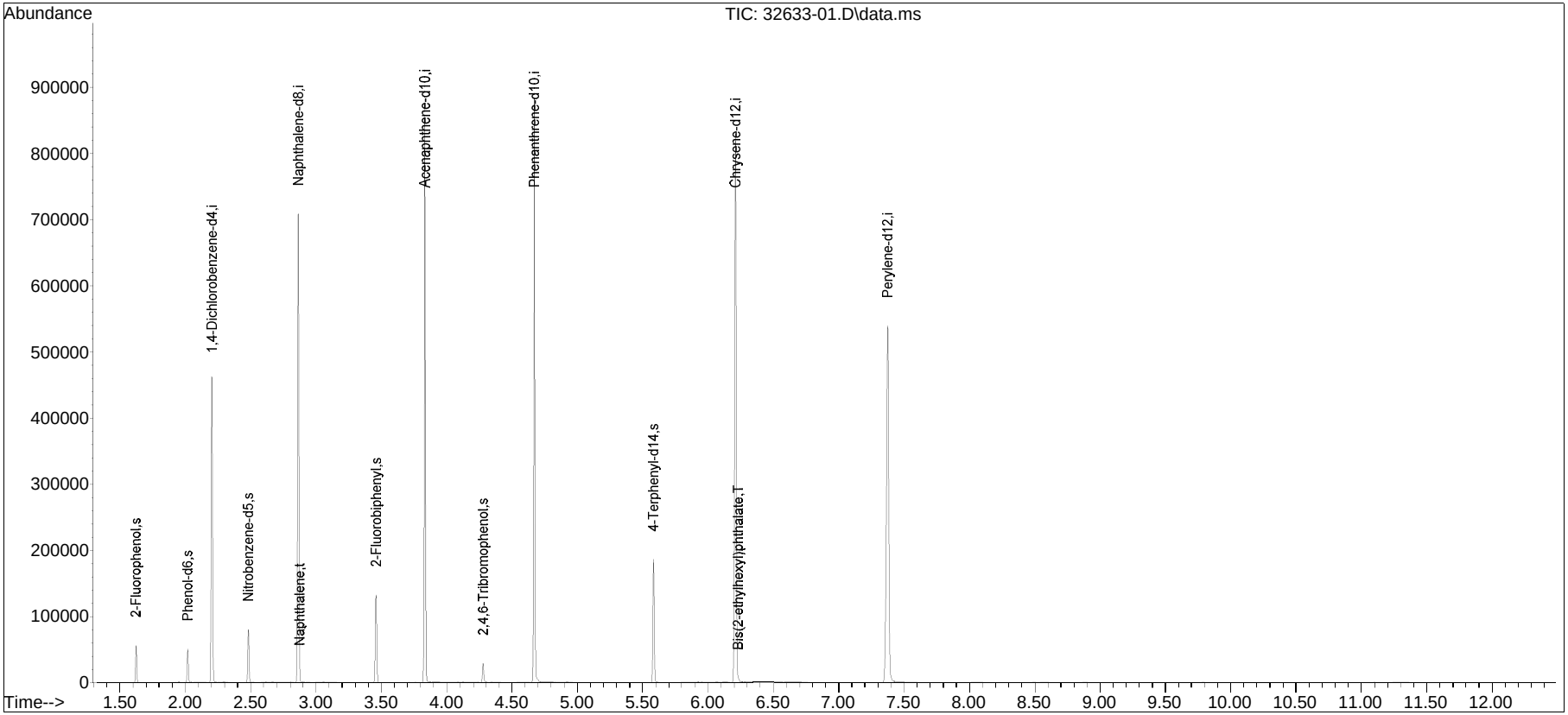
(#) = qualifier out of range (m) = manual integration (+) = signals summed

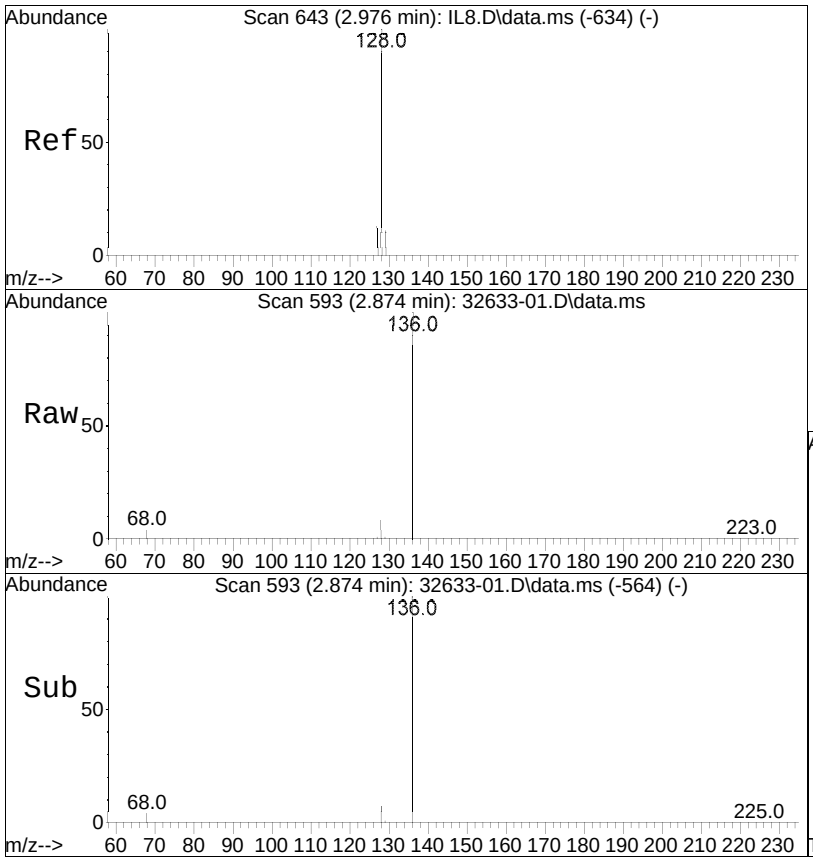
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-01.D
Acq On : 17 Jun 2024 01:15 pm
Operator : SV120:ah
Sample : L2432633-01,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 18 09:20:26 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

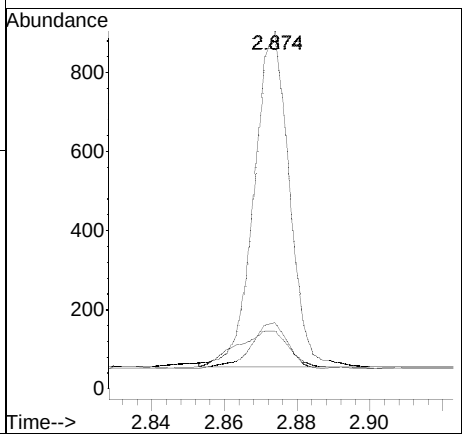




#9
Naphthalene
Concen: 4.53 ng/ml M6
RT: 2.874 min Scan# 593
Delta R.T. -0.004 min
Lab File: 32633-01.D
Acq: 17 Jun 2024 01:15 pm

Tgt Ion:128 Resp: 565

Ion	Ratio	Lower	Upper
128	100		
129	17.5	9.0	13.4#
127	14.5	11.3	16.9

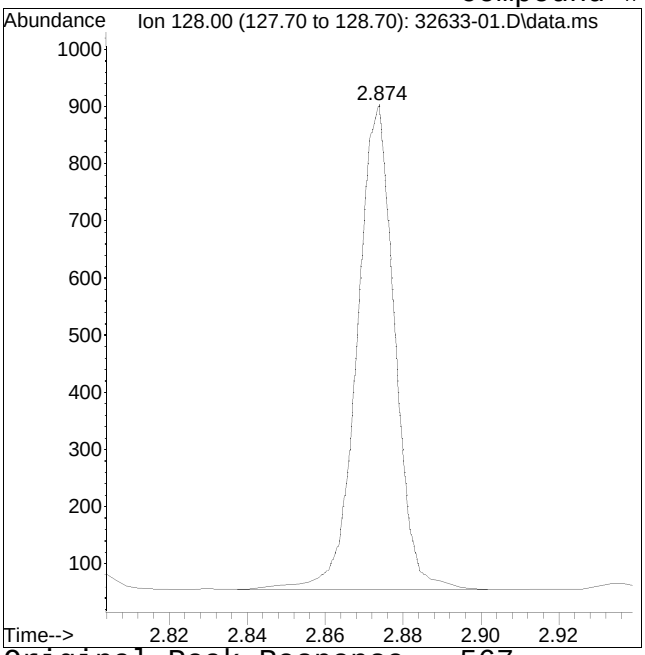


Manual Integration Report

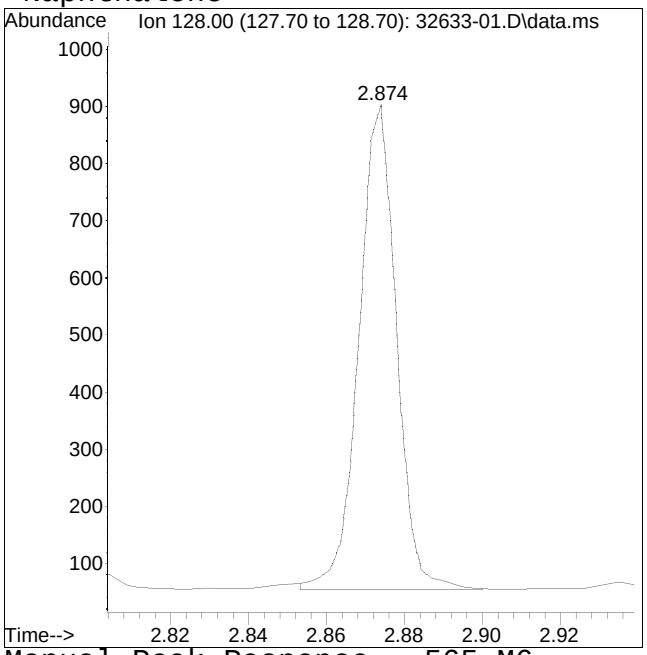
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 32633-01.D
Date Inj'd : 6/17/2024 1:15 pm
Sample : L2432633-01,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 1:29 pm

Compound #9: Naphthalene



Original Peak Response = 567



Manual Peak Response = 565 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 01:31 pm
Operator : SV120:ah
Sample : L2432633-02,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 18 09:23:16 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.205	152	118201	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 108.83%			
8) Naphthalene-d8	2.864	136	445661	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 109.58%			
17) Acenaphthene-d10	3.837	164	259809	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 108.07%			
22) Phenanthrene-d10	4.671	188	572024	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 108.92%			
31) Chrysene-d12	6.208	240	522464	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 109.17%			
36) Perylene-d12	7.374	264	519689	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery = 103.72%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	29103	828.421	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.42%			
3) Phenol-d6	2.021	99	24245	574.135	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.71%			
7) Nitrobenzene-d5	2.483	82	24147	641.790	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.18%			
13) 2-Fluorobiphenyl	3.460	172	55553	586.241	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 58.62%			
21) 2,4,6-Tribromophenol	4.280	330	22665	1283.513	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 64.18%			
30) 4-Terphenyl-d14	5.583	244	90548	777.984	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 38.90%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.460	284	19M2	0.461	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 01:31 pm
Operator : SV120:ah
Sample : L2432633-02,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 18 09:23:16 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

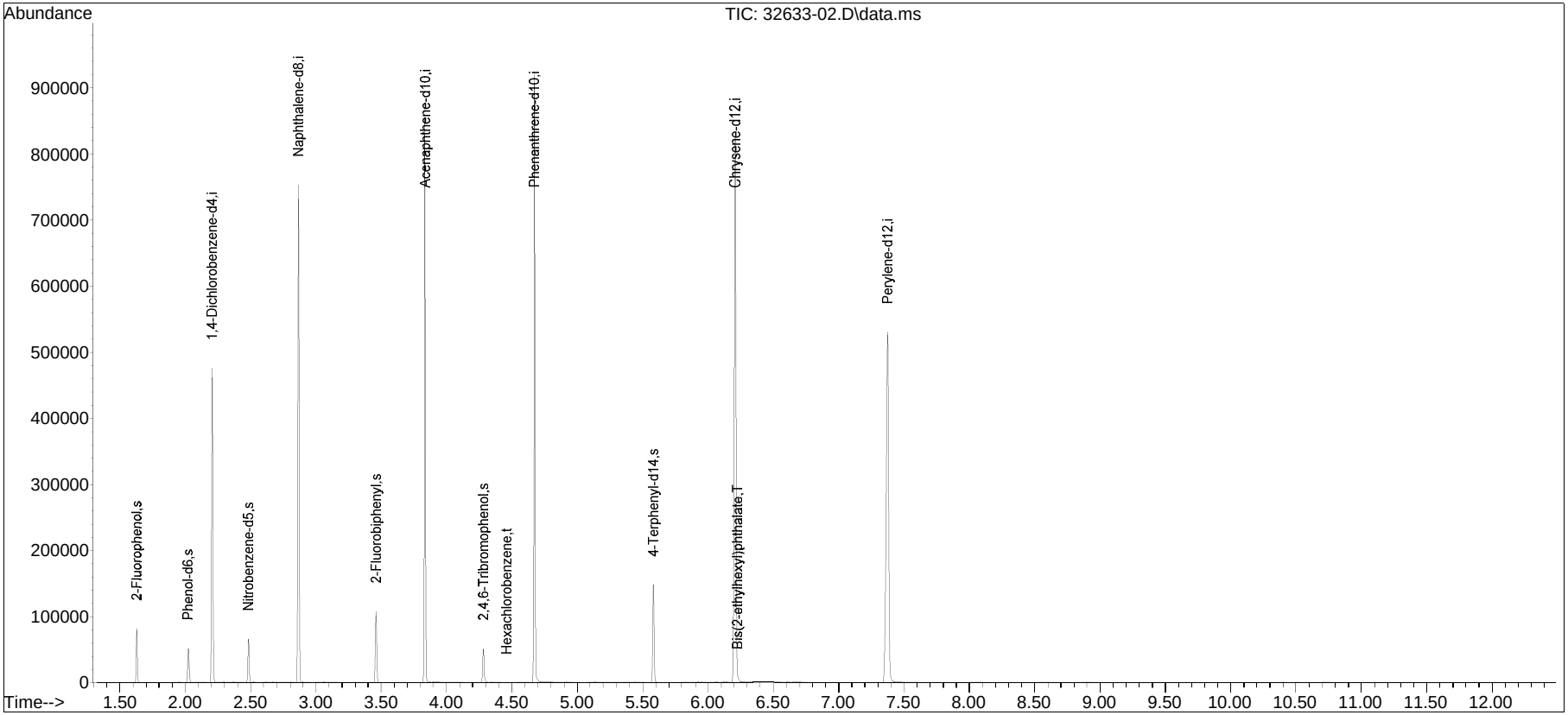
(#) = qualifier out of range (m) = manual integration (+) = signals summed

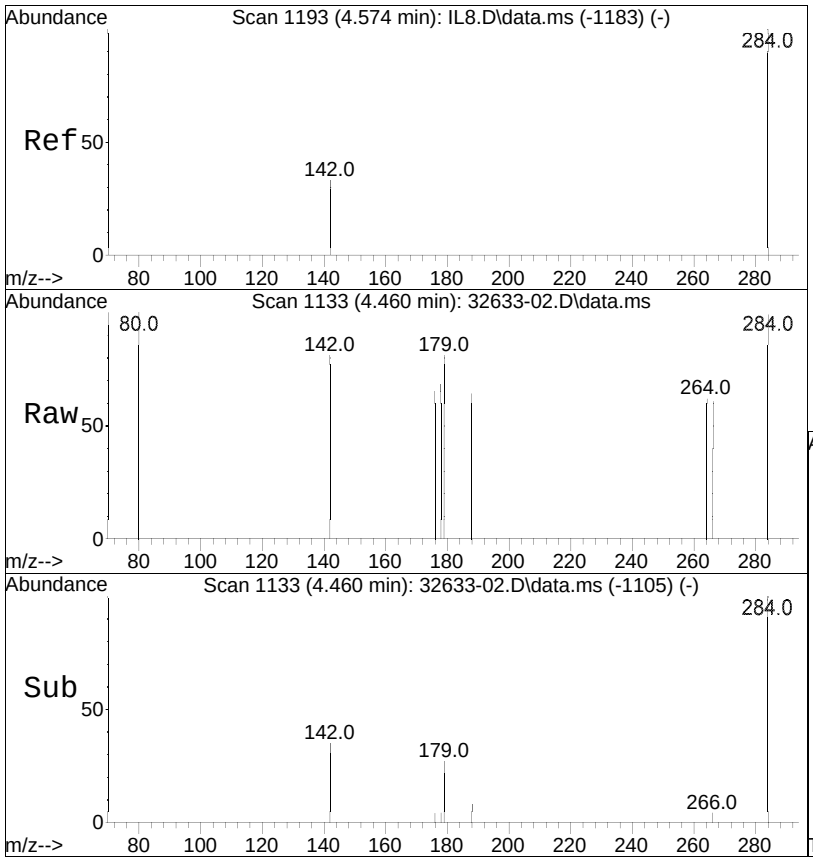
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-02.D
Acq On : 17 Jun 2024 01:31 pm
Operator : SV120:ah
Sample : L2432633-02,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 18 09:23:16 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

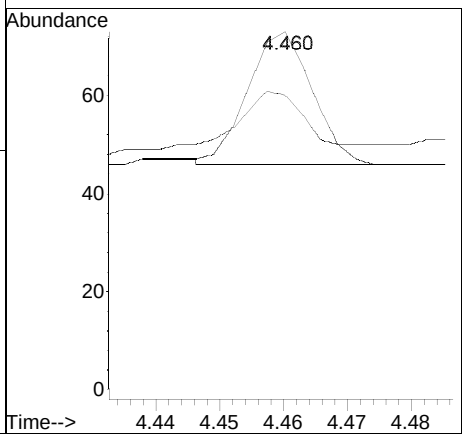




#24
Hexachlorobenzene
Concen: 0.46 ng/ml M2
RT: 4.460 min Scan# 1133
Delta R.T. -0.004 min
Lab File: 32633-02.D
Acq: 17 Jun 2024 01:31 pm

Tgt Ion:284 Resp: 19

Ion	Ratio	Lower	Upper
284	100		
142	36.8	26.8	40.2

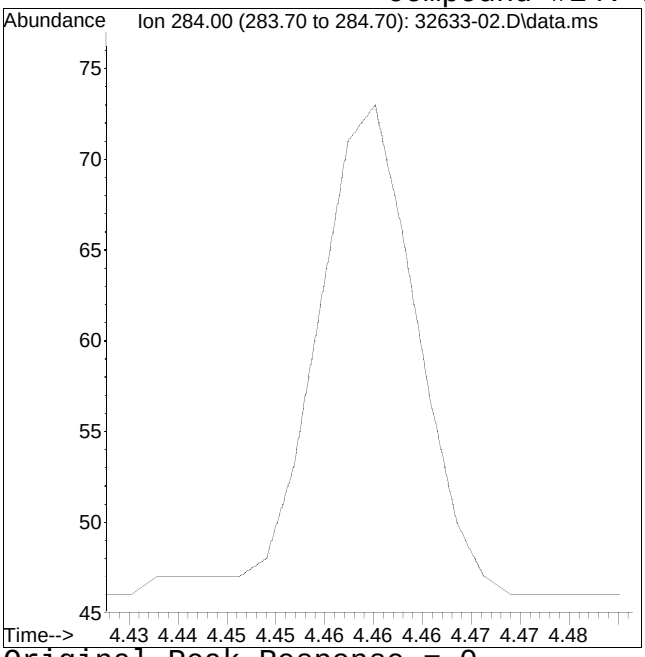


Manual Integration Report

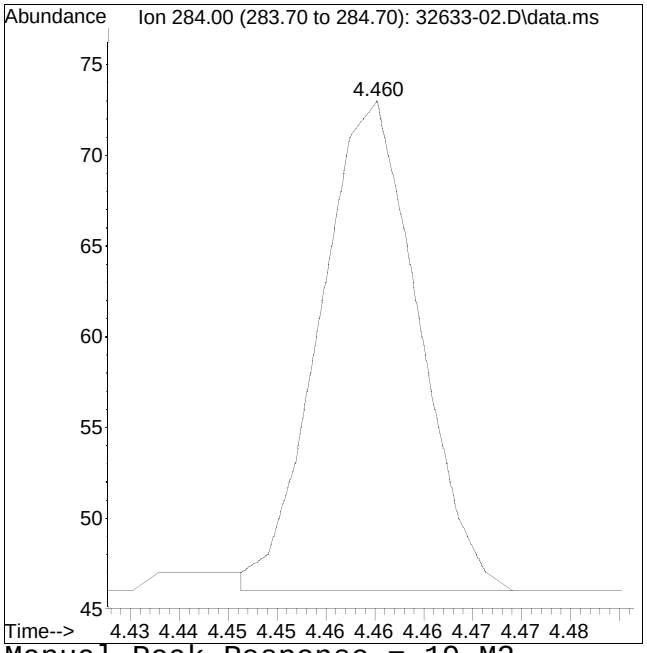
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 32633-02.D
Date Inj'd : 6/17/2024 1:31 pm
Sample : L2432633-02,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 1:45 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 0



Manual Peak Response = 19 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 01:48 pm
Operator : SV120:ah
Sample : L2432633-03,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 09:30:14 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.205	152	119716	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 110.23%			
8) Naphthalene-d8	2.864	136	448861	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 110.36%			
17) Acenaphthene-d10	3.836	164	259026	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 107.74%			
22) Phenanthrene-d10	4.674	188	565160	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 107.61%			
31) Chrysene-d12	6.208	240	511702	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 106.92%			
36) Perylene-d12	7.373	264	506920	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery = 101.17%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.630	112	27193	764.257	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.21%			
3) Phenol-d6	2.021	99	29421	687.888	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 34.39%			
7) Nitrobenzene-d5	2.484	82	31251	820.092	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 82.01%			
13) 2-Fluorobiphenyl	3.460	172	75571	791.802	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.18%			
21) 2,4,6-Tribromophenol	4.279	330	19629	1115.510	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.78%			
30) 4-Terphenyl-d14	5.582	244	112633	979.490	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.97%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.874	128	842	6.636	ng/ml#	94
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	4.144	166	86M6	0.898	ng/ml	
24) Hexachlorobenzene	4.460	284	42M7	1.031	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 01:48 pm
Operator : SV120:ah
Sample : L2432633-03,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 09:30:14 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

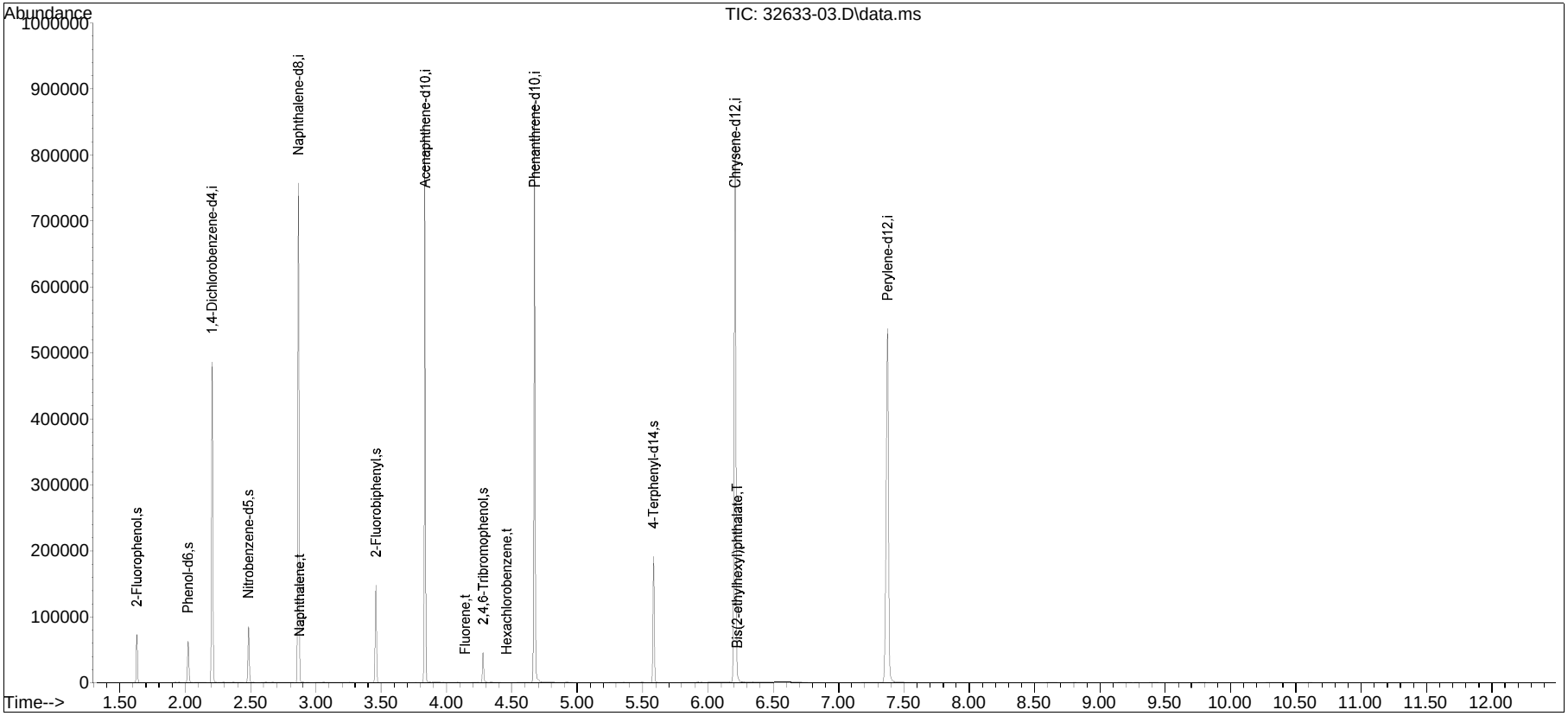
(#) = qualifier out of range (m) = manual integration (+) = signals summed

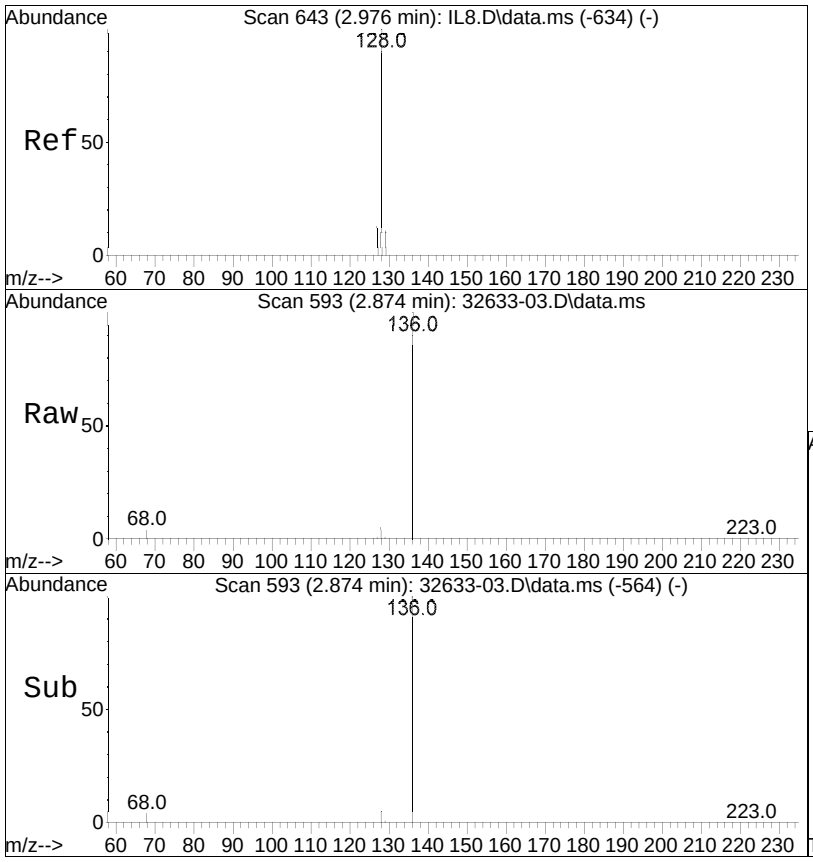
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-03.D
Acq On : 17 Jun 2024 01:48 pm
Operator : SV120:ah
Sample : L2432633-03,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 09:30:14 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

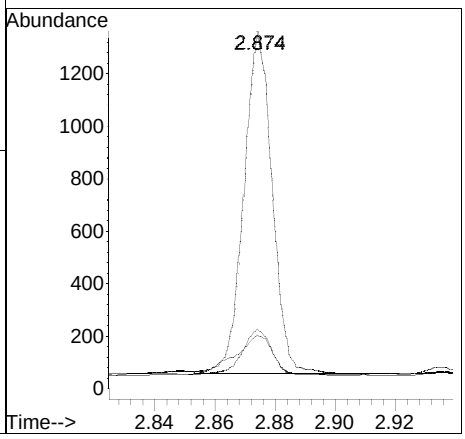


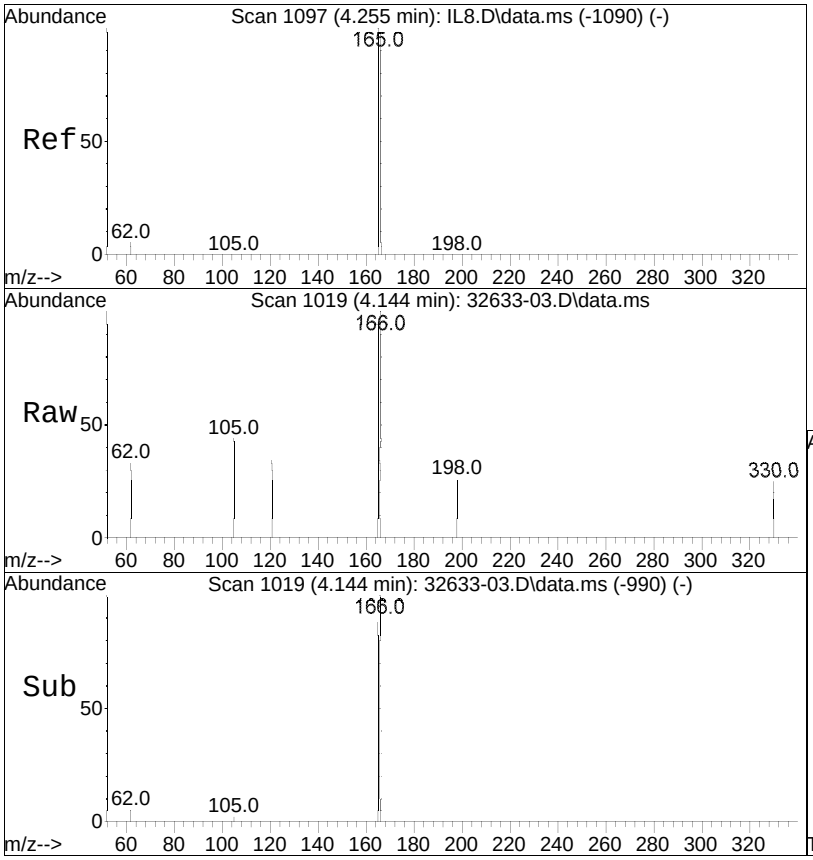


#9
Naphthalene
Concen: 6.64 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.004 min
Lab File: 32633-03.D
Acq: 17 Jun 2024 01:48 pm

Tgt Ion:128 Resp: 842

Ion	Ratio	Lower	Upper
128	100		
129	15.6	9.0	13.4#
127	13.5	11.3	16.9

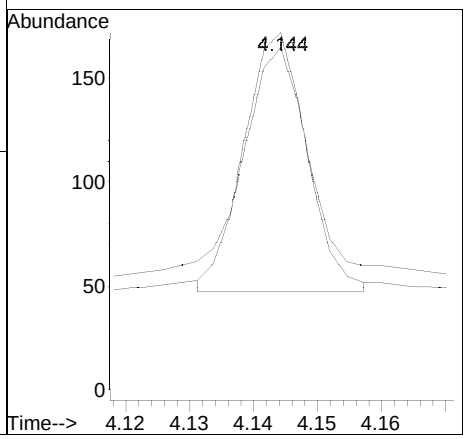


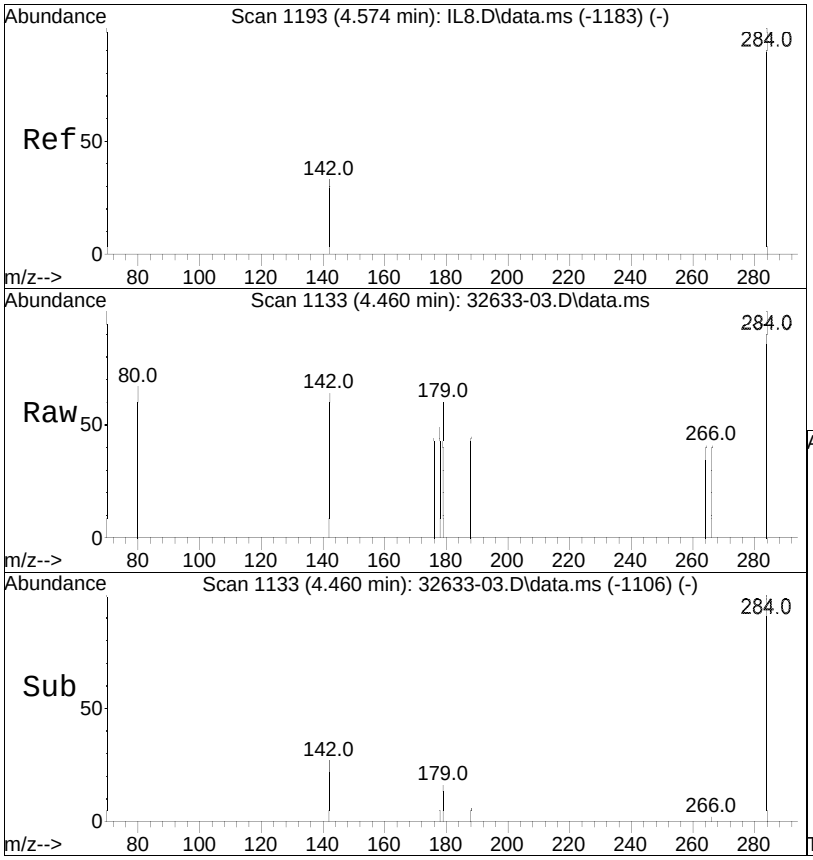


#20
Fluorene
Concen: 0.90 ng/ml M6
RT: 4.144 min Scan# 1019
Delta R.T. -0.004 min
Lab File: 32633-03.D
Acq: 17 Jun 2024 01:48 pm

Tgt Ion:166 Resp: 86

Ion	Ratio	Lower	Upper
166	100		
165	93.0	81.9	122.9

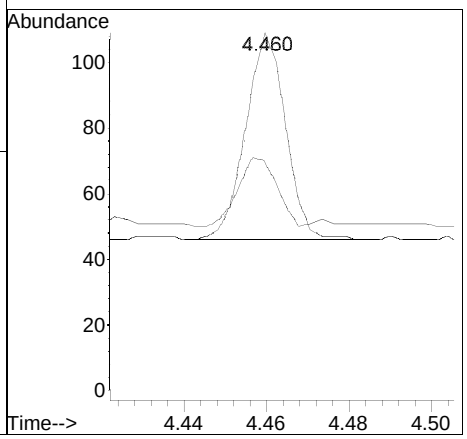




#24
Hexachlorobenzene
Concen: 1.03 ng/ml M7
RT: 4.460 min Scan# 1133
Delta R.T. -0.004 min
Lab File: 32633-03.D
Acq: 17 Jun 2024 01:48 pm

Tgt Ion:284 Resp: 42

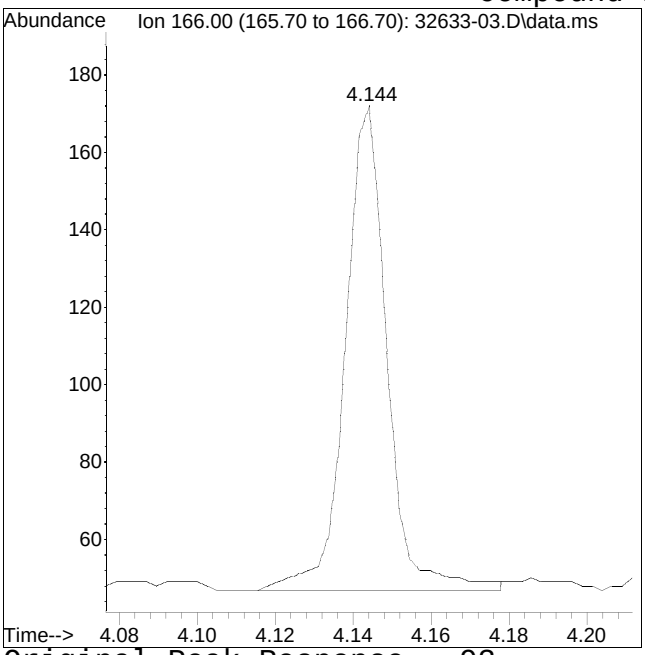
Ion	Ratio	Lower	Upper
284	100		
142	35.7	26.8	40.2



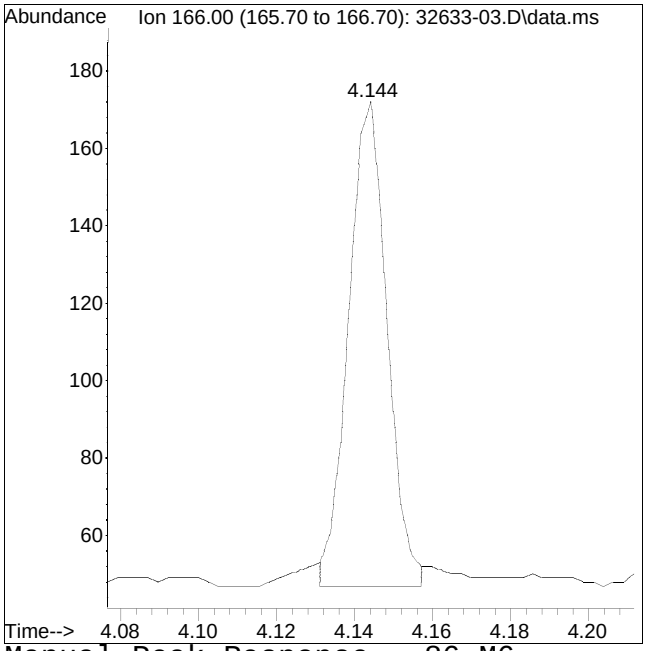
Manual Integration Report

Data Path : I:\8270SIM\sv120\240617RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 32633-03.D Operator : SV120:ah
Date Inj'd : 6/17/2024 1:48 pm Instrument : SV120
Sample : L2432633-03,32,,ah Quant Date : 6/17/2024 2:01 pm

Compound #20: Fluorene



Original Peak Response = 93



Manual Peak Response = 86 M6

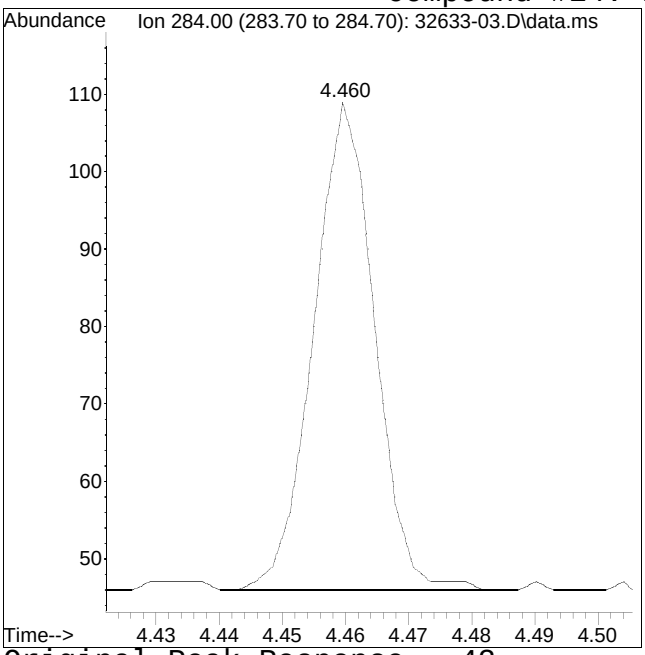
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

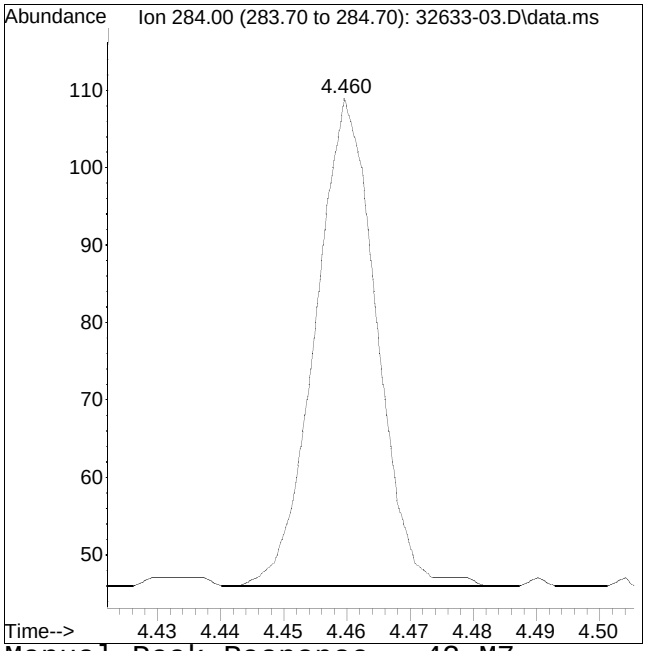
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 32633-03.D
Date Inj'd : 6/17/2024 1:48 pm
Sample : L2432633-03,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 2:01 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 42



Manual Peak Response = 42 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 02:04 pm
Operator : SV120:ah
Sample : L2432633-04,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 18 09:32:35 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	116462	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 107.23%			
8) Naphthalene-d8	2.863	136	431334	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 106.05%			
17) Acenaphthene-d10	3.836	164	249844	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 103.92%			
22) Phenanthrene-d10	4.673	188	547644	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 104.28%			
31) Chrysene-d12	6.207	240	504029	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 105.32%			
36) Perylene-d12	7.370	264	505520	4000.000	ng/ml	-0.01
Standard Area 1 = 501063			Recovery = 100.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	9103	262.987	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 13.15%#			
3) Phenol-d6	2.021	99	9648	231.881	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 11.59%#			
7) Nitrobenzene-d5	2.483	82	29295	790.242	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.02%			
13) 2-Fluorobiphenyl	3.459	172	70055	763.834	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 76.38%			
21) 2,4,6-Tribromophenol	4.279	330	8991	531.990	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.60%			
30) 4-Terphenyl-d14	5.584	244	102383	918.831	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 45.94%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.459	284	15M2	0.380	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 02:04 pm
Operator : SV120:ah
Sample : L2432633-04,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 18 09:32:35 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

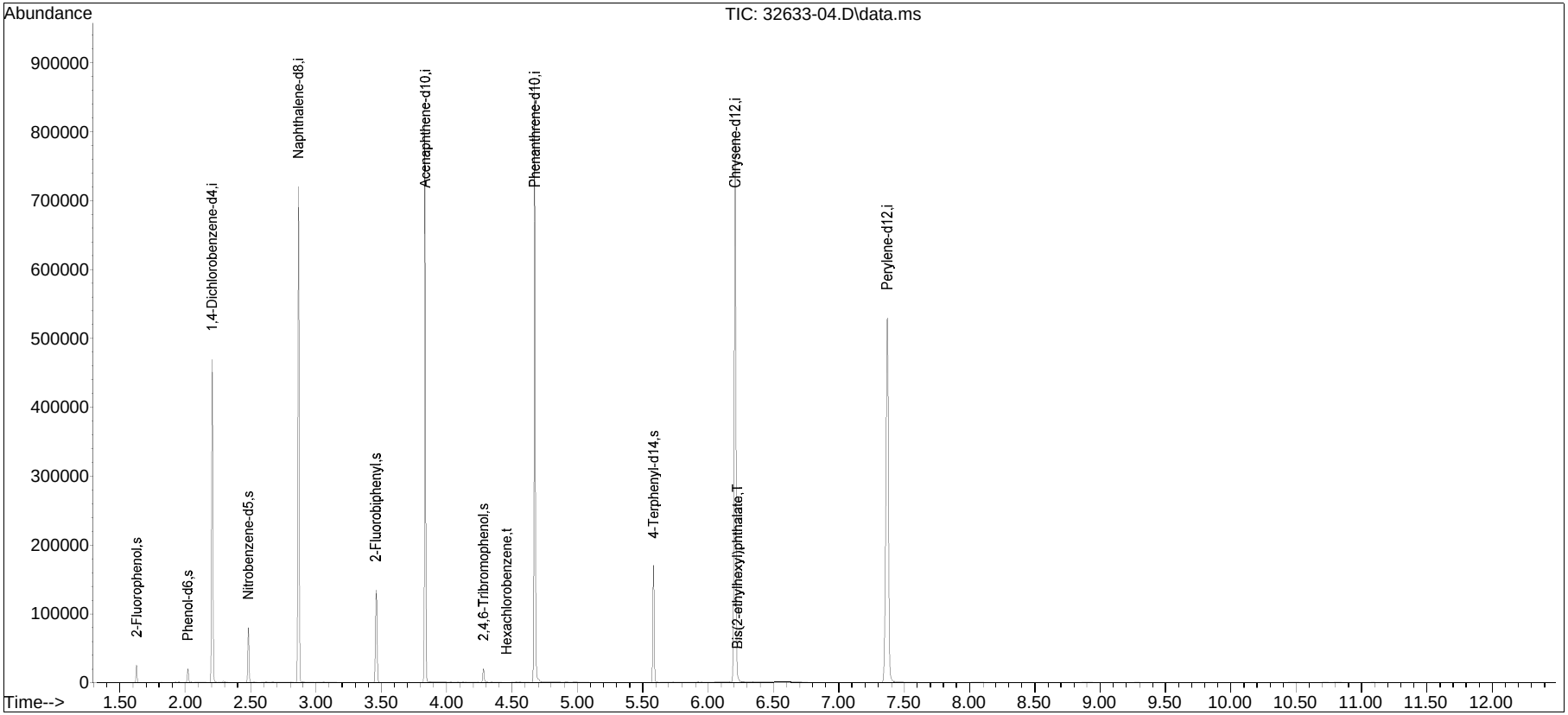
(#) = qualifier out of range (m) = manual integration (+) = signals summed

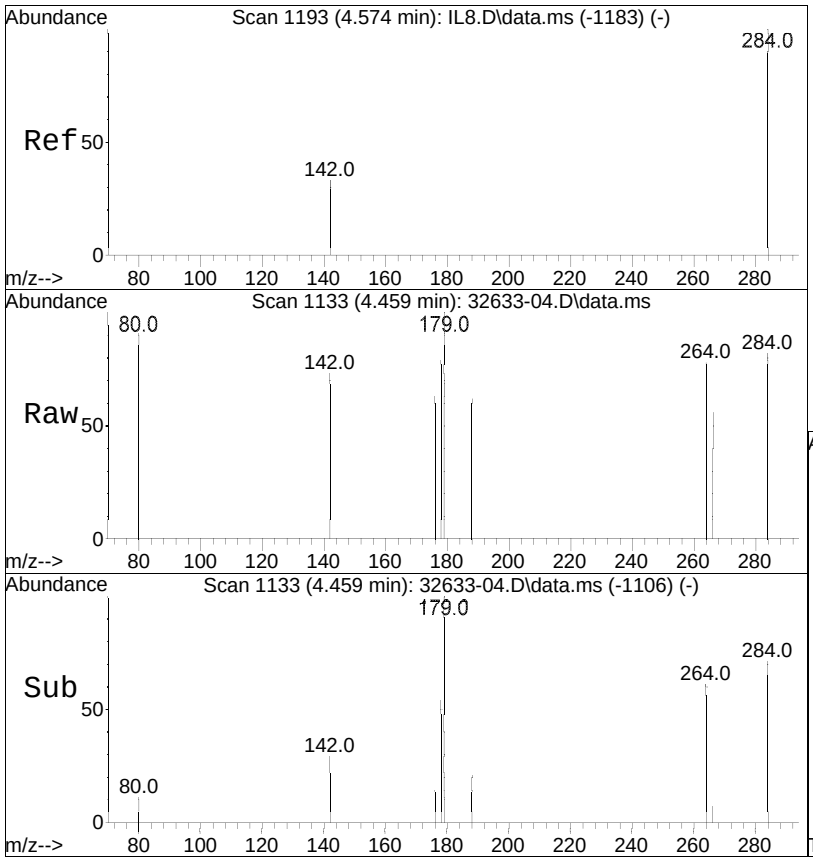
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 32633-04.D
Acq On : 17 Jun 2024 02:04 pm
Operator : SV120:ah
Sample : L2432633-04,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 18 09:32:35 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

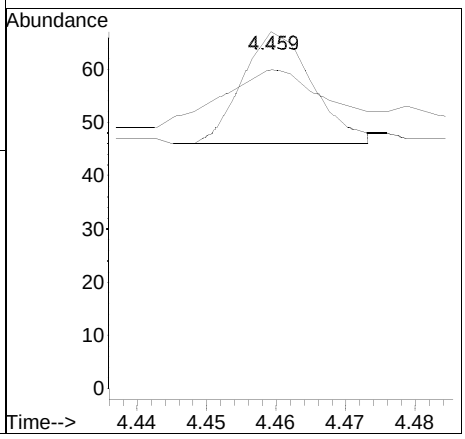




#24
Hexachlorobenzene
Concen: 0.38 ng/ml M2
RT: 4.459 min Scan# 1133
Delta R.T. -0.005 min
Lab File: 32633-04.D
Acq: 17 Jun 2024 02:04 pm

Tgt Ion:284 Resp: 15

Ion	Ratio	Lower	Upper
284	100		
142	46.7	26.8	40.2#

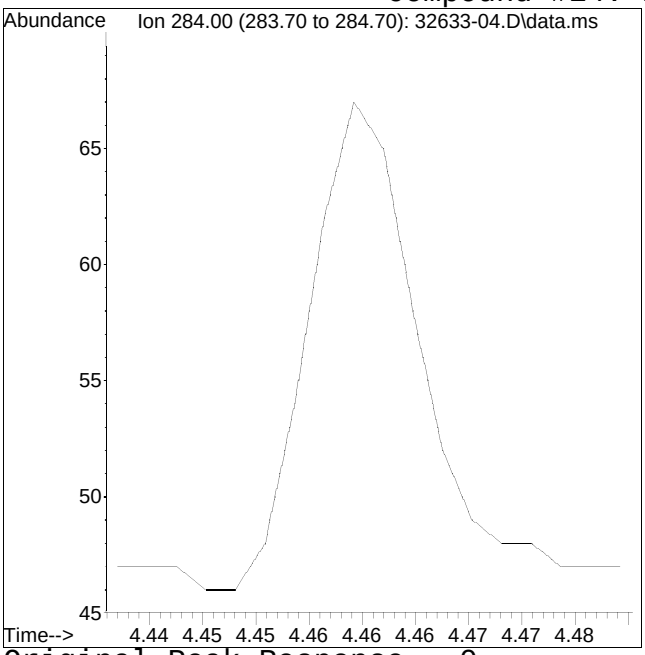


Manual Integration Report

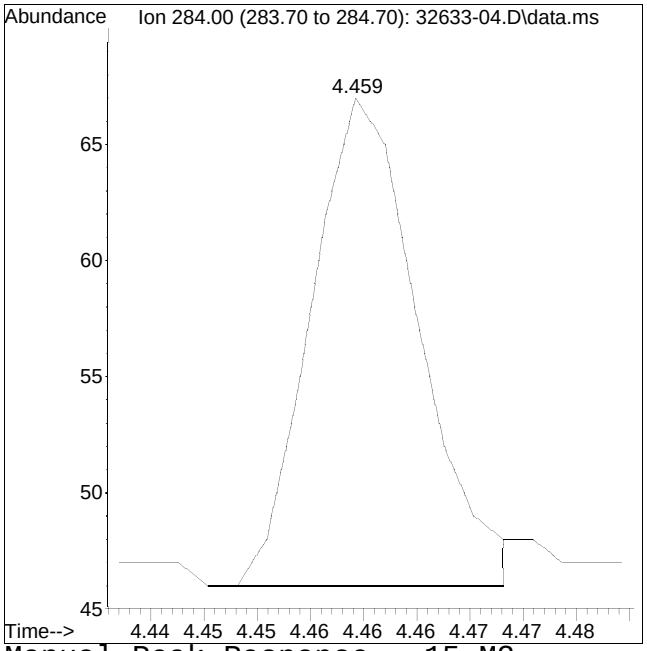
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 32633-04.D
Date Inj'd : 6/17/2024 2:04 pm
Sample : L2432633-04,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 2:17 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 0



Manual Peak Response = 15 M2

M2 = Peak not found by automatic integration algorithm.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21160**
Calibration dates	**: 05/21/24 10:37 05/22/24 13:32**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.134	1.209	1.168	1.143	1.189	1.189	1.218	1.262	1.223	1.153	1.189	3.38
3)	s	Phenol-d6	1.418	1.417	1.351	1.323	1.390	1.404	1.478	1.531	1.502	1.477	1.429	4.67
4)	T	bis(2-Chloroethyl)ether		1.365	1.248	1.232	1.267	1.223	1.289	1.279	1.224	1.240	1.263	3.55
5)	T	n-Nitrosodi-n-propylamine		0.806	0.796	0.784	0.817	0.834	0.916	0.942	0.948	0.953	0.866	8.28
6)	t	Hexachloroethane		0.598	0.567	0.561	0.569	0.560	0.573	0.592	0.575	0.557	0.572	2.50
7)	s	Nitrobenzene-d5		1.248	1.157	1.143	1.218	1.233	1.358	1.370	1.372	1.361	1.273	7.33
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.297	1.229	1.111	1.098	1.119	1.090	1.118	1.122	1.085	1.038	1.131	6.67
10)	t	Hexachlorobutadiene		0.235	0.207	0.218	0.223	0.217	0.216	0.221	0.211	0.200	0.216	4.60
11)	t	2-Methylnaphthalene	0.705	0.723	0.672	0.673	0.704	0.696	0.734	0.736	0.715	0.695	0.705	3.16
12)	t	1-Methylnaphthalene	0.691	0.708	0.638	0.632	0.657	0.653	0.683	0.680	0.658	0.641	0.664	3.80
13)	s	2-Fluorobiphenyl	0.890	0.880	0.820	0.817	0.856	0.850	0.888	0.865	0.830	0.808	0.851	3.58
14)	t	2-Chloronaphthalene		0.745	0.690	0.692	0.723	0.717	0.751	0.743	0.719	0.708	0.721	3.07
15)	t	2,6-Dinitrotoluene					0.123	0.131	0.169	0.174	0.182	0.185	*L	0.9994
16)	t	Acenaphthylene	1.026	1.001	0.940	0.937	1.012	1.038	1.185	1.176	1.155	1.142	1.061	8.97
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.429	1.406	1.317	1.379	1.391	1.364	1.391	1.399	1.359	1.290	1.372	3.06
19)	t	2,4-Dinitrotoluene					0.279	0.312	0.426	0.442	0.463	0.450	*L	0.9995
20)	t	Fluorene	1.603	1.526	1.367	1.348	1.435	1.457	1.566	1.535	1.516	1.442	1.479	5.67
21)	s	2,4,6-Tribromophenol			0.148	0.159	0.181	0.207	0.267	0.272	0.282	0.270	*L	0.9988
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.051	0.062	0.101	0.118	0.127	0.125	*Q	0.9985
24)	t	Hexachlorobenzene	0.320	0.312	0.272	0.277	0.287	0.286	0.289	0.297	0.278	0.263	0.288	6.13
25)	t	Pentachlorophenol					0.038	0.063	0.132	0.160	0.174	0.174	*L	0.9973
26)	t	Phenanthrene	1.027	1.087	1.121	1.111	1.151	1.141	1.190	1.199	1.142	1.077	1.125	4.62
27)	t	Anthracene	1.248	1.079	1.013	1.011	1.062	1.078	1.165	1.179	1.170	1.108	1.111	6.96
28)	t	Fluoranthene	1.394	1.208	1.095	1.074	1.143	1.144	1.312	1.272	1.305	1.251	1.220	8.58
29)	t	Pyrene	1.428	1.281	1.121	1.086	1.168	1.192	1.408	1.326	1.363	1.276	1.265	9.44
30)	s	4-Terphenyl-d14	1.007	0.826	0.770	0.696	0.753	0.761	0.895	0.805	0.819	0.805	0.814	10.57
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		7.698	3.677	2.479	1.646	1.474	1.517	1.598	1.573	1.499	*L	0.9991
33)	t	3,3'-Dichlorobenzene					0.404	0.430	0.535	0.590	0.631	0.608	0.533	17.91
34)	t	Chrysene	1.412	1.560	1.390	1.378	1.466	1.451	1.519	1.504	1.455	1.363	1.450	4.48
35)	T	bis(2-Ethylhexyl)phthalate					0.574	0.592	0.782	0.922	1.021	1.021	*L	0.9970
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21160**
Calibration dates	**: 05/21/24 10:37 05/22/24 13:32**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.520	1.324	1.148	1.134	1.188	1.239	1.353	1.491	1.425	1.406	1.323	10.60
38) t	Benzo[k]fluoranthene	1.284	1.296	1.068	1.093	1.166	1.185	1.392	1.401	1.419	1.287	1.259	10.06
39) t	Benzo[a]pyrene	1.167	1.047	0.899	0.885	0.968	0.992	1.182	1.255	1.278	1.231	1.090	13.72
40) t	Indeno[1,2,3-cd]pyrene	1.029	1.014	0.851	0.853	0.909	0.903	1.074	1.114	1.275	1.246	1.027	14.86
41) t	Dibenzo[a,h]anthracene	0.941	0.890	0.785	0.803	0.894	0.911	1.094	1.119	1.217	1.179	0.983	15.87
42) t	Benzo[g,h,i]perylene	1.059	1.063	0.876	0.890	0.958	0.958	1.115	1.117	1.222	1.188	1.045	11.50

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\240521RVTical\
Method File : SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu May 30 15:58:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
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3)	s	Phenol-d6	1.418	1.417	1.351	1.323	1.390	1.404	1.478	1.531	1.502	1.477	1.429	4.67
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23)	T	4,6-Dinitro-o-cresol					0.051	0.062	0.101	0.118	0.127	0.125	*Q	0.9985
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26)	t	Phenanthrene	1.027	1.087	1.121	1.111	1.151	1.141	1.190	1.199	1.142	1.077	1.125	4.62
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30)	s	4-Terphenyl-d14	1.007	0.826	0.770	0.696	0.753	0.761	0.895	0.805	0.819	0.805	0.814	10.57
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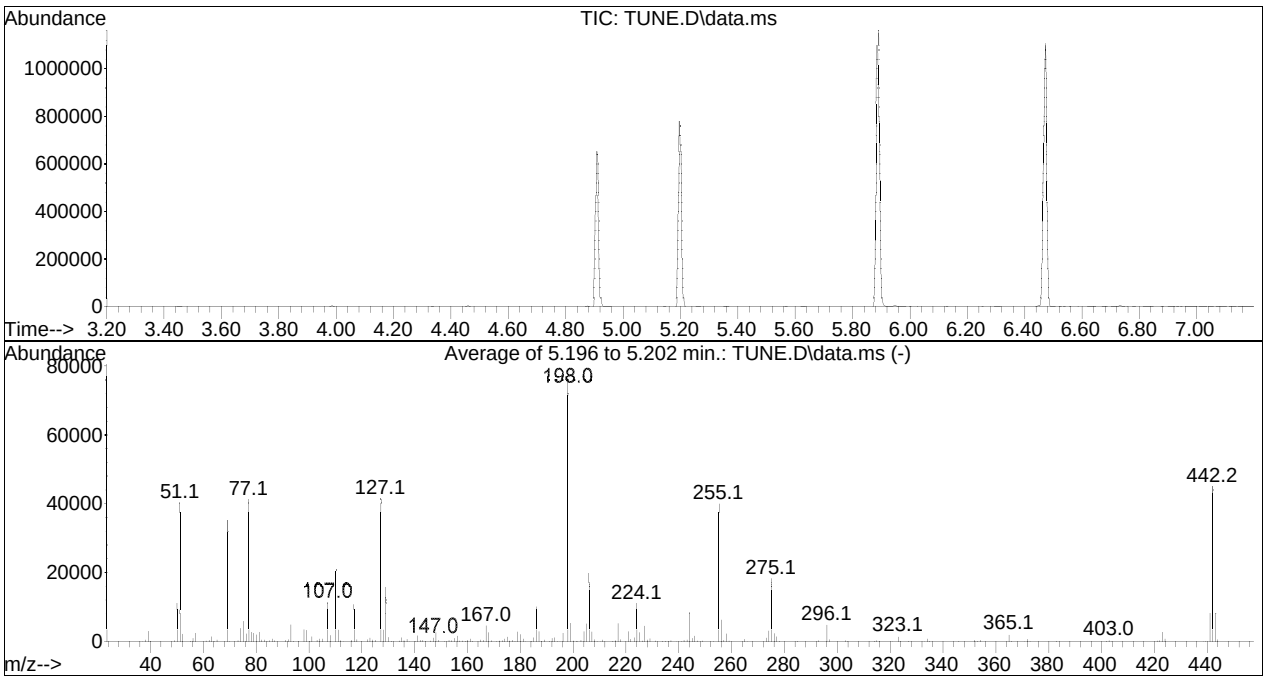
34)	t	Chrysene	1.412	1.560	1.390	1.378	1.466	1.451	1.519	1.504	1.455	1.363	1.450	4.48
35)	T	bis(2-Ethylhexyl)phthalate					0.574	0.592	0.782	0.922	1.021	1.021	*L	0.9970
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.520	1.324	1.148	1.134	1.188	1.239	1.353	1.491	1.425	1.406	1.323	10.60
38)	t	Benzo[k]fluora...	1.284	1.296	1.068	1.093	1.166	1.185	1.392	1.401	1.419	1.287	1.259	10.06
39)	t	Benzo[a]pyrene	1.167	1.047	0.899	0.885	0.968	0.992	1.182	1.255	1.278	1.231	1.090	13.72
40)	t	Indeno[1,2,3-c...	1.029	1.014	0.851	0.853	0.909	0.903	1.074	1.114	1.275	1.246	1.027	14.86
41)	t	Dibenzo[a,h]anthracene	0.941	0.890	0.785	0.803	0.894	0.911	1.094	1.119	1.217	1.179	0.983	15.87
42)	t	Benzo[g,h,i]pe...	1.059	1.063	0.876	0.890	0.958	0.958	1.115	1.117	1.222	1.188	1.045	11.50

(#) = Out of Range

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed May 29 13:17:11 2024



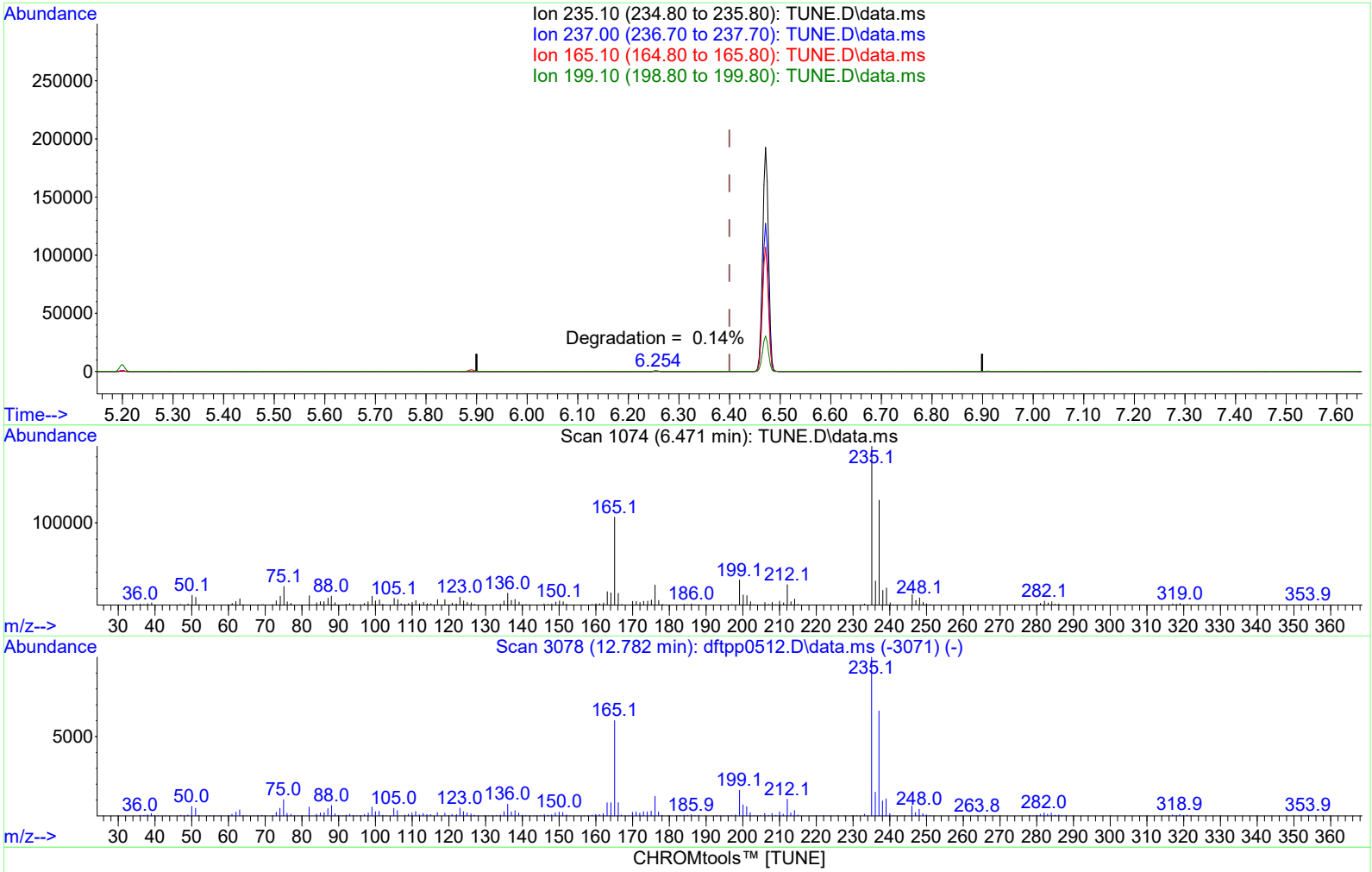
Spectrum Information: Average of 5.196 to 5.202 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.6	40336	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	34992	PASS
70	69	0.00	2	0.5	181	PASS
127	198	10	80	54.1	41488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	76683	PASS
199	198	5	9	6.8	5226	PASS
275	198	10	60	23.7	18193	PASS
365	198	1	100	2.6	2001	PASS
441	442	0.01	24	17.9	8016	PASS
442	198	50	100	58.5	44856	PASS
443	442	15	24	18.5	8298	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(6) ddt (T)

6.471min (+ 0.071) 25.30

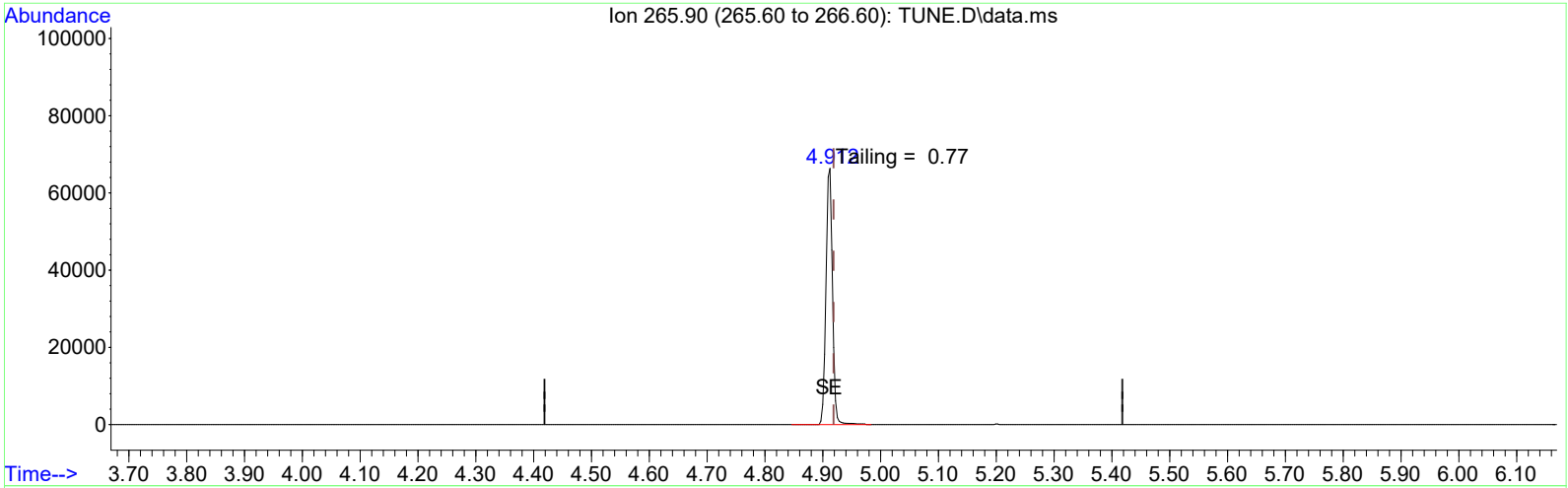
response 154194

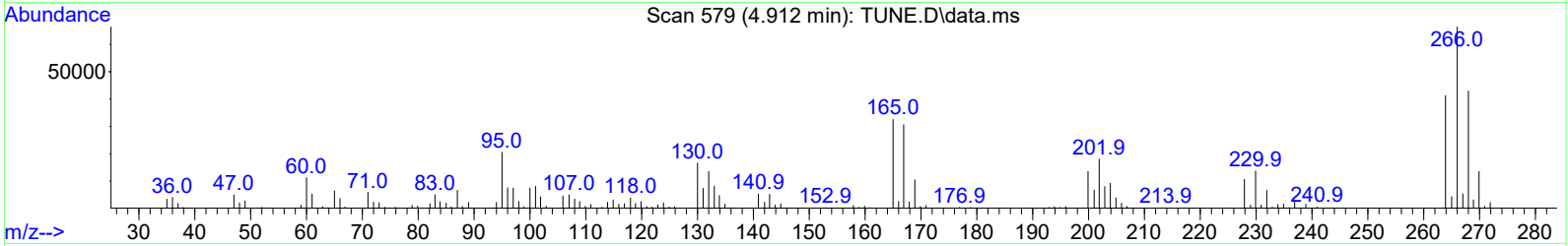
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.41
165.10	53.30	55.59
199.10	17.10	16.03

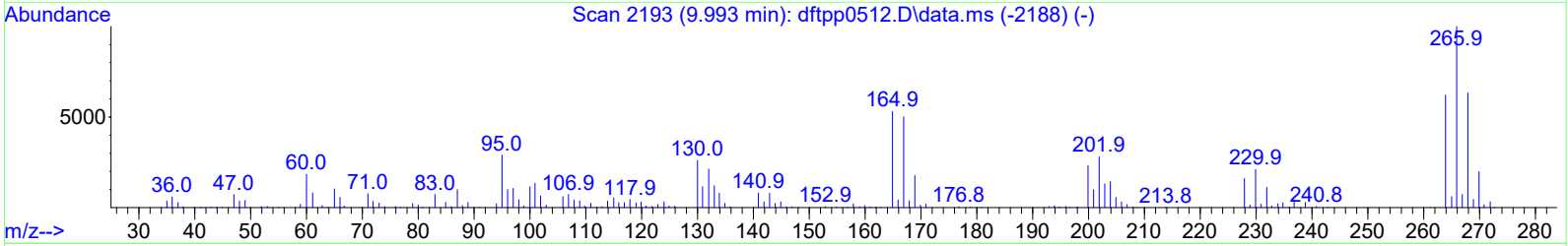
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.912min (-0.007) 24.70

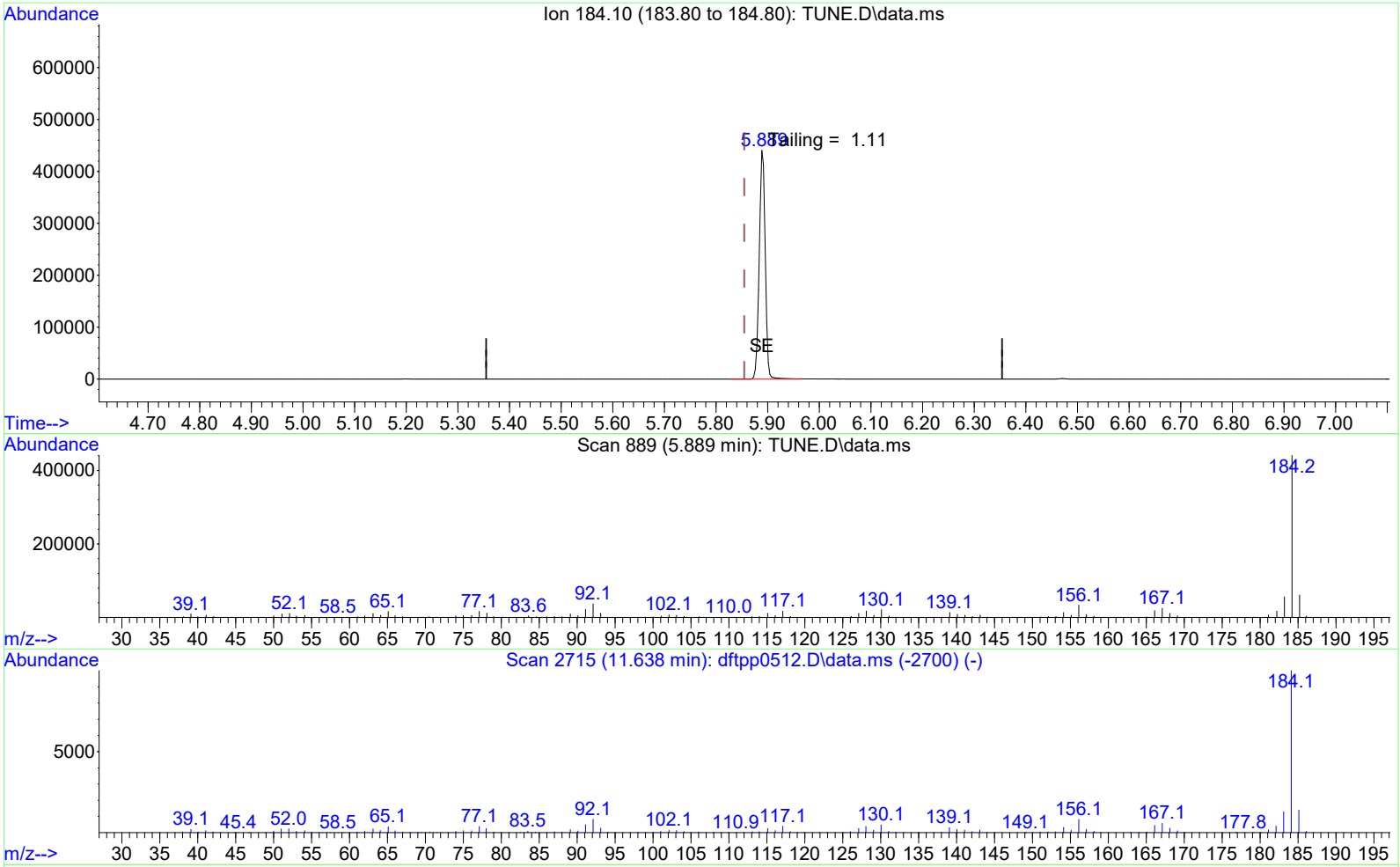
response 51883

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(3) benzidine (T)

5.889min (+ 0.034) 34.89

response 355226

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	131348	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 72.66%			
8) Naphthalene-d8	2.938	136	483451	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 73.53%			
17) Acenaphthene-d10	3.924	164	263243	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 74.53%			
22) Phenanthrene-d10	4.770	188	536485	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 78.23%			
31) Chrysene-d12	6.362	240	458051	4000.000	ng/ml	0.01
Standard Area 1 = 509536			Recovery = 89.90%			
36) Perylene-d12	7.611	264	500111	4000.000	ng/ml	0.01
Standard Area 1 = 492251			Recovery = 101.60%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.692	112	100365	2570.948	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 128.55%#			
3) Phenol-d6	2.081	99	123274	2627.004	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 131.35%#			
7) Nitrobenzene-d5	2.552	82	112621	2693.685	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 269.37%#			
13) 2-Fluorobiphenyl	3.539	172	250740	2439.184	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 243.92%#			
21) 2,4,6-Tribromophenol	4.372	330	46321	2584.558	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 129.23%#			
30) 4-Terphenyl-d14	5.697	244	274699	2516.549	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 125.83%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.135	93	100485	2422.844	ng/ml	99
5) n-nitrosodi-n-propylamine	2.474	70	77788	2735.159	ng/ml	100
6) Hexachloroethane	2.531	117	47194	2511.387	ng/ml	100
9) Naphthalene	2.951	128	327950	2399.868	ng/ml	99
10) Hexachlorobutadiene	3.021	225	63647	2434.780	ng/ml	100
11) 2-Methylnaphthalene	3.333	142	216032	2533.850	ng/ml	100
12) 1-Methylnaphthalene	3.389	142	198760	2476.866	ng/ml	100
14) 2-Chloronaphthalene	3.605	162	217401	2494.851	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	55060	2497.503	ng/ml	97
16) Acenaphthylene	3.841	152	348861	2720.278	ng/ml	100
18) Acenaphthene	3.941	153	223569	2475.249	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.030	165	76151	2563.397	ng/ml	98
20) Fluorene	4.233	166	249390	2561.513	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.262	198	42508	2592.277	ng/ml	99
24) Hexachlorobenzene	4.554	284	93190	2410.801	ng/ml	98
25) Pentachlorophenol	4.663	266	58438	2551.564	ng/ml	100
26) Phenanthrene	4.781	178	382990	2538.938	ng/ml	100
27) Anthracene	4.811	178	392429	2632.982	ng/ml	100
28) Fluoranthene	5.468	202	437700	2675.442	ng/ml	99
29) Pyrene	5.605	202	457115	2694.580	ng/ml	100
32) Benzo[a]anthracene	6.352	228	450446	2574.049	ng/ml	100
33) 3,3'-Dichlorobenzene	6.338	252	180505	2957.215	ng/ml	99
34) Chrysene	6.379	228	416656	2509.470	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.381	149	292212	2555.701	ng/ml	100
37) Benzo[b]fluoranthene	7.226	252	445404	2693.443	ng/ml	100
38) Benzo[k]fluoranthene	7.252	252	443503	2817.107	ng/ml	100
39) Benzo[a]pyrene	7.548	252	399377	2929.781	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.877	276	398403	3103.299	ng/ml	99
41) Dibenzo[a,h]anthracene	8.914	278	380443M6	3094.720	ng/ml	
42) Benzo[g,h,i]perylene	9.230	276	382009	2924.786	ng/ml	99

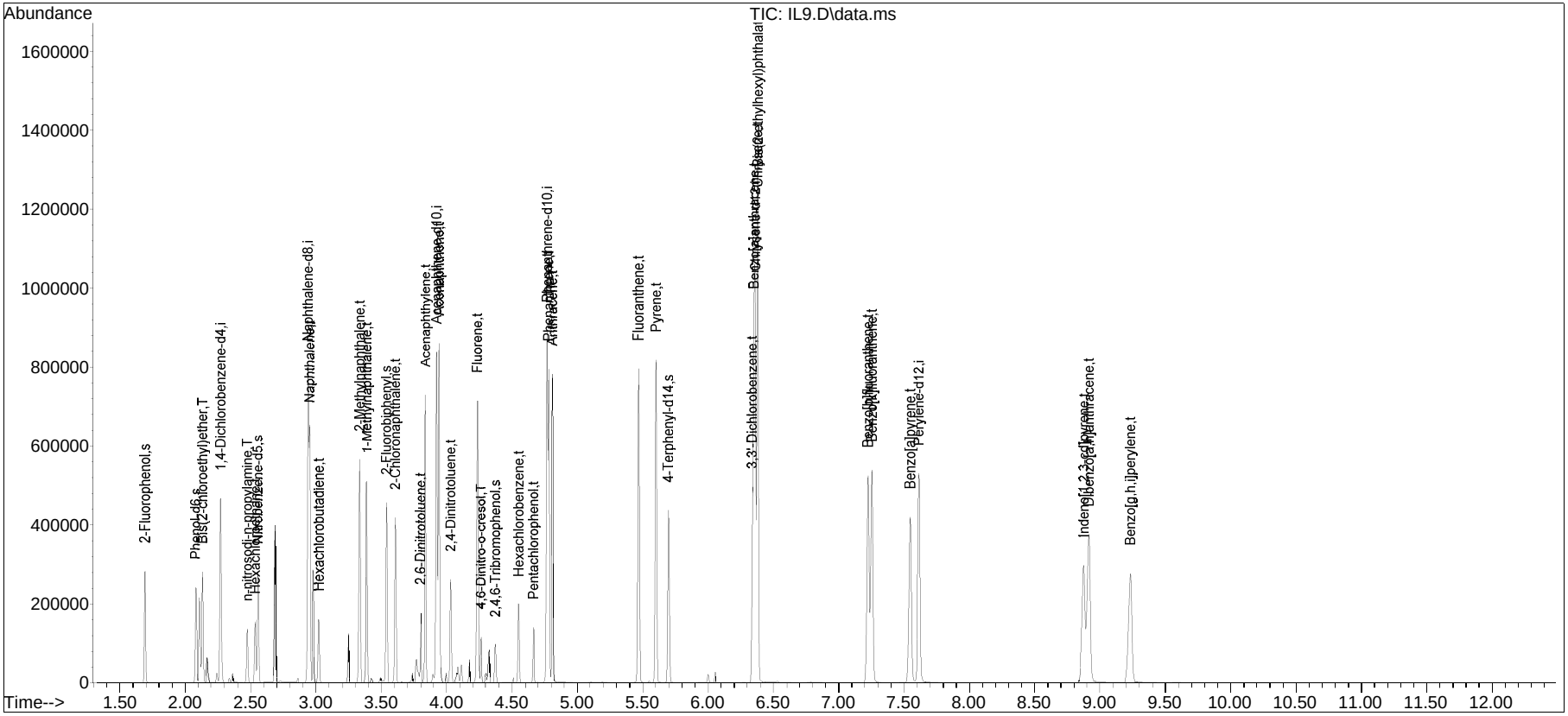
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

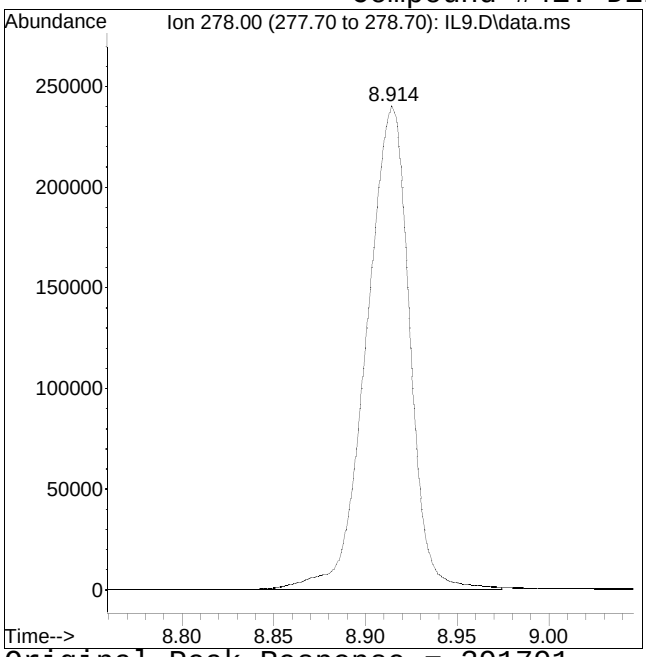
Sub List : Default - All compounds listedical\IL8.D•



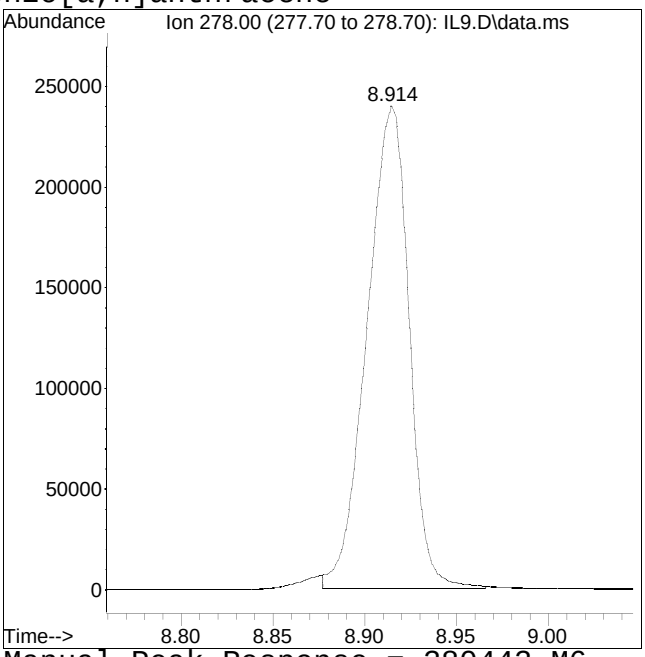
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL9.D Operator : SV120:dv
Date Inj'd : 5/21/2024 10:37 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 391791



Manual Peak Response = 380443 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.276	152	180763	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 100.00%			
8) Naphthalene-d8	2.941	136	657458	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 100.00%			
17) Acenaphthene-d10	3.924	164	353204	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 100.00%			
22) Phenanthrene-d10	4.769	188	685777	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 100.00%			
31) Chrysene-d12	6.350	240	509536	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 100.00%			
36) Perylene-d12	7.600	264	492251	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.707	112	57043	1061.762	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.09%			
3) Phenol-d6	2.088	99	69194	1071.449	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.57%			
7) Nitrobenzene-d5	2.555	82	61911	1075.992	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 107.60%			
13) 2-Fluorobiphenyl	3.542	172	142115	1016.589	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.66%			
21) 2,4,6-Tribromophenol	4.372	330	24059	1003.133	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.16%			
30) 4-Terphenyl-d14	5.694	244	137979	988.863	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.44%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.138	93	57786	1012.420	ng/ml	100
5) n-nitrosodi-n-propylamine	2.474	70	42557	1087.314	ng/ml	100
6) Hexachloroethane	2.534	117	26771	1035.155	ng/ml	100
9) Naphthalene	2.954	128	184426	992.399	ng/ml	100
10) Hexachlorobutadiene	3.024	225	36350	1022.517	ng/ml	100
11) 2-Methylnaphthalene	3.336	142	120966	1043.303	ng/ml	100
12) 1-Methylnaphthalene	3.389	142	111756	1024.068	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	122149	1030.760	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	28608	966.239	ng/ml	100
16) Acenaphthylene	3.844	152	193235	1107.978	ng/ml	100
18) Acenaphthene	3.941	153	123501	1019.082	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	39070	992.757	ng/ml	100
20) Fluorene	4.233	166	135577	1037.851	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	20242	1003.249	ng/ml	100
24) Hexachlorobenzene	4.553	284	50960	1031.327	ng/ml	100
25) Pentachlorophenol	4.665	266	27457	966.229	ng/ml	100
26) Phenanthrene	4.783	178	205501	1065.745	ng/ml	100
27) Anthracene	4.810	178	202184	1061.227	ng/ml	100
28) Fluoranthene	5.465	202	218004	1042.457	ng/ml	100
29) Pyrene	5.598	202	227355	1048.443	ng/ml	100
32) Benzo[a]anthracene	6.340	228	203616	1041.595	ng/ml	100
33) 3,3'-Dichlorobenzene	6.326	252	75155	1106.854	ng/ml	100
34) Chrysene	6.367	228	191595	1037.355	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.367	149	117474	942.425	ng/ml	100
37) Benzo[b]fluoranthene	7.209	252	183529	1127.556	ng/ml	100
38) Benzo[k]fluoranthene	7.235	252	172396	1112.535	ng/ml	100
39) Benzo[a]pyrene	7.531	252	154422	1150.909	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.854	276	137056	1084.623	ng/ml	100
41) Dibenzo[a,h]anthracene	8.892	278	137699M6	1138.000	ng/ml	
42) Benzo[g,h,i]perylene	9.210	276	137422	1068.948	ng/ml	100

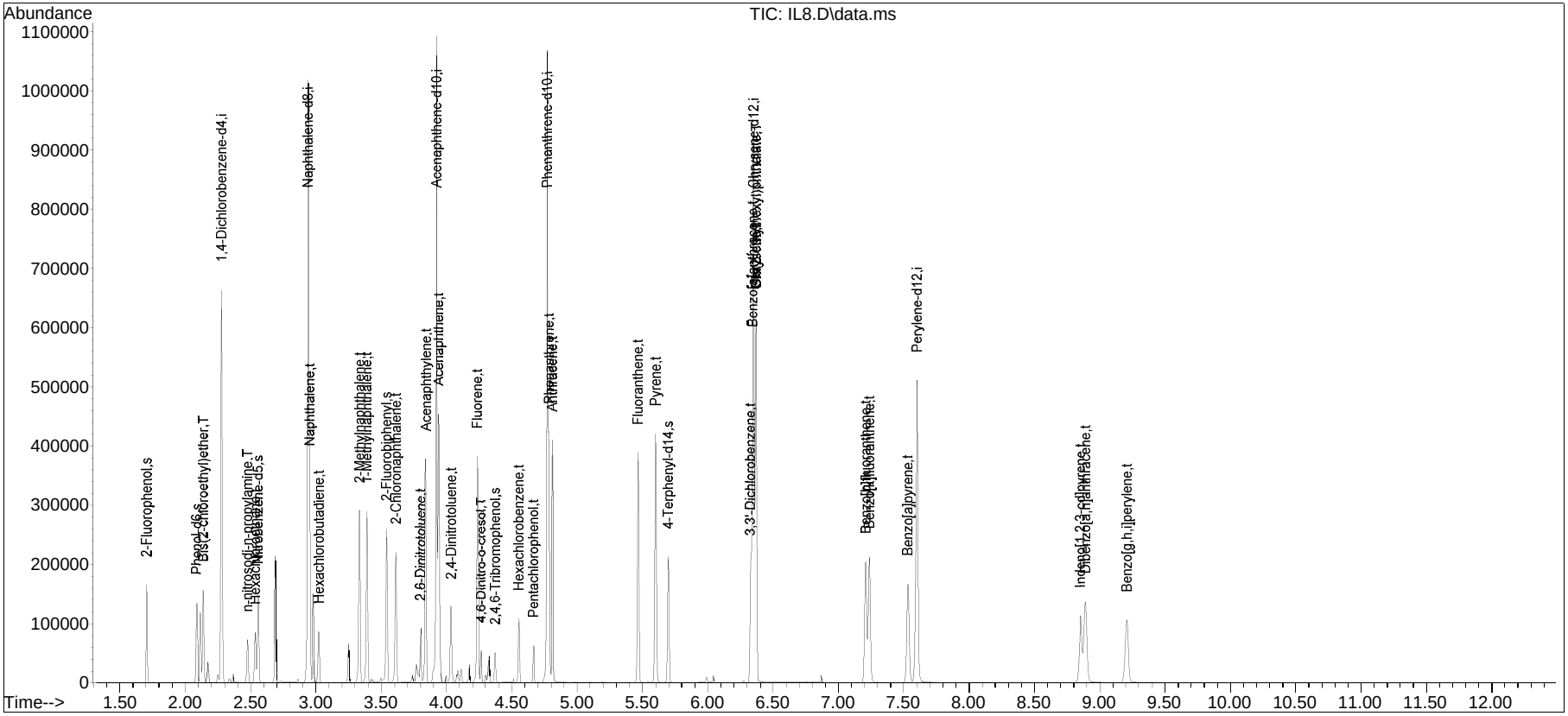
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

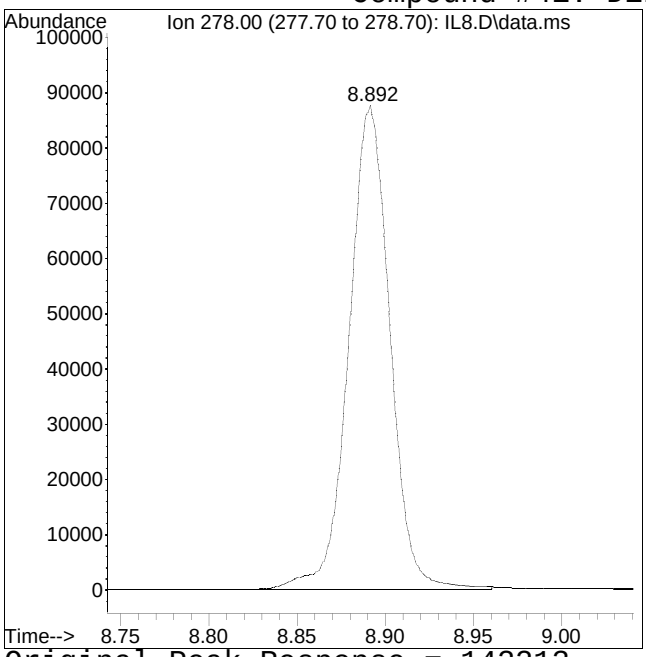
Sub List : Default - All compounds listedical\IL8.D•



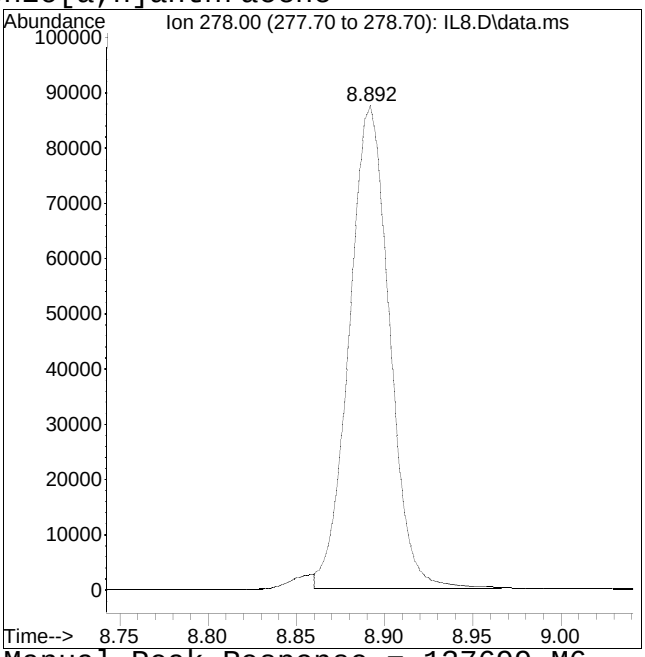
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL8.D Operator : SV120:dv
Date Inj'd : 5/21/2024 10:53 am Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 142213



Manual Peak Response = 137699 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	127479	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 70.52%			
8) Naphthalene-d8	2.943	136	472597	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 71.88%			
17) Acenaphthene-d10	3.924	164	263404	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 74.58%			
22) Phenanthrene-d10	4.769	188	556245	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 81.11%			
31) Chrysene-d12	6.346	240	492291	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 96.62%			
36) Perylene-d12	7.598	264	505627	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 102.72%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.692	112	19416	512.455	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.62%			
3) Phenol-d6	2.084	99	23552	517.132	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.86%			
7) Nitrobenzene-d5	2.555	82	21636	533.199	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 53.32%			
13) 2-Fluorobiphenyl	3.542	172	52459	522.038	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.20%			
21) 2,4,6-Tribromophenol	4.372	330	8787	493.467	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.67%			
30) 4-Terphenyl-d14	5.691	244	62251	550.030	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 27.50%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.138	93	20539	510.256	ng/ml	99
5) n-nitrosodi-n-propylamine	2.474	70	14595	528.760	ng/ml	99
6) Hexachloroethane	2.534	117	9123	500.207	ng/ml	100
9) Naphthalene	2.954	128	66018	494.201	ng/ml	99
10) Hexachlorobutadiene	3.026	225	12754	499.102	ng/ml	100
11) 2-Methylnaphthalene	3.336	142	43377	520.456	ng/ml	100
12) 1-Methylnaphthalene	3.392	142	40341	514.259	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	44381	521.005	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	10005	480.100	ng/ml	97
16) Acenaphthylene	3.844	152	69974	558.160	ng/ml	100
18) Acenaphthene	3.941	153	45784	506.589	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	14041	488.944	ng/ml	92
20) Fluorene	4.236	166	51566	529.317	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	7034	450.870	ng/ml	98
24) Hexachlorobenzene	4.553	284	20120	502.009	ng/ml	100
25) Pentachlorophenol	4.665	266	9212	425.967	ng/ml	99
26) Phenanthrene	4.783	178	82716	528.866	ng/ml	99
27) Anthracene	4.810	178	80972	523.978	ng/ml	100
28) Fluoranthene	5.465	202	91191	537.604	ng/ml	100
29) Pyrene	5.598	202	97876	556.459	ng/ml	100
32) Benzo[a]anthracene	6.339	228	93335	490.294	ng/ml	100
33) 3,3'-Dichlorobenzene	6.322	252	32939	502.107	ng/ml	99
34) Chrysene	6.363	228	93489	523.910	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.365	149	48117	416.501	ng/ml	99
37) Benzo[b]fluoranthene	7.207	252	85516	511.490	ng/ml	100
38) Benzo[k]fluoranthene	7.233	252	87991	552.817	ng/ml	100
39) Benzo[a]pyrene	7.526	252	74696	541.983	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.849	276	67861	522.826	ng/ml	99
41) Dibenzo[a,h]anthracene	8.887	278	69133M6	556.229	ng/ml	
42) Benzo[g,h,i]perylene	9.205	276	70489	533.799	ng/ml	100

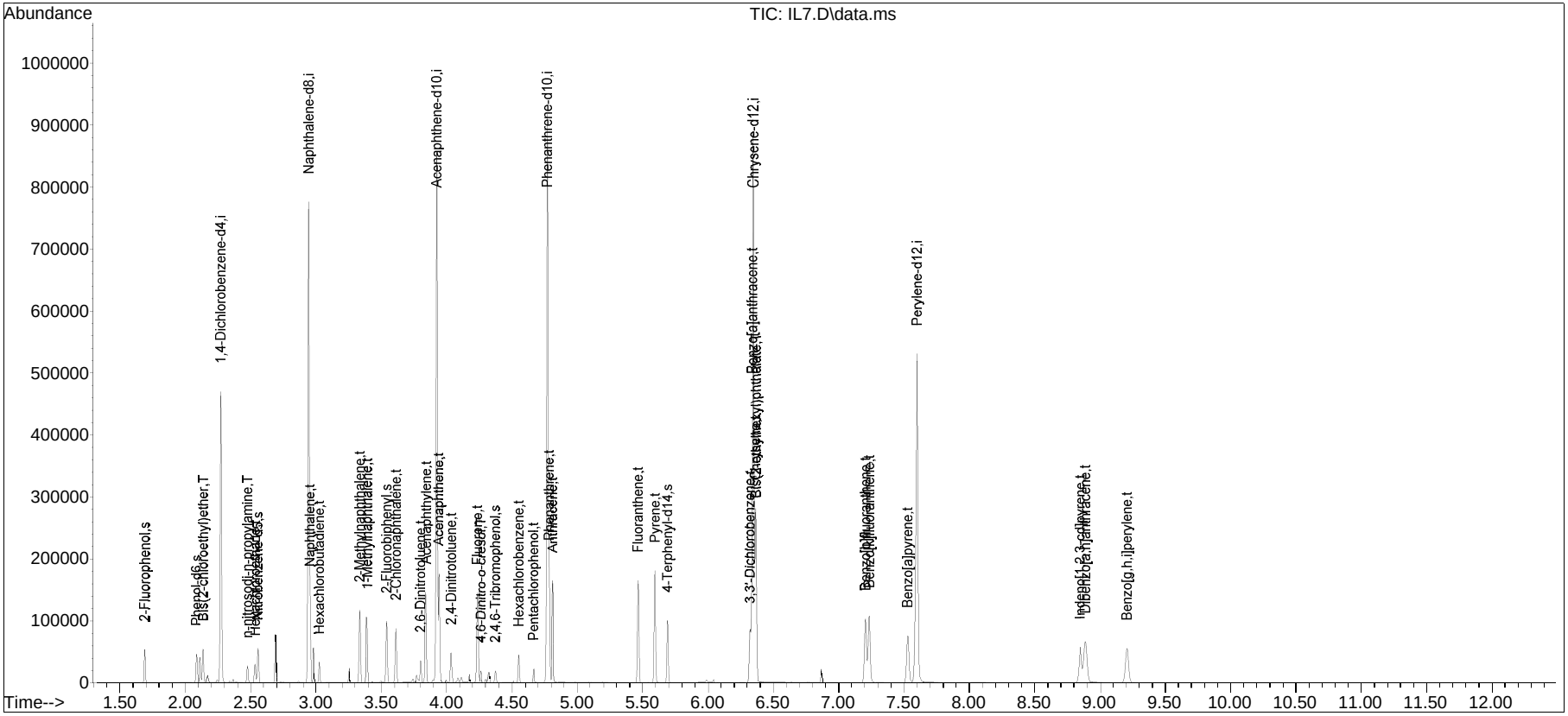
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

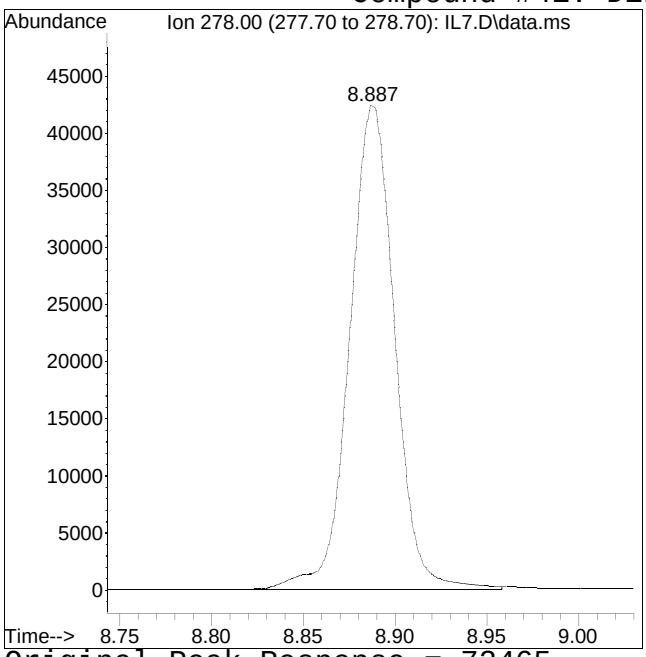
Sub List : Default - All compounds listedical\IL8.D•



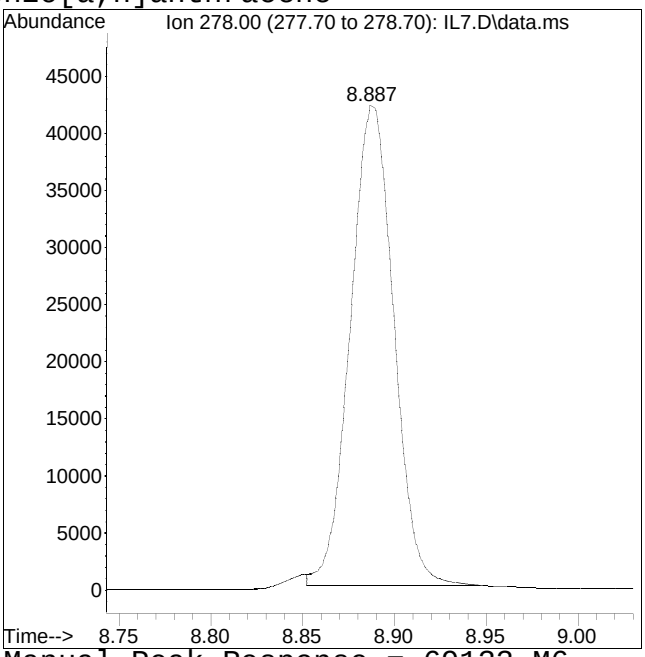
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL7.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:10 am Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 72465



Manual Peak Response = 69133 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	157417	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 87.08%			
8) Naphthalene-d8	2.944	136	567346	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 86.29%			
17) Acenaphthene-d10	3.926	164	304671	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 86.26%			
22) Phenanthrene-d10	4.769	188	612121	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 89.26%			
31) Chrysene-d12	6.345	240	471973	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 92.63%			
36) Perylene-d12	7.597	264	452229	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 91.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.709	112	4679	100.008	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.00%#			
3) Phenol-d6	2.088	99	5524	98.223	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.91%#			
7) Nitrobenzene-d5	2.558	82	4851	96.812	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 9.68%#			
13) 2-Fluorobiphenyl	3.546	172	12062	99.987	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.00%#			
21) 2,4,6-Tribromophenol	4.371	330	1580	80.341	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.02%#			
30) 4-Terphenyl-d14	5.691	244	11653	93.563	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 4.68%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.141	93	4814	96.851	ng/ml	100
5) n-nitrosodi-n-propylamine	2.477	70	3282	96.290	ng/ml	100
6) Hexachloroethane	2.537	117	2203	97.817	ng/ml	100
9) Naphthalene	2.954	128	15467	96.447	ng/ml	100
10) Hexachlorobutadiene	3.027	225	3073	100.173	ng/ml	99
11) 2-Methylnaphthalene	3.336	142	9873	98.677	ng/ml	99
12) 1-Methylnaphthalene	3.393	142	9261	98.341	ng/ml	100
14) 2-Chloronaphthalene	3.609	162	10175	99.500	ng/ml	100
15) 2,6-Dinitrotoluene	3.804	165	1852	90.500	ng/ml	95
16) Acenaphthylene	3.843	152	14719	97.801	ng/ml	100
18) Acenaphthene	3.943	153	10392	99.410	ng/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.032	165	2379	88.975	ng/ml#	71
20) Fluorene	4.236	166	11094	98.454	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	951	83.872	ng/ml	94
24) Hexachlorobenzene	4.556	284	4376	99.218	ng/ml	99
25) Pentachlorophenol	4.665	266	960	80.944	ng/ml	100
26) Phenanthrene	4.783	178	17464M6	101.468	ng/ml	
27) Anthracene	4.810	178	16498	97.015	ng/ml	100
28) Fluoranthene	5.465	202	17507	93.789	ng/ml	100
29) Pyrene	5.598	202	18245	94.261	ng/ml	100
32) Benzo[a]anthracene	6.336	228	17395	89.355	ng/ml	98
33) 3,3'-Dichlorobenzene	6.321	252	5076	80.707	ng/ml	99
34) Chrysene	6.360	228	17119	100.064	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.362	149	6984	88.047	ng/ml	98
37) Benzo[b]fluoranthene	7.204	252	14004	93.651	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	13400	94.128	ng/ml	100
39) Benzo[a]pyrene	7.522	252	11218	91.007	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.846	276	10212	87.967	ng/ml	98
41) Dibenzo[a,h]anthracene	8.883	278	10300M6	92.657	ng/ml	
42) Benzo[g,h,i]perylene	9.196	276	10836	91.748	ng/ml	99

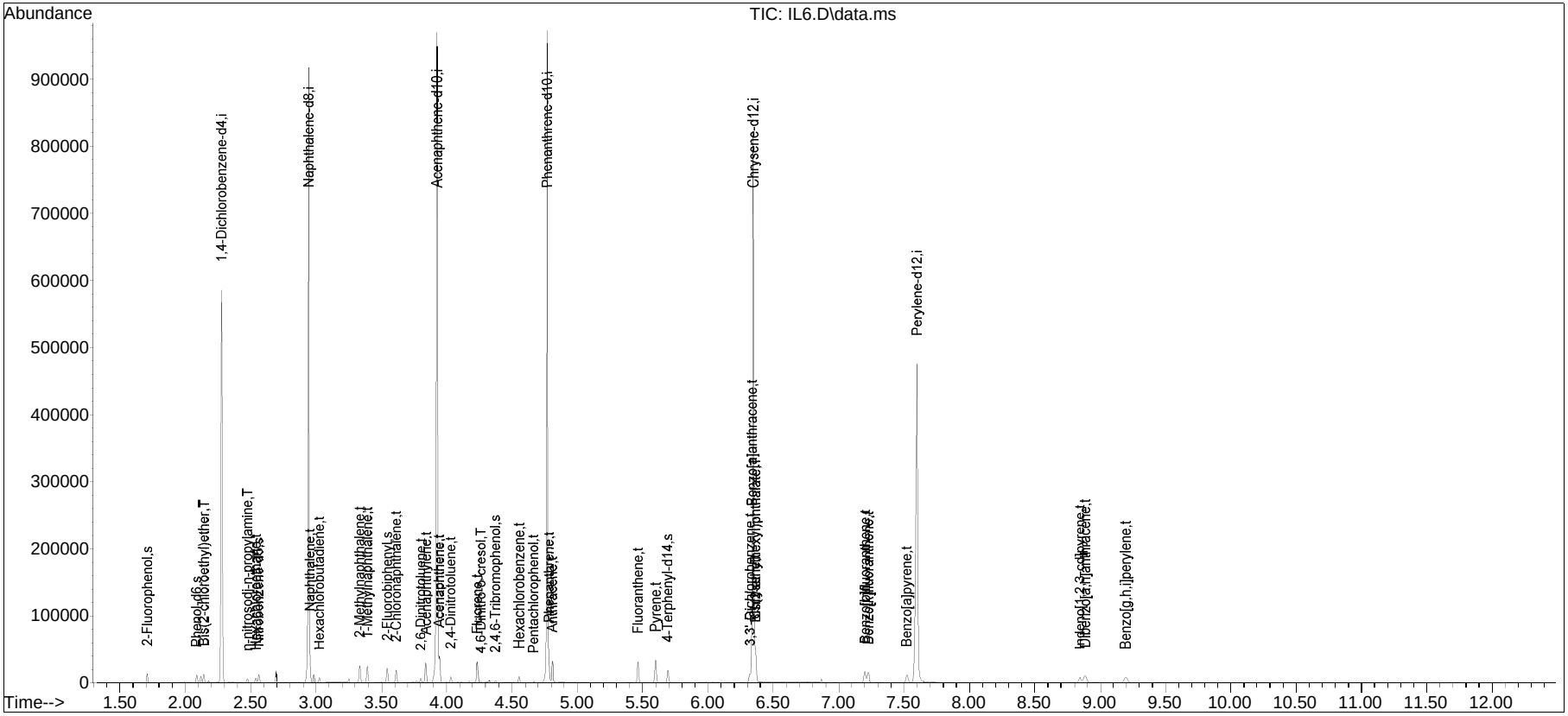
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

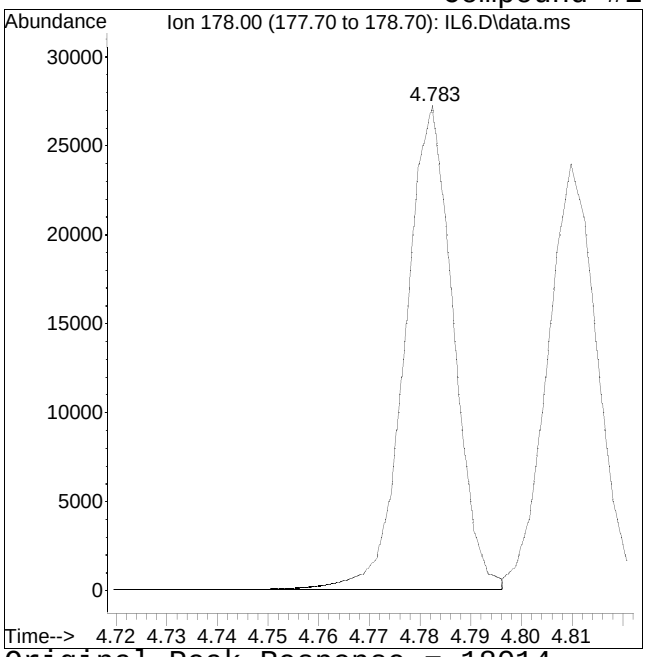
Sub List : Default - All compounds listedical\IL8.D•



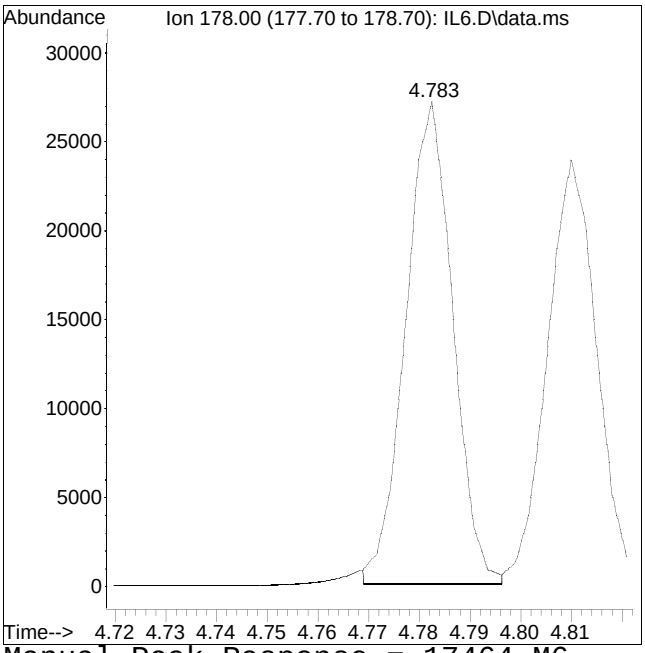
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL6.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:26 am Instrument : SV120
Sample : IL6,32,,100.0ng/mL lot# 10Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 18014



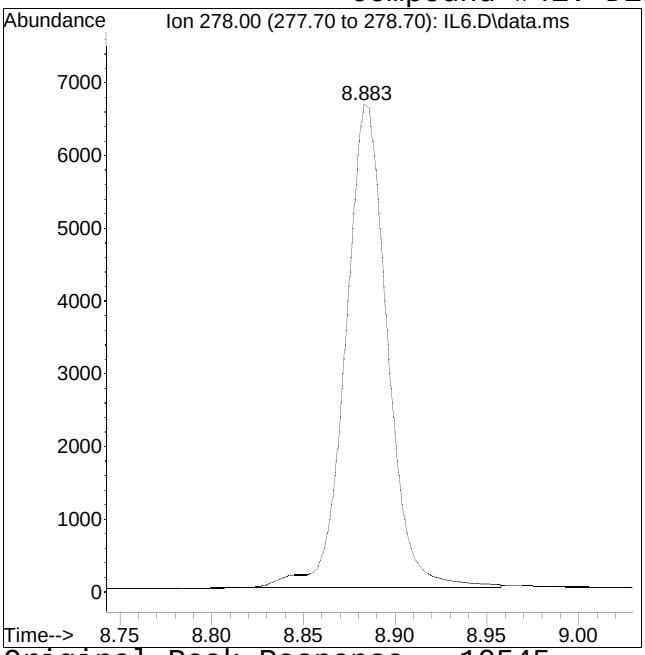
Manual Peak Response = 17464 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

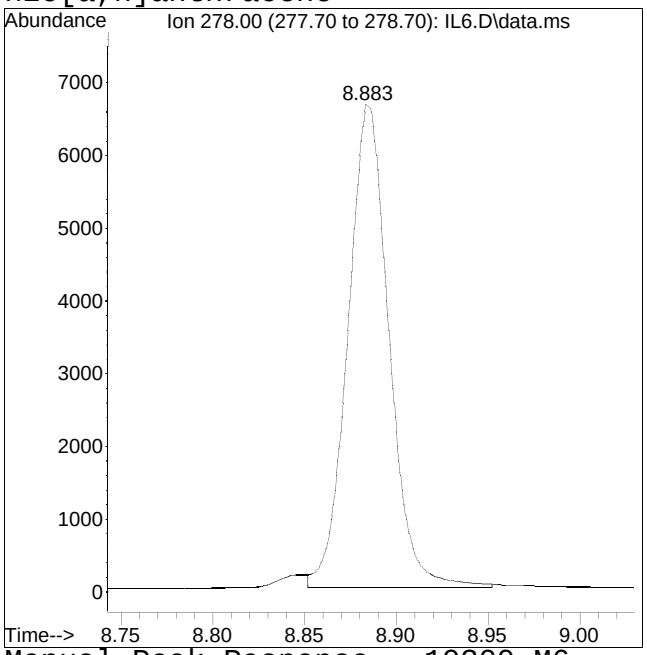
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL6.D
Date Inj'd : 5/21/2024 11:26 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 10545



Manual Peak Response = 10300 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	155533	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 86.04%			
8) Naphthalene-d8	2.944	136	556243	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 84.61%			
17) Acenaphthene-d10	3.927	164	298281	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 84.45%			
22) Phenanthrene-d10	4.770	188	585629	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 85.40%			
31) Chrysene-d12	6.344	240	449577	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 88.23%			
36) Perylene-d12	7.592	264	438216	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 89.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.711	112	1849	39.999	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 2.00%#			
3) Phenol-d6	2.091	99	2162	38.909	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.95%#			
7) Nitrobenzene-d5	2.558	82	1895	38.277	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.83%#			
13) 2-Fluorobiphenyl	3.545	172	4761	40.254	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.03%#			
21) 2,4,6-Tribromophenol	4.375	330	539	30.794	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.54%#			
30) 4-Terphenyl-d14	5.691	244	4407	36.985	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 1.85%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	1971	40.134	ng/ml	98
5) n-nitrosodi-n-propylamine	2.480	70	1270	37.712	ng/ml	100
6) Hexachloroethane	2.537	117	885	39.771	ng/ml	99
9) Naphthalene	2.957	128	6225	39.592	ng/ml	99
10) Hexachlorobutadiene	3.027	225	1239	41.195	ng/ml	99
11) 2-Methylnaphthalene	3.336	142	3917	39.930	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	3653	39.565	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	4019	40.086	ng/ml	100
15) 2,6-Dinitrotoluene	3.805	165	686	46.308	ng/ml	93
16) Acenaphthylene	3.844	152	5629	38.149	ng/ml	100
18) Acenaphthene	3.944	153	4149	40.540	ng/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	833	44.881	ng/ml#	49
20) Fluorene	4.236	166	4281	38.806	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.265	198	297M6	49.087	ng/ml	
24) Hexachlorobenzene	4.554	284	1683	39.885	ng/ml	99
25) Pentachlorophenol	4.666	266	222M6	53.577	ng/ml	
26) Phenanthrene	4.784	178	6743M6	40.950	ng/ml	
27) Anthracene	4.811	178	6218	38.218	ng/ml	99
28) Fluoranthene	5.466	202	6696	37.495	ng/ml	100
29) Pyrene	5.595	202	6838	36.926	ng/ml	100
32) Benzo[a]anthracene	6.336	228	7399	35.809	ng/ml	94
33) 3,3'-Dichlorobenzene	6.317	252	1817	30.329	ng/ml	98
34) Chrysene	6.358	228	6593	40.457	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.361	149	2582	52.192	ng/ml	95
37) Benzo[b]fluoranthene	7.202	252	5205	35.921	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	5108	37.028	ng/ml	100
39) Benzo[a]pyrene	7.523	252	4242	35.514	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.844	276	3982	35.398	ng/ml	99
41) Dibenzo[a,h]anthracene	8.881	278	3916M6	36.354	ng/ml	
42) Benzo[g,h,i]perylene	9.197	276	4197	36.672	ng/ml	99

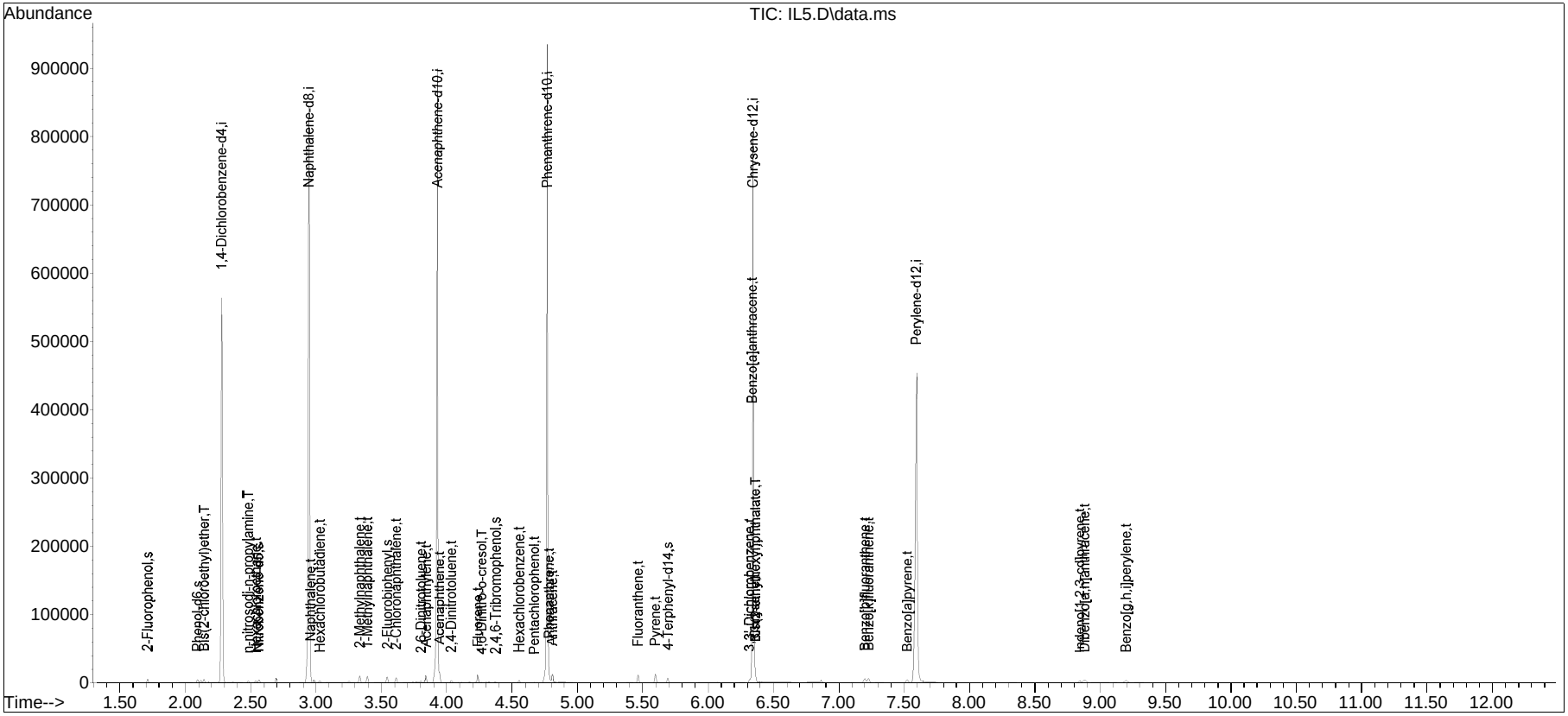
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

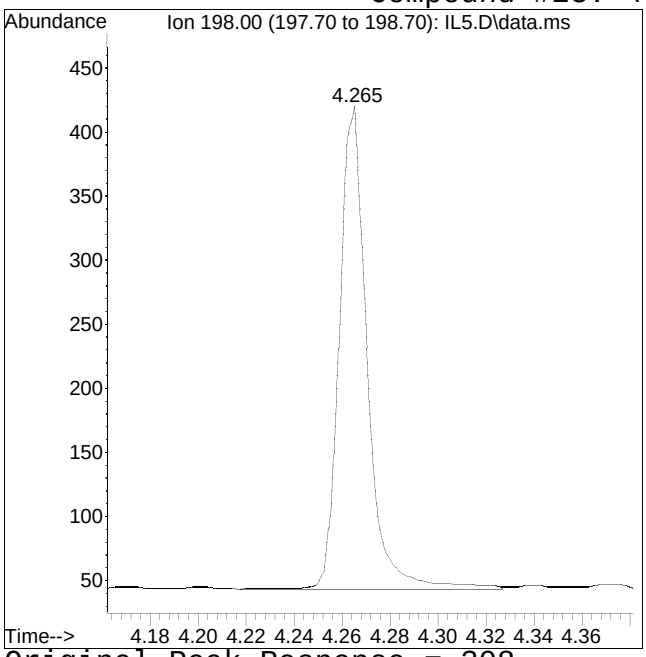
Sub List : Default - All compounds listedical\IL8.D•



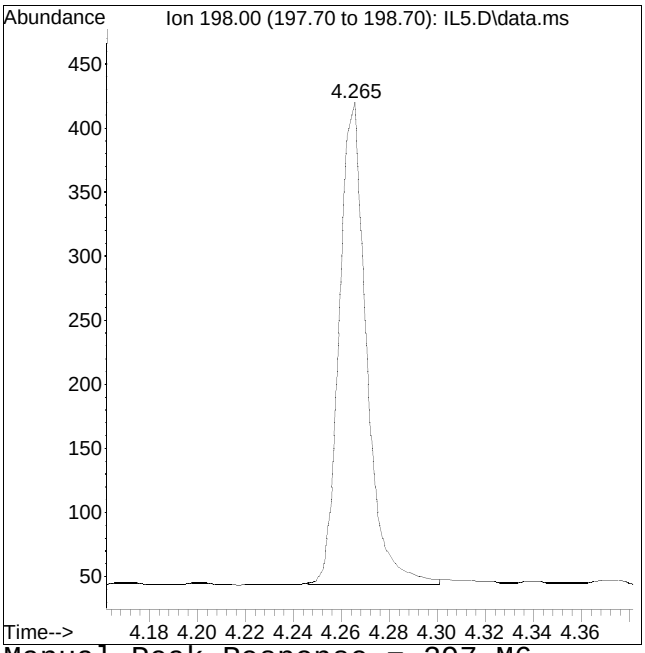
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 308



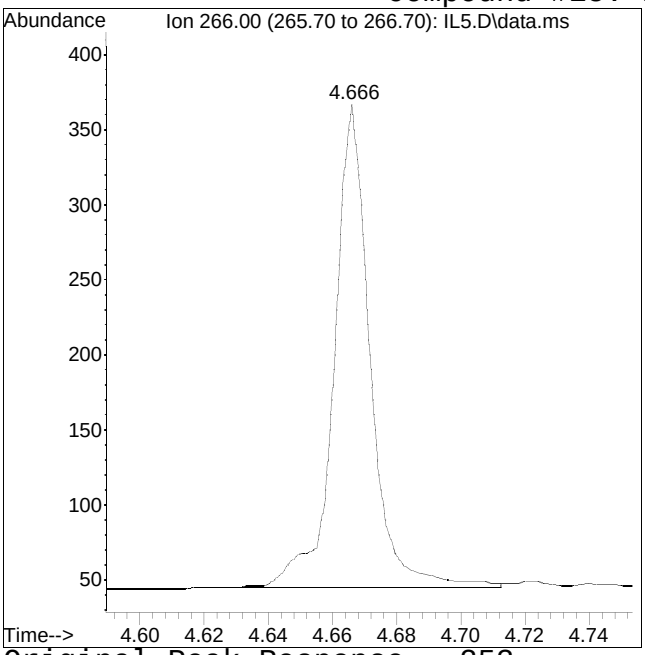
Manual Peak Response = 297 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

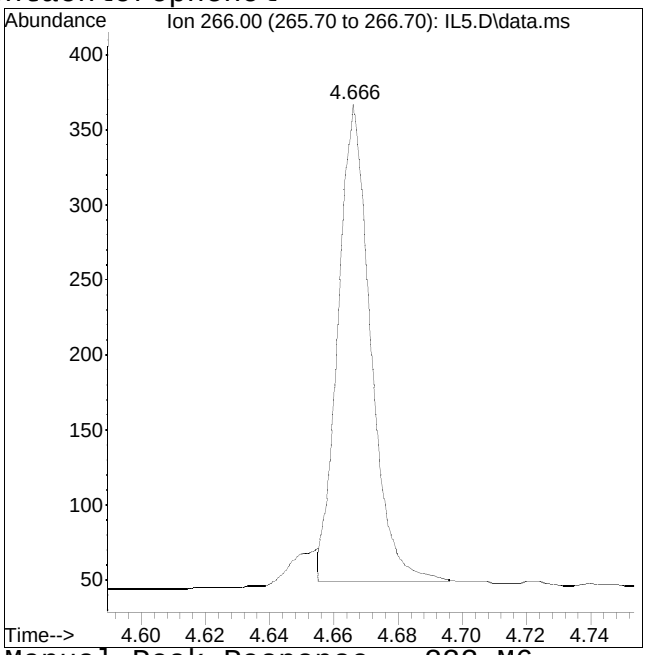
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 253



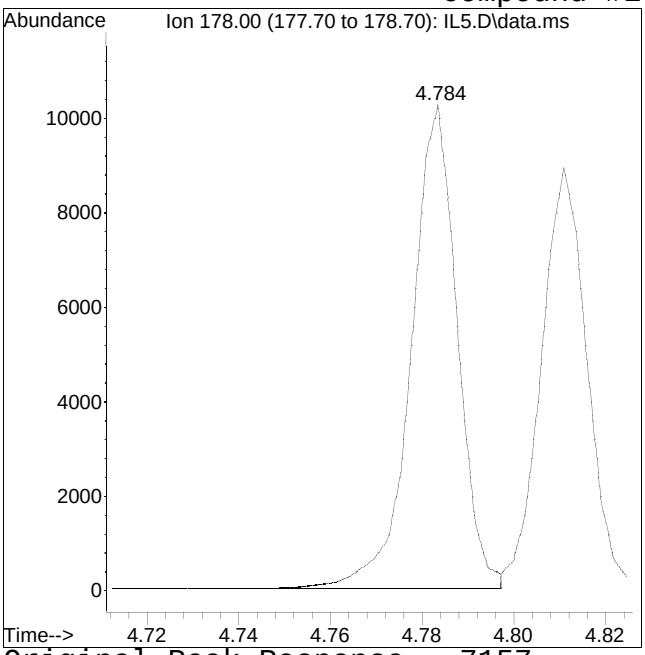
Manual Peak Response = 222 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

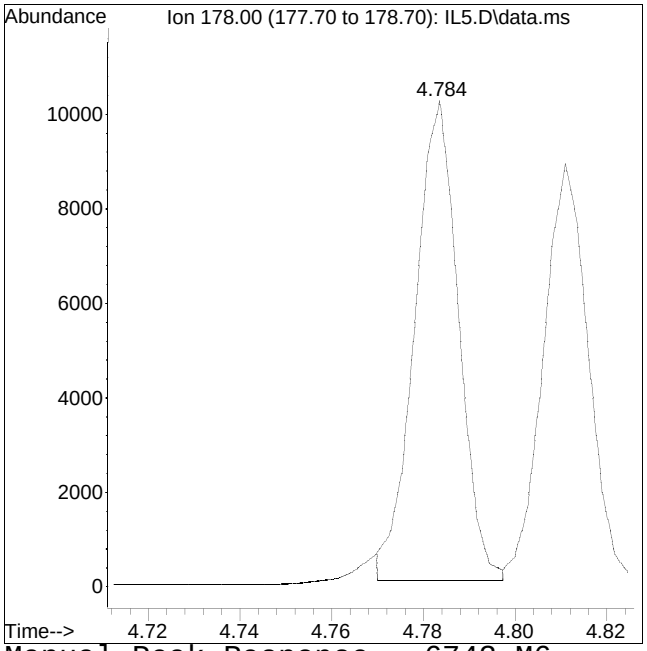
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 7157



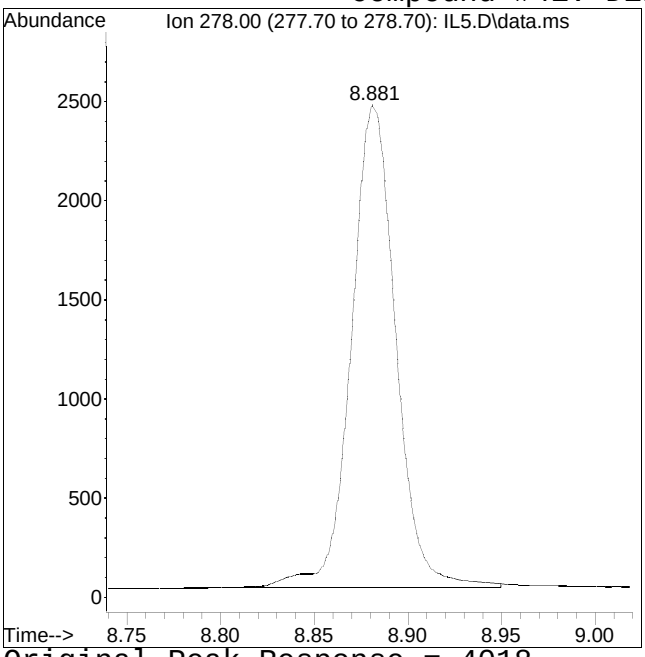
Manual Peak Response = 6743 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

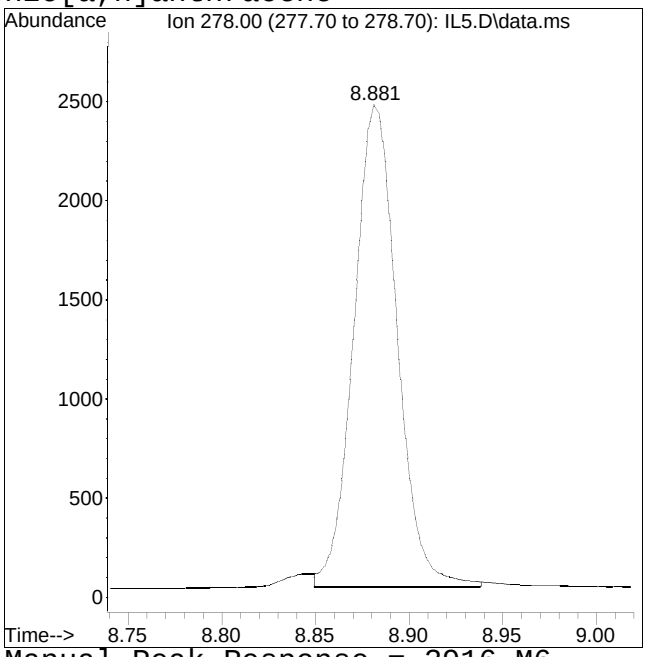
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 4018



Manual Peak Response = 3916 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	162672	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 89.99%			
8) Naphthalene-d8	2.944	136	580024	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 88.22%			
17) Acenaphthene-d10	3.927	164	304551	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 86.23%			
22) Phenanthrene-d10	4.770	188	581441	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 84.79%			
31) Chrysene-d12	6.343	240	437776	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 85.92%			
36) Perylene-d12	7.592	264	423252	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 85.98%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.711	112	465	9.618	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
3) Phenol-d6	2.091	99	538	9.257	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.46%#			
7) Nitrobenzene-d5	2.561	82	465	8.980	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.90%#			
13) 2-Fluorobiphenyl	3.545	172	1185	9.608	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.96%#			
21) 2,4,6-Tribromophenol	4.372	330	121	10.122	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.51%#			
30) 4-Terphenyl-d14	5.692	244	1012	8.554	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.43%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	501	9.754	ng/ml	96
5) n-nitrosodi-n-propylamine	2.480	70	319	9.057	ng/ml	96
6) Hexachloroethane	2.537	117	228	9.797	ng/ml	97
9) Naphthalene	2.954	128	1592	9.710	ng/ml#	97
10) Hexachlorobutadiene	3.029	225	316	10.076	ng/ml	97
11) 2-Methylnaphthalene	3.336	142	976	9.542	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	916	9.514	ng/ml	98
14) 2-Chloronaphthalene	3.609	162	1004	9.603	ng/ml	100
15) 2,6-Dinitrotoluene	3.805	165	156	25.326	ng/ml	93
16) Acenaphthylene	3.844	152	1359	8.833	ng/ml	100
18) Acenaphthene	3.944	153	1050	10.048	ng/ml	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	235M4	27.114	ng/ml	
20) Fluorene	4.237	166	1026	9.109	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.266	198	49M7	35.022	ng/ml	
24) Hexachlorobenzene	4.554	284	402	9.596	ng/ml	100
25) Pentachlorophenol	4.666	266	46M1	46.674	ng/ml	
26) Phenanthrene	4.784	178	1615M6	9.878	ng/ml	
27) Anthracene	4.811	178	1470	9.100	ng/ml	99
28) Fluoranthene	5.466	202	1561	8.804	ng/ml	99
29) Pyrene	5.596	202	1578	8.583	ng/ml	99
32) Benzo[a]anthracene	6.341	228	2713	8.875	ng/ml#	83
33) 3,3'-Dichlorobenzene	6.319	252	408	6.994	ng/ml	99
34) Chrysene	6.358	228	1508	9.503	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.360	149	544M6	34.370	ng/ml	
37) Benzo[b]fluoranthene	7.201	252	1200	8.574	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	1157	8.684	ng/ml	100
39) Benzo[a]pyrene	7.520	252	936	8.113	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.838	276	903	8.311	ng/ml	98
41) Dibenzo[a,h]anthracene	8.881	278	850M6	8.170	ng/ml	
42) Benzo[g,h,i]perylene	9.193	276	942	8.522	ng/ml	98

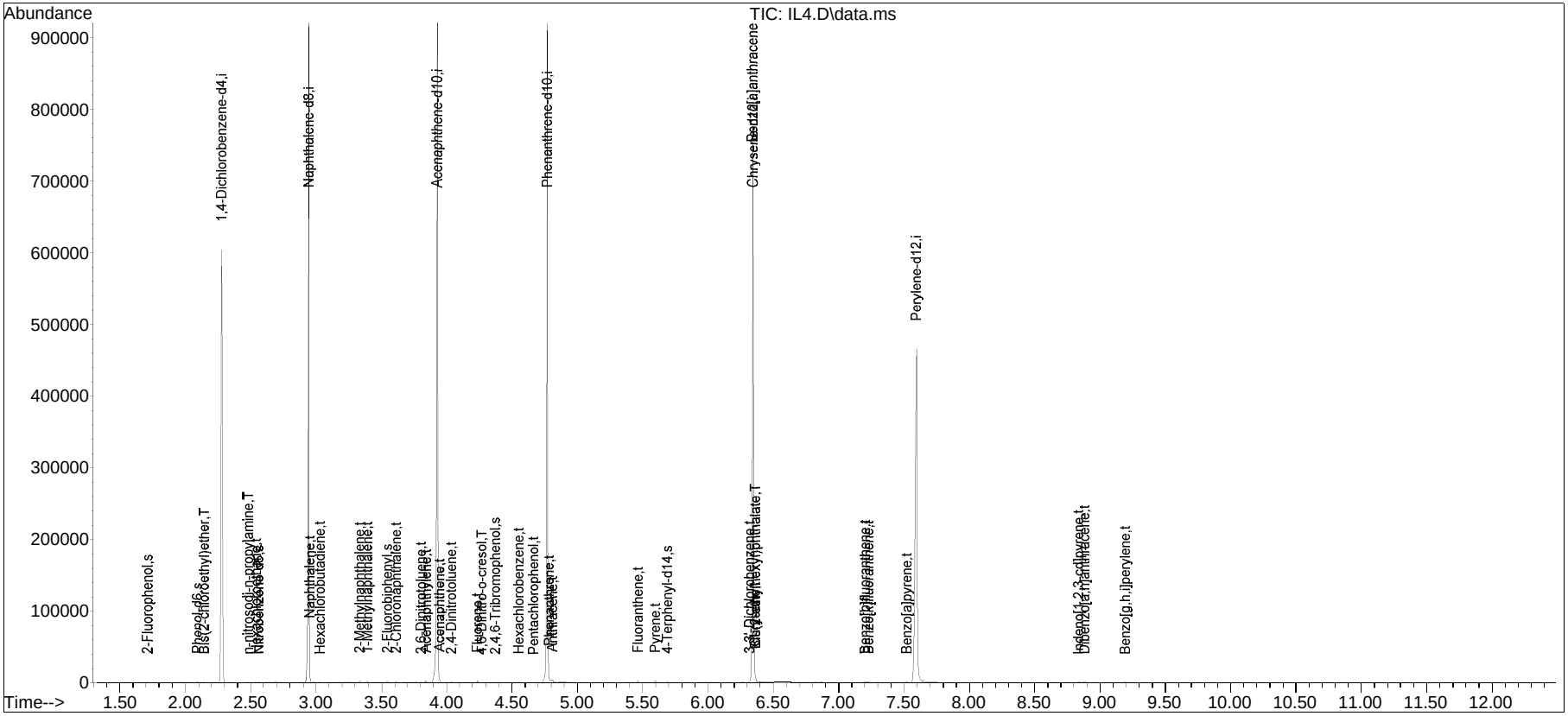
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

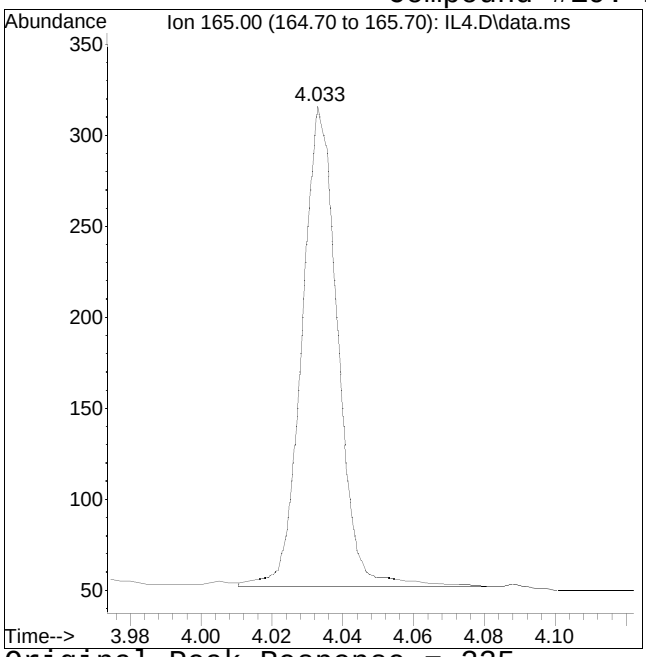
Sub List : Default - All compounds listedical\IL8.D•



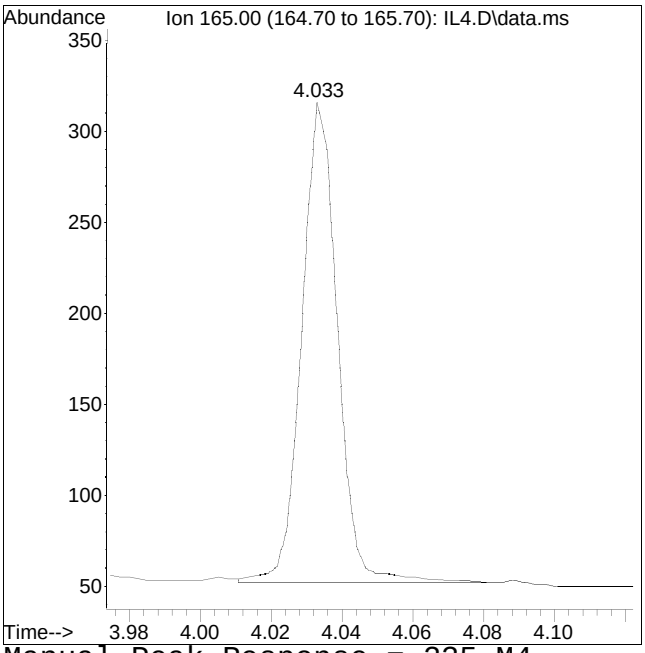
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 235



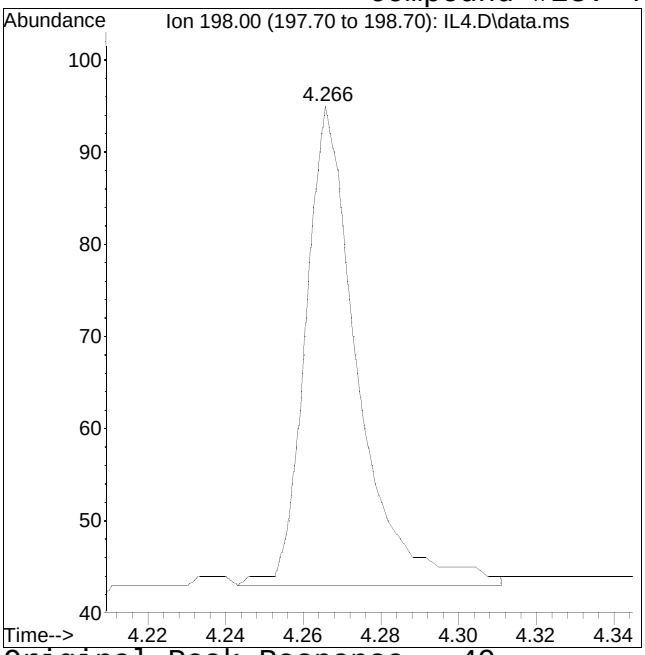
Manual Peak Response = 235 M4

M4 = Poor automated baseline construction.

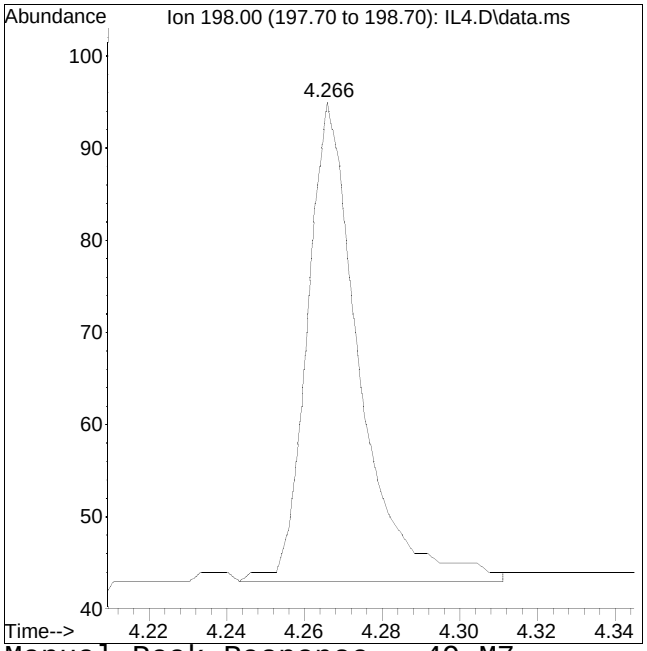
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 49



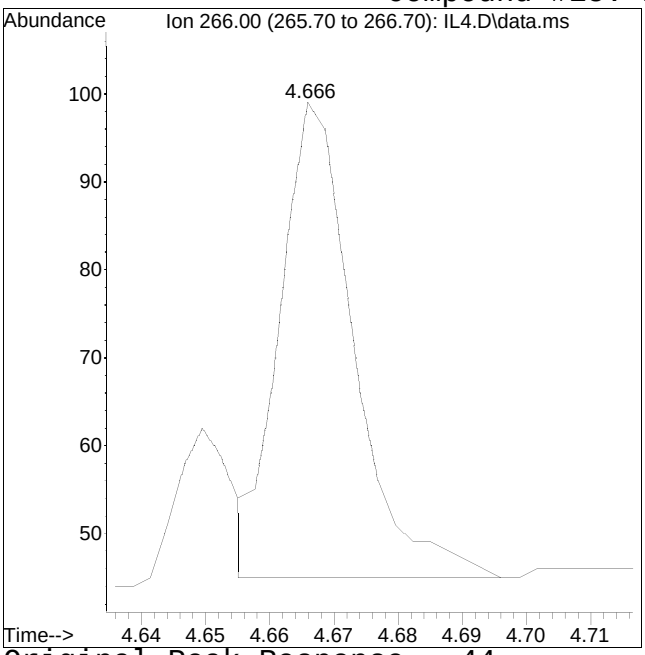
Manual Peak Response = 49 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

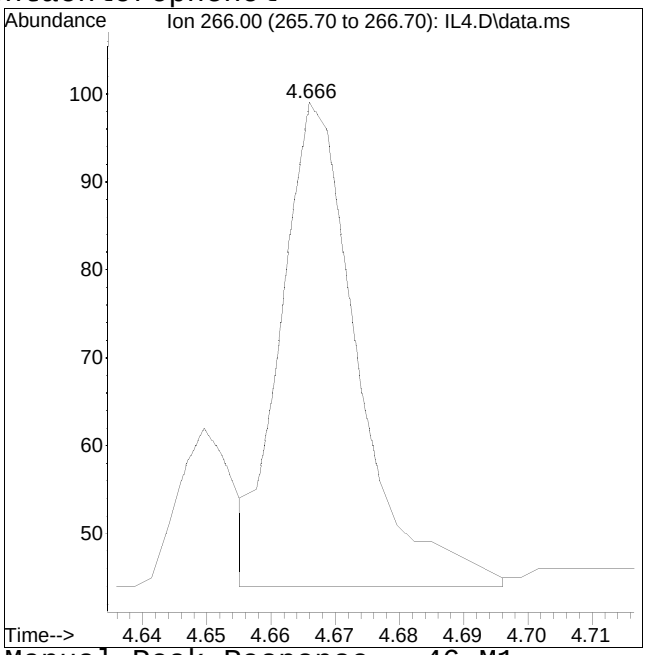
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 44



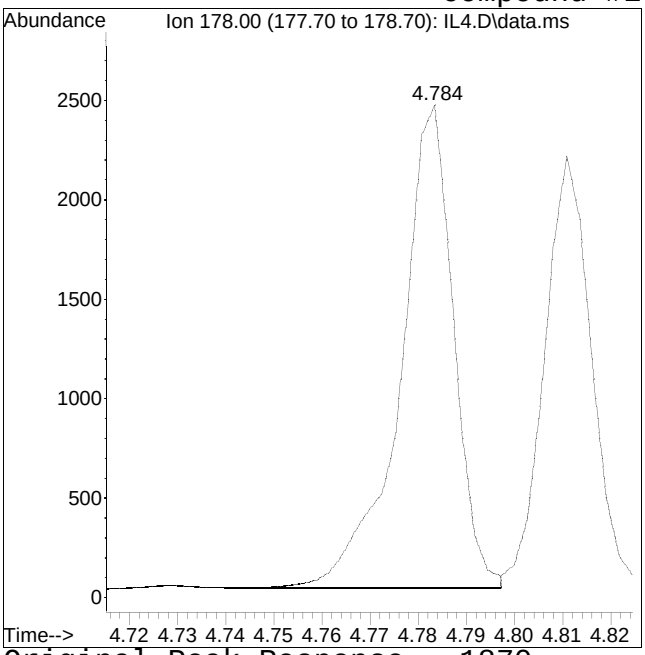
Manual Peak Response = 46 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

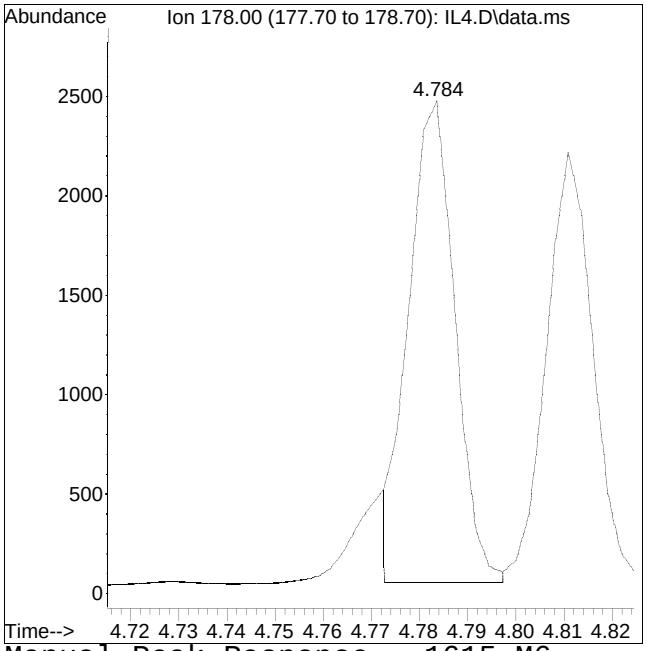
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 1870



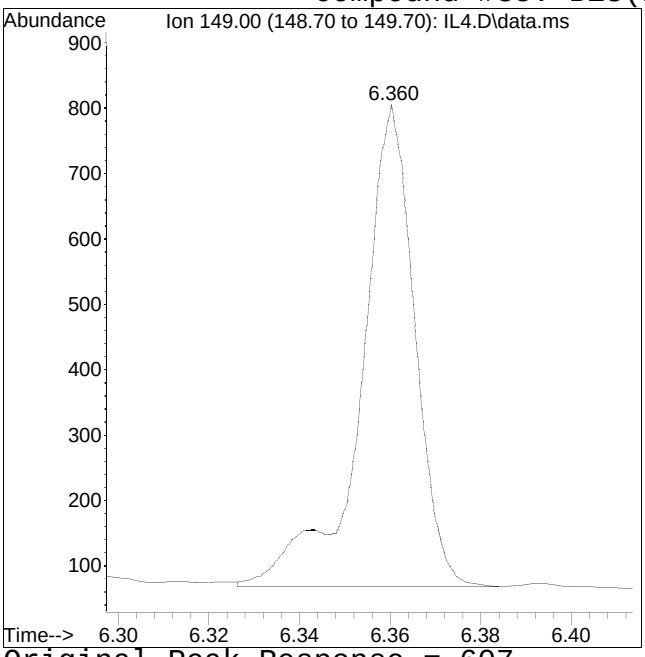
Manual Peak Response = 1615 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

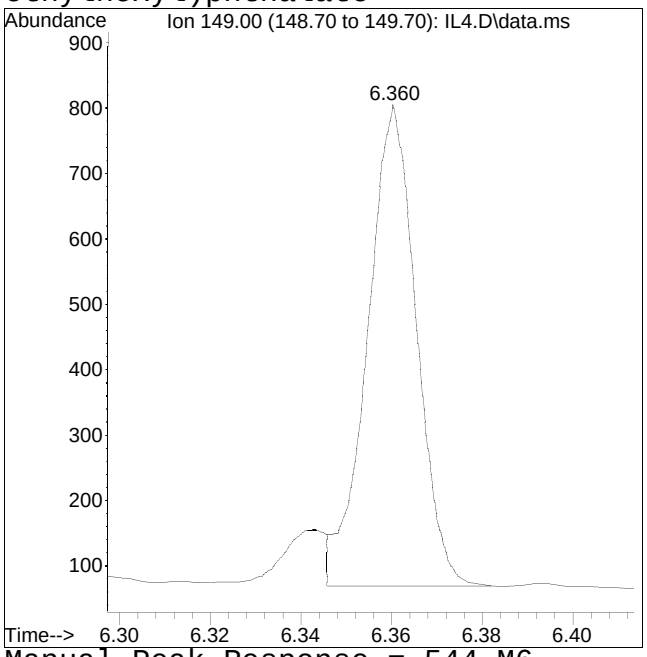
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL4.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:59 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1046Quant Date : 5/30/2024 4:02 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 607



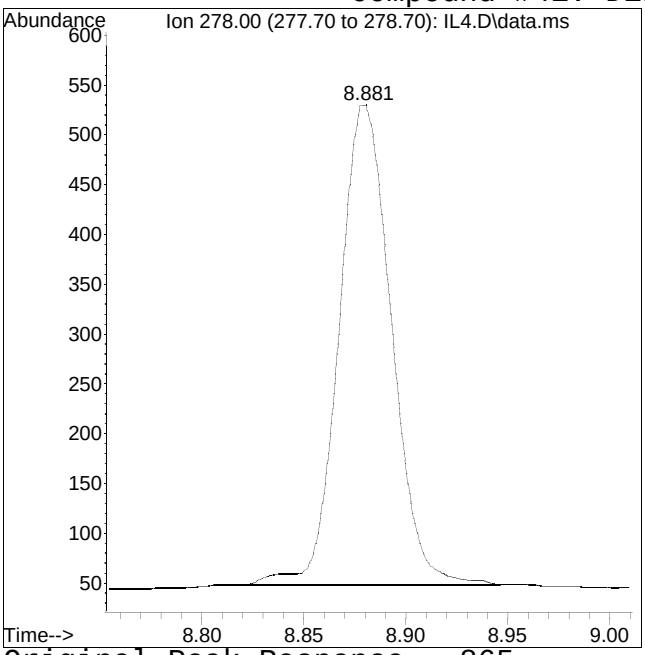
Manual Peak Response = 544 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

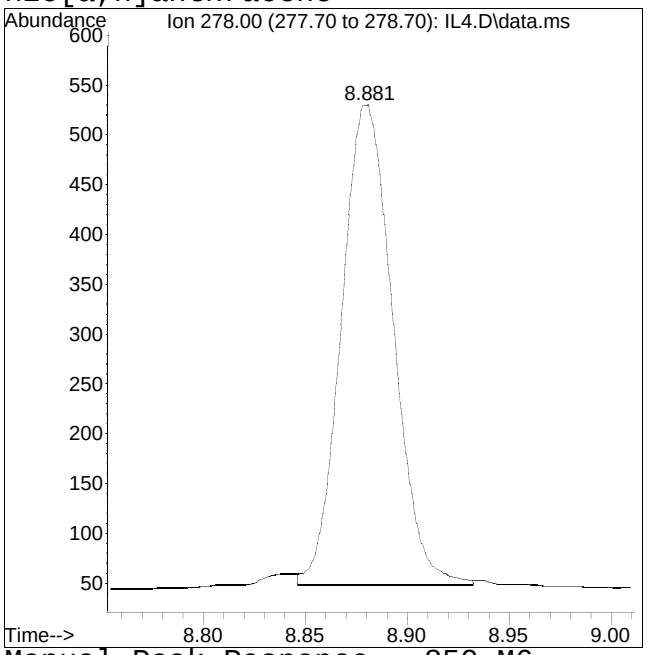
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL4.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:59 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1046Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 865



Manual Peak Response = 850 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	139698	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 77.28%			
8) Naphthalene-d8	2.944	136	503208	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 76.54%			
17) Acenaphthene-d10	3.926	164	270405	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 76.56%			
22) Phenanthrene-d10	4.771	188	537959	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 78.45%			
31) Chrysene-d12	6.339	240	426448	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 83.69%			
36) Perylene-d12	7.587	264	412718	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 83.84%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.707	112	204	4.913	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	2.088	99	236	4.729	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.558	82	202	4.543	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.45%#			
13) 2-Fluorobiphenyl	3.546	172	516	4.823	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.48%#			
21) 2,4,6-Tribromophenol	4.374	330	50M6	7.008	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.35%#			
30) 4-Terphenyl-d14	5.689	244	518	4.732	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.24%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.141	93	218	4.942	ng/ml	93
5) n-nitrosodi-n-propylamine	2.480	70	139M6	4.595	ng/ml	
6) Hexachloroethane	2.537	117	99	4.953	ng/ml	99
9) Naphthalene	2.954	128	699	4.914	ng/ml#	93
10) Hexachlorobutadiene	3.027	225	130	4.778	ng/ml	95
11) 2-Methylnaphthalene	3.336	142	423	4.767	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	401	4.801	ng/ml	100
14) 2-Chloronaphthalene	3.609	162	434	4.785	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.842	152	591	4.427	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.943	153	445M6	4.796	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.235	166	462	4.620	ng/ml	100
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.555	284	183	4.721	ng/ml	100
25) Pentachlorophenol	4.667	266	23M2	45.837	ng/ml	
26) Phenanthrene	4.782	178	754M6	4.985	ng/ml	
27) Anthracene	4.812	178	681	4.557	ng/ml	98
28) Fluoranthene	5.467	202	736	4.486	ng/ml	98
29) Pyrene	5.597	202	754	4.432	ng/ml	99
32) Benzo[a]anthracene	6.339	228	1960	4.672	ng/ml#	75
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.356	228	741	4.794	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.359	149	281	32.058	ng/ml	96
37) Benzo[b]fluoranthene	7.196	252	592	4.338	ng/ml	99
38) Benzo[k]fluoranthene	7.222	252	551	4.241	ng/ml	99
39) Benzo[a]pyrene	7.518	252	464	4.125	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.838	276	439	4.144	ng/ml	98
41) Dibenzo[a,h]anthracene	8.879	278	405M6	3.992	ng/ml	
42) Benzo[g,h,i]perylene	9.191	276	452	4.193	ng/ml	100

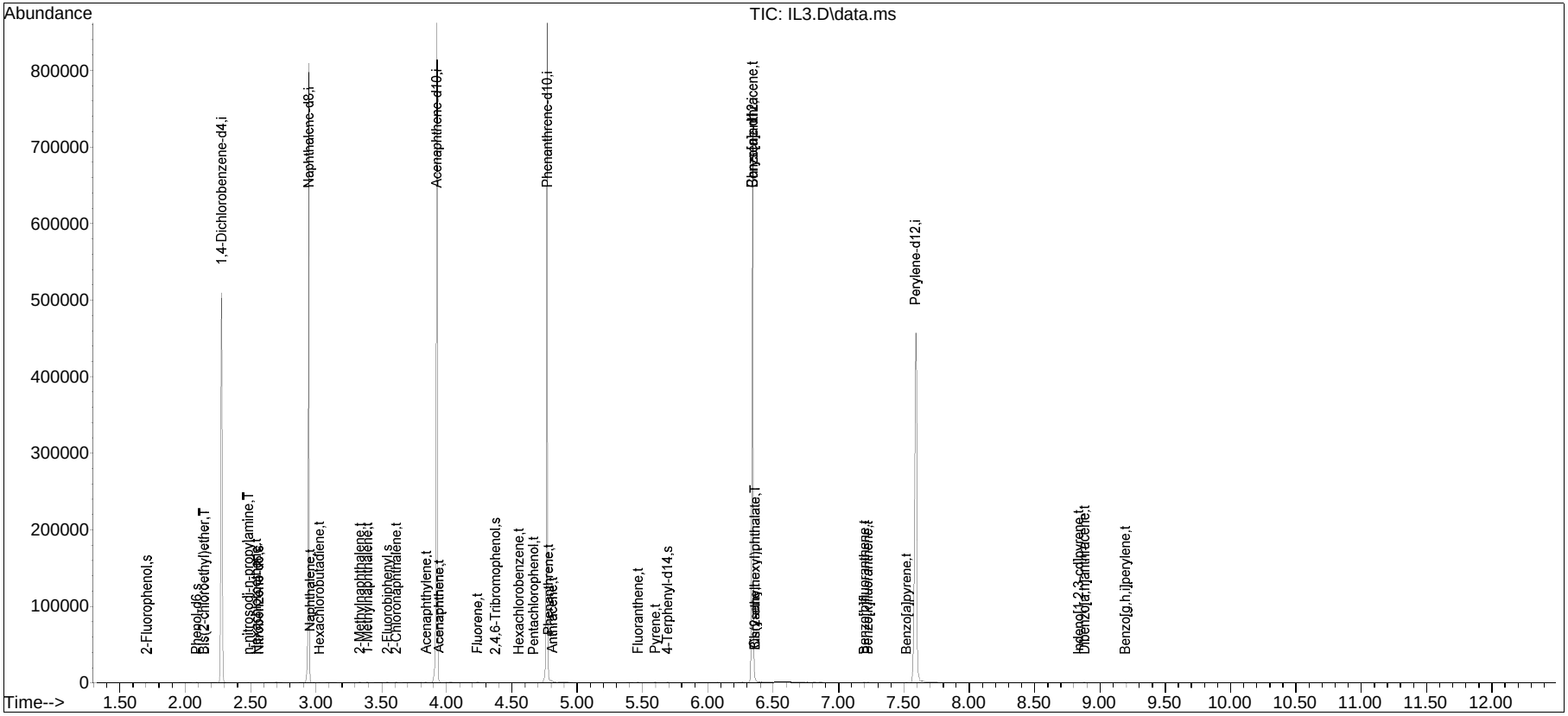
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

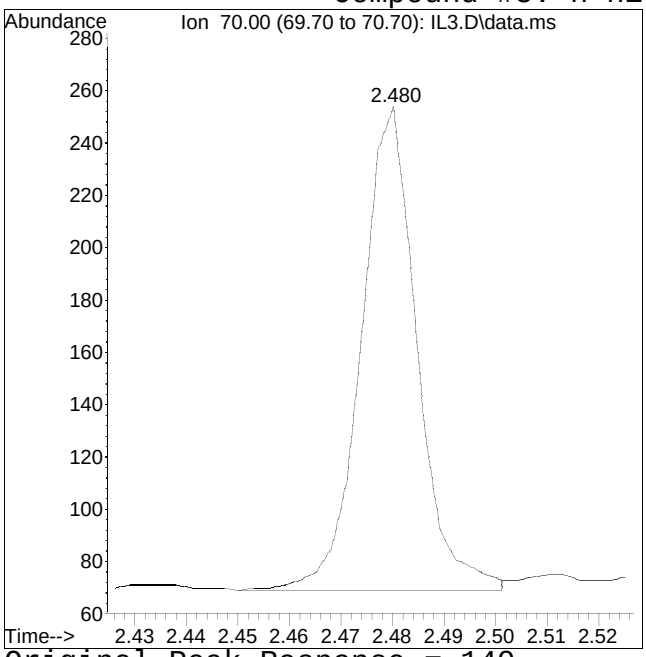
Sub List : Default - All compounds listedical\IL8.D•



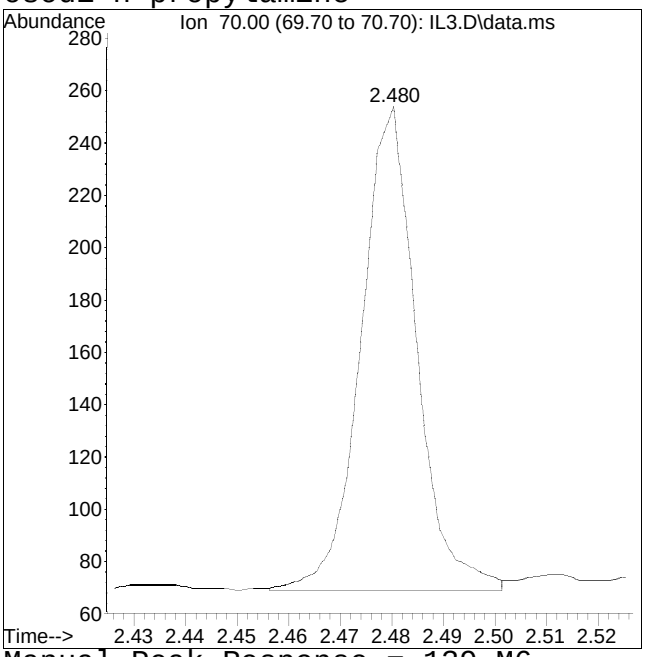
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL3.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:15 pm Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1046Quant Date : 5/30/2024 4:02 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 140



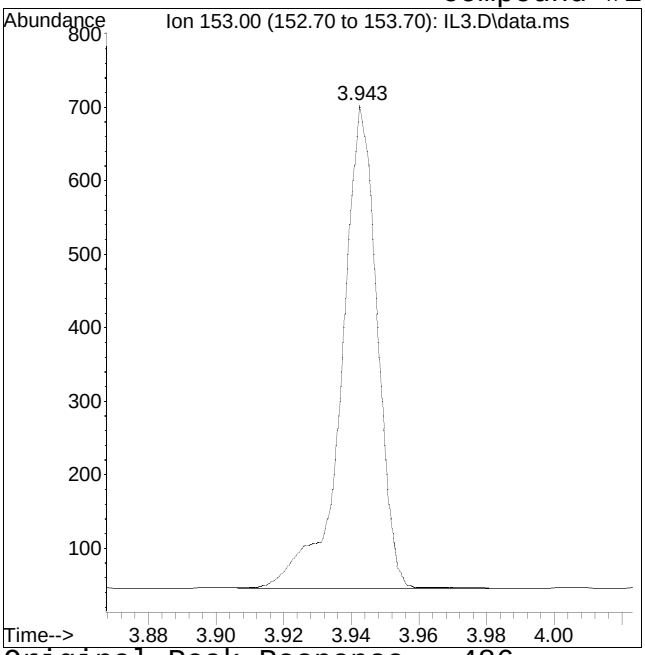
Manual Peak Response = 139 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

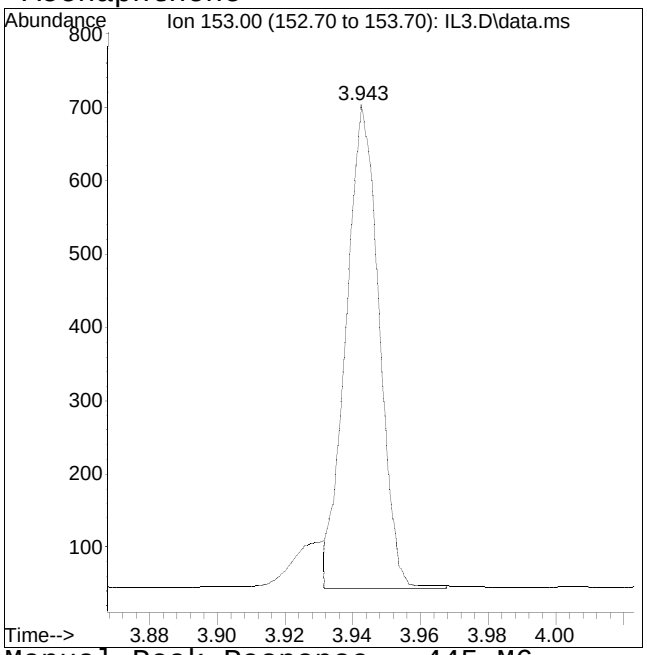
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #18: Acenaphthene



Original Peak Response = 486



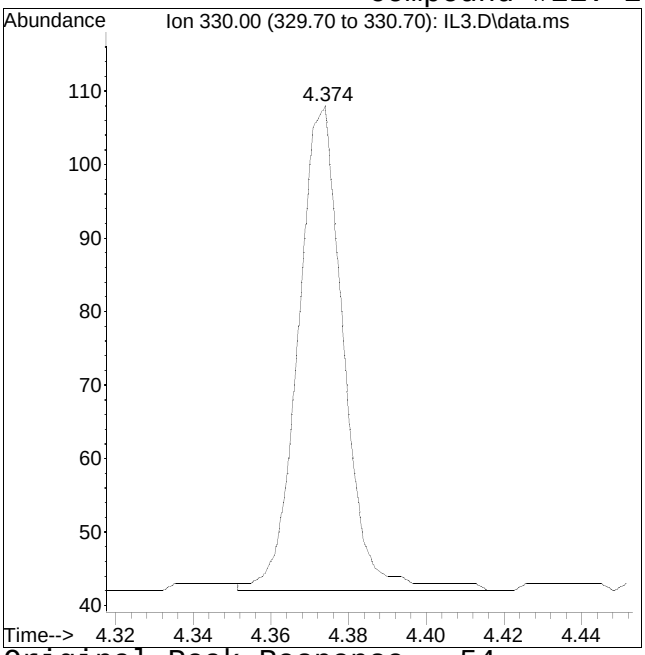
Manual Peak Response = 445 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

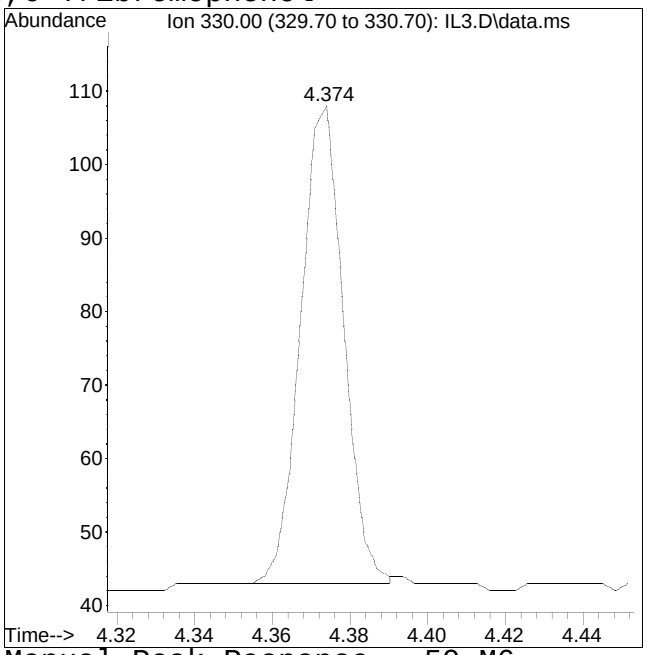
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 54



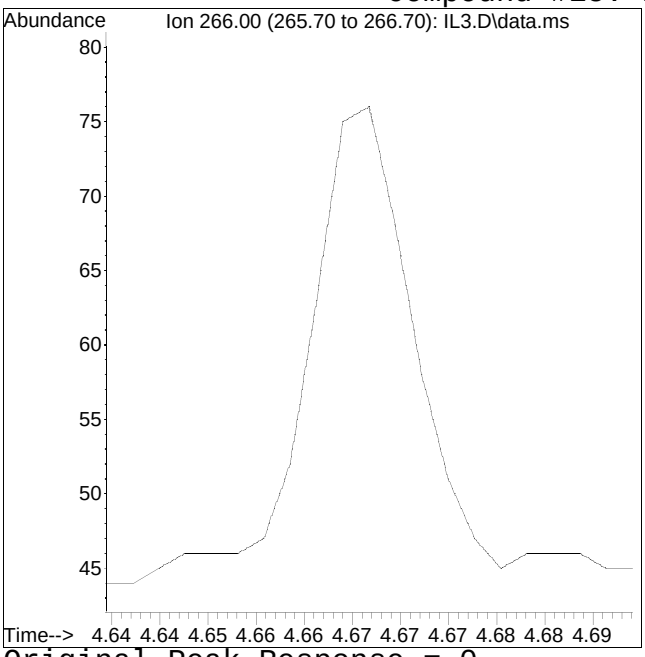
Manual Peak Response = 50 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

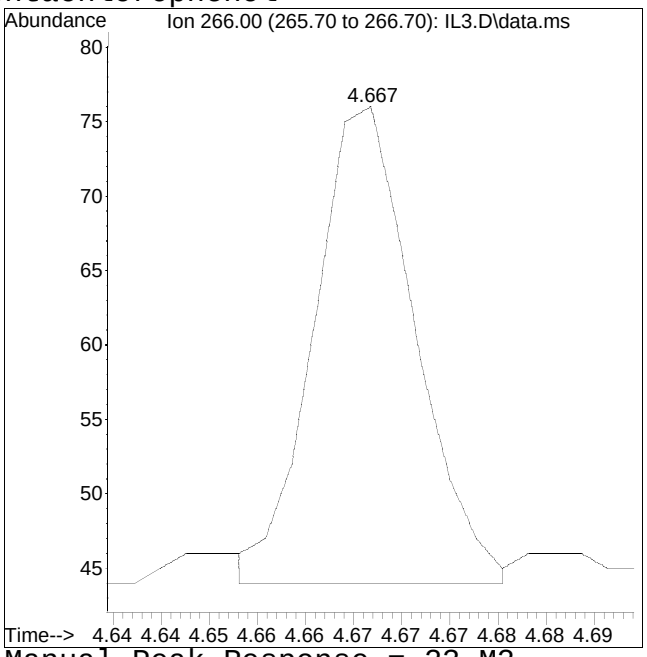
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 0



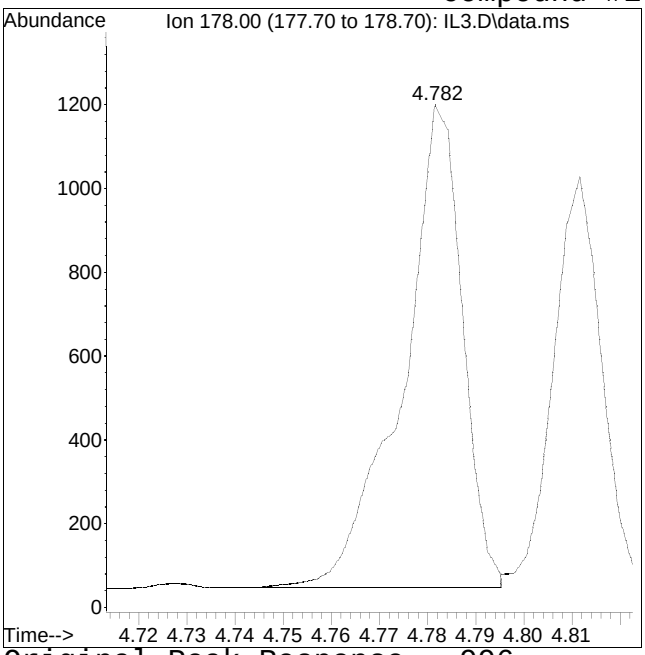
Manual Peak Response = 23 M2

M2 = Peak not found by automatic integration algorithm.

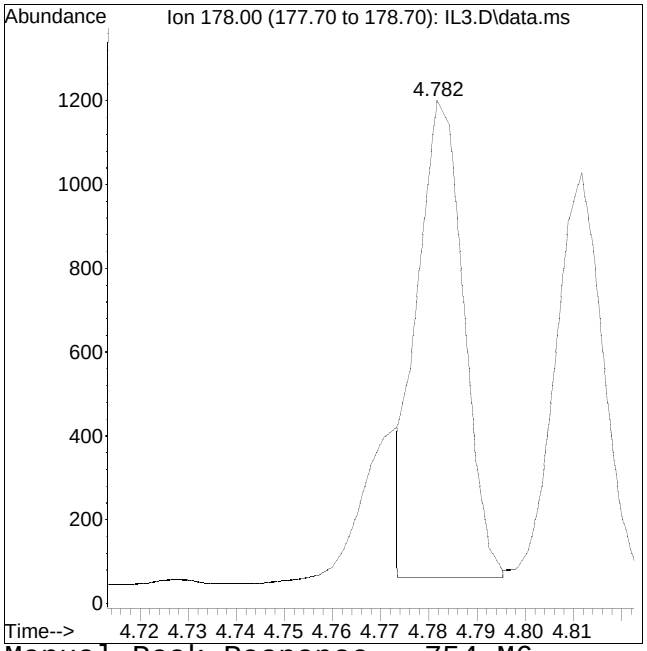
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 996



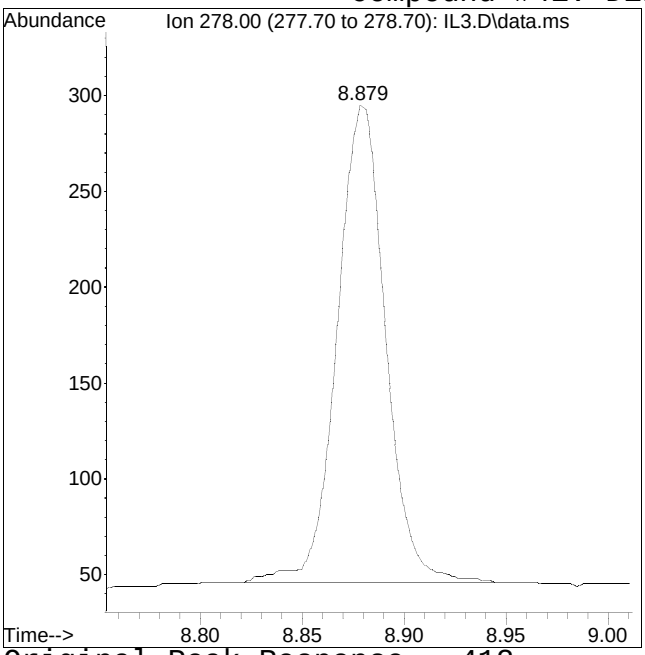
Manual Peak Response = 754 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

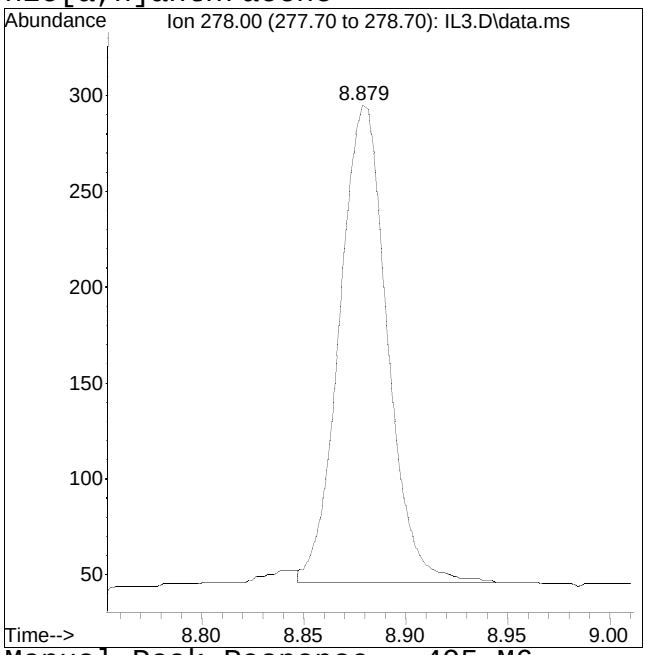
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 412



Manual Peak Response = 405 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	153895	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 85.14%			
8) Naphthalene-d8	2.944	136	545310	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 82.94%			
17) Acenaphthene-d10	3.927	164	283118	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 80.16%			
22) Phenanthrene-d10	4.770	188	544715	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 79.43%			
31) Chrysene-d12	6.339	240	389724	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 76.49%			
36) Perylene-d12	7.583	264	368708	4000.000	ng/ml	-0.02
Standard Area 1 = 492251			Recovery = 74.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.719	112	93	2.033	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	2.091	99	109M7	1.983	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.561	82	96	1.960	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.20%#			
13) 2-Fluorobiphenyl	3.545	172	240	2.070	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.688	244	225M4	2.030	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.10%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	105	2.161	ng/ml	91
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.954	128	335	2.173	ng/ml#	82
10) Hexachlorobutadiene	3.027	225	64	2.171	ng/ml	96
11) 2-Methylnaphthalene	3.336	142	197	2.049	ng/ml	97
12) 1-Methylnaphthalene	3.393	142	193	2.132	ng/ml	94
14) 2-Chloronaphthalene	3.608	162	203	2.065	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.843	152	273	1.887	ng/ml	98
18) Acenaphthene	3.943	153	199M6	2.049	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.234	166	216	2.063	ng/ml	95
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.554	284	85M6	2.166	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.781	178	296M6	1.933	ng/ml	
27) Anthracene	4.811	178	294M6	1.943	ng/ml	
28) Fluoranthene	5.466	202	329M6	1.981	ng/ml	
29) Pyrene	5.596	202	349M6	2.026	ng/ml	
32) Benzo[a]anthracene	6.339	228	1500M4	2.711	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.353	228	304M3	2.152	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.356	149	127M6	30.740	ng/ml	
37) Benzo[b]fluoranthene	7.196	252	244	2.001	ng/ml	99
38) Benzo[k]fluoranthene	7.222	252	239M4	2.059	ng/ml	
39) Benzo[a]pyrene	7.515	252	193	1.920	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.838	276	187M4	1.976	ng/ml	
41) Dibenzo[a,h]anthracene	8.875	278	164M6	1.810	ng/ml	
42) Benzo[g,h,i]perylene	9.188	276	196	2.035	ng/ml	99

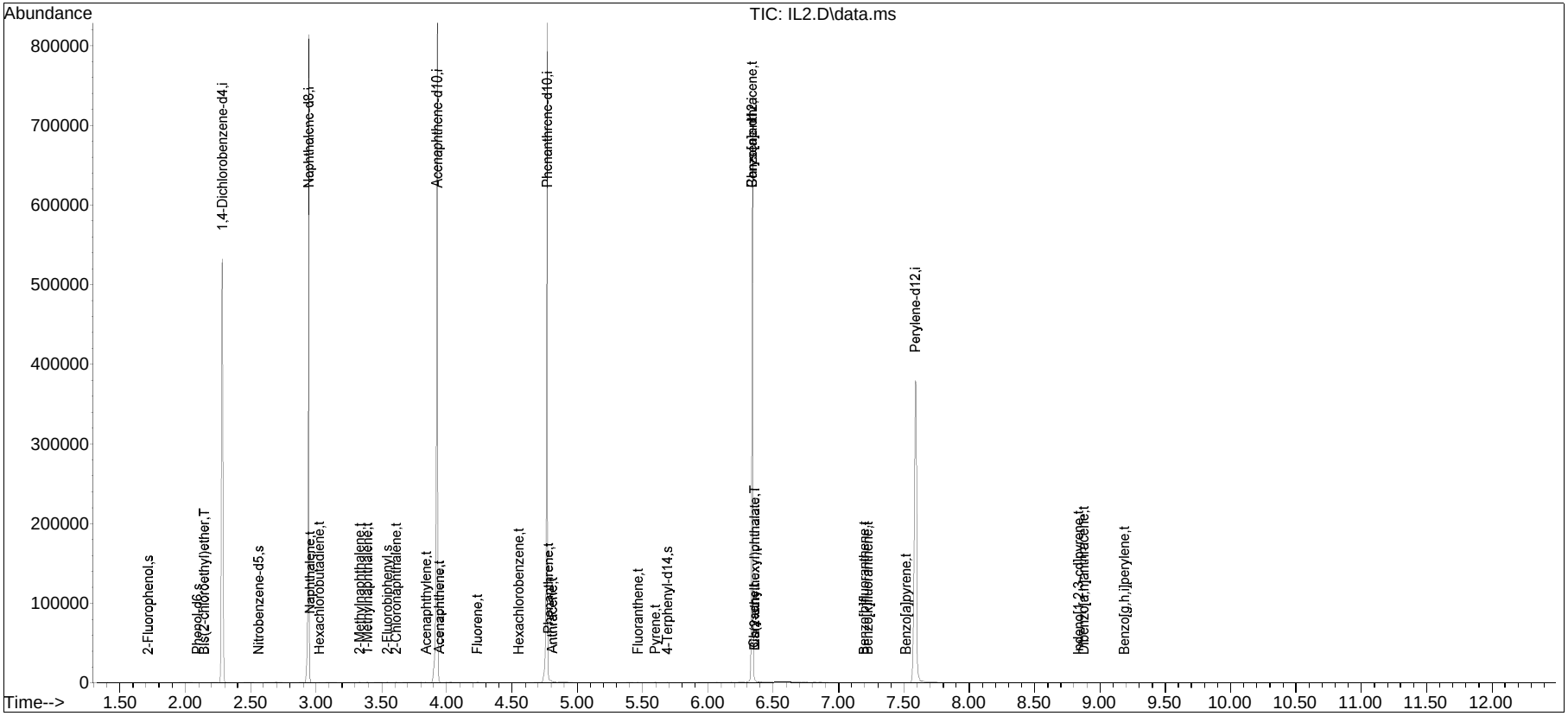
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

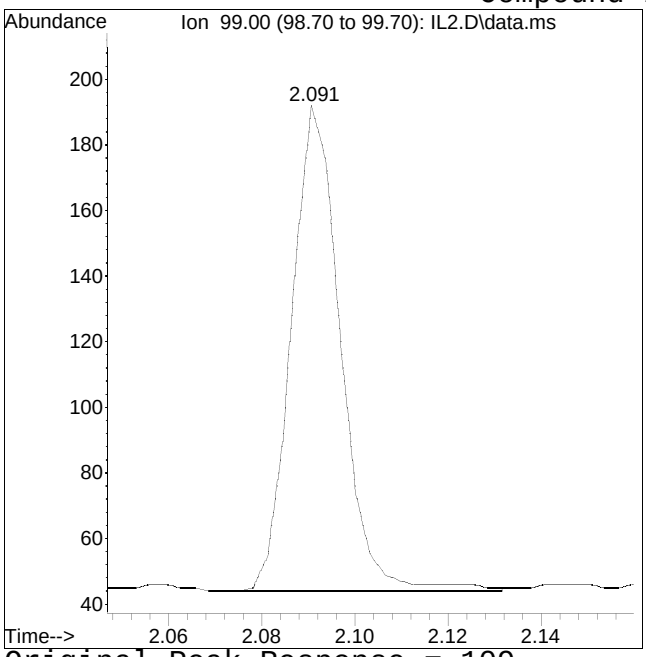
Sub List : Default - All compounds listedical\IL8.D•



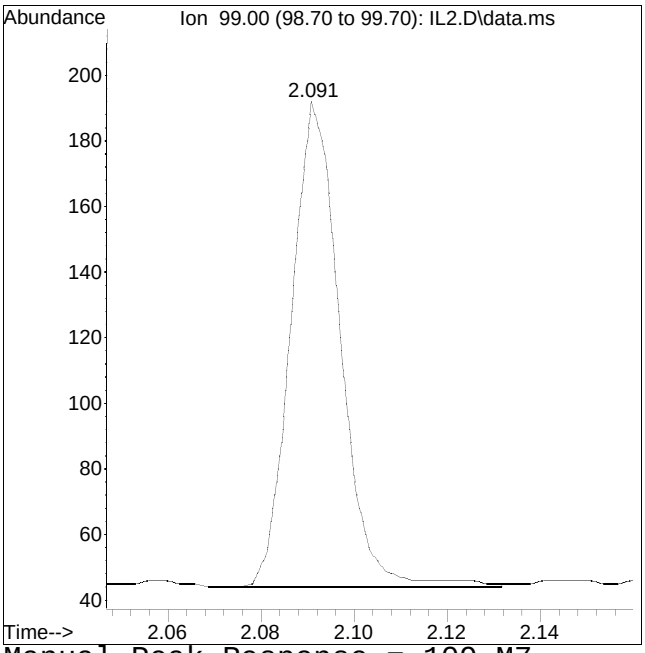
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #3: Phenol-d6



Original Peak Response = 109



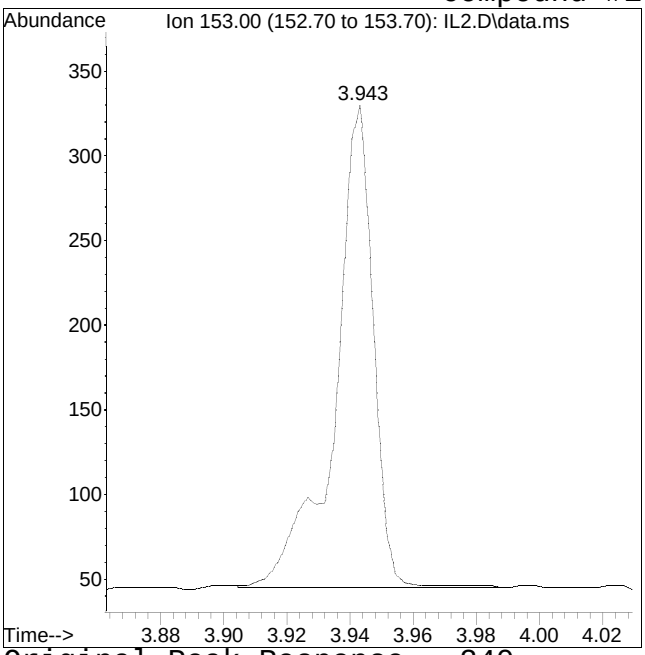
Manual Peak Response = 109 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

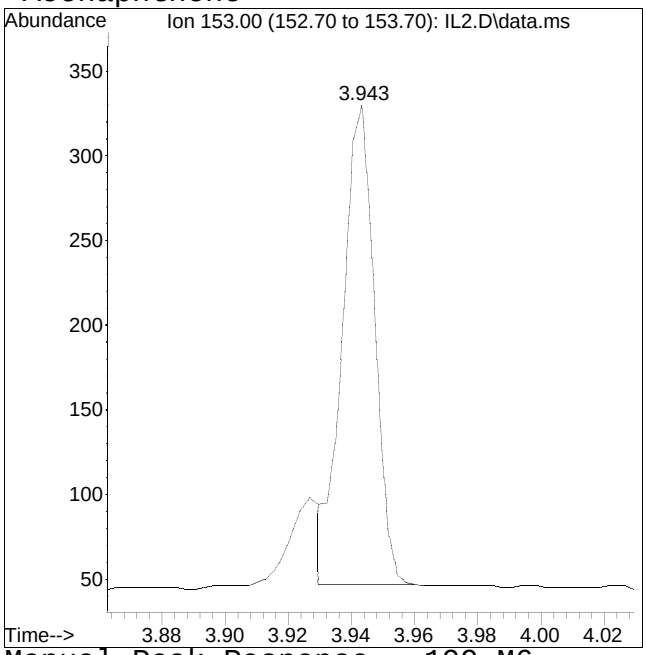
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #18: Acenaphthene



Original Peak Response = 240



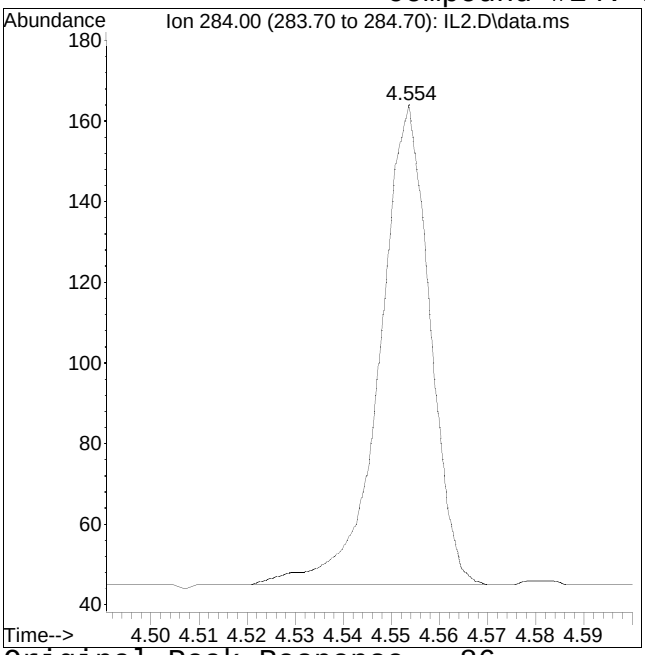
Manual Peak Response = 199 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

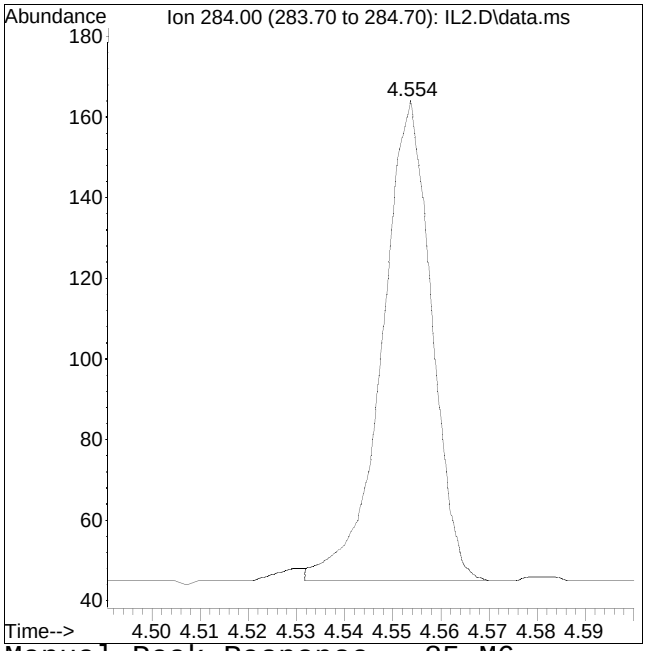
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 86



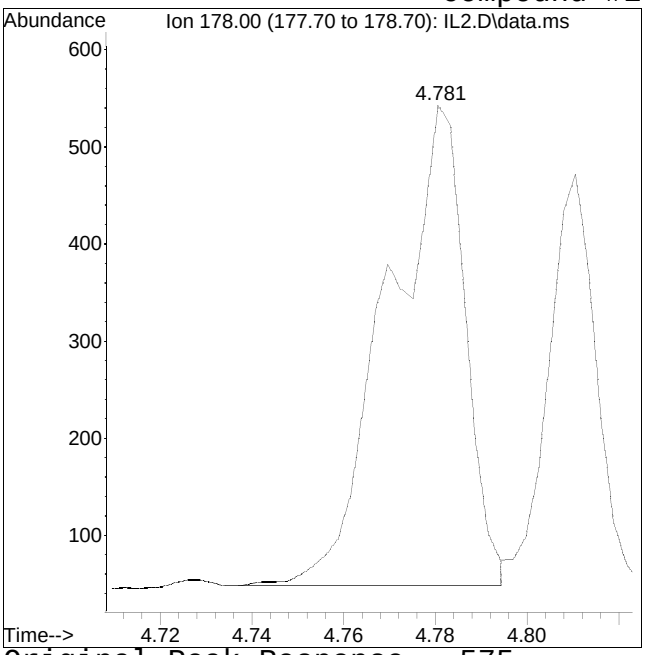
Manual Peak Response = 85 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

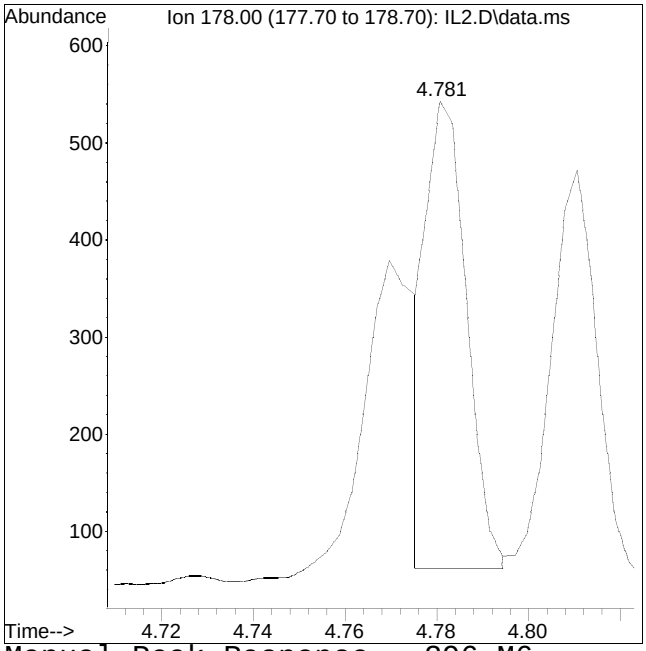
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #26: Phenanthrene



Original Peak Response = 575



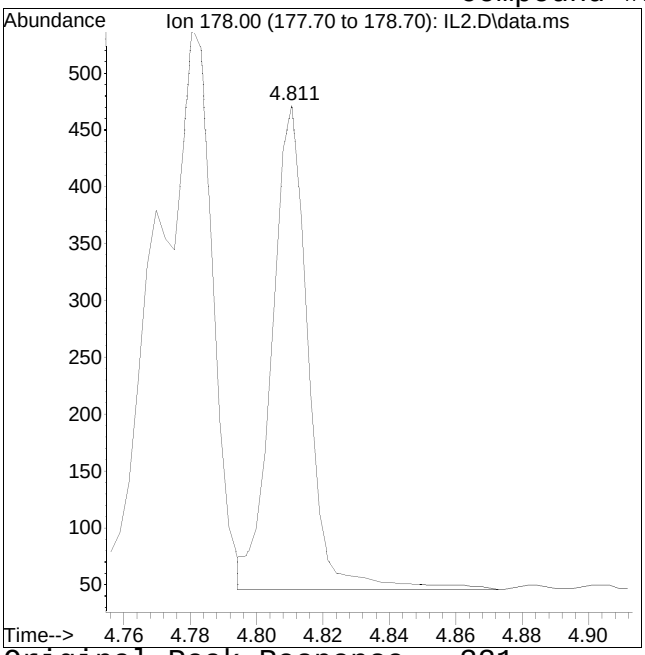
Manual Peak Response = 296 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

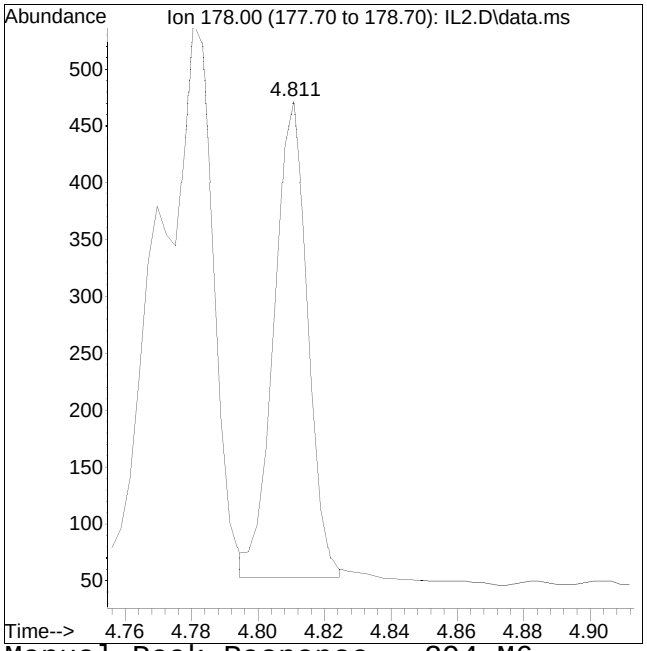
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #27: Anthracene



Original Peak Response = 321



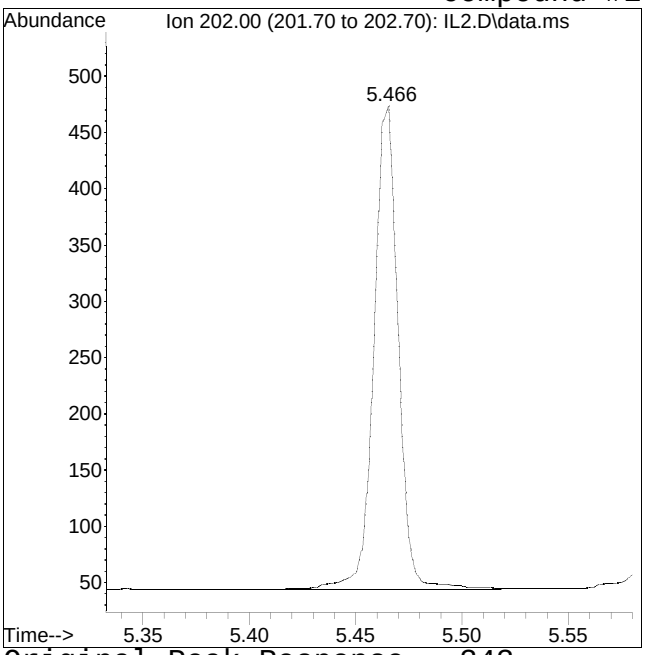
Manual Peak Response = 294 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

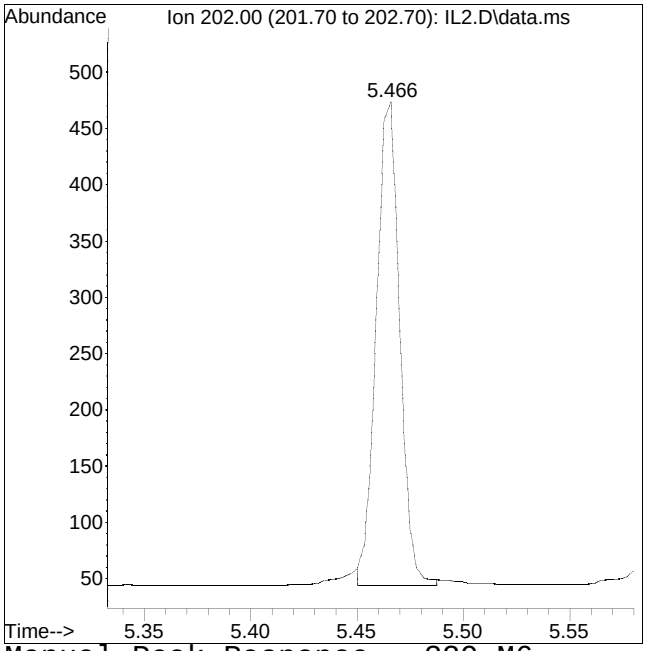
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #28: Fluoranthene



Original Peak Response = 343



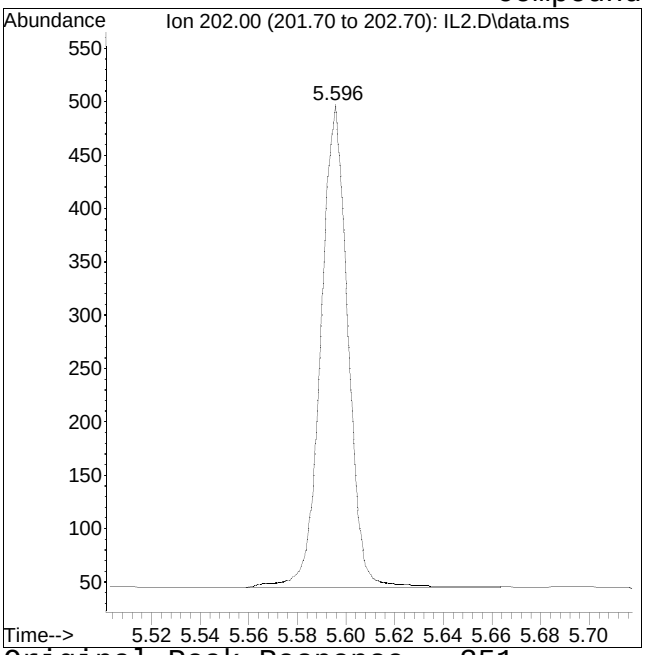
Manual Peak Response = 329 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

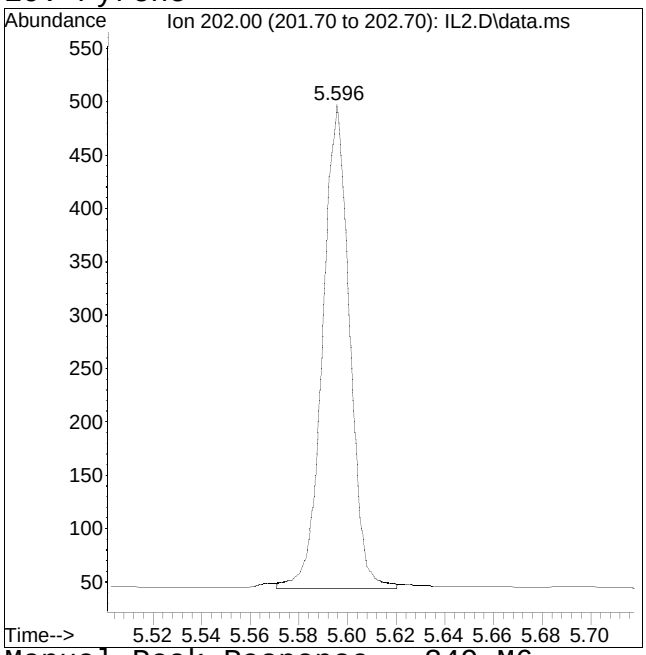
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #29: Pyrene



Original Peak Response = 351



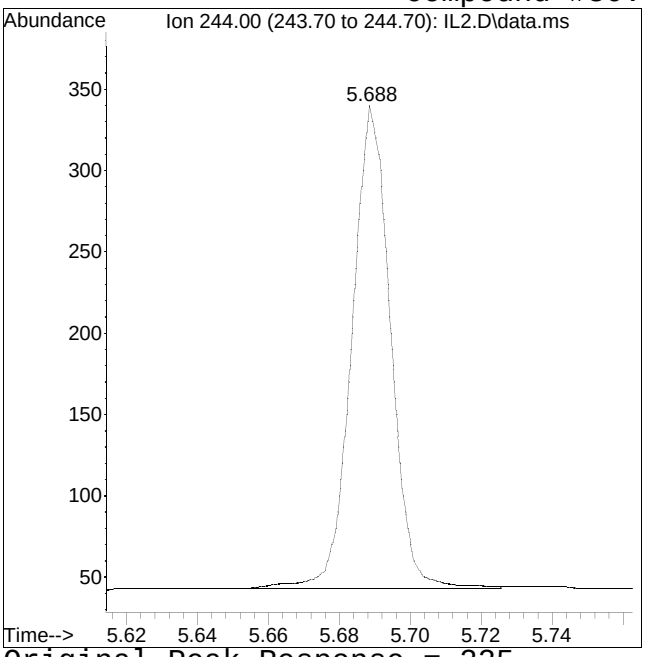
Manual Peak Response = 349 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

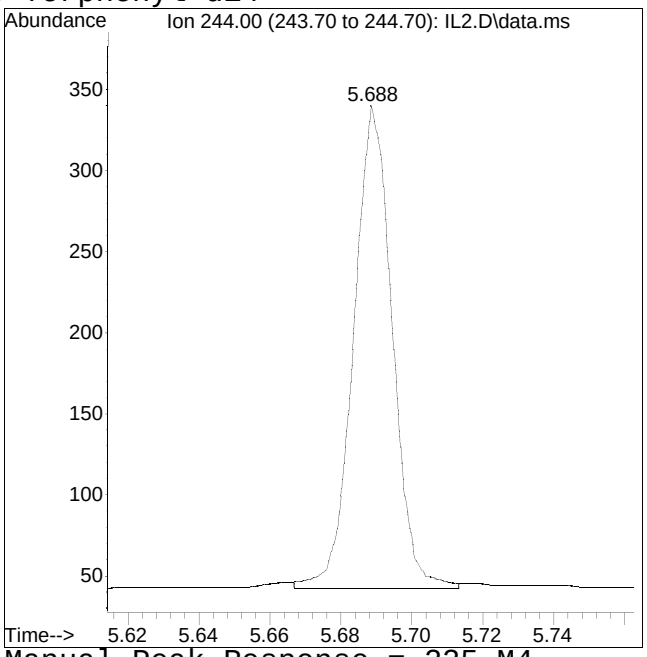
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 225



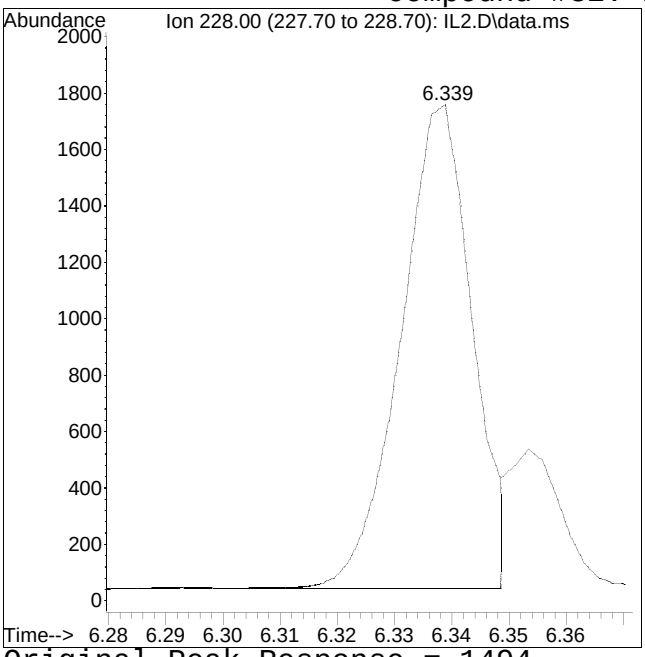
Manual Peak Response = 225 M4

M4 = Poor automated baseline construction.

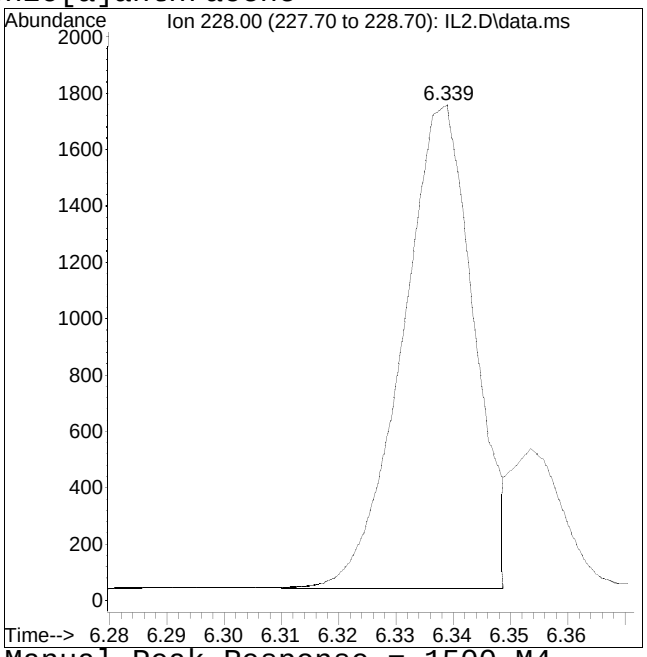
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1494



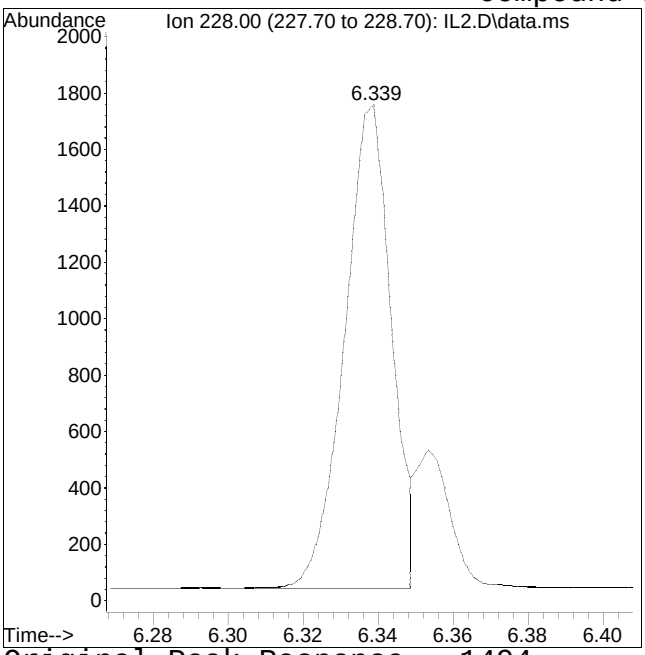
Manual Peak Response = 1500 M4

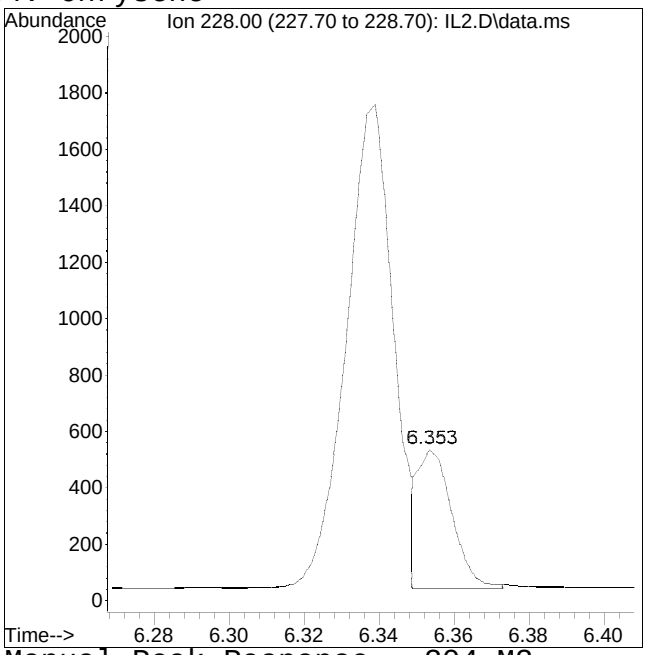
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #34: Chrysene





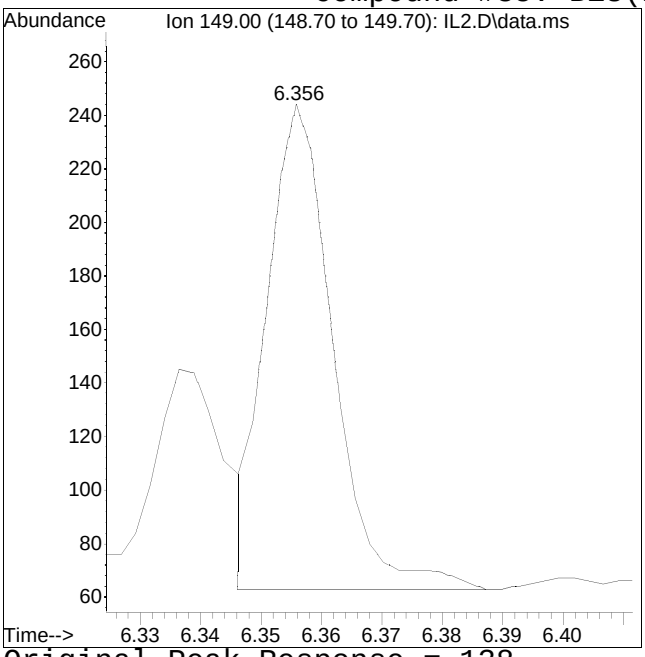
Original Peak Response = 1494 Manual Peak Response = 304 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

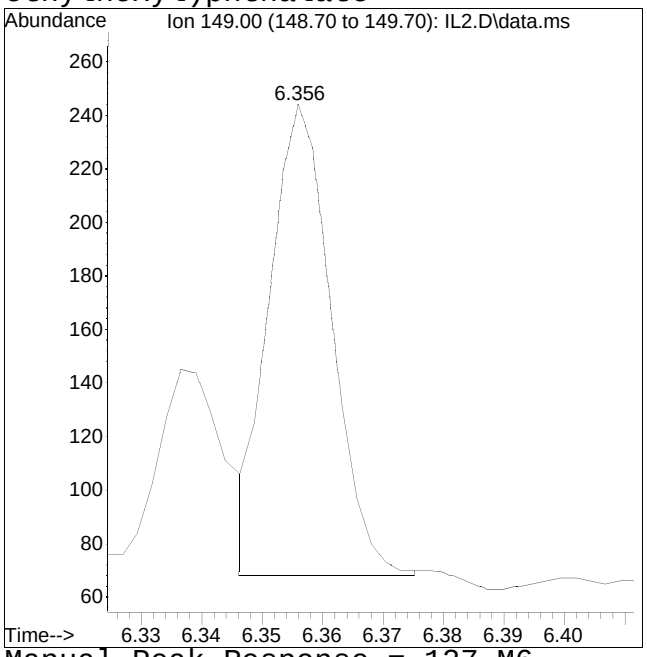
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 138



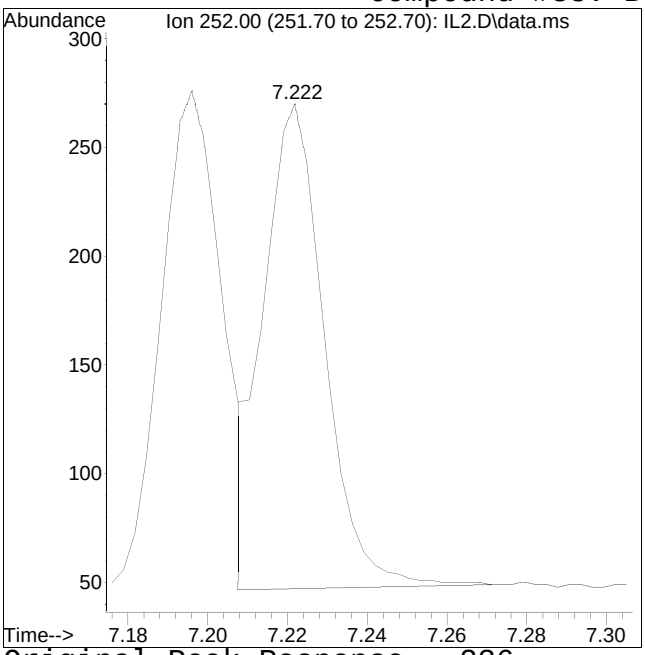
Manual Peak Response = 127 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

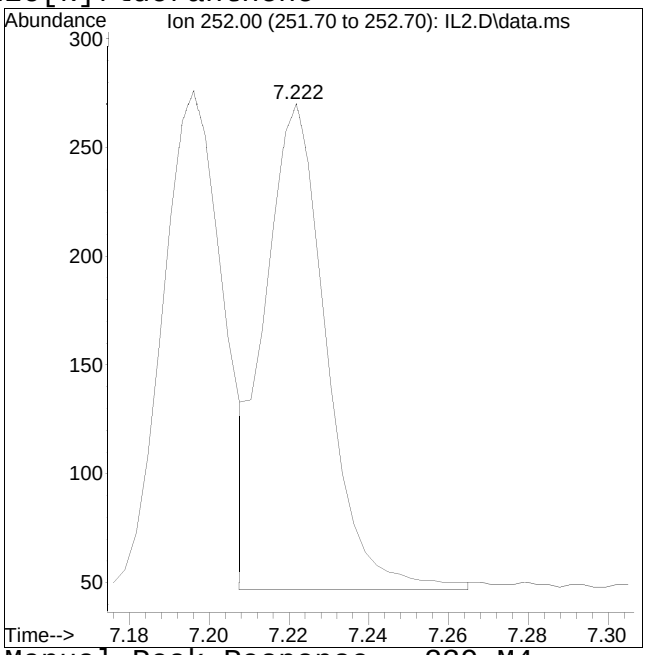
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 236



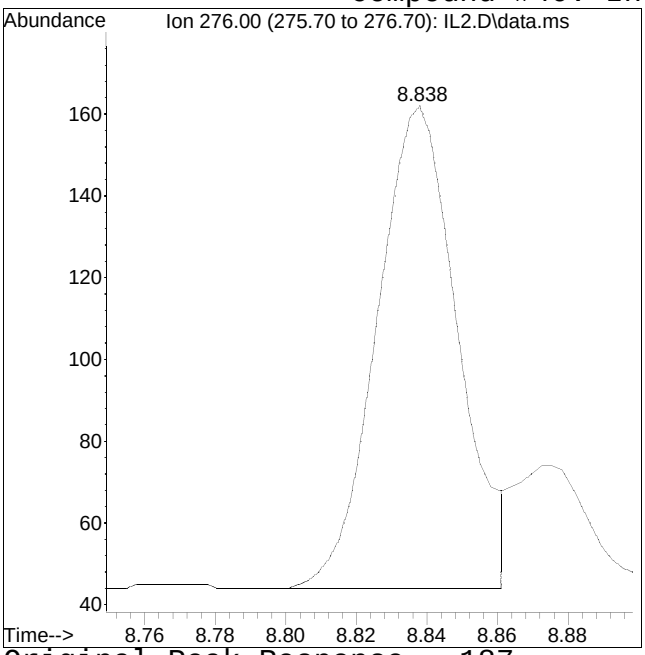
Manual Peak Response = 239 M4

M4 = Poor automated baseline construction.

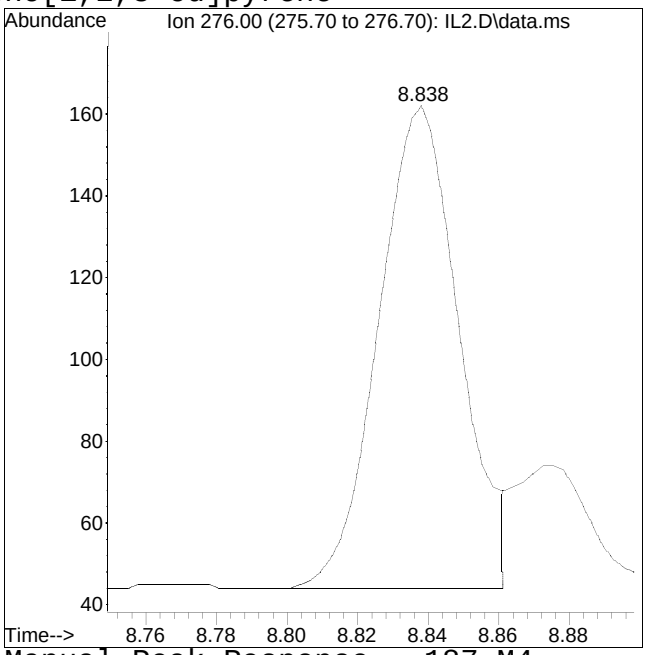
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 187



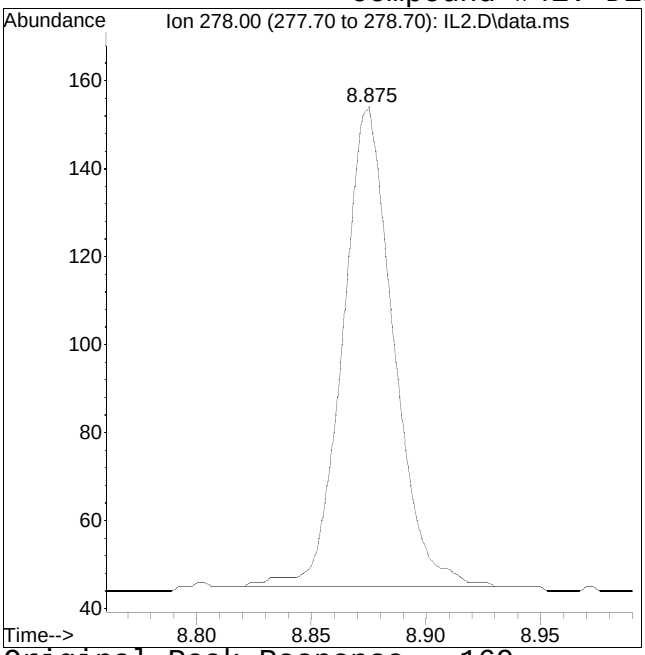
Manual Peak Response = 187 M4

M4 = Poor automated baseline construction.

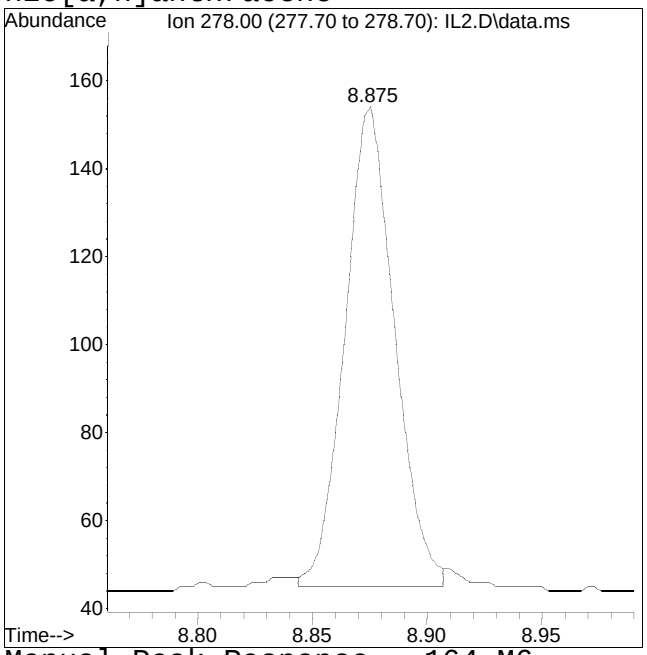
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 169



Manual Peak Response = 164 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	155136	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 85.82%			
8) Naphthalene-d8	2.943	136	561509	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 85.41%			
17) Acenaphthene-d10	3.926	164	299449	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 84.78%			
22) Phenanthrene-d10	4.769	188	599573	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 87.43%			
31) Chrysene-d12	6.337	240	444724	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 87.28%			
36) Perylene-d12	7.585	264	408019	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 82.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	0.000	82	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.00%#			
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.00%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	0.000	244	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
5) n-nitrosodi-n-propylamine	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.954	128	182M4	1.147	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.336	142	99	1.000	ng/ml	96
12) 1-Methylnaphthalene	3.393	142	97	1.041	ng/ml	98
14) 2-Chloronaphthalene	0.000		0	N.D. d		
15) 2,6-Dinitrotoluene	0.000		0	N.D.		
16) Acenaphthylene	3.843	152	144M6	0.964	ng/ml	
18) Acenaphthene	3.943	153	107M7	1.032	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.235	166	120	1.084	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.553	284	48M4	1.110	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.782	178	154M6	0.911	ng/ml	
27) Anthracene	4.810	178	187M6	1.119	ng/ml	
28) Fluoranthene	5.464	202	209M6	1.136	ng/ml	
29) Pyrene	5.594	202	214	1.128	ng/ml	97
32) Benzo[a]anthracene	6.337	228	1511M6	1.250	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.351	228	157M3	0.974	ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D. d		
37) Benzo[b]fluoranthene	7.192	252	155M4	1.151	ng/ml	
38) Benzo[k]fluoranthene	7.218	252	131M6	1.017	ng/ml	
39) Benzo[a]pyrene	7.517	252	119M4	1.074	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.834	276	105M4	1.002	ng/ml	
41) Dibenzo[a,h]anthracene	8.874	278	96M6	0.947	ng/ml	
42) Benzo[g,h,i]perylene	9.187	276	108M4	1.014	ng/ml	

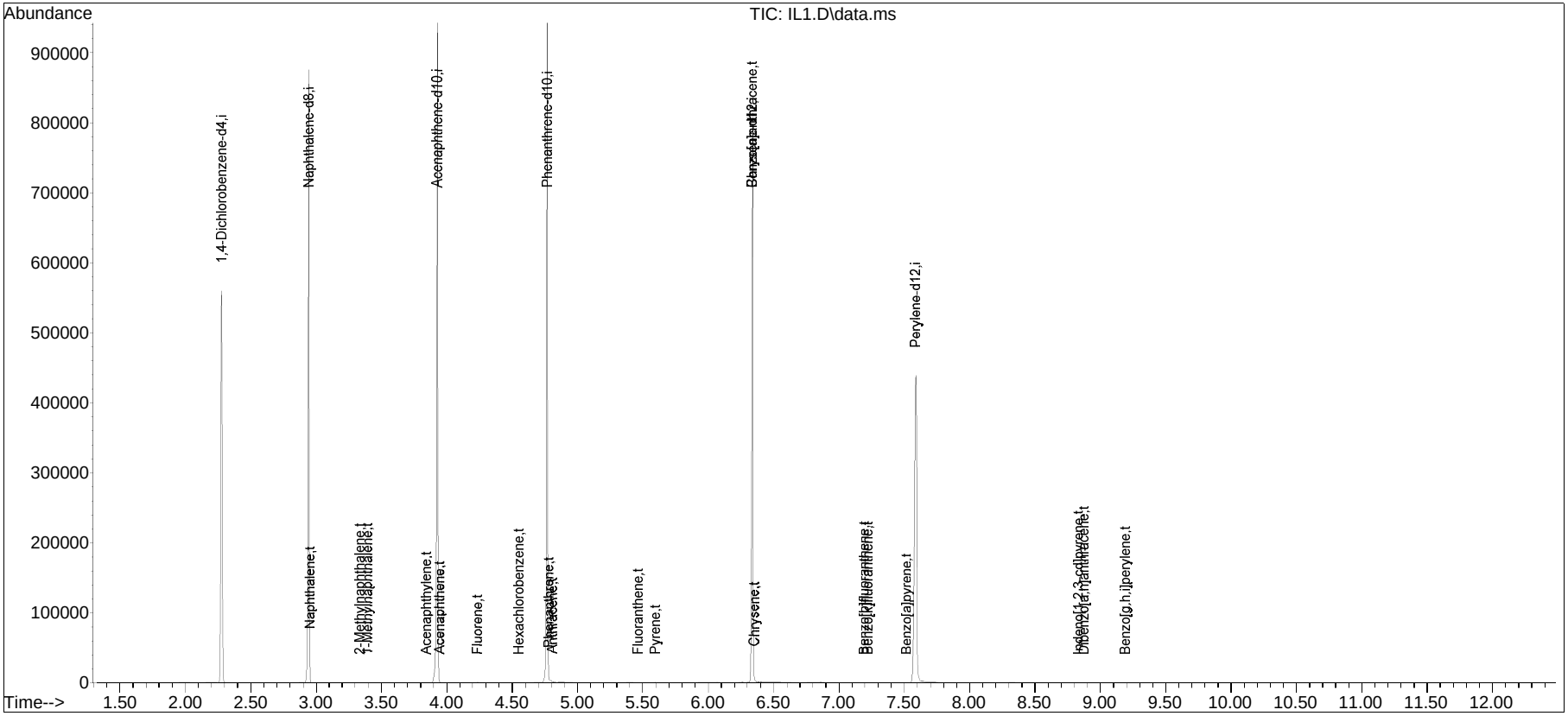
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

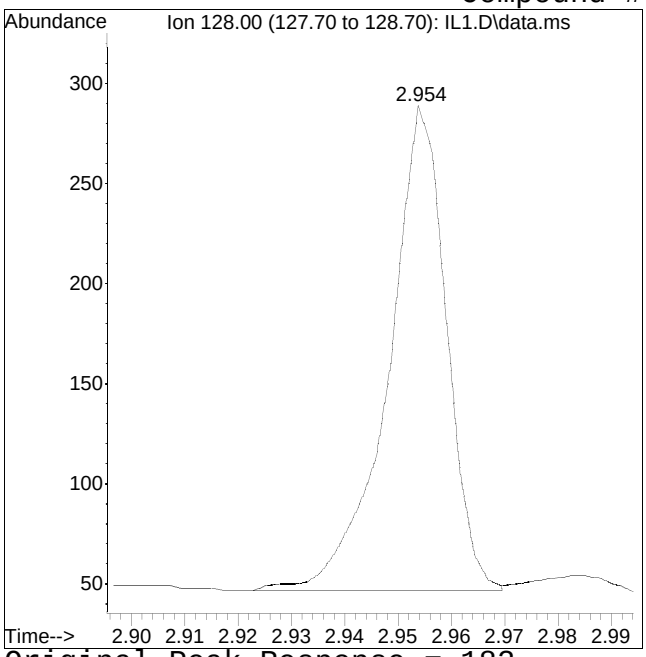
Sub List : Default - All compounds listedical\IL8.D•



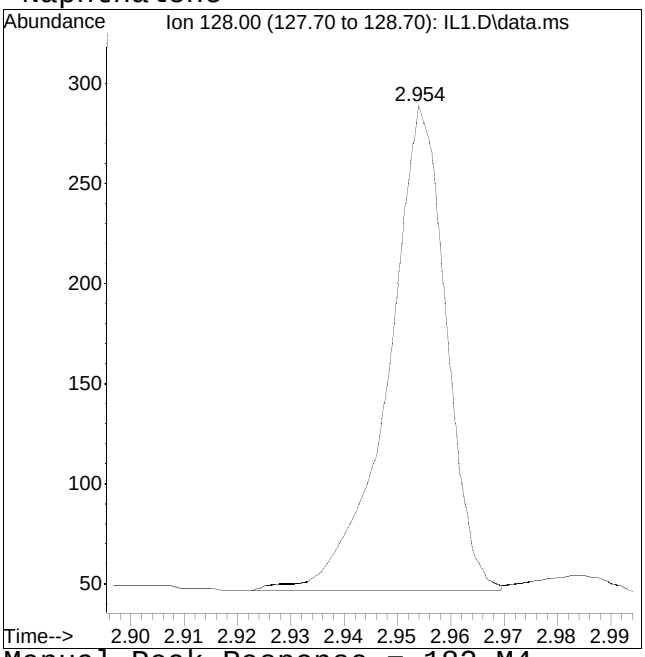
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #9: Naphthalene



Original Peak Response = 182



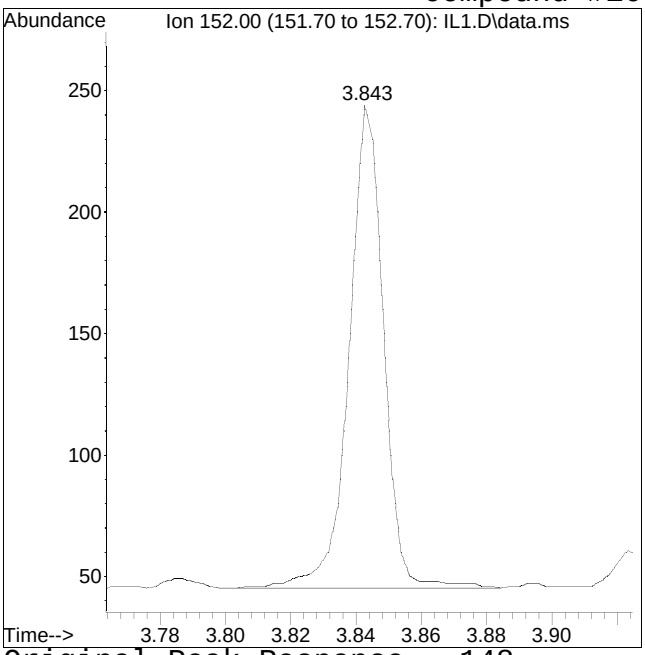
Manual Peak Response = 182 M4

M4 = Poor automated baseline construction.

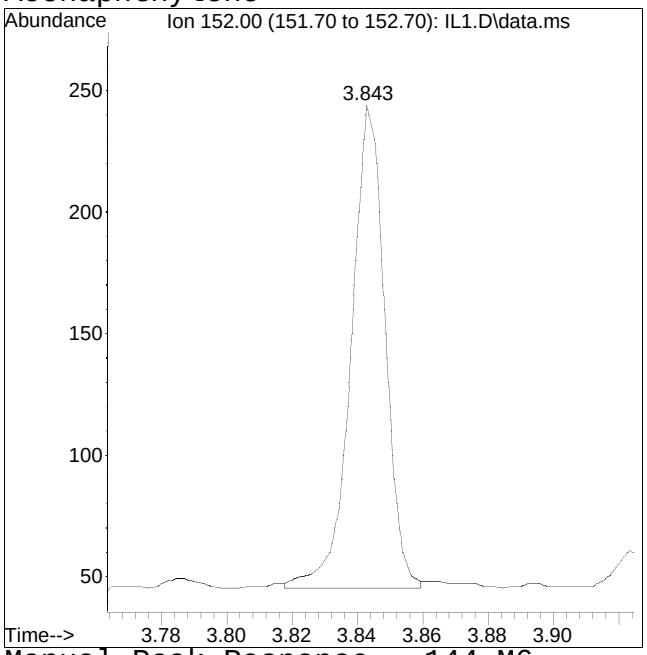
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #16: Acenaphthylene



Original Peak Response = 148



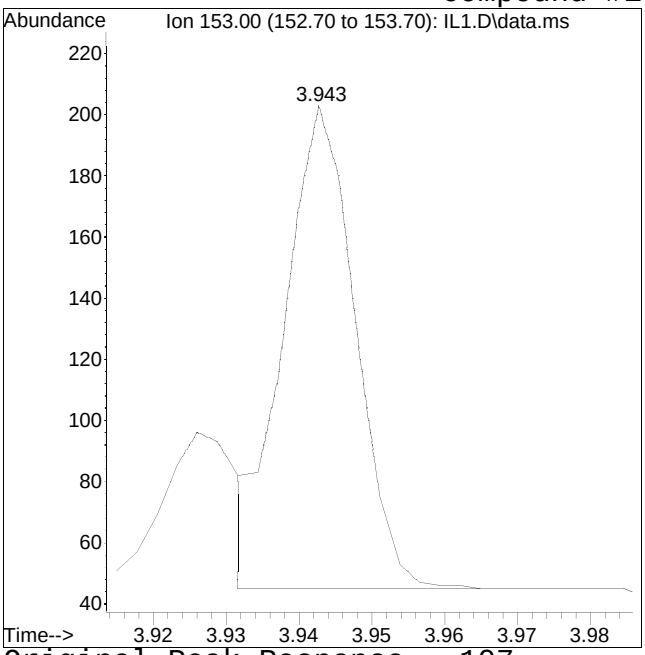
Manual Peak Response = 144 M6

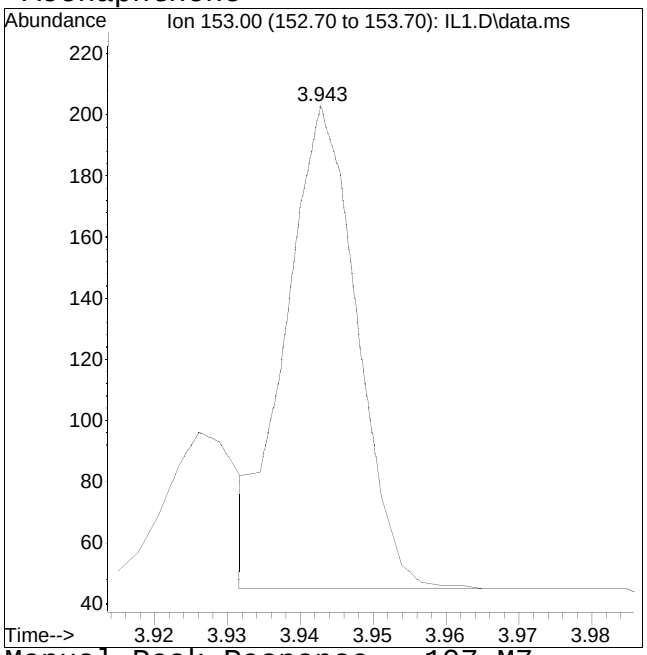
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #18: Acenaphthene



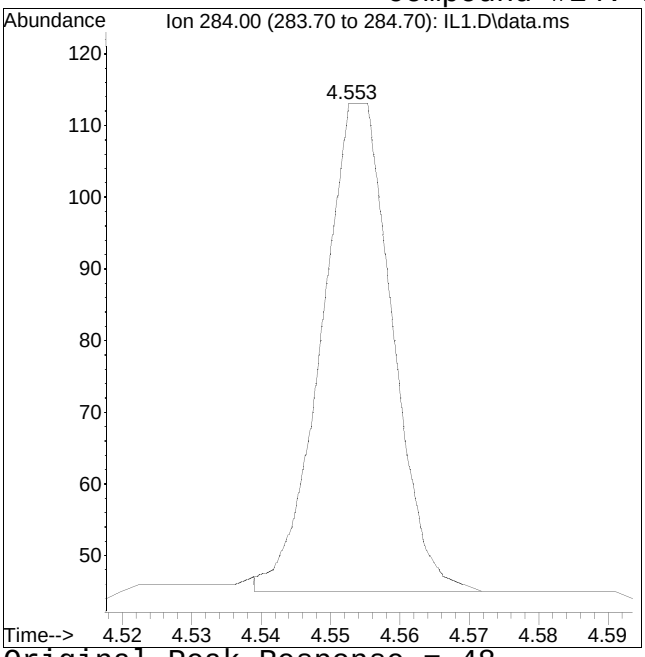


Original Peak Response = 107 Manual Peak Response = 107 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

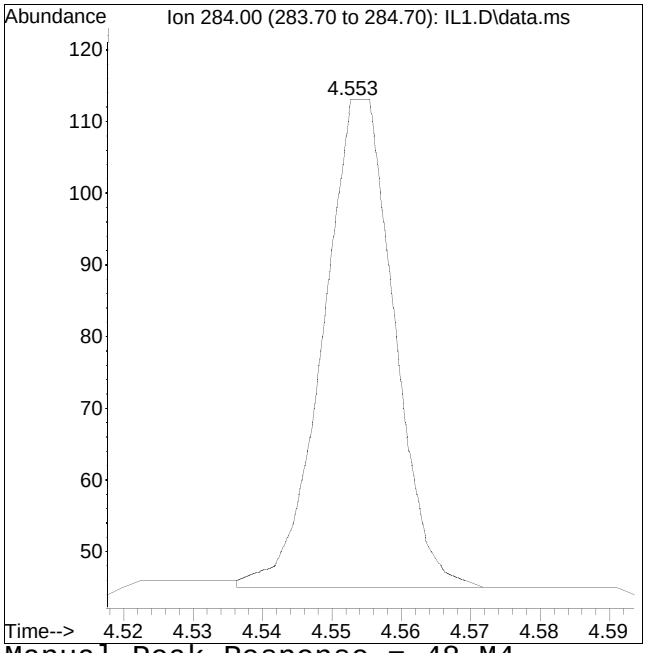
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 48



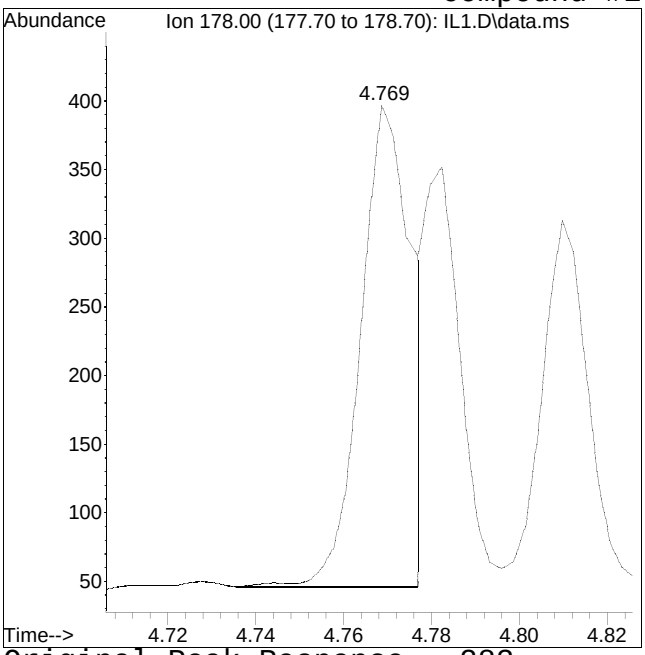
Manual Peak Response = 48 M4

M4 = Poor automated baseline construction.

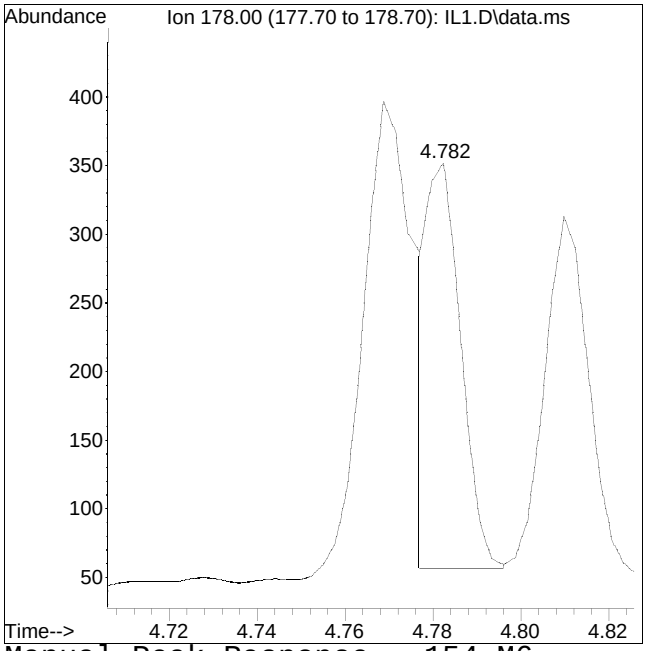
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #26: Phenanthrene



Original Peak Response = 283



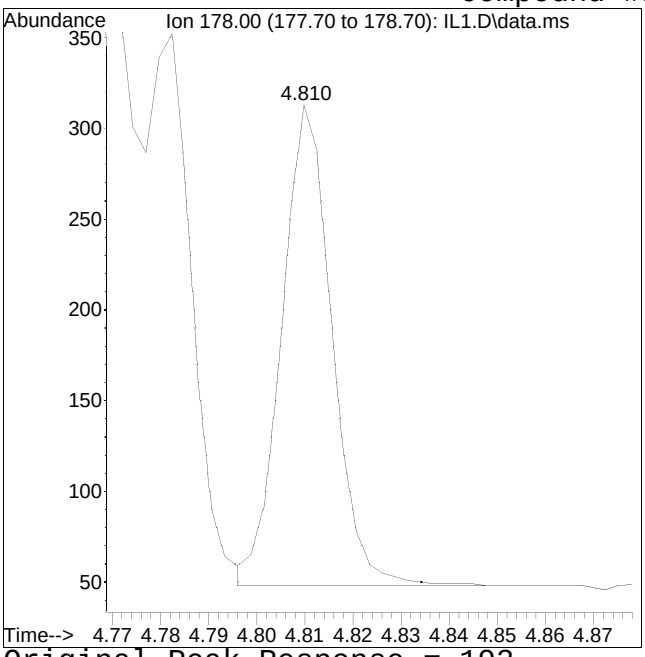
Manual Peak Response = 154 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

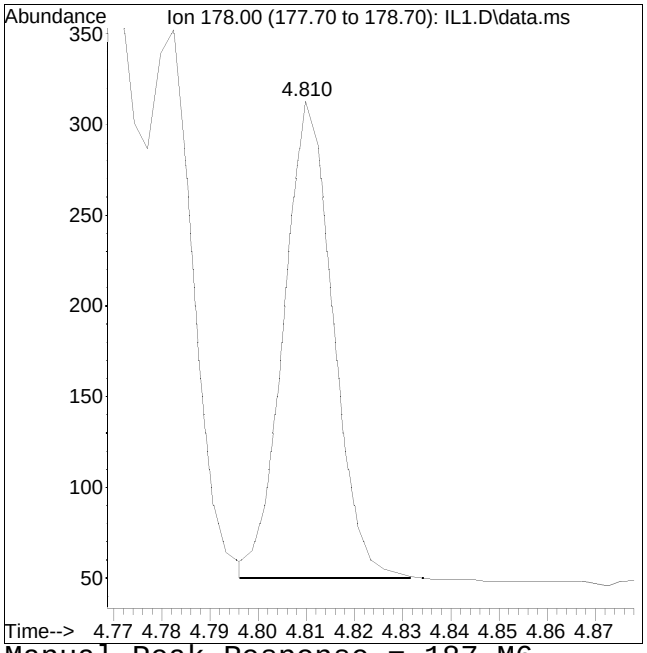
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL1.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:48 pm Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1075Quant Date : 5/29/2024 1:00 pm

Compound #27: Anthracene



Original Peak Response = 192



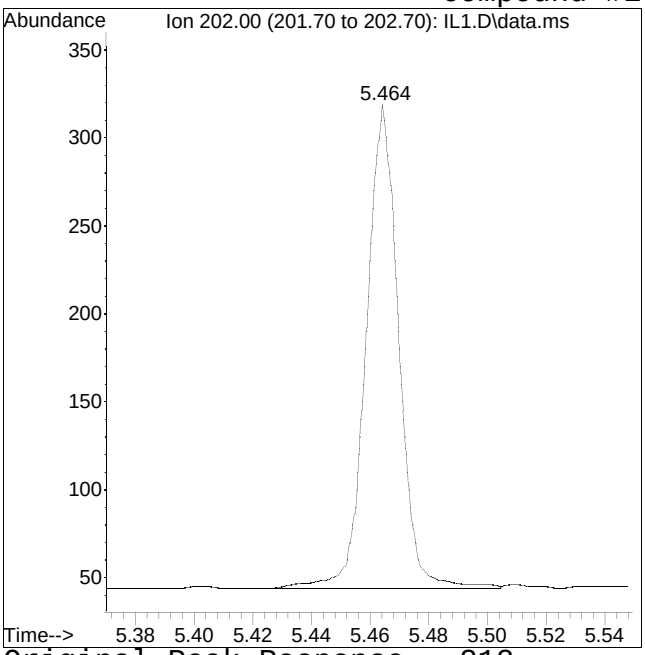
Manual Peak Response = 187 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

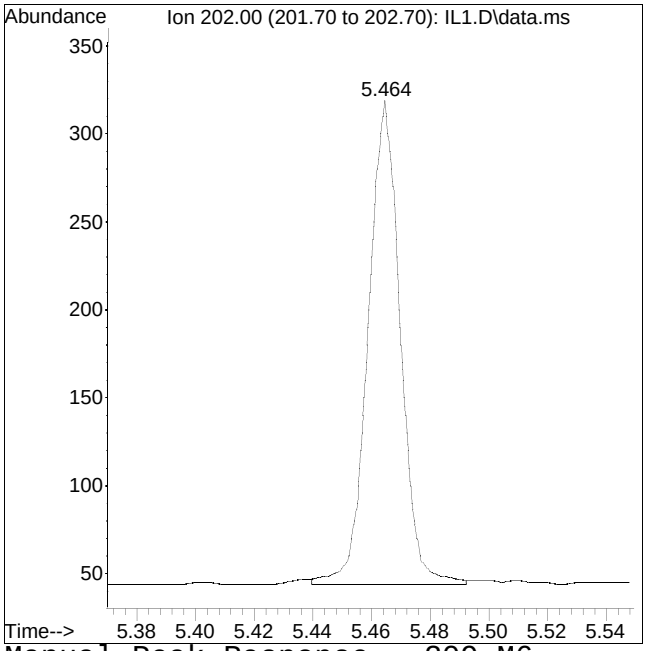
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #28: Fluoranthene



Original Peak Response = 212



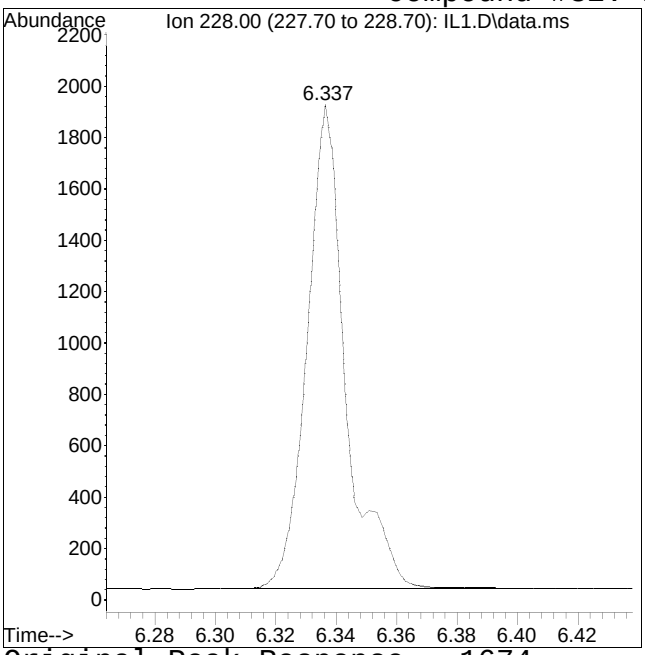
Manual Peak Response = 209 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

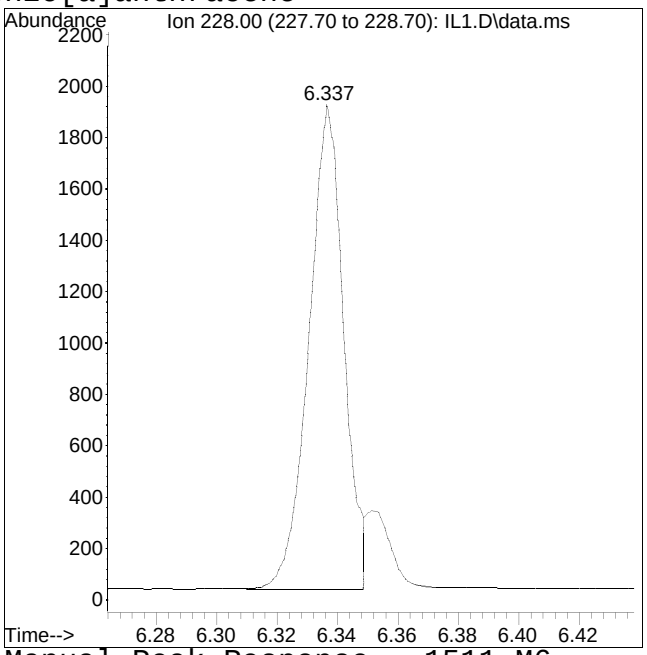
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1674



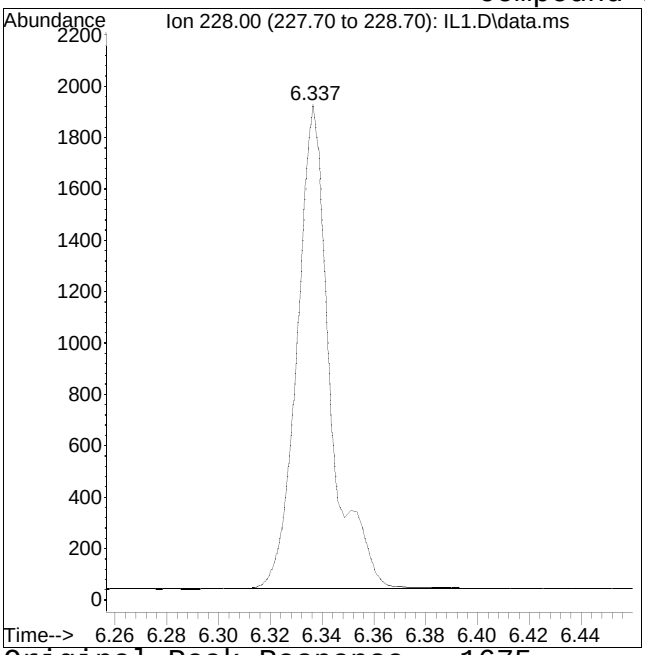
Manual Peak Response = 1511 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

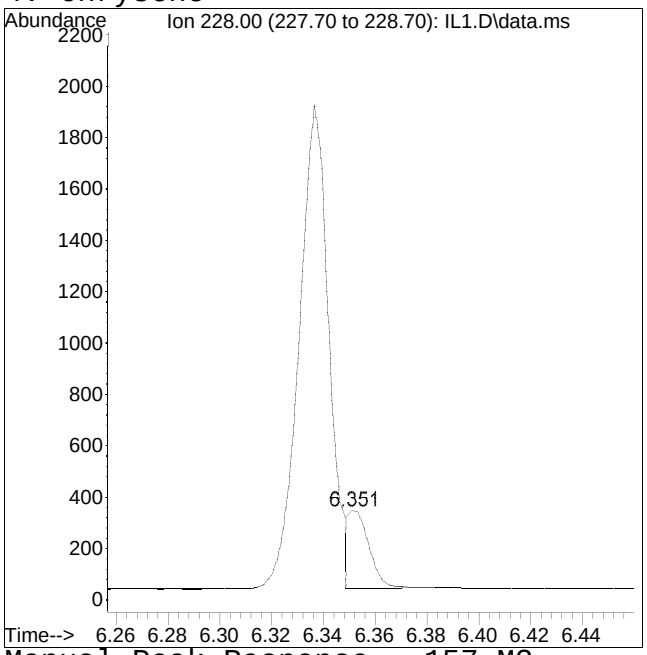
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #34: Chrysene



Original Peak Response = 1675



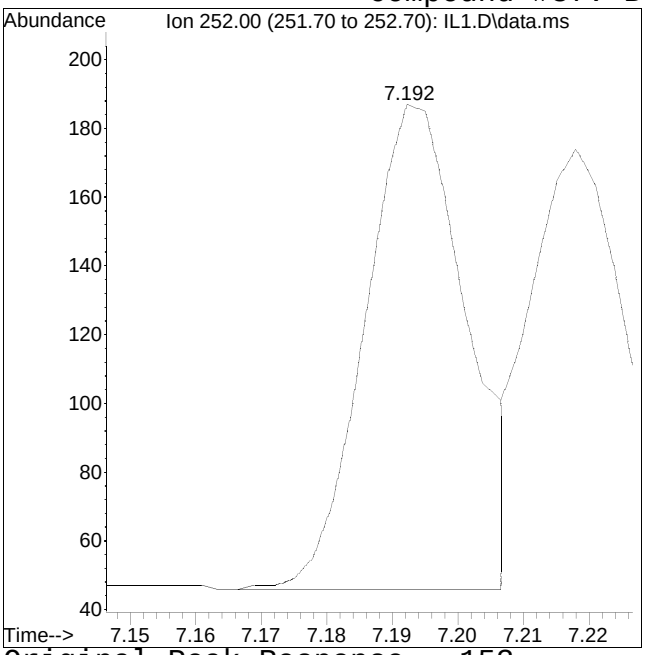
Manual Peak Response = 157 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

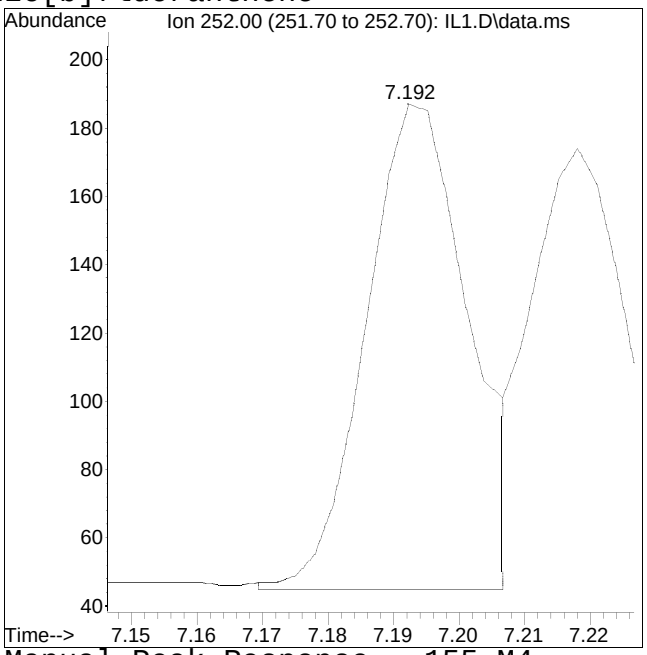
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 153



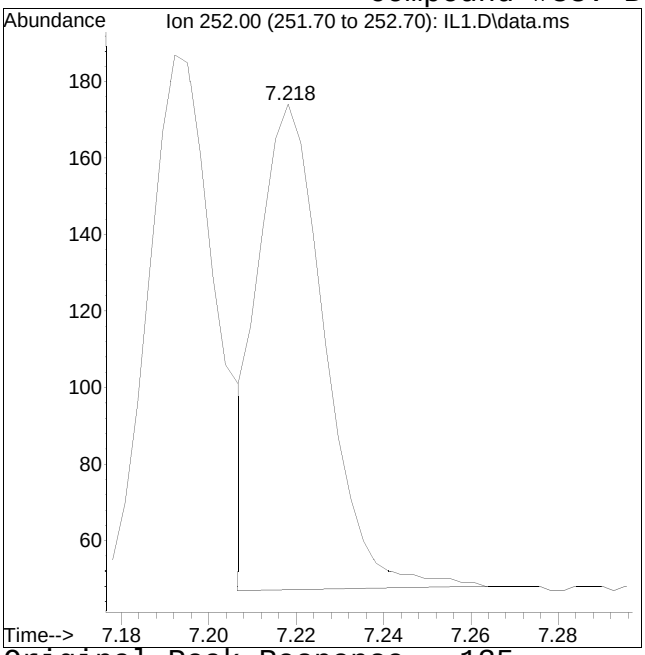
Manual Peak Response = 155 M4

M4 = Poor automated baseline construction.

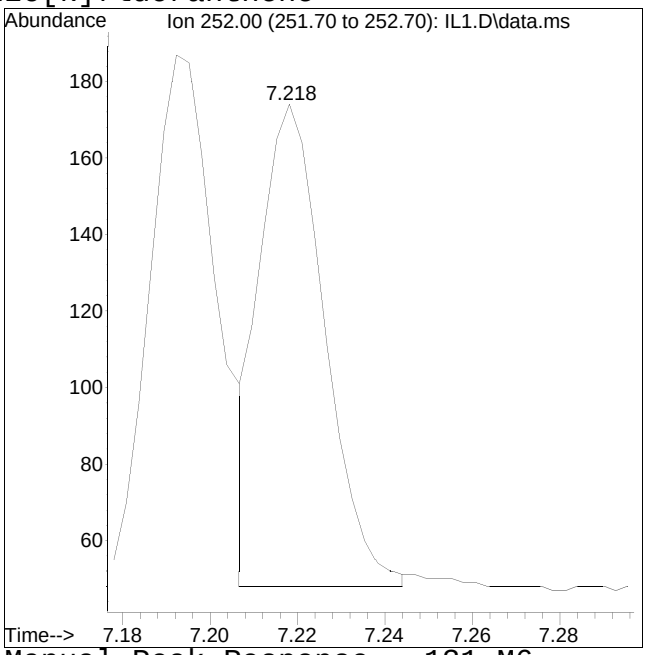
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 135



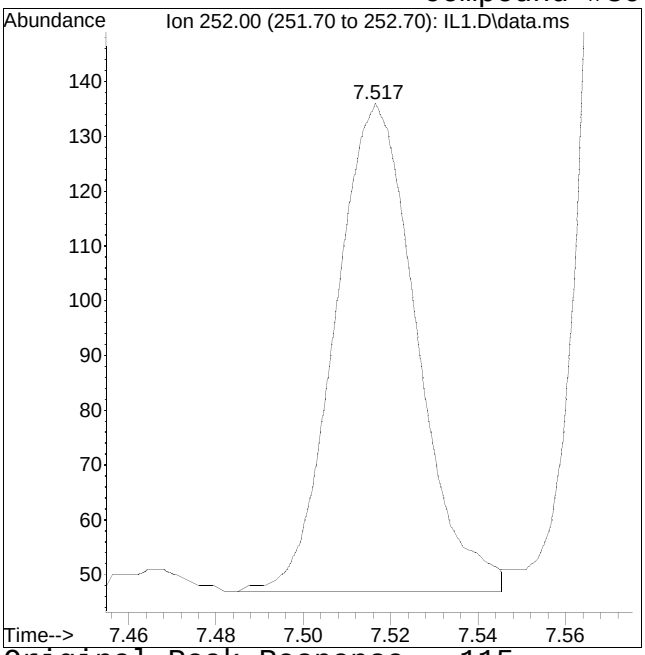
Manual Peak Response = 131 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

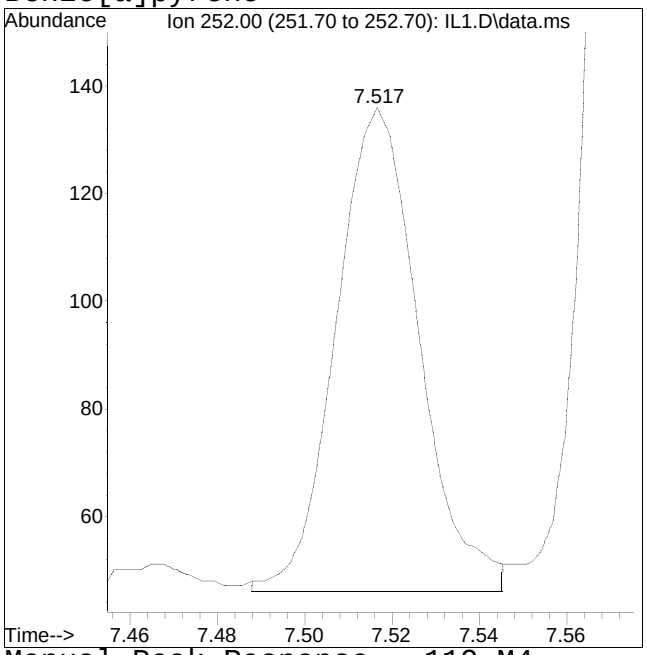
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 115



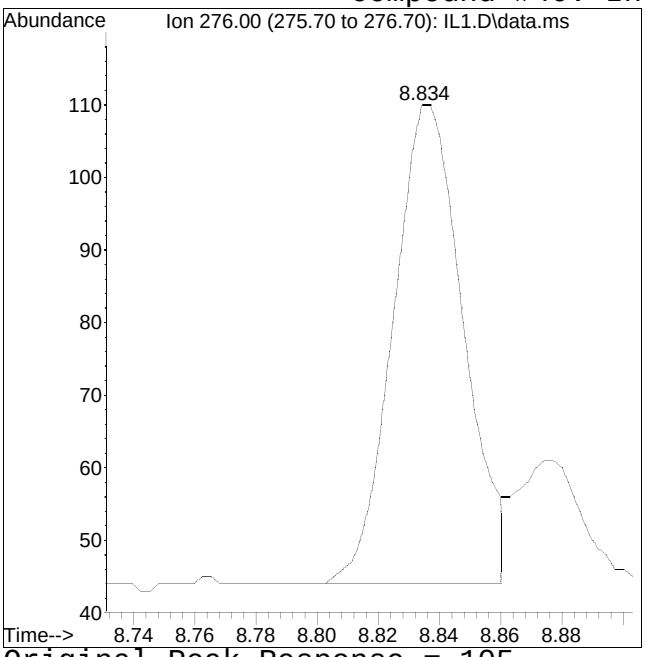
Manual Peak Response = 119 M4

M4 = Poor automated baseline construction.

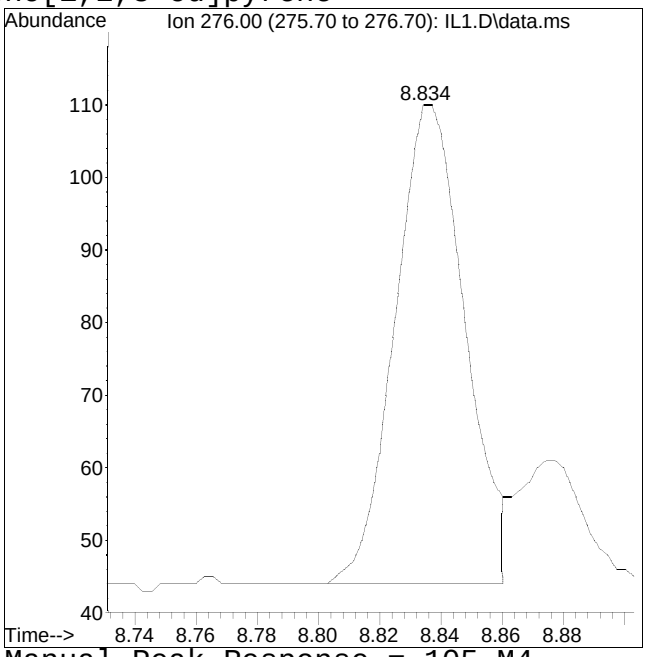
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 105



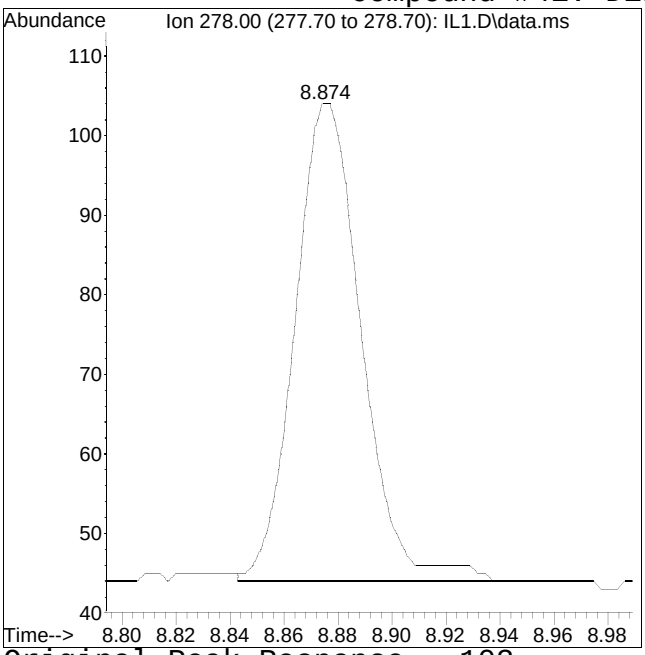
Manual Peak Response = 105 M4

M4 = Poor automated baseline construction.

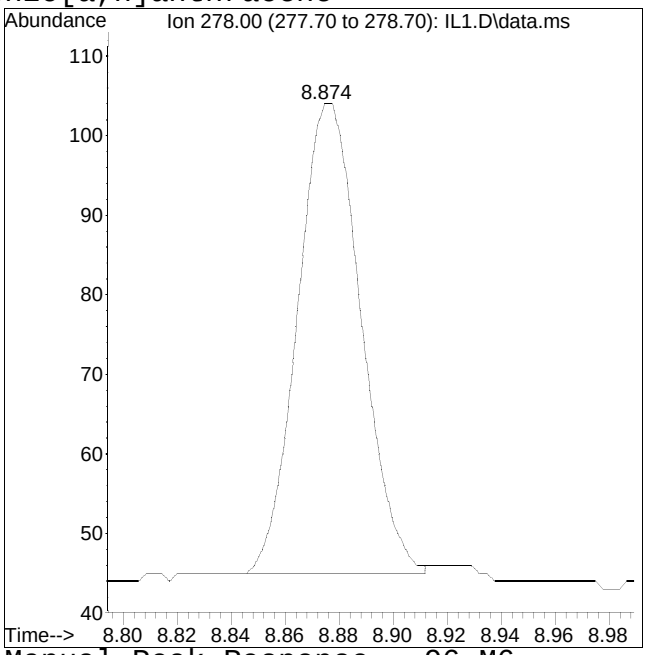
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 103



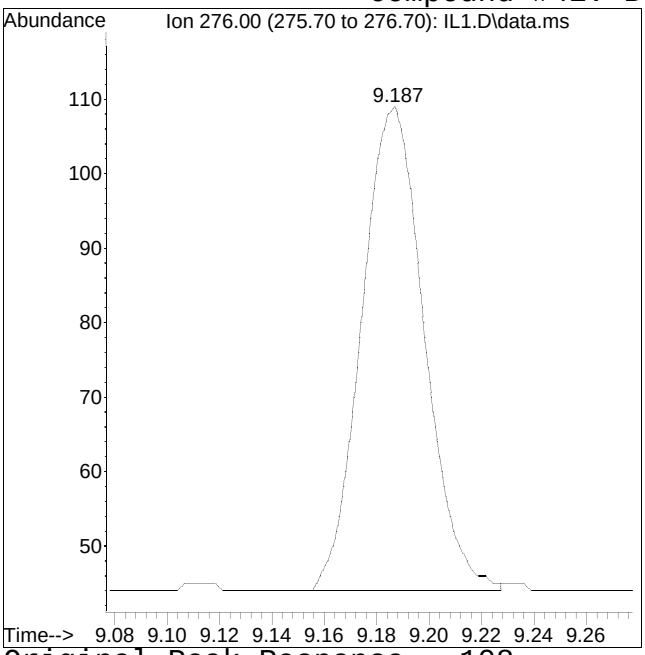
Manual Peak Response = 96 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

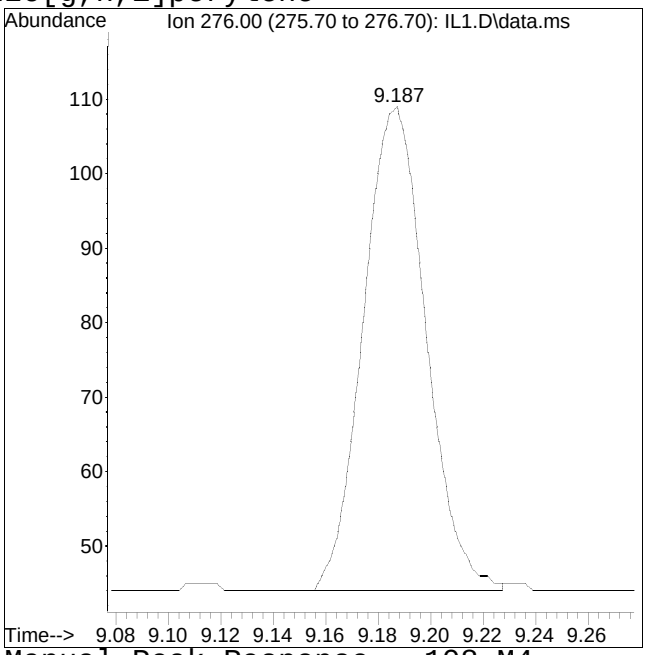
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 108



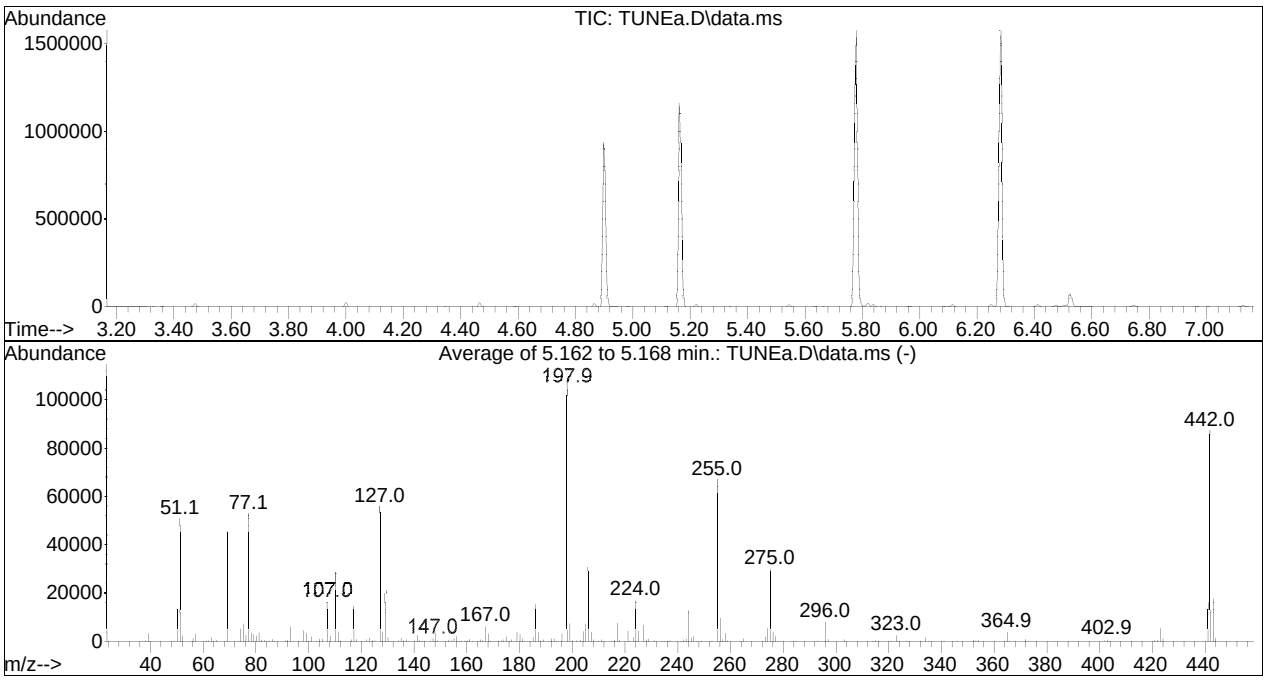
Manual Peak Response = 108 M4

M4 = Poor automated baseline construction.

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed May 29 13:17:11 2024



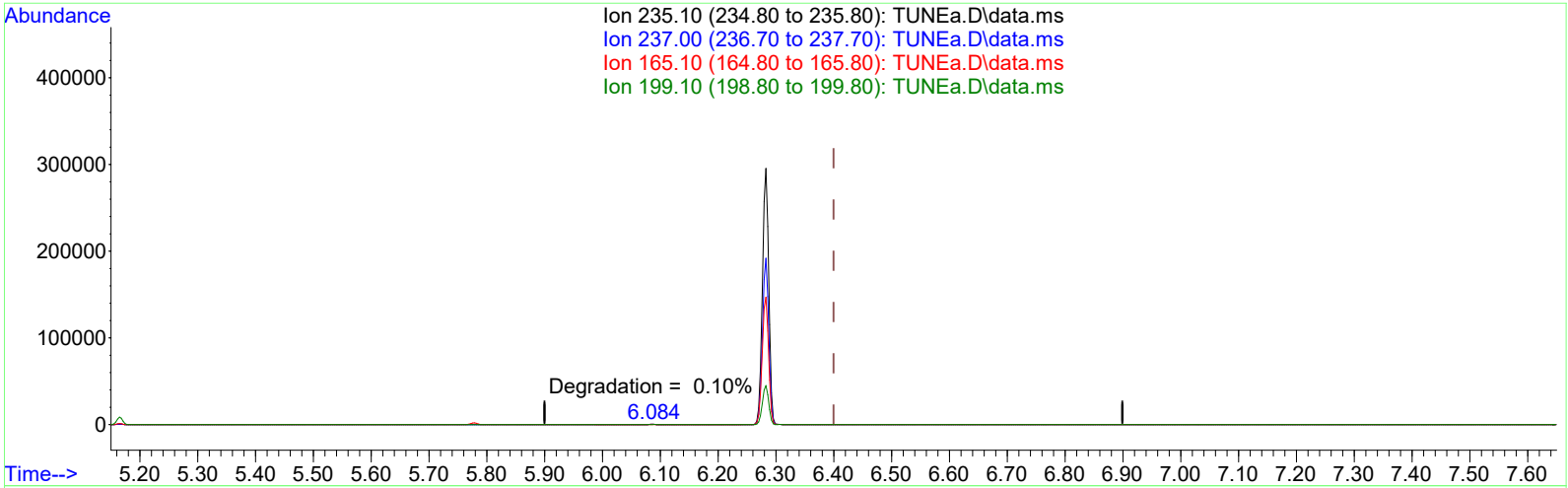
Spectrum Information: Average of 5.162 to 5.168 min.

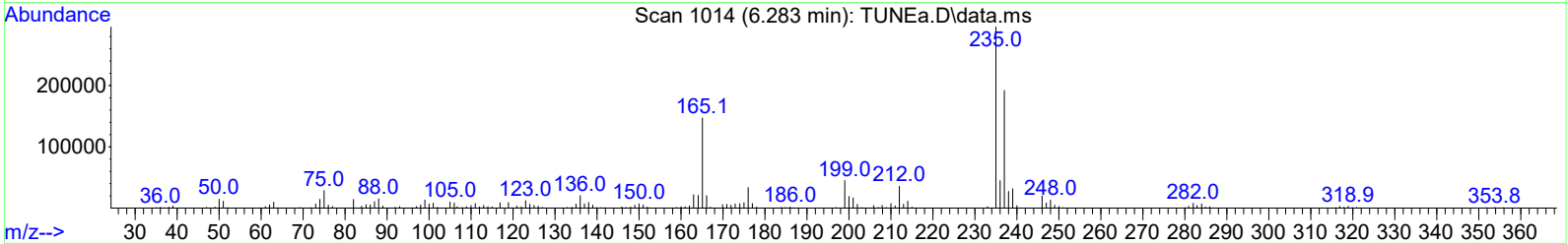
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.4	50643	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	45443	PASS
70	69	0.00	2	0.4	188	PASS
127	198	10	80	51.0	55709	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	109139	PASS
199	198	5	9	6.8	7464	PASS
275	198	10	60	27.5	30013	PASS
365	198	1	100	3.6	3976	PASS
441	442	0.01	24	18.1	15825	PASS
442	198	50	100	79.9	87235	PASS
443	442	15	24	20.4	17828	PASS

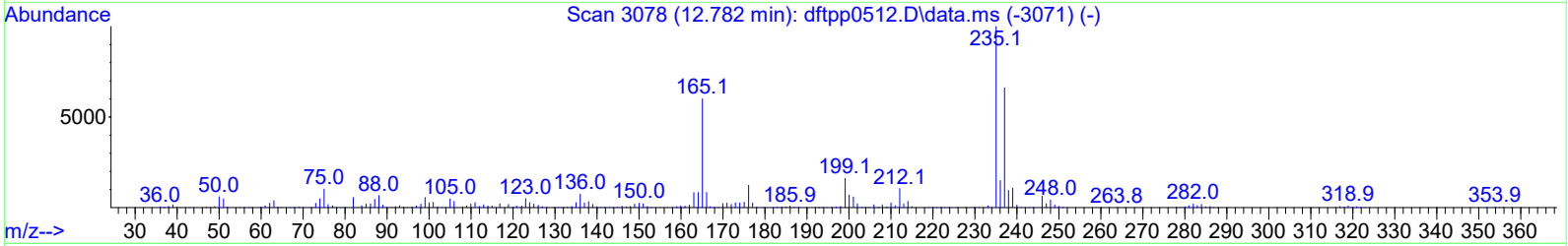
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(6) ddt (T)

6.283min (-0.117) 36.85

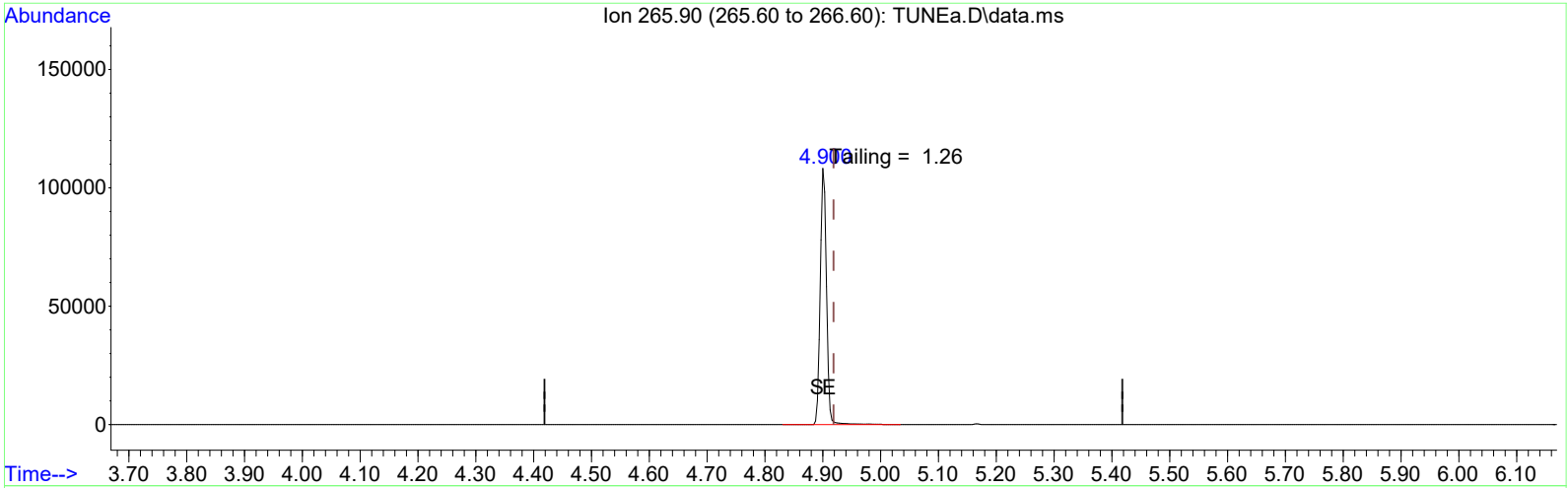
response 224634

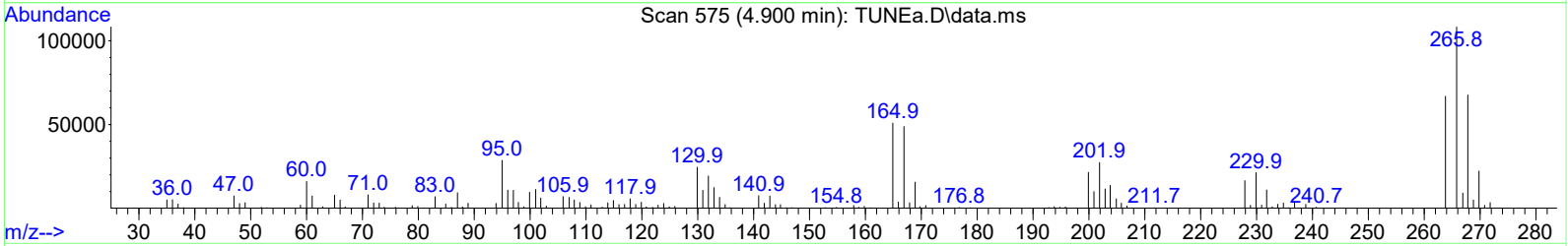
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.73
165.10	53.30	50.08
199.10	17.10	15.33

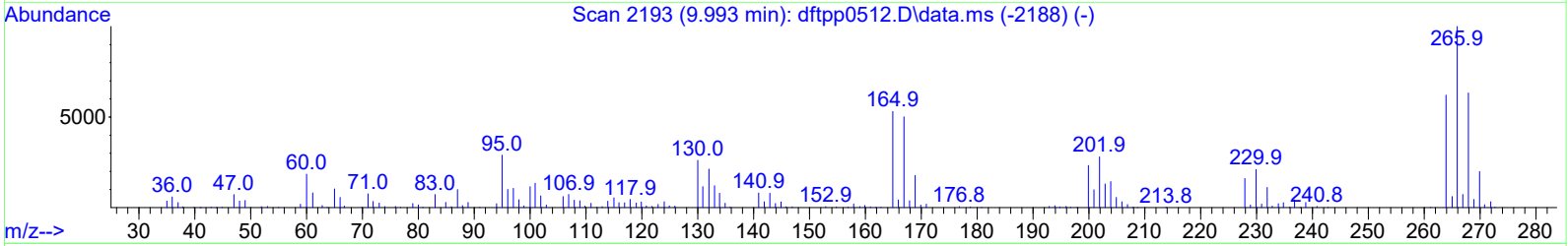
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(1) pentachlorophenol (T)

4.900min (-0.019) 38.60

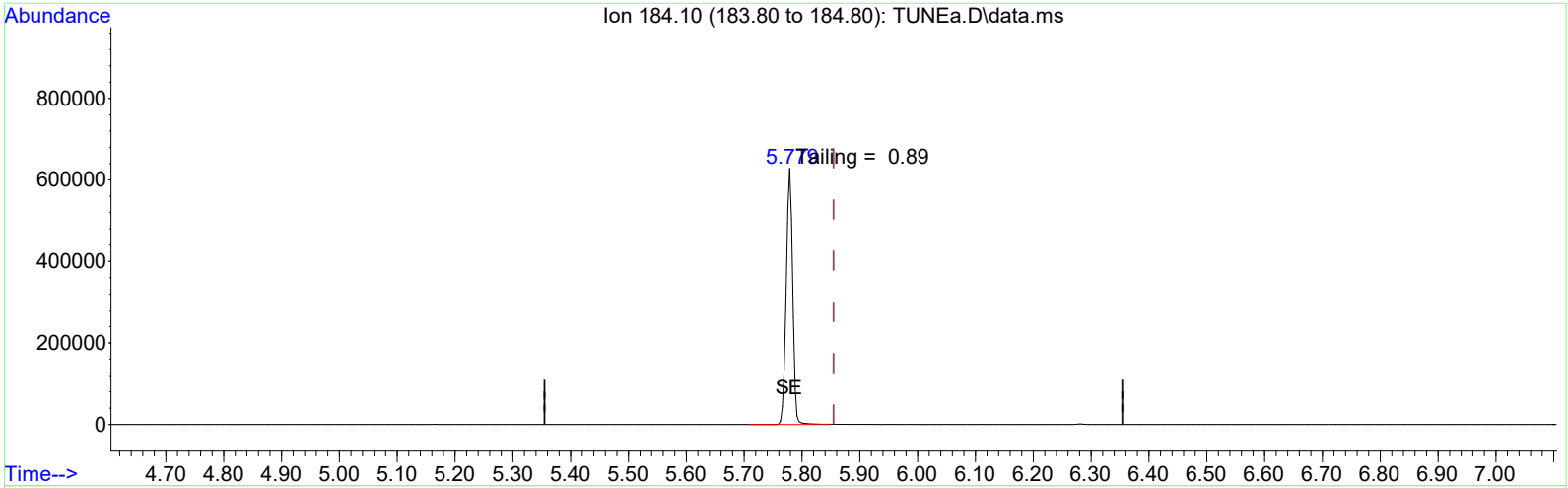
response 81073

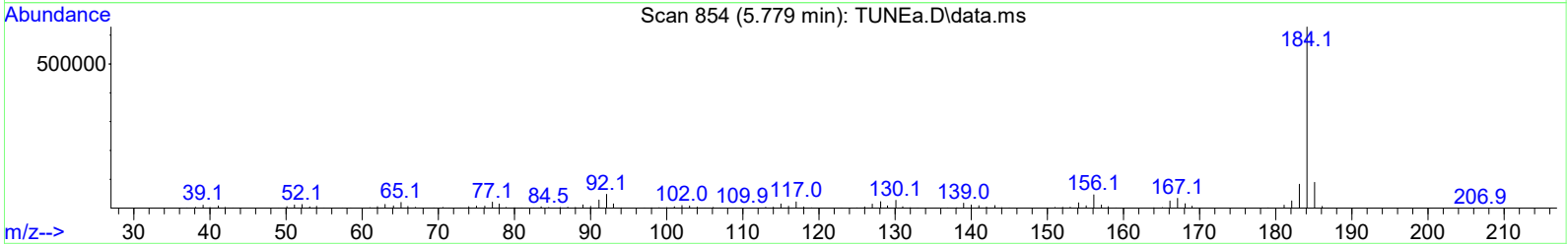
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

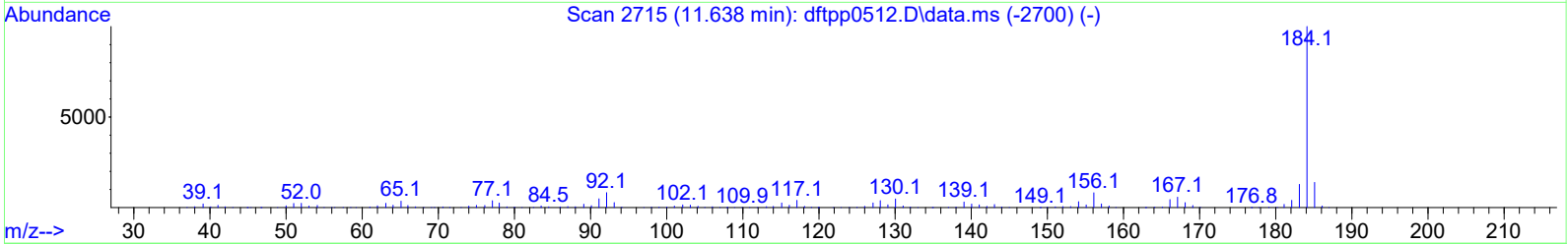
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(3) benzidine (T)

5.779min (-0.076) 48.01

response 488726

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	116118	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 64.24%			
8) Naphthalene-d8	2.949	136	441676	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 67.18%			
17) Acenaphthene-d10	3.932	164	249746	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 70.71%			
22) Phenanthrene-d10	4.773	188	519360	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 75.73%			
31) Chrysene-d12	6.339	240	437534	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 85.87%			
36) Perylene-d12	7.586	264	468674	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 95.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	167303	4847.732	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 242.39%#			
3) Phenol-d6	2.091	99	214369	5167.436	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 258.37%#			
7) Nitrobenzene-d5	2.561	82	197495	5343.274	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 534.33%#			
13) 2-Fluorobiphenyl	3.549	172	446198	4751.132	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 475.11%#			
21) 2,4,6-Tribromophenol	4.381	330	84158	4945.577	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 247.28%#			
30) 4-Terphenyl-d14	5.689	244	522792	4947.279	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 247.36%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	180003	4909.394	ng/ml	97
5) n-nitrosodi-n-propylamine	2.483	70	138328	5501.789	ng/ml	99
6) Hexachloroethane	2.540	117	80781	4862.504	ng/ml	100
9) Naphthalene	2.959	128	572864	4588.597	ng/ml	99
10) Hexachlorobutadiene	3.032	225	110497	4626.803	ng/ml	100
11) 2-Methylnaphthalene	3.343	142	383898	4928.642	ng/ml	99
12) 1-Methylnaphthalene	3.396	142	353973	4828.279	ng/ml	99
14) 2-Chloronaphthalene	3.615	162	390951	4910.820	ng/ml	100
15) 2,6-Dinitrotoluene	3.813	165	102306	5059.351	ng/ml	96
16) Acenaphthylene	3.852	152	630761	5383.619	ng/ml	100
18) Acenaphthene	3.949	153	402851	4701.214	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.041	165	140362	4961.046	ng/ml	97
20) Fluorene	4.242	166	450076	4872.611	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.274	198	81323	4960.275	ng/ml	98
24) Hexachlorobenzene	4.560	284	170883	4566.464	ng/ml	99
25) Pentachlorophenol	4.669	266	113223	5061.720	ng/ml	100
26) Phenanthrene	4.787	178	699442	4789.668	ng/ml	100
27) Anthracene	4.817	178	718996	4983.131	ng/ml	99
28) Fluoranthene	5.469	202	812328	5129.080	ng/ml	100
29) Pyrene	5.599	202	828081	5042.286	ng/ml	100
32) Benzo[a]anthracene	6.329	228	819561	4909.638	ng/ml	100
33) 3,3'-Dichlorobenzene	6.315	252	332556	5703.749	ng/ml	99
34) Chrysene	6.356	228	745399	4699.972	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.351	149	558598	5085.134	ng/ml	100
37) Benzo[b]fluoranthene	7.202	252	823633	5314.751	ng/ml	99
38) Benzo[k]fluoranthene	7.230	252	753851	5109.611	ng/ml	100
39) Benzo[a]pyrene	7.523	252	721027	5644.159	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.861	276	730050	6068.050	ng/ml	100
41) Dibenzo[a,h]anthracene	8.898	278	690601M6	5994.522	ng/ml	
42) Benzo[g,h,i]perylene	9.217	276	695924	5685.621	ng/ml	100

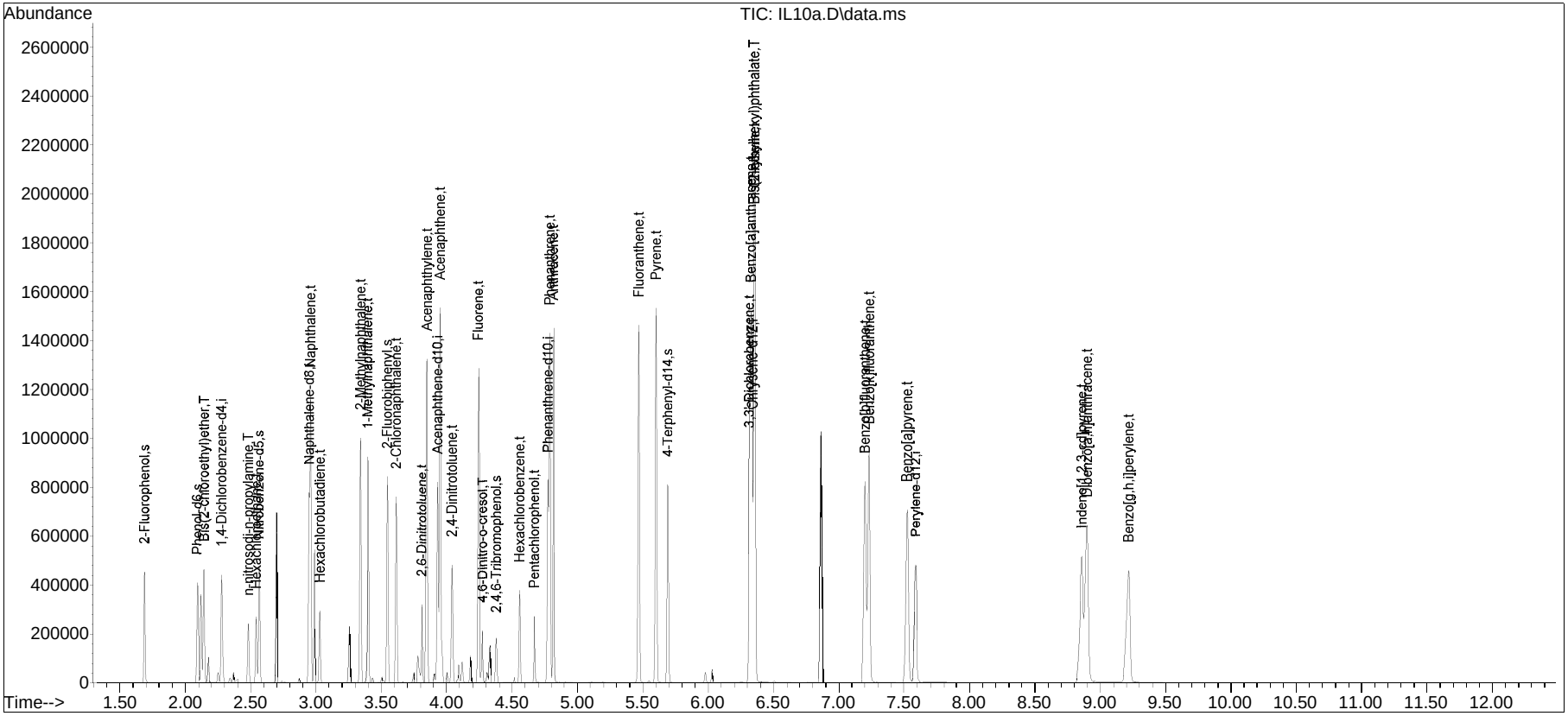
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

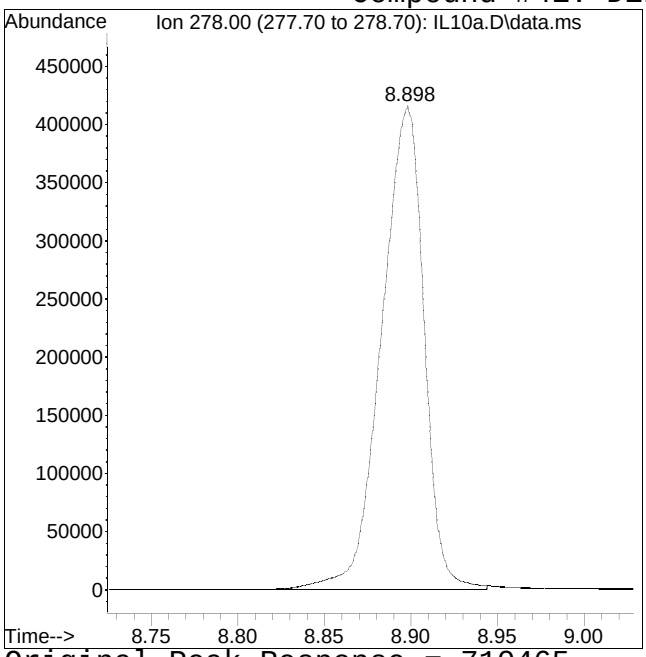
Sub List : Default - All compounds listedical\IL8.D•



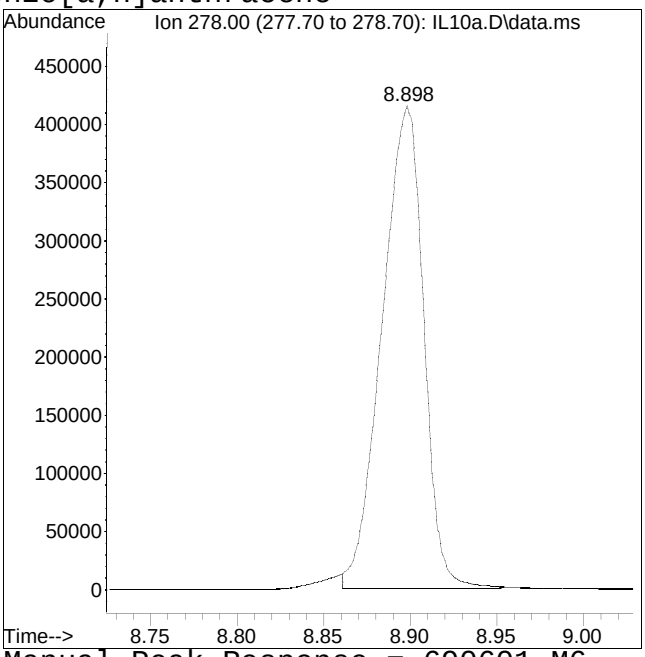
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL10a.D Operator : SV120:dv
Date Inj'd : 5/22/2024 1:32 pm Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 710465



Manual Peak Response = 690601 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
2	s	2-Fluorophenol	1.189	1.131	4.9	93	0.00
3	s	Phenol-d6	1.429	1.387	2.9	94	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.198	5.1	97	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.858	0.9	94	0.00
6	t	Hexachloroethane	0.572	0.546	4.5	96	0.00
7	s	Nitrobenzene-d5	1.273	1.266	0.5	96	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	104	0.00
9	t	Naphthalene	1.131	1.029	9.0	96	0.00
10	t	Hexachlorobutadiene	0.216	0.208	3.7	98	0.00
11	t	2-Methylnaphthalene	0.705	0.691	2.0	98	0.00
12	t	1-Methylnaphthalene	0.664	0.629	5.3	96	0.00
13	s	2-Fluorobiphenyl	0.851	0.802	5.8	97	0.00
14	t	2-Chloronaphthalene	0.721	0.677	6.1	95	0.00
15	t	2,6-Dinitrotoluene	*1000.000	869.450	13.1	94	0.00
16	t	Acenaphthylene	1.061	1.042	1.8	92	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	105	0.00
18	t	Acenaphthene	1.372	1.313	4.3	98	0.00
19	t	2,4-Dinitrotoluene	*1000.000	878.216	12.2	92	0.00
20	t	Fluorene	1.479	1.403	5.1	96	0.00
21	s	2,4,6-Tribromophenol	*1000.000	868.207	13.2	91	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	105	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	861.821	13.8	90	0.00
24	t	Hexachlorobenzene	0.288	0.266	7.6	94	0.00
25	t	Pentachlorophenol	*1000.000	837.798	16.2	90	0.00
26	t	Phenanthrene	1.125	1.071	4.8	94	0.00
27	t	Anthracene	1.111	1.077	3.1	96	0.00
28	t	Fluoranthene	1.220	1.147	6.0	95	0.00
29	t	Pyrene	1.265	1.200	5.1	95	0.00
30	s	4-Terphenyl-d14	0.814	0.759	6.8	99	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	107	-0.01
32	t	Benzo[a]anthracene	*1000.000	914.351	8.6	94	-0.01
33	t	3,3'-Dichlorobenzene	0.533	0.483	9.4	88	-0.01
34	t	Chrysene	1.450	1.352	6.8	97	-0.01
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	808.766	19.1	92	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	109	-0.01
37	t	Benzo[b]fluoranthene	1.323	1.271	3.9	93	-0.01
38	t	Benzo[k]fluoranthene	1.259	1.307	-3.8	102	-0.01
39	t	Benzo[a]pyrene	1.090	1.110	-1.8	97	-0.02
40	t	Indeno[1,2,3-cd]pyrene	1.027	0.994	3.2	98	-0.01
41	t	Dibenzo[a,h]anthracene	0.983	0.998	-1.5	97	-0.01
42	t	Benzo[g,h,i]perylene	1.045	0.988	5.5	97	-0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	187414	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 103.68%			
8) Naphthalene-d8	2.949	136	685146	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 104.21%			
17) Acenaphthene-d10	3.930	164	369600	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 104.64%			
22) Phenanthrene-d10	4.773	188	720697	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 105.09%			
31) Chrysene-d12	6.336	240	547718	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 107.49%			
36) Perylene-d12	7.586	264	538023	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 109.30%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.714	112	52974	951.032	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.55%			
3) Phenol-d6	2.094	99	64987	970.593	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.53%			
7) Nitrobenzene-d5	2.561	82	59316	994.307	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.43%			
13) 2-Fluorobiphenyl	3.548	172	137296	942.428	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.24%			
21) 2,4,6-Tribromophenol	4.374	330	21775	868.207	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.41%			
30) 4-Terphenyl-d14	5.689	244	136699	932.220	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.61%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.147	93	56124	948.406	ng/ml	99
5) n-nitrosodi-n-propylamine	2.480	70	40192	990.446	ng/ml	100
6) Hexachloroethane	2.540	117	25597	954.635	ng/ml	99
9) Naphthalene	2.959	128	176241	910.031	ng/ml	100
10) Hexachlorobutadiene	3.032	225	35567	960.060	ng/ml	100
11) 2-Methylnaphthalene	3.339	142	118274	978.862	ng/ml	100
12) 1-Methylnaphthalene	3.396	142	107689	946.922	ng/ml	100
14) 2-Chloronaphthalene	3.612	162	115951	938.916	ng/ml	99
15) 2,6-Dinitrotoluene	3.808	165	26765	869.450	ng/ml	97
16) Acenaphthylene	3.846	152	178421	981.694	ng/ml	100
18) Acenaphthene	3.946	153	121317	956.652	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.035	165	36068	878.216	ng/ml	99
20) Fluorene	4.238	166	129609	948.151	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.267	198	18145	861.821	ng/ml	99
24) Hexachlorobenzene	4.557	284	47965	923.680	ng/ml	100
25) Pentachlorophenol	4.666	266	24833	837.798	ng/ml	100
26) Phenanthrene	4.786	178	192933	952.086	ng/ml	100
27) Anthracene	4.814	178	194011	968.987	ng/ml	100
28) Fluoranthene	5.466	202	206733	940.662	ng/ml	100
29) Pyrene	5.596	202	216295	949.111	ng/ml	100
32) Benzo[a]anthracene	6.326	228	192324	914.351	ng/ml	100
33) 3,3'-Dichlorobenzene	6.312	252	66162	906.482	ng/ml	99
34) Chrysene	6.353	228	185135	932.502	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.353	149	107790	808.766	ng/ml	100
37) Benzo[b]fluoranthene	7.196	252	170922	960.765	ng/ml	100
38) Benzo[k]fluoranthene	7.222	252	175807	1038.027	ng/ml	100
39) Benzo[a]pyrene	7.514	252	149283	1017.954	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.841	276	133663	967.783	ng/ml	97
41) Dibenzo[a,h]anthracene	8.878	278	134229M6	1014.948	ng/ml	
42) Benzo[g,h,i]perylene	9.191	276	132877	945.662	ng/ml	99

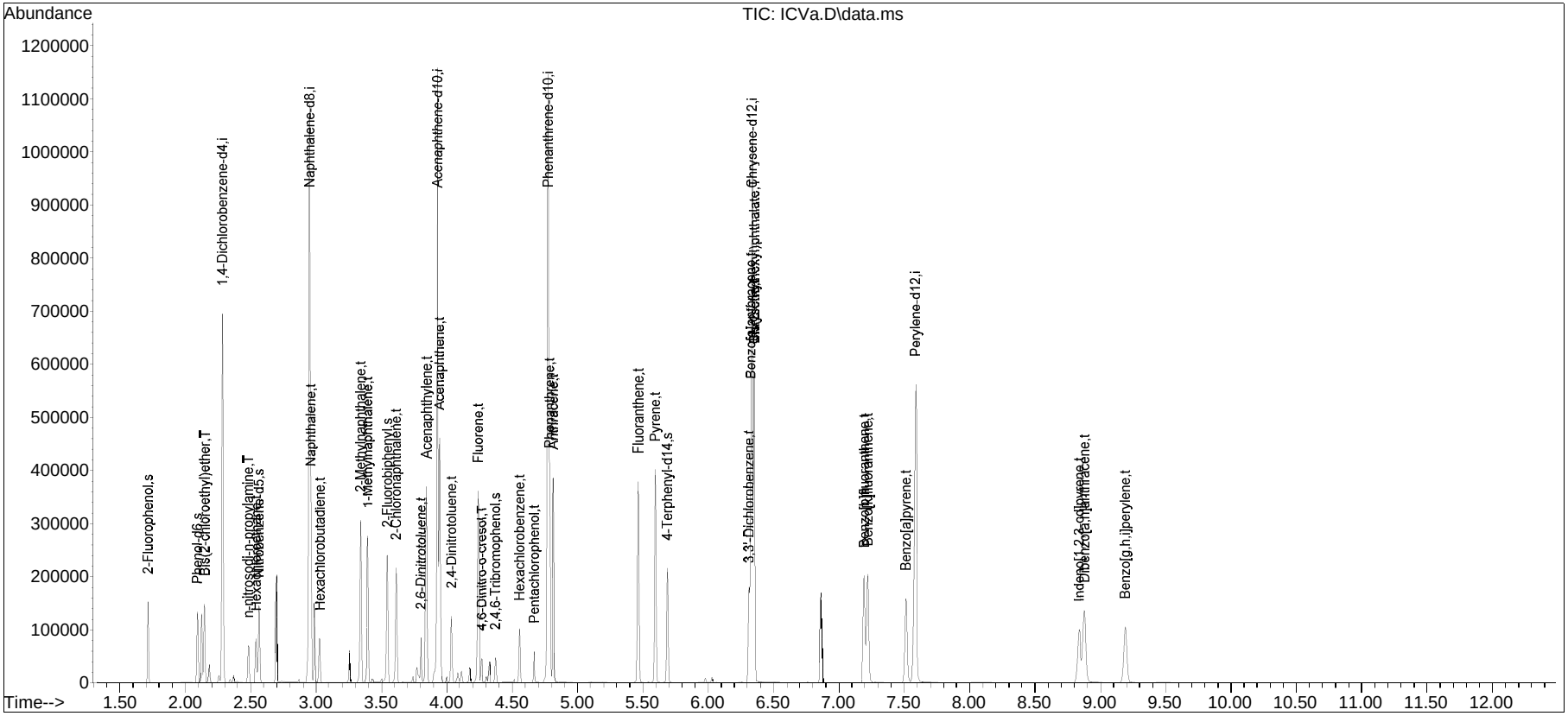
(#) = qualifier out of range (m) = manual integration (+) = signals summed

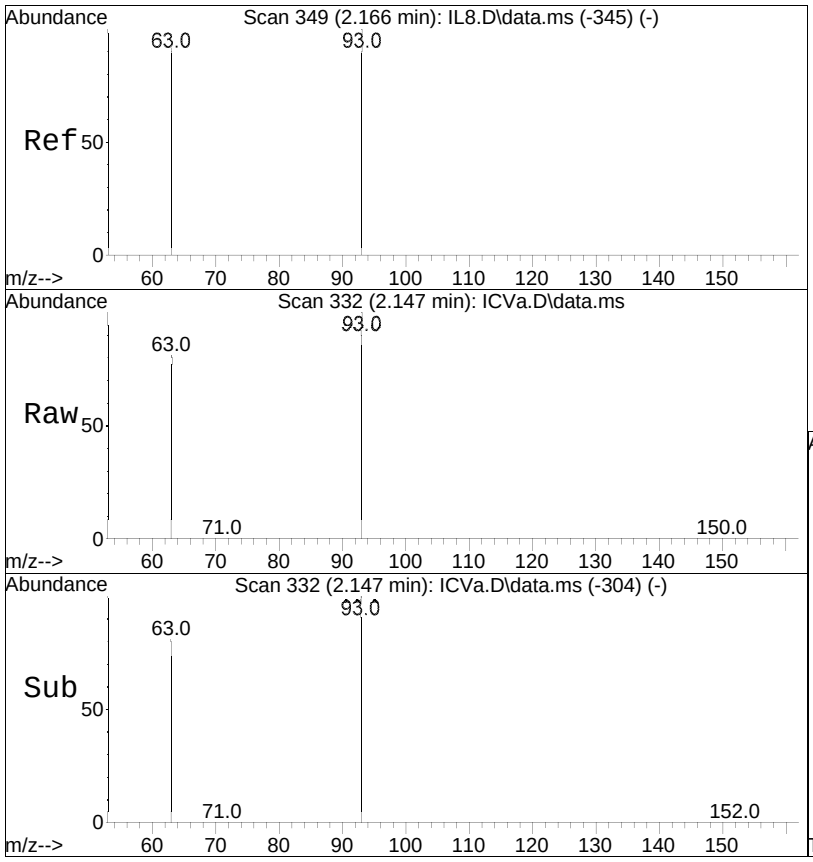
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

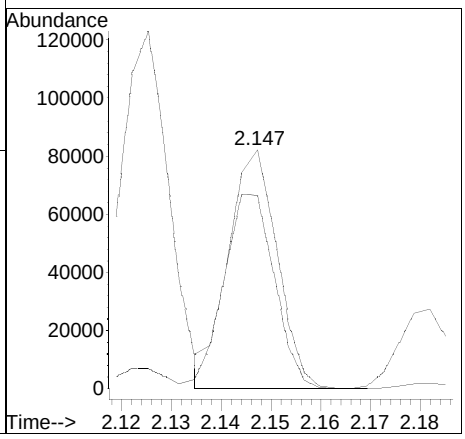


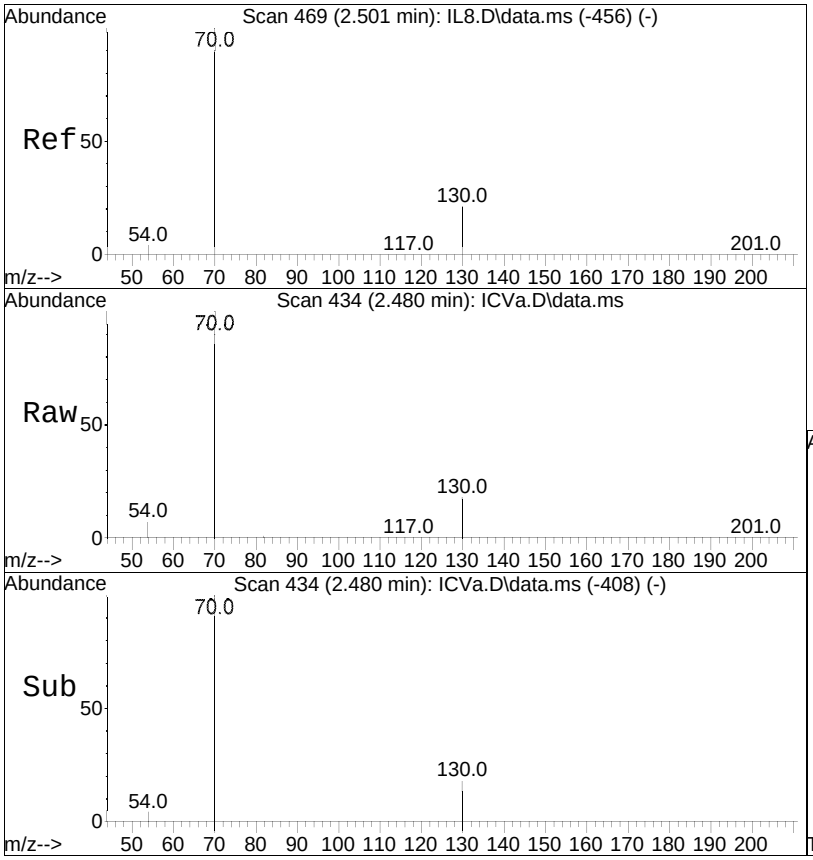


#4
Bis(2-chloroethyl)ether
Concen: 948.41 ng/ml
RT: 2.147 min Scan# 332
Delta R.T. 0.009 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion: 93 Resp: 56124

Ion	Ratio	Lower	Upper
93	100		
63	84.4	68.6	102.8

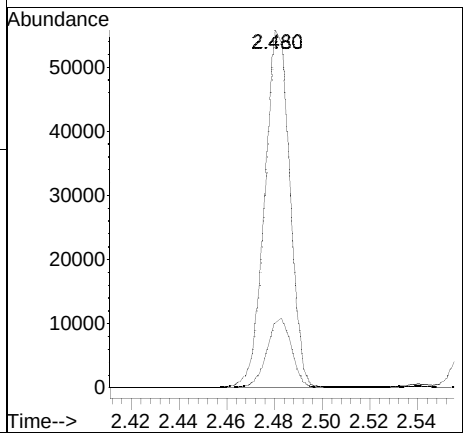


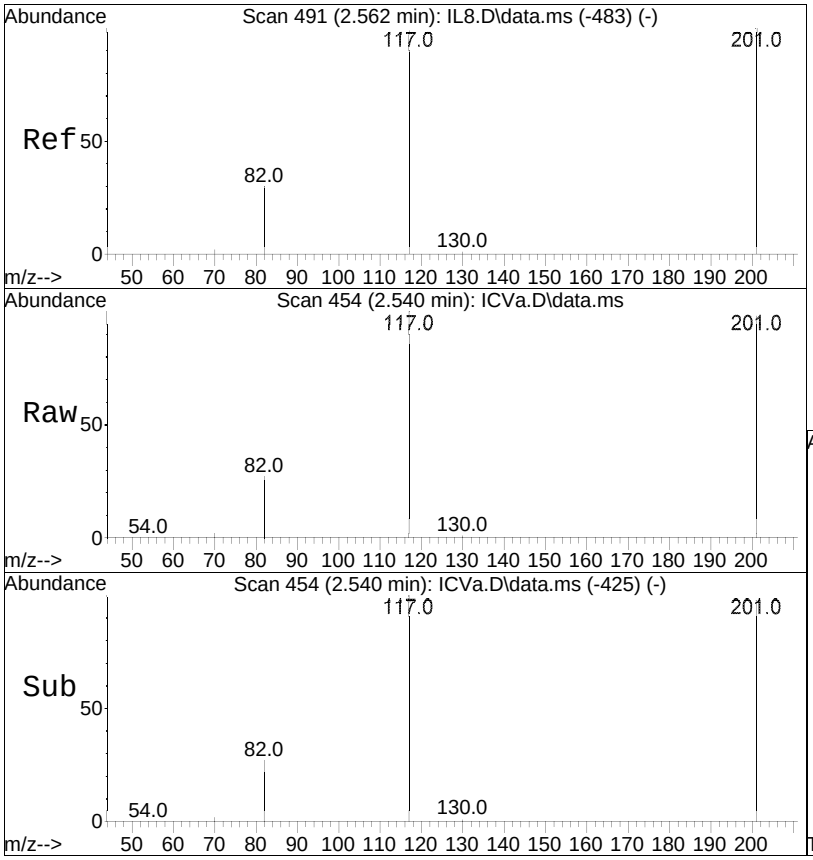


#5
n-nitrosodi-n-propylamine
Concen: 990.45 ng/ml
RT: 2.480 min Scan# 434
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion: 70 Resp: 40192

Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.1	22.7

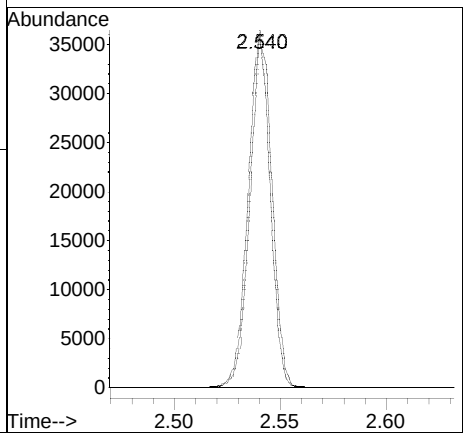


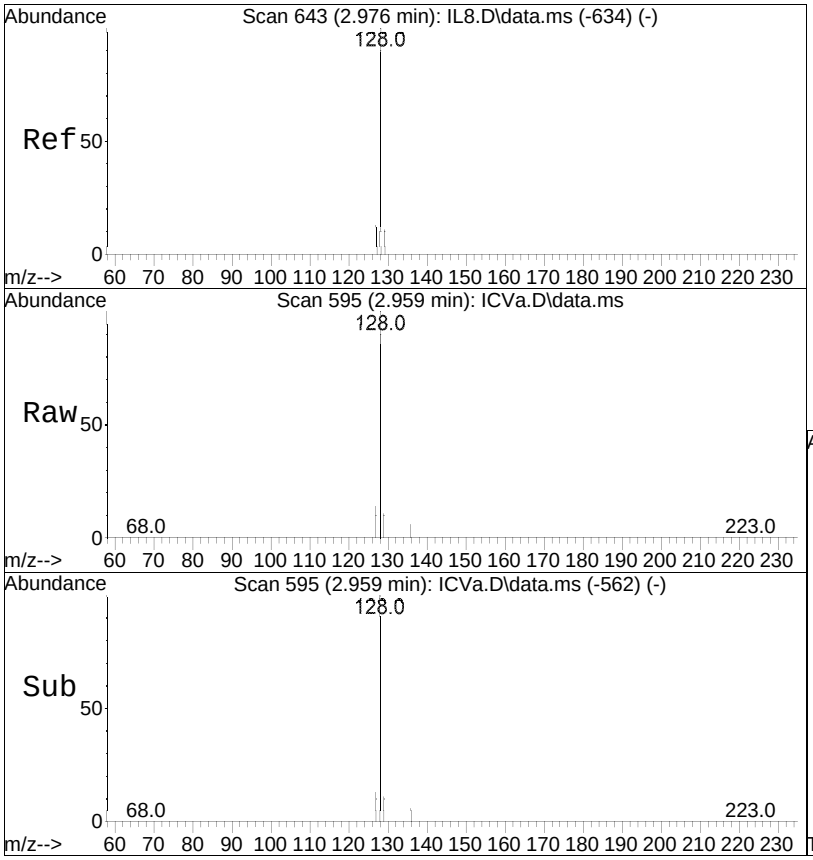


#6
Hexachloroethane
Concen: 954.64 ng/ml
RT: 2.540 min Scan# 454
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:117 Resp: 25597

Ion	Ratio	Lower	Upper
117	100		
201	99.9	79.4	119.2

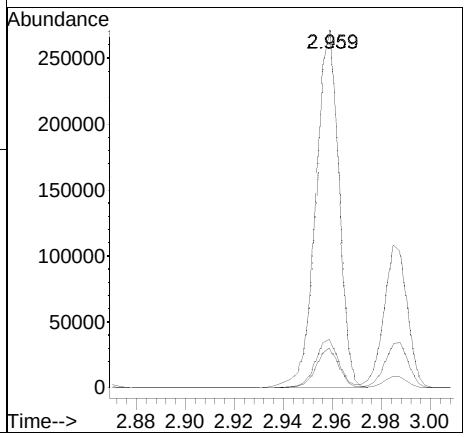


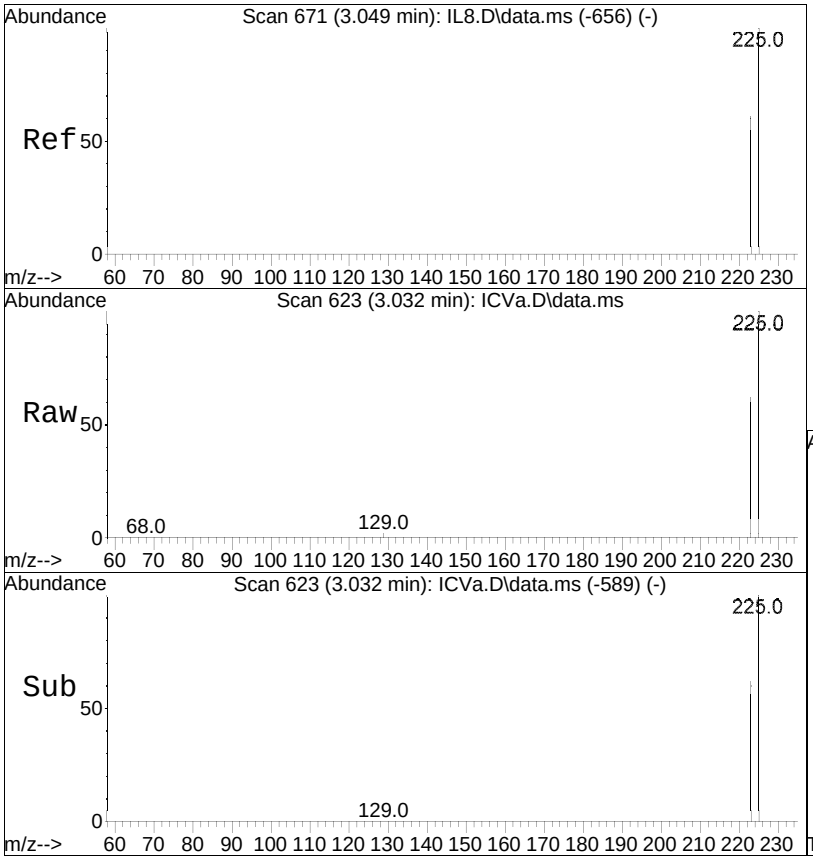


#9
Naphthalene
Concen: 910.03 ng/ml
RT: 2.959 min Scan# 595
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:128 Resp: 176241

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	14.0	11.3	16.9

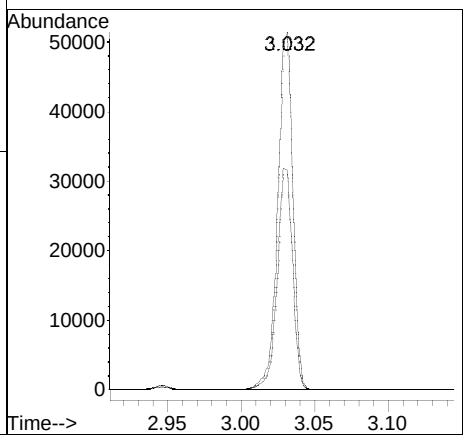


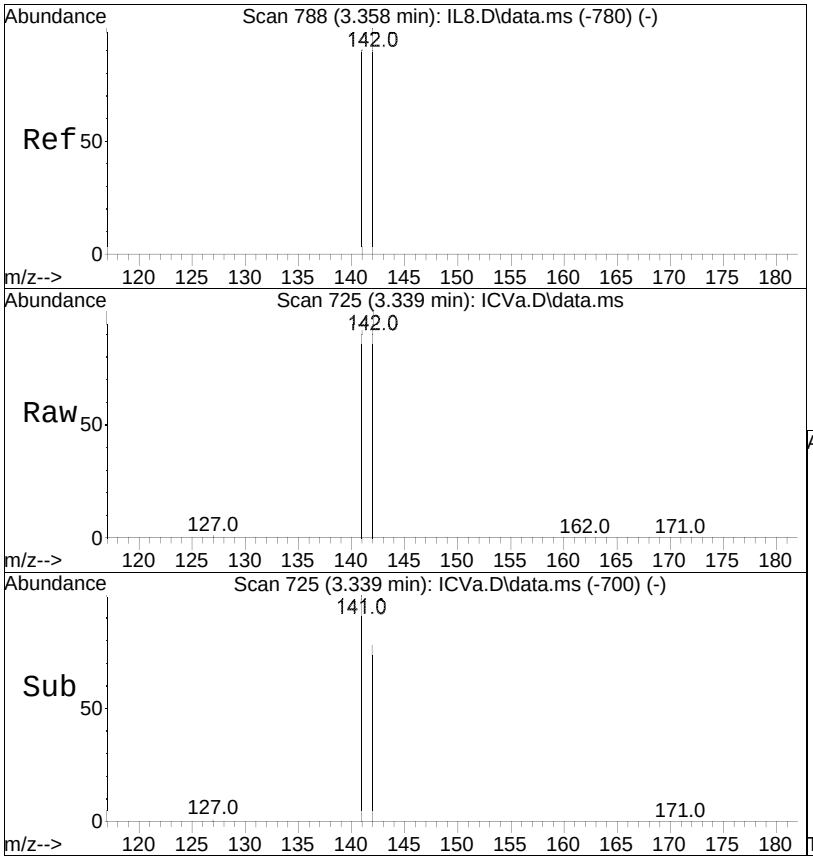


#10
Hexachlorobutadiene
Concen: 960.06 ng/ml
RT: 3.032 min Scan# 623
Delta R.T. 0.008 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:225 Resp: 35567

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.1	75.1

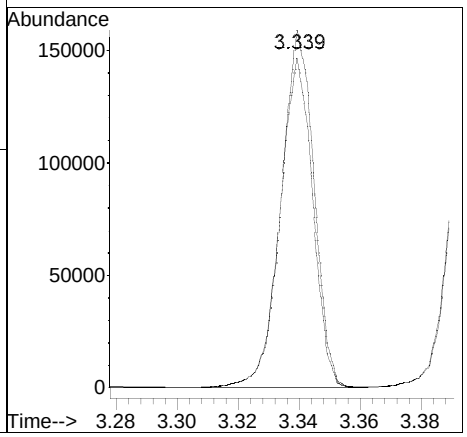


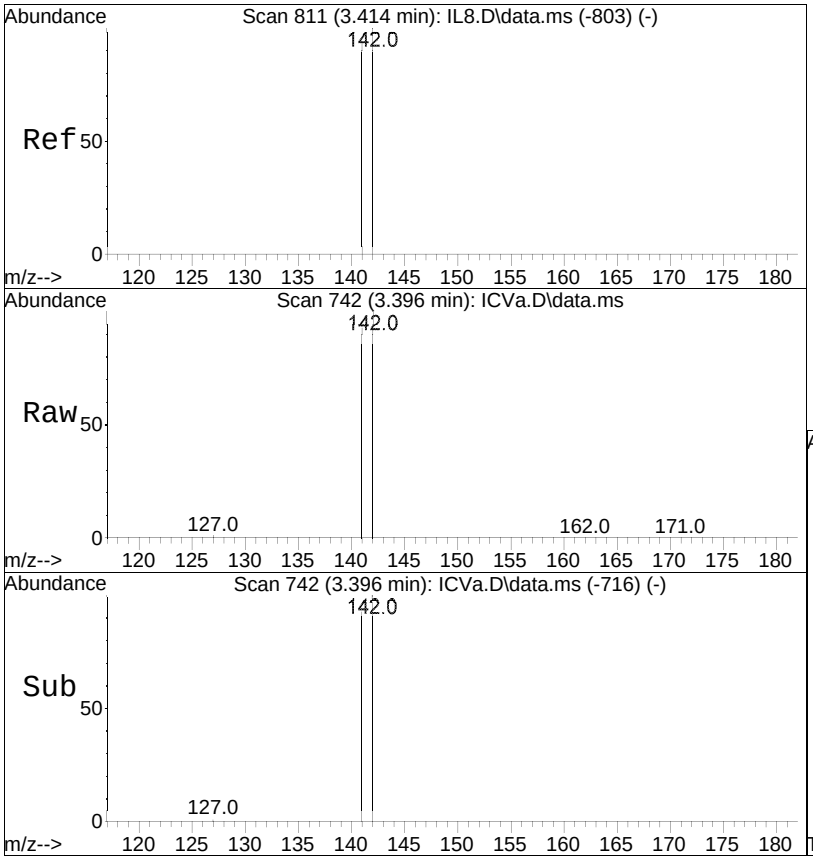


#11
2-Methylnaphthalene
Concen: 978.86 ng/ml
RT: 3.339 min Scan# 725
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:142 Resp: 118274

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.8	110.6

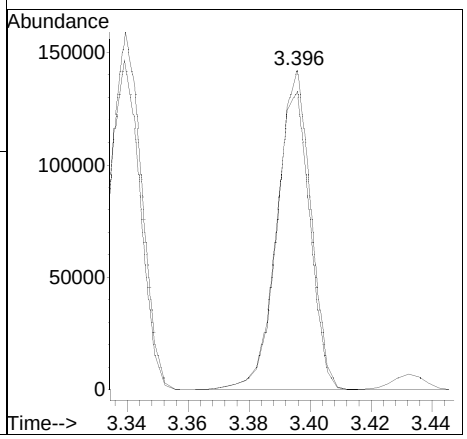


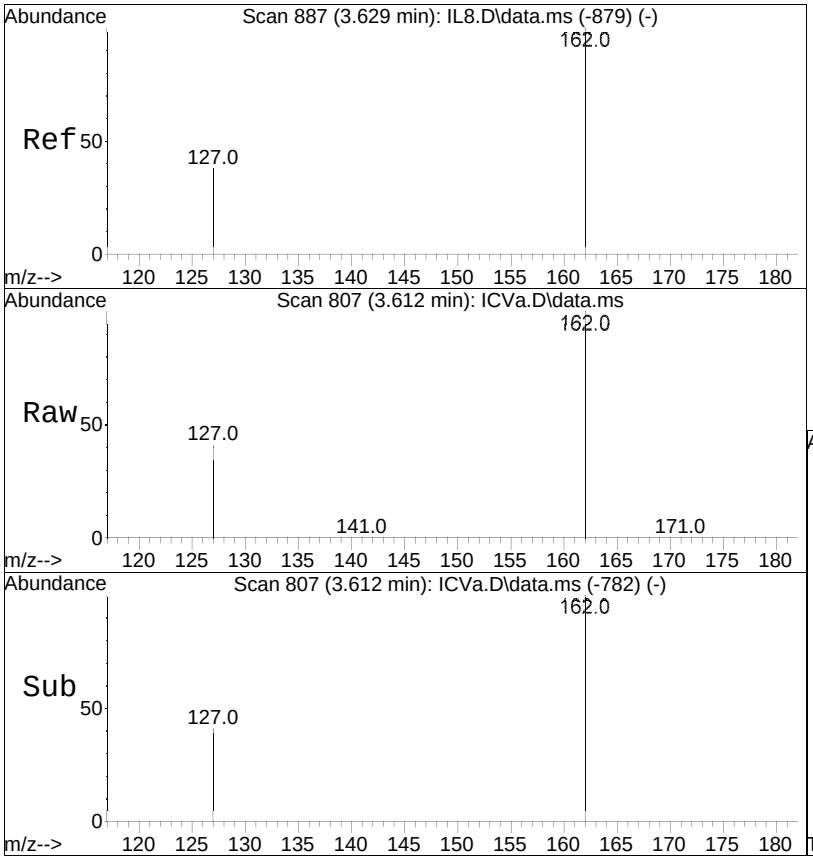


#12
1-Methylnaphthalene
Concen: 946.92 ng/ml
RT: 3.396 min Scan# 742
Delta R.T. 0.007 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:142 Resp: 107689

Ion	Ratio	Lower	Upper
142	100		
141	95.1	76.3	114.5

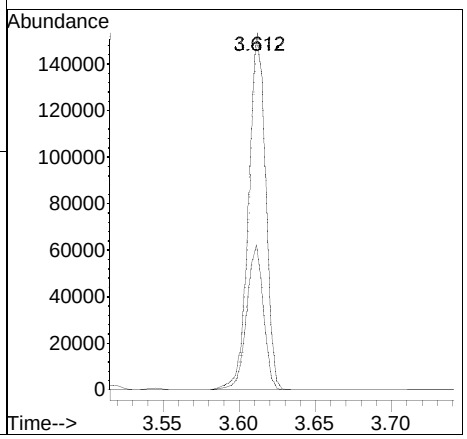


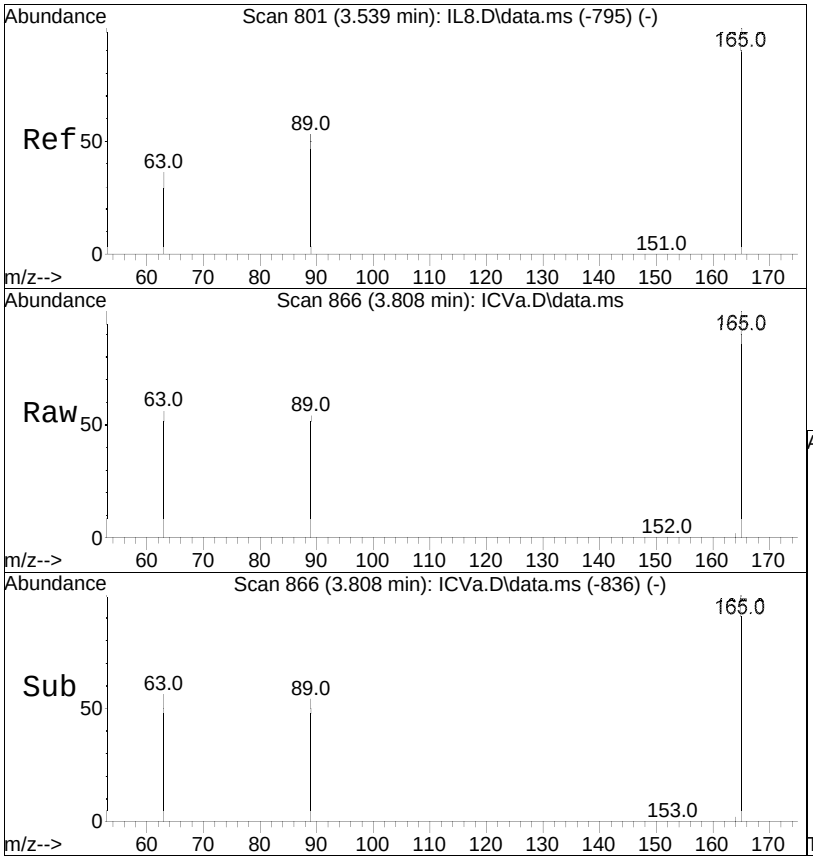


#14
2-Chloronaphthalene
Concen: 938.92 ng/ml
RT: 3.612 min Scan# 807
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:162 Resp: 115951

Ion	Ratio	Lower	Upper
162	100		
127	40.4	32.0	48.0

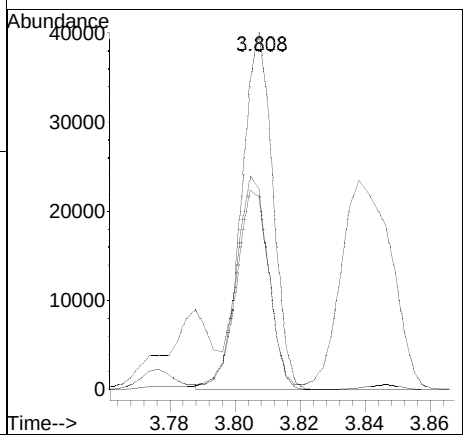


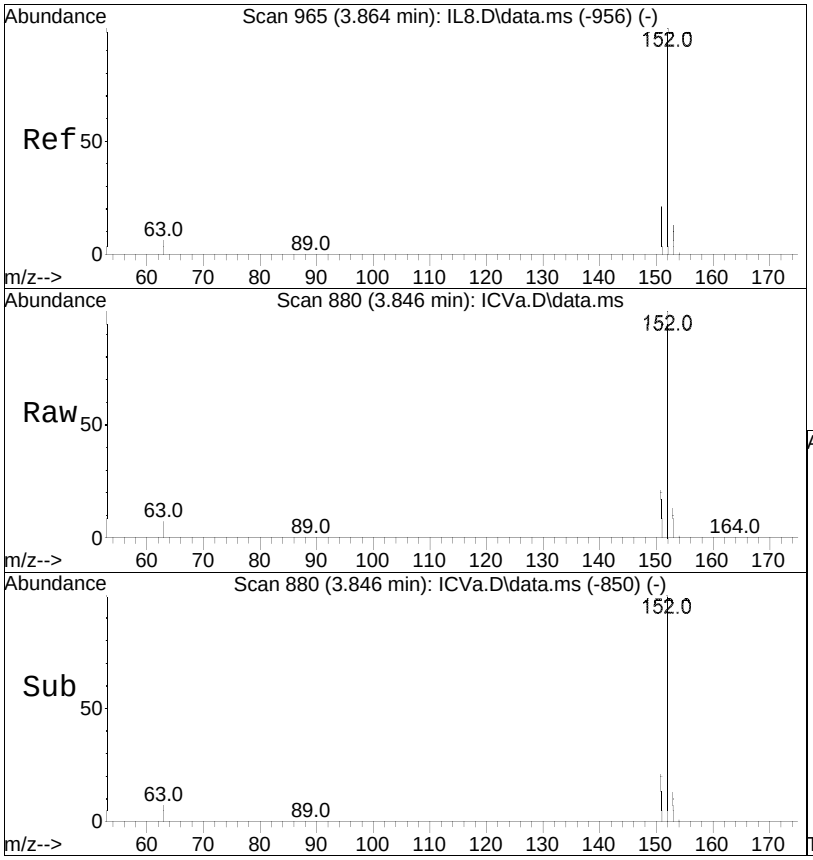


#15
2,6-Dinitrotoluene
Concen: 869.45 ng/ml
RT: 3.808 min Scan# 866
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:165 Resp: 26765

Ion	Ratio	Lower	Upper
165	100		
89	58.4	48.0	72.0
63	57.9	48.2	72.2

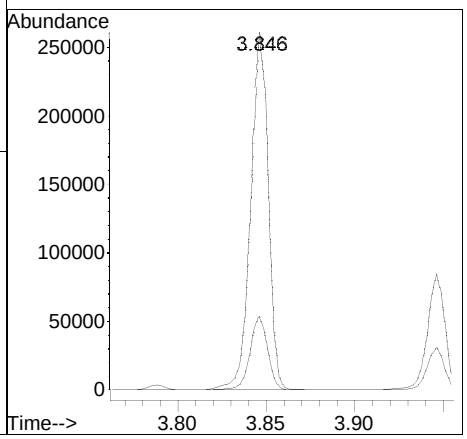


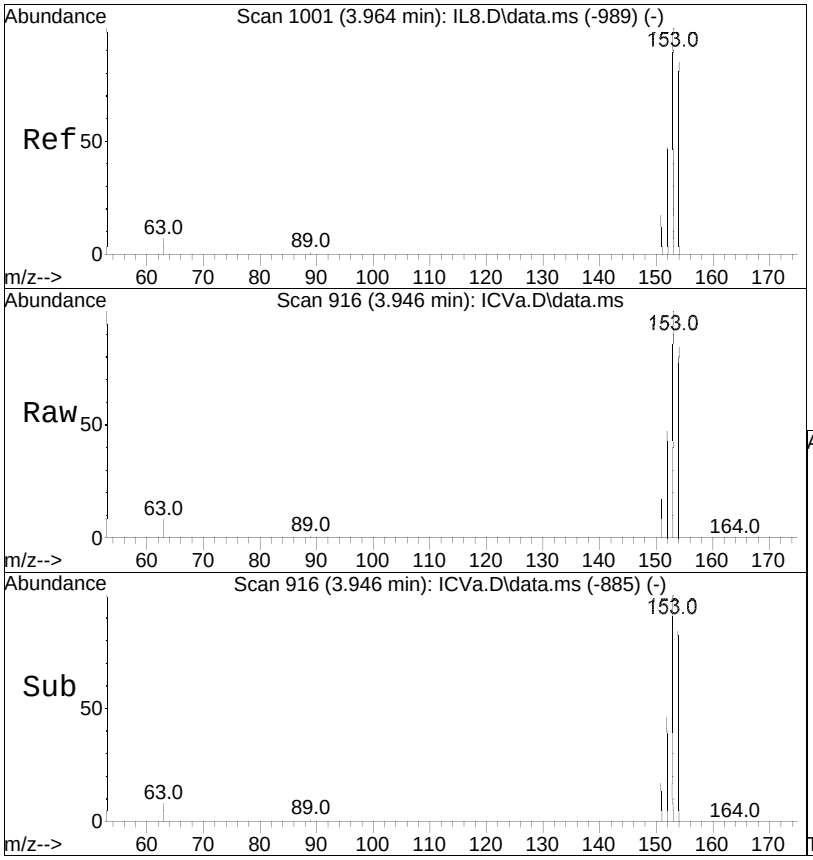


#16
Acenaphthylene
Concen: 981.69 ng/ml
RT: 3.846 min Scan# 880
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:152 Resp: 178421

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.5	24.7

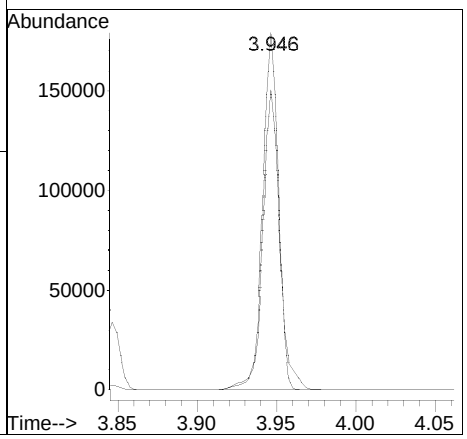


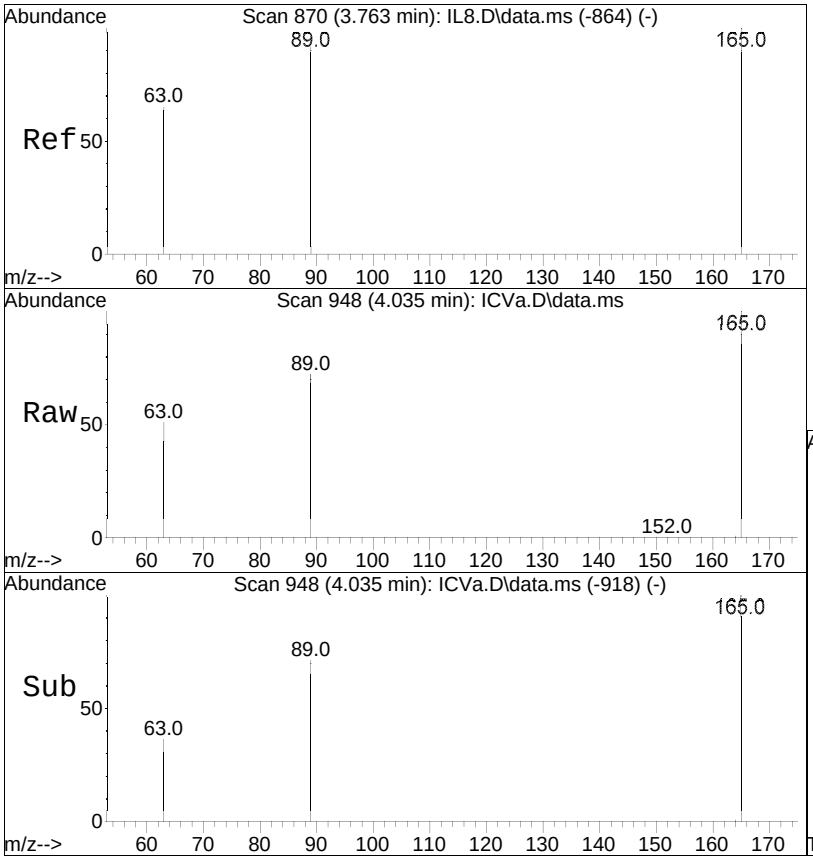


#18
Acenaphthene
Concen: 956.65 ng/ml
RT: 3.946 min Scan# 916
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:153 Resp: 121317

Ion	Ratio	Lower	Upper
153	100		
154	90.5	73.4	110.2

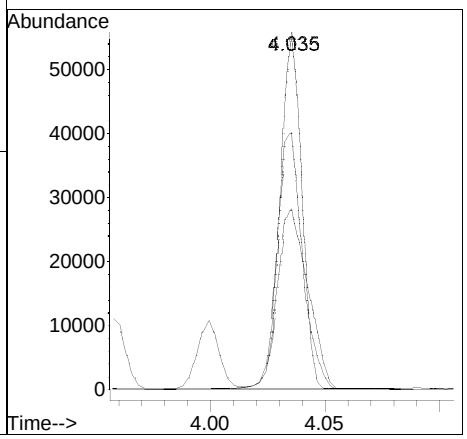


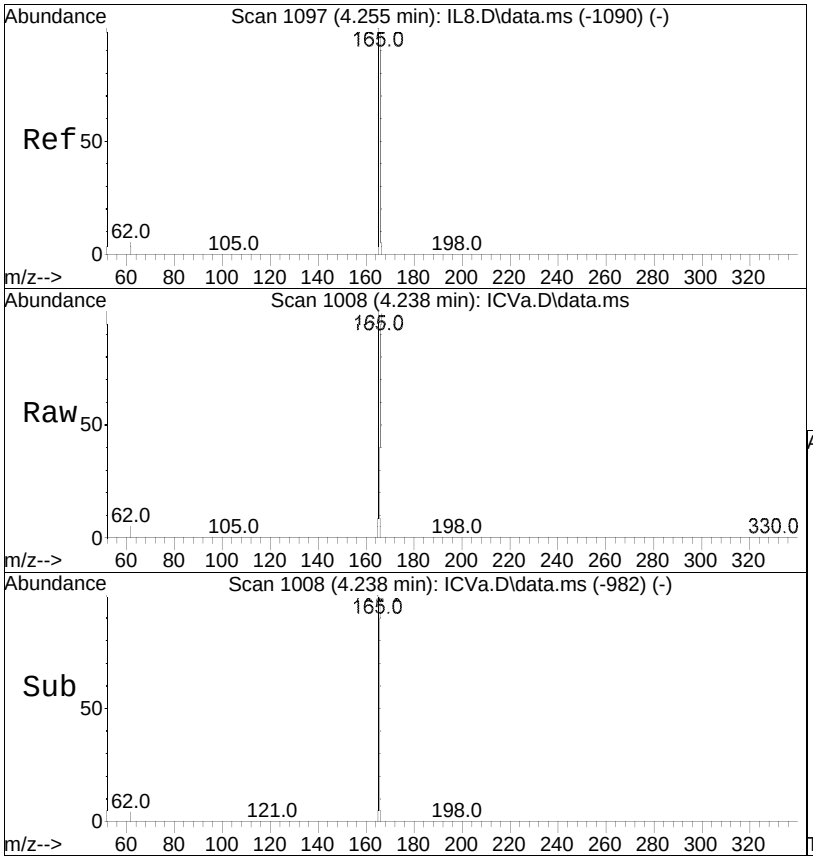


#19
2,4-Dinitrotoluene
Concen: 878.22 ng/ml
RT: 4.035 min Scan# 948
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:165 Resp: 36068

Ion	Ratio	Lower	Upper
165	100		
89	101.7	82.0	123.0
63	90.8	73.0	109.6

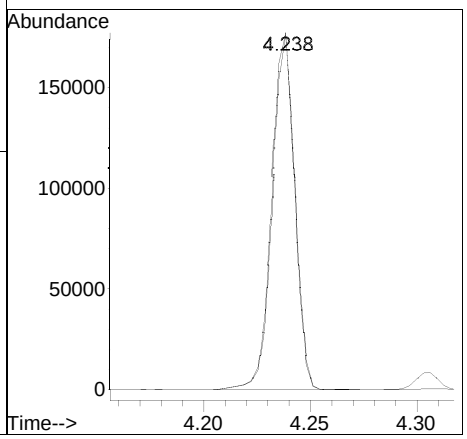


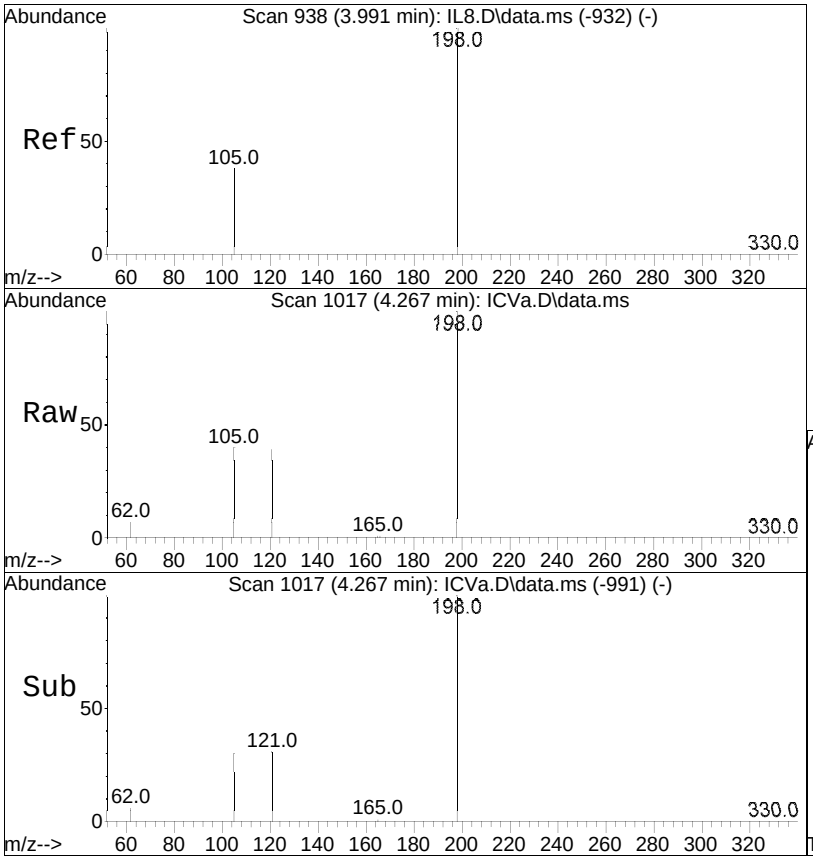


#20
Fluorene
Concen: 948.15 ng/ml
RT: 4.238 min Scan# 1008
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:166 Resp: 129609

Ion	Ratio	Lower	Upper
166	100		
165	101.8	81.9	122.9

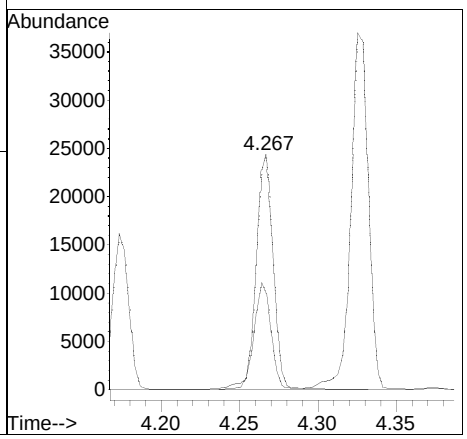


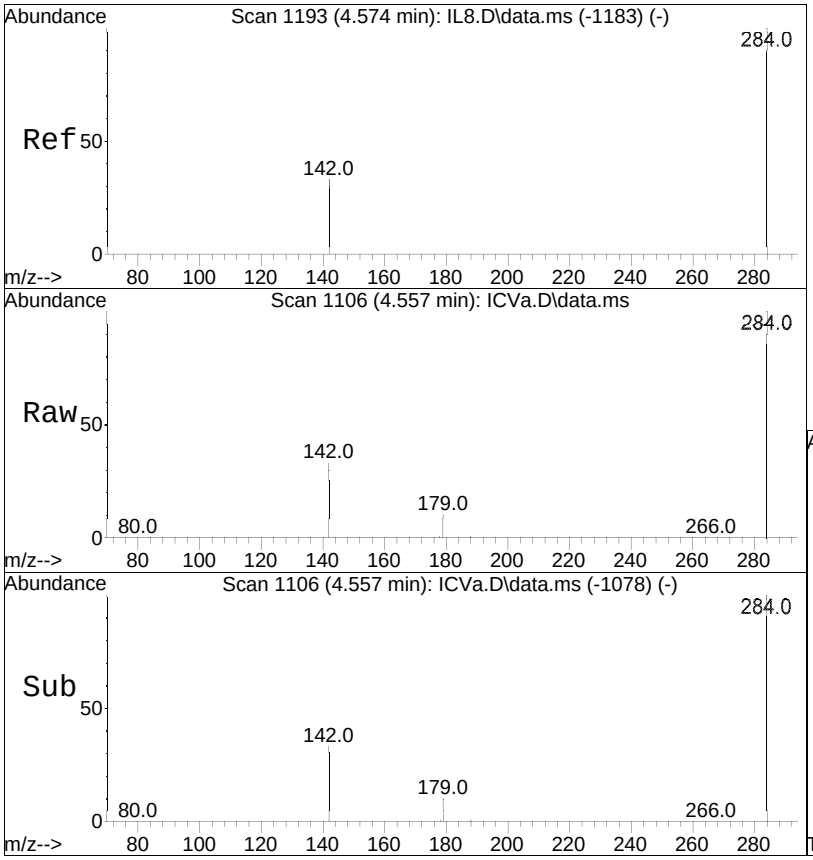


#23
4,6-Dinitro-o-cresol
Concen: 861.82 ng/ml
RT: 4.267 min Scan# 1017
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:198 Resp: 18145

Ion	Ratio	Lower	Upper
198	100		
105	46.9	37.8	56.8

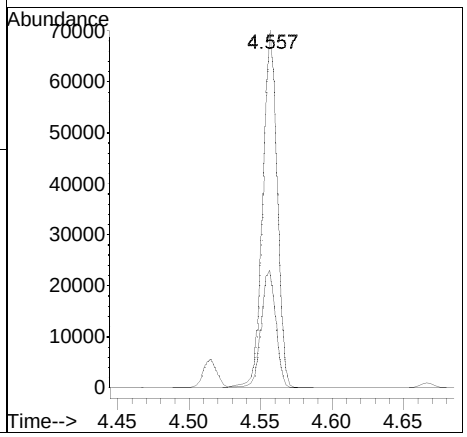


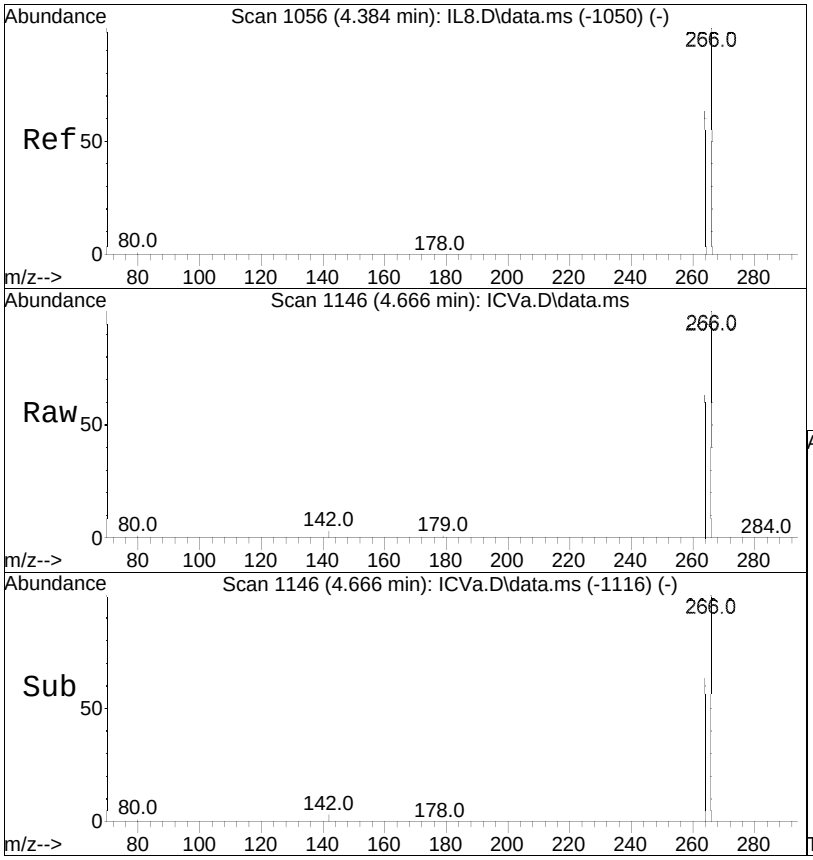


#24
Hexachlorobenzene
Concen: 923.68 ng/ml
RT: 4.557 min Scan# 1106
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:284 Resp: 47965

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.8	40.2

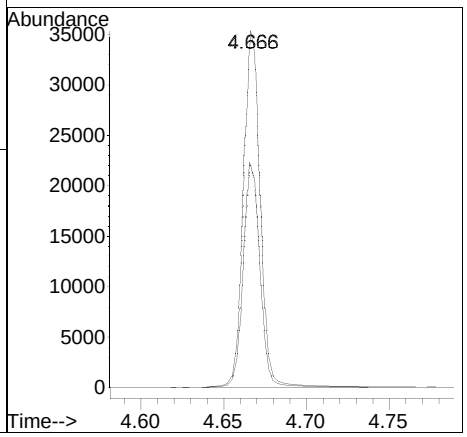


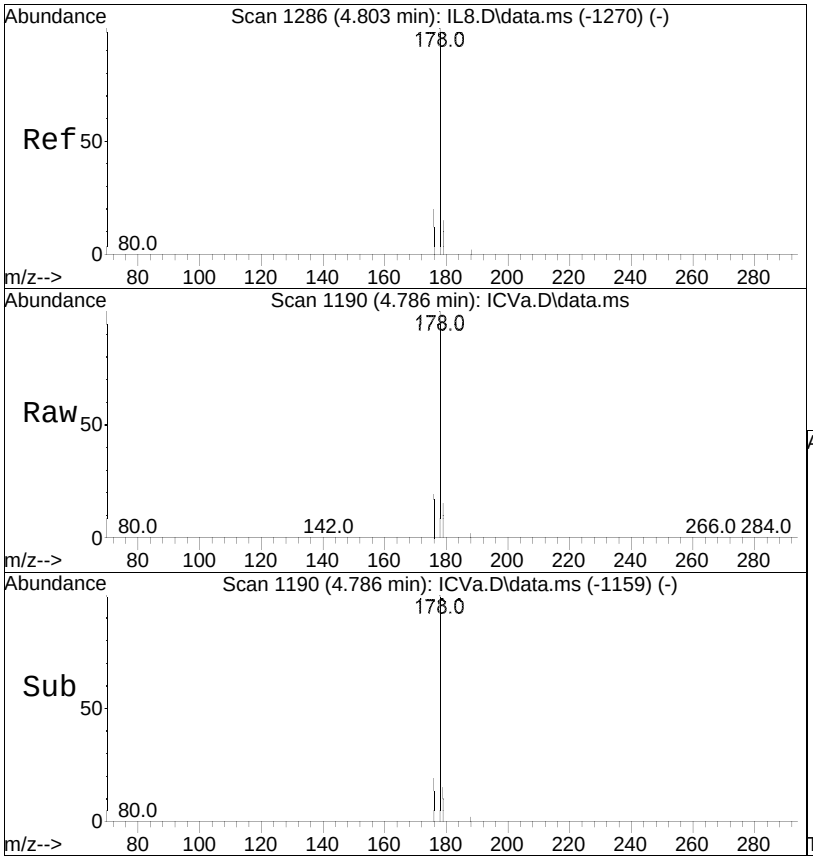


#25
Pentachlorophenol
Concen: 837.80 ng/ml
RT: 4.666 min Scan# 1146
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:266 Resp: 24833

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2

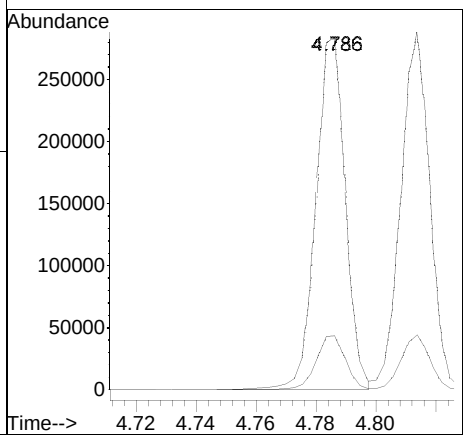


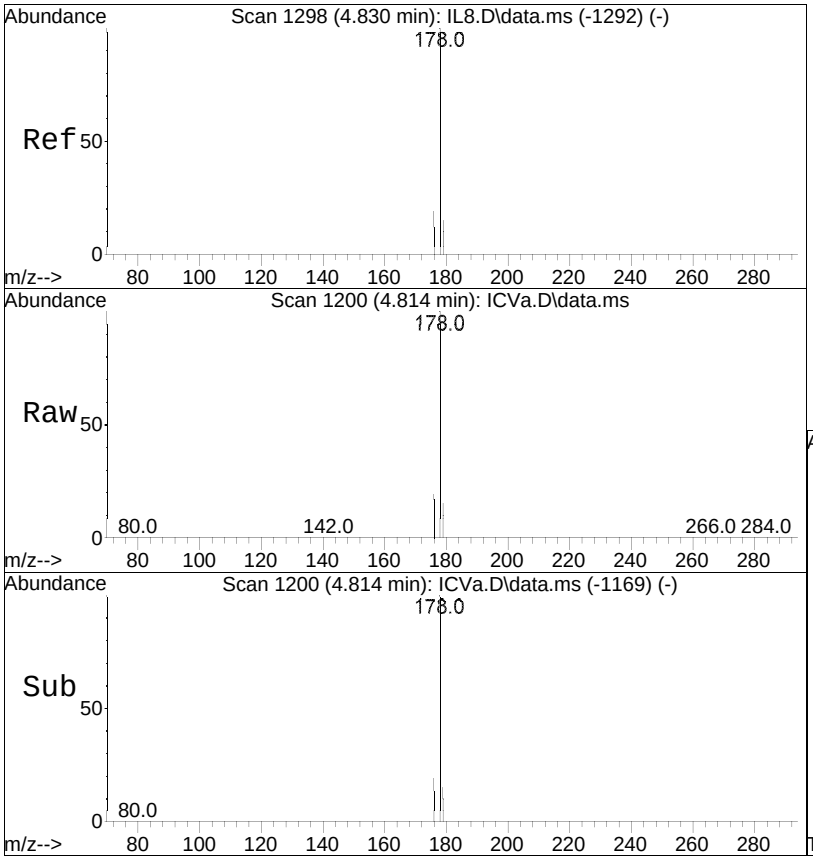


#26
Phenanthrene
Concen: 952.09 ng/ml
RT: 4.786 min Scan# 1190
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:178 Resp: 192933

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

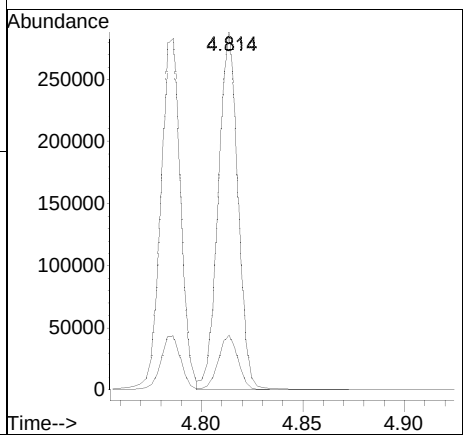


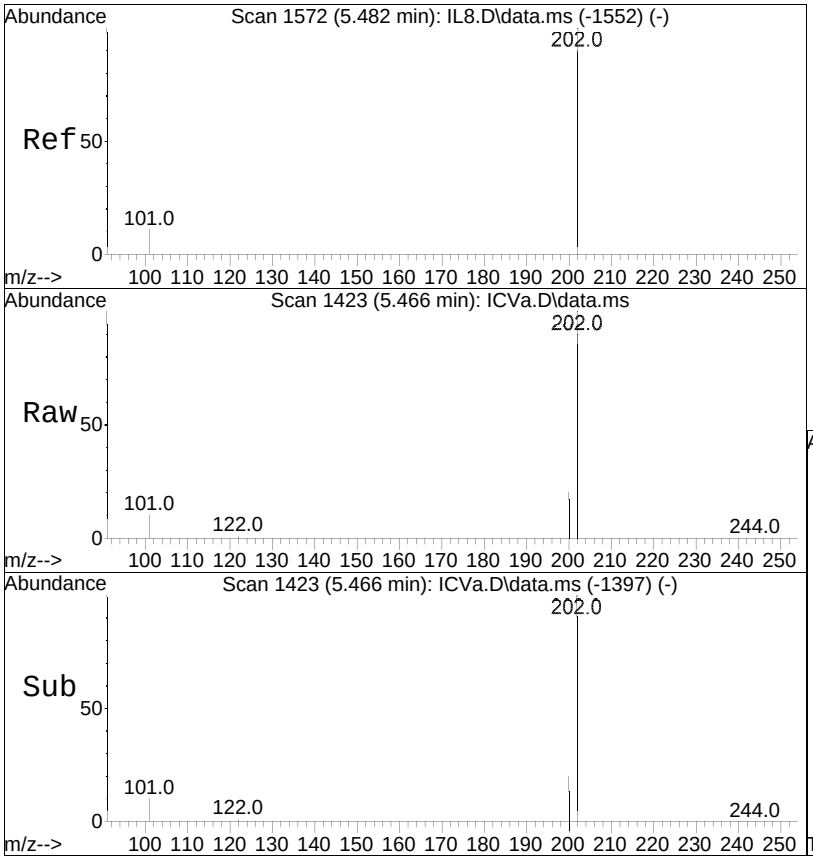


#27
Anthracene
Concen: 968.99 ng/ml
RT: 4.814 min Scan# 1200
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:178 Resp: 194011

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.4

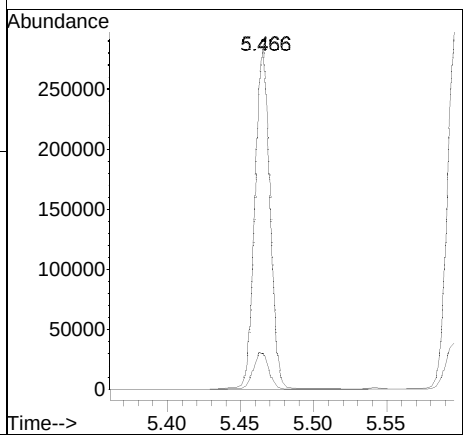


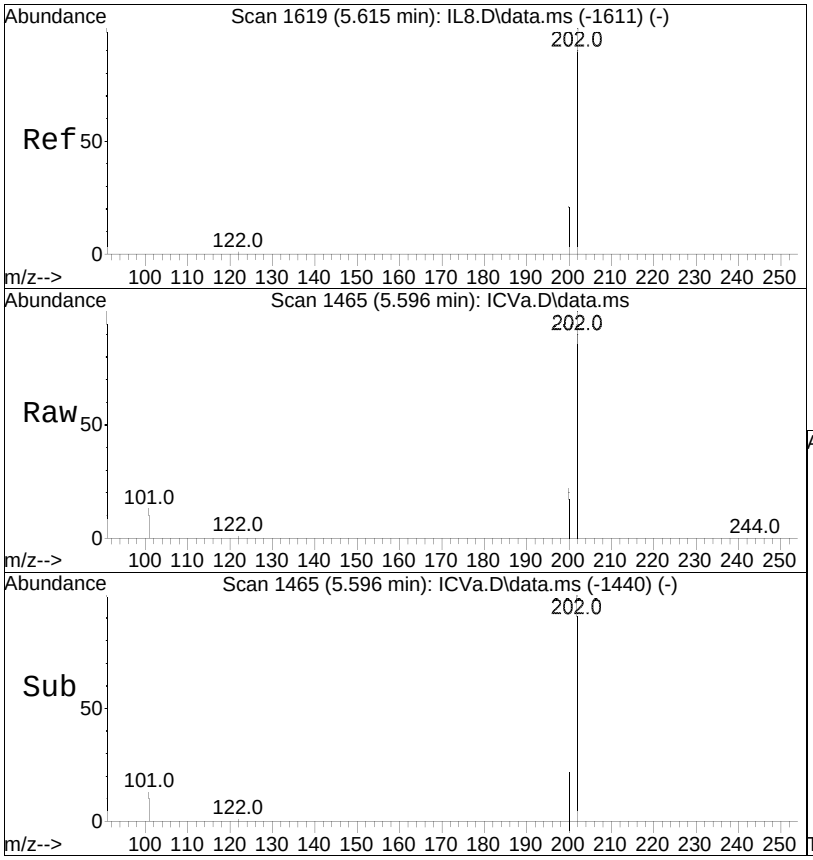


#28
Fluoranthene
Concen: 940.66 ng/ml
RT: 5.466 min Scan# 1423
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:202 Resp: 206733

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.0	13.6

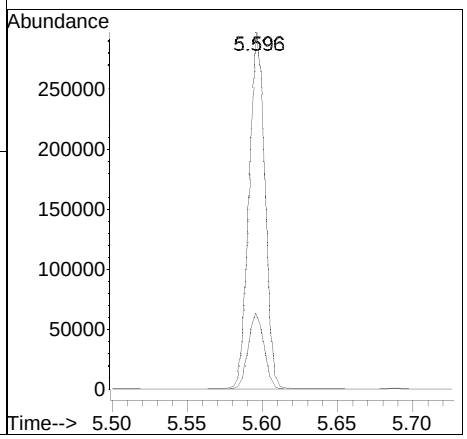


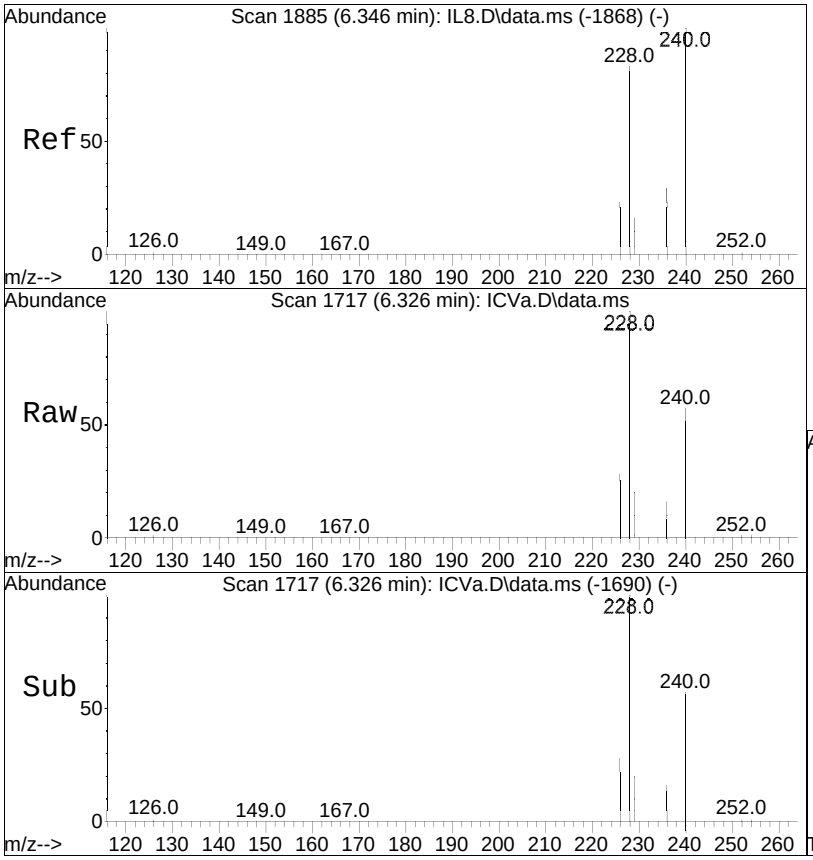


#29
Pyrene
Concen: 949.11 ng/ml
RT: 5.596 min Scan# 1465
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:202 Resp: 216295

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

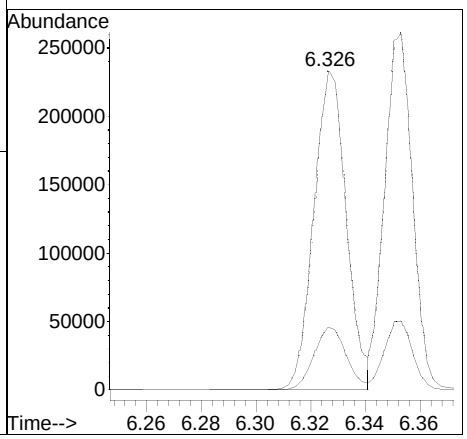


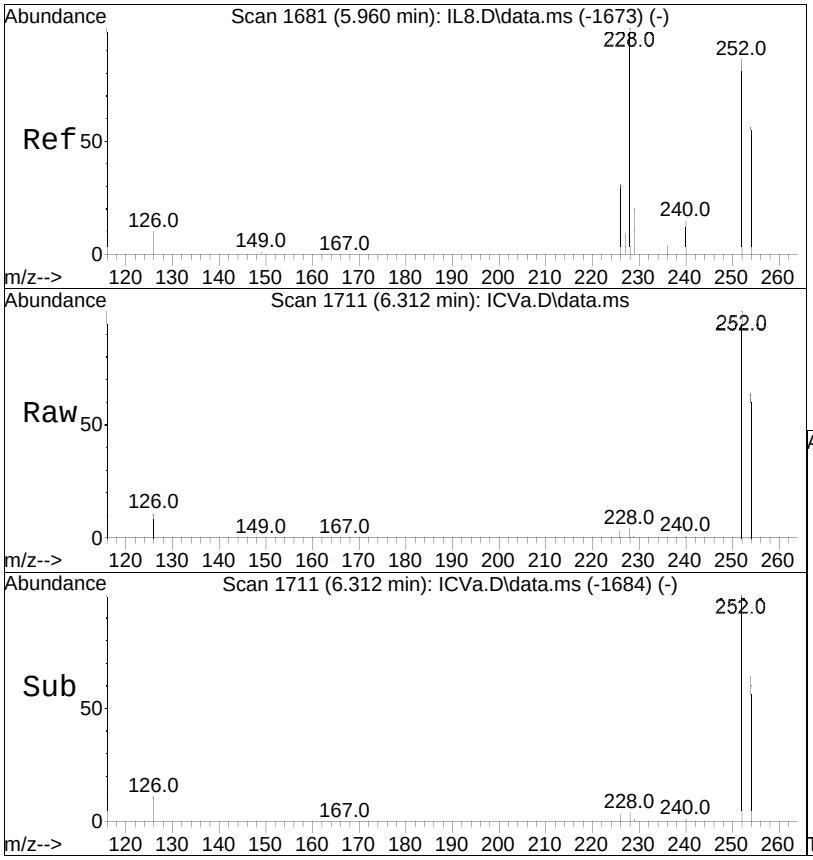


#32
Benzo[a]anthracene
Concen: 914.35 ng/ml
RT: 6.326 min Scan# 1717
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:228 Resp: 192324

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

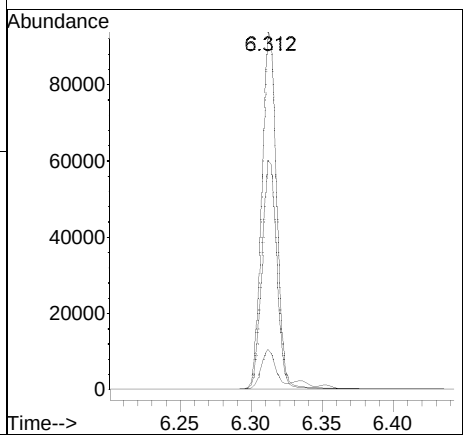


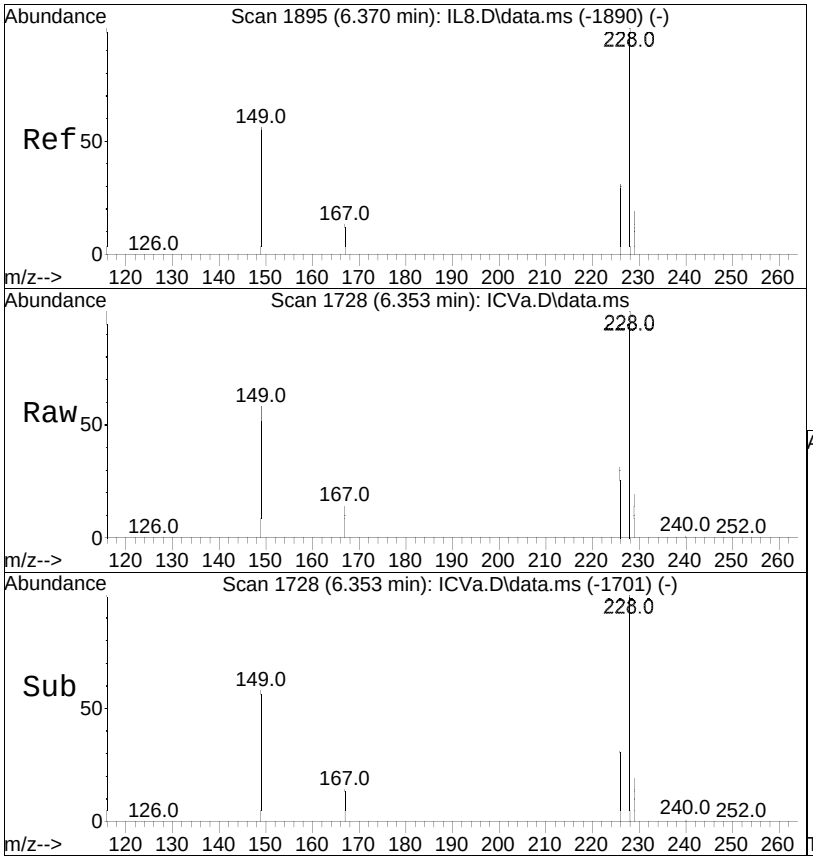


#33
3,3'-Dichlorobenzene
Concen: 906.48 ng/ml
RT: 6.312 min Scan# 1711
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 66162

Ion	Ratio	Lower	Upper
252	100		
126	11.3	9.4	14.2
254	64.6	51.4	77.2

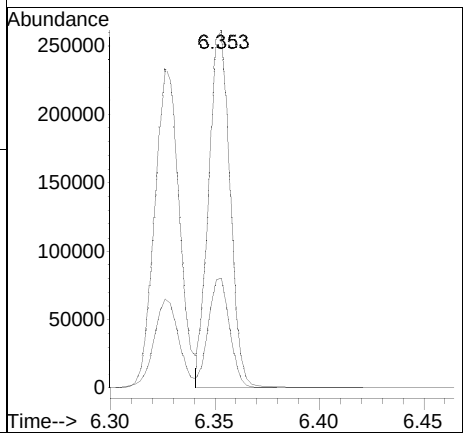


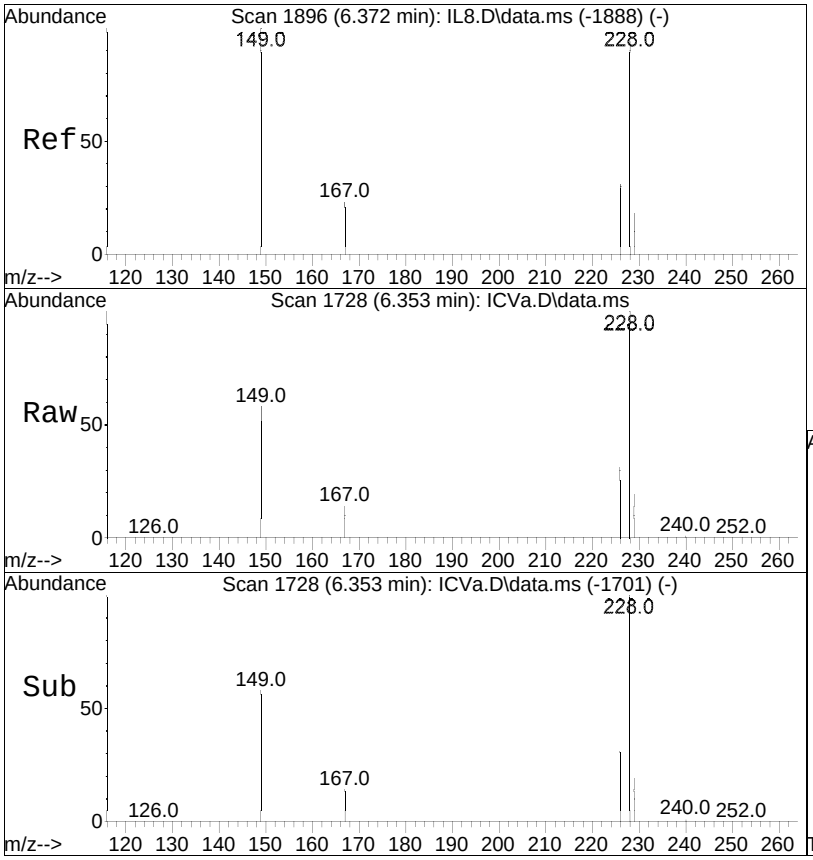


#34
Chrysene
Concen: 932.50 ng/ml
RT: 6.353 min Scan# 1728
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:228 Resp: 185135

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.1	37.7

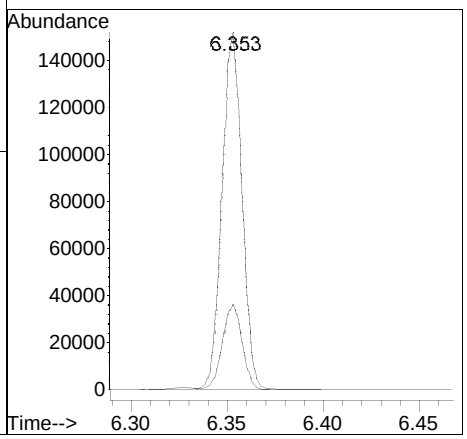


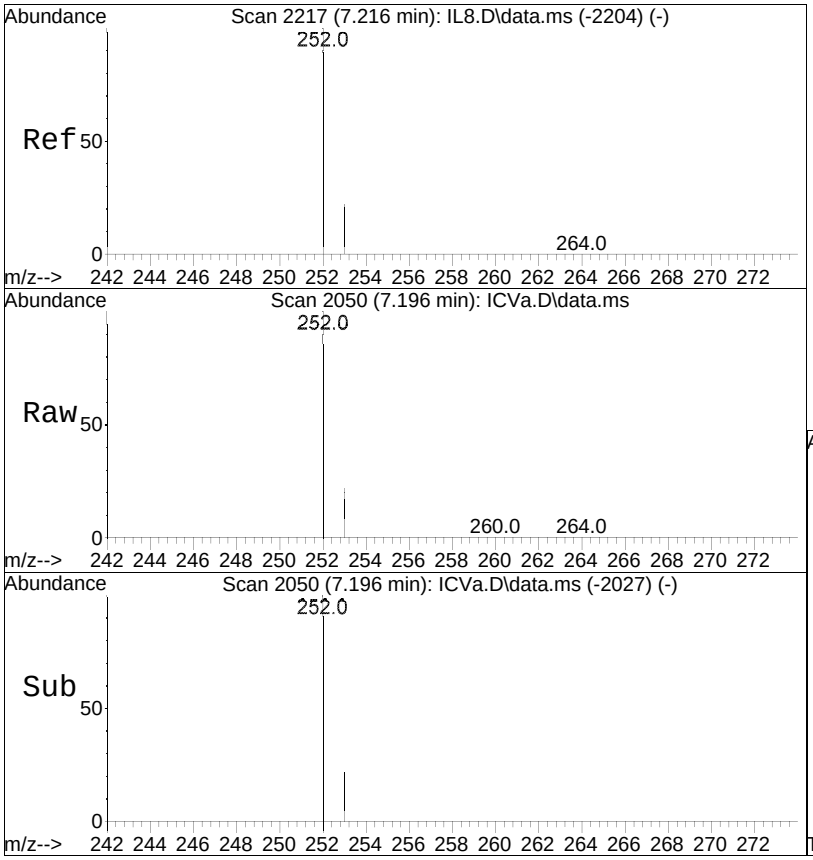


#35
Bis(2-ethylhexyl)phthalate
Concen: 808.77 ng/ml
RT: 6.353 min Scan# 1728
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:149 Resp: 107790

Ion	Ratio	Lower	Upper
149	100		
167	24.1	19.2	28.8

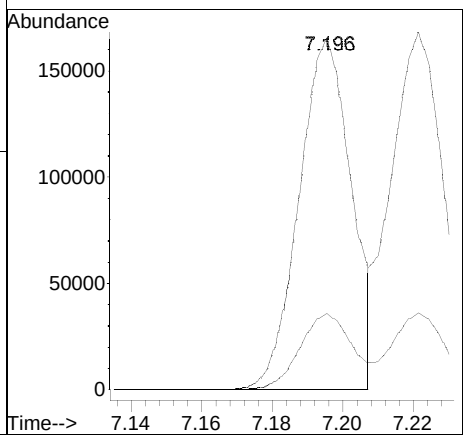


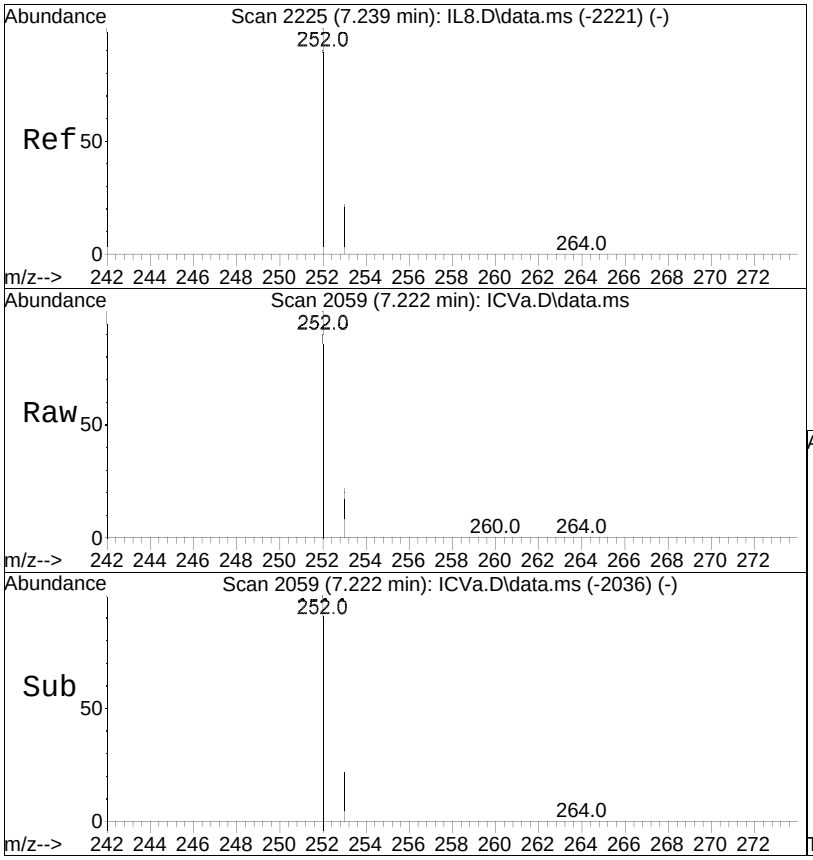


#37
Benzo[b]fluoranthene
Concen: 960.76 ng/ml
RT: 7.196 min Scan# 2050
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 170922

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

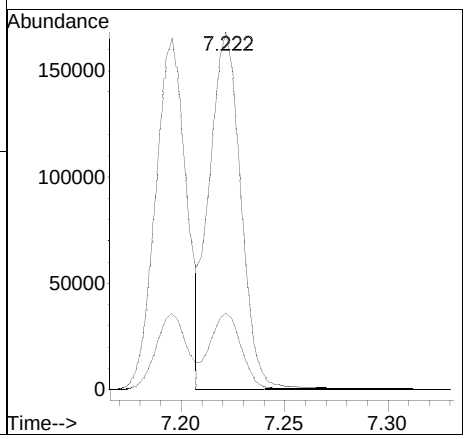


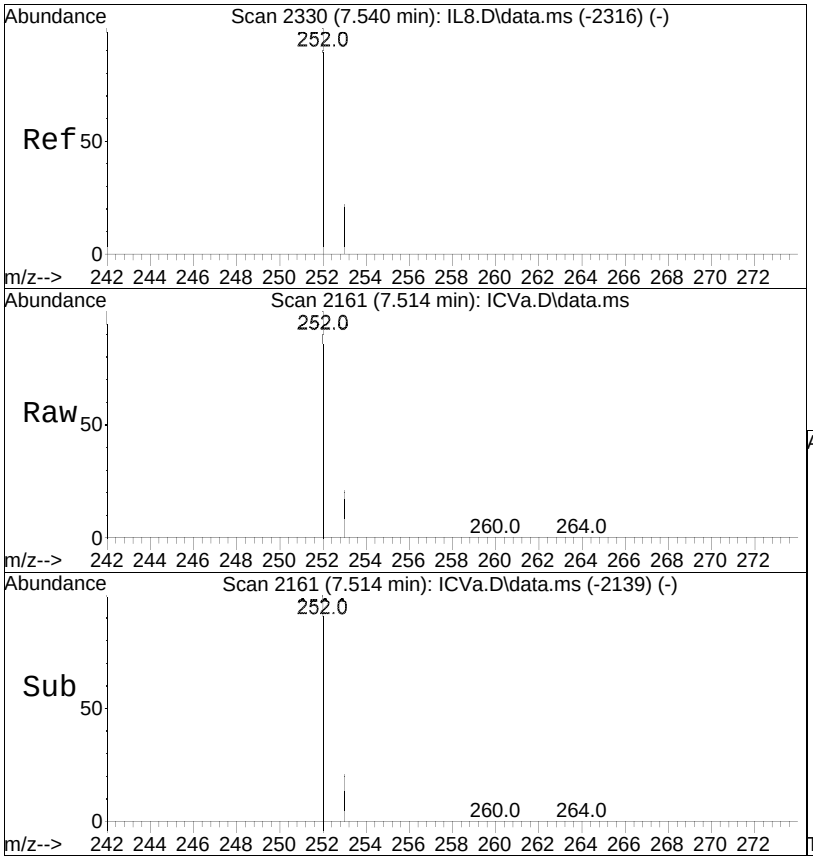


#38
Benzo[k]fluoranthene
Concen: 1038.03 ng/ml
RT: 7.222 min Scan# 2059
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 175807

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3

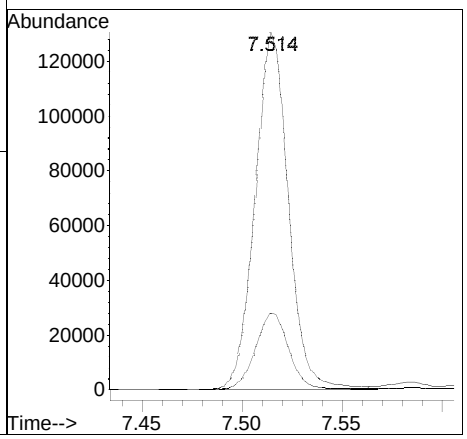


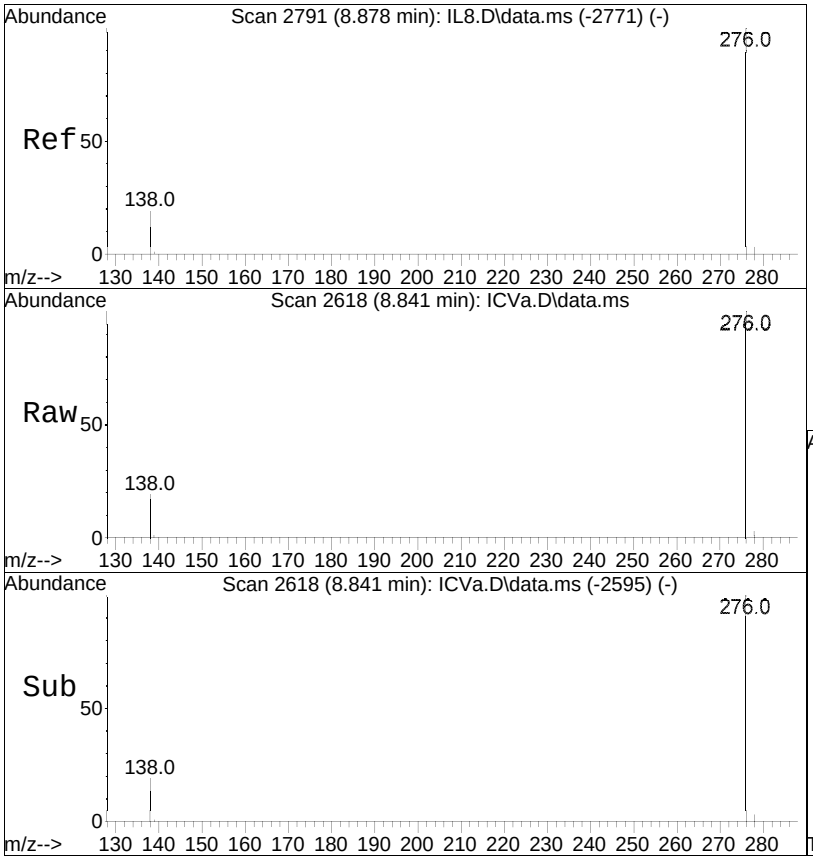


#39
Benzo[a]pyrene
Concen: 1017.95 ng/ml
RT: 7.514 min Scan# 2161
Delta R.T. -0.017 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 149283

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

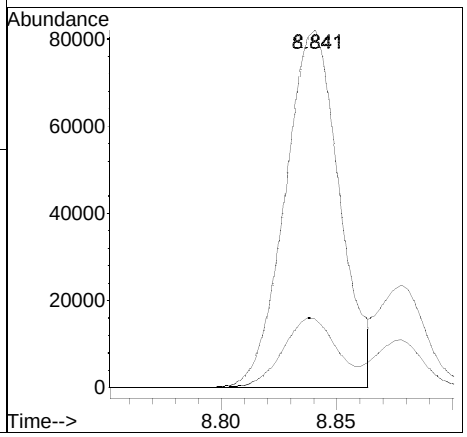


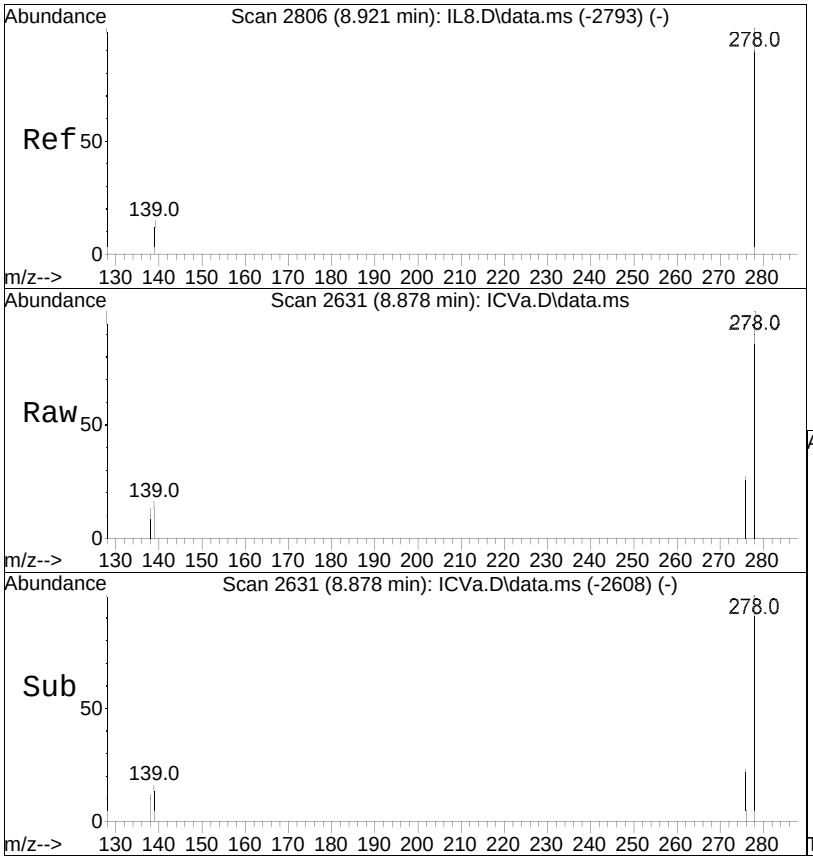


#40
Indeno[1,2,3-cd]pyrene
Concen: 967.78 ng/ml
RT: 8.841 min Scan# 2618
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:276 Resp: 133663

Ion	Ratio	Lower	Upper
276	100		
138	19.2	16.6	24.8

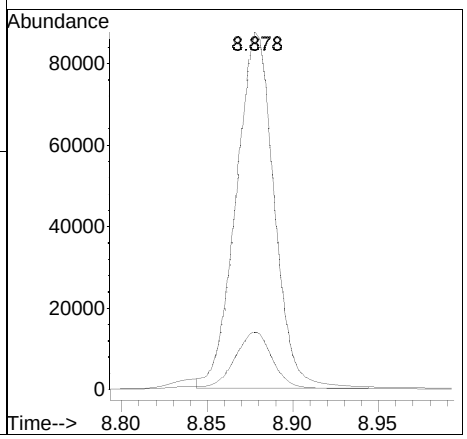


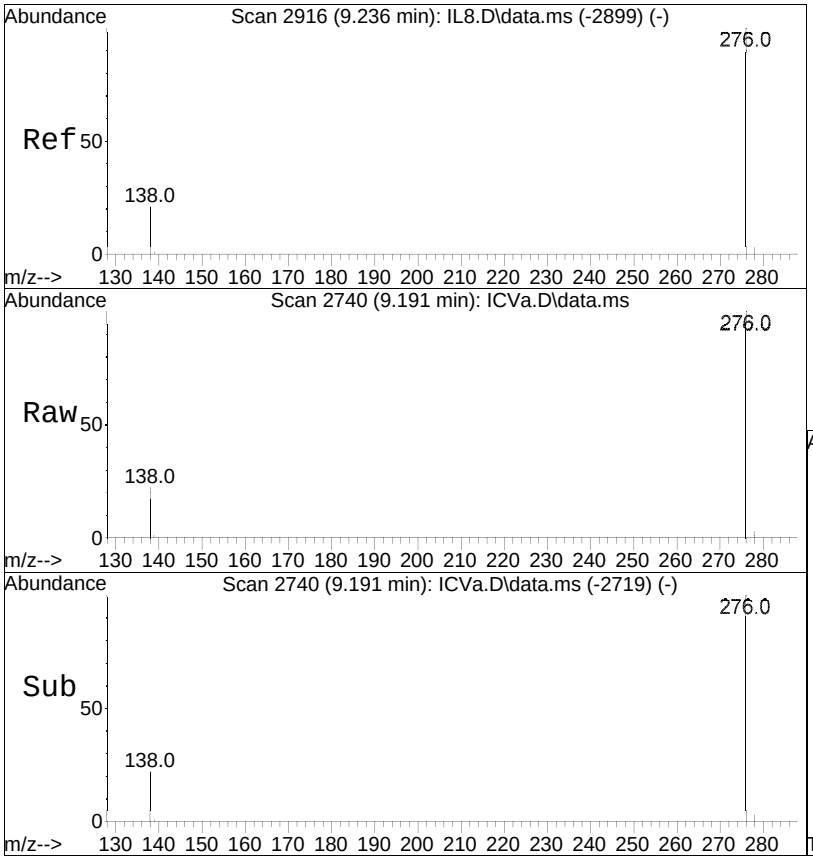


#41
Dibenzo[a,h]anthracene
Concen: 1014.95 ng/ml M6
RT: 8.878 min Scan# 2631
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:278 Resp: 134229

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.0	21.0

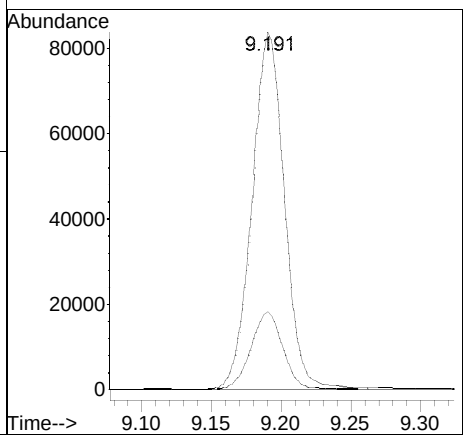




#42
Benzo[g,h,i]perylene
Concen: 945.66 ng/ml
RT: 9.191 min Scan# 2740
Delta R.T. -0.019 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:276 Resp: 132877

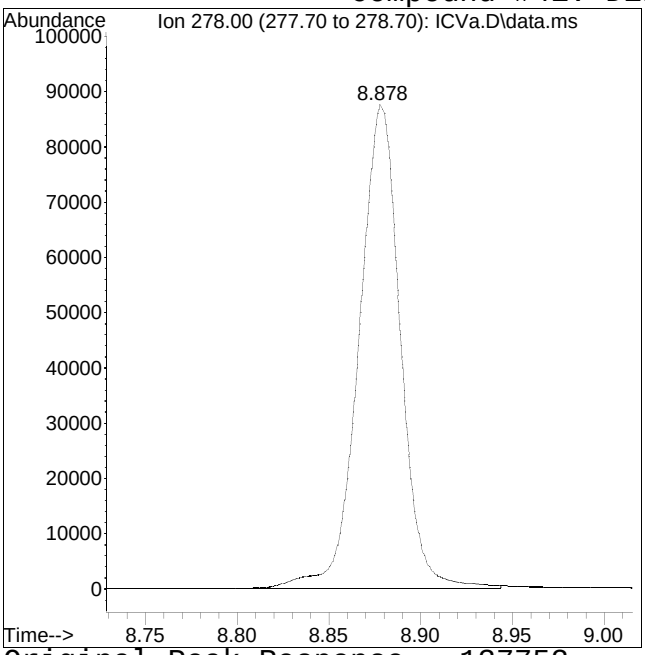
Ion	Ratio	Lower	Upper
276	100		
138	21.7	17.8	26.8



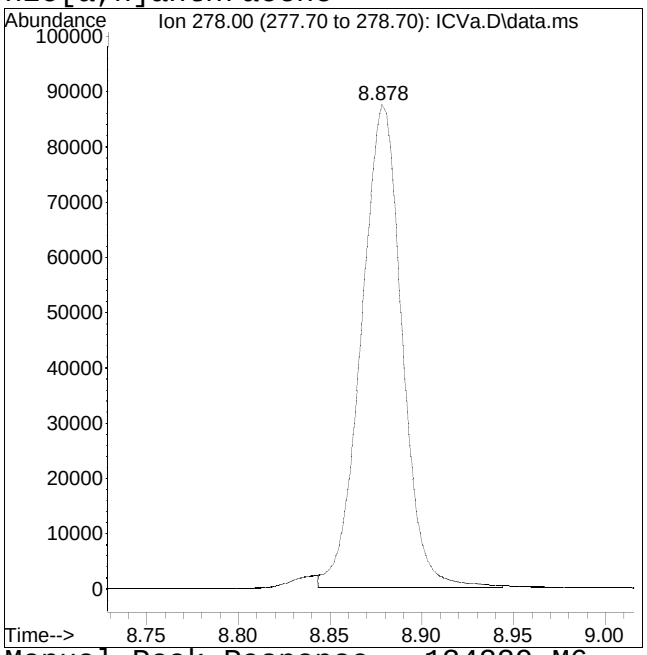
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : ICVa.D
Date Inj'd : 5/22/2024 1:49 pm
Sample : CQICV,32,,1000.0ng/mL lot
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:03 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 137752



Manual Peak Response = 134229 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\240521RVTical\
Method File : SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu May 30 15:58:11 2024

		COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15	T	2,6-Dinitrotoluene	L	ng/ml	1000.0	966.239	-3.4	40.00	46.308	15.8
19	T	2,4-Dinitrotoluene	L	ng/ml	1000.0	992.757	-0.7	40.00	44.881	12.2
21	S	2,4,6-Tribromophenol	L	ng/ml	1000.0	1003.133	0.3	5.00	7.008	40.2
23	T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	1003.249	0.3	40.00	49.087	22.7
25	T	Pentachlorophenol	L	ng/ml	1000.0	966.229	-3.4	40.00	53.577	33.9
32	T	Benzo[a]anthracene	L	ng/ml	1000.0	1041.595	4.2	2.00	2.711	35.5
35	T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	942.425	-5.8	40.00	52.192	30.5

Calibration Correlation Report

		COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15	T	2,6-Dinitrotoluene	Linear	0.999448	0.000000	0.183839	-0.000895016
19	T	2,4-Dinitrotoluene	Linear	0.999511	0.000000	0.45501	-0.00231271
21	S	2,4,6-Tribromophenol	Linear	0.998848	0.000000	0.272783	-0.000292982
23	T	4,6-Dinitro-o-cresol	Quadratic	0.998456	0.005565	0.120149	-0.000968136
25	T	Pentachlorophenol	Linear	0.997306	0.000000	0.173818	-0.00194907
32	T	Benzo[a]anthracene	Linear	0.999149	0.000000	1.5238	0.00281616
35	T	Bis(2-ethylhexyl)phthalate	Linear	0.996952	0.000000	1.01011	-0.00743669

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/17/24 07:04		
Lab File ID	: CCV0617	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935125-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	60	0
2-Fluorophenol	1.189	1.093	.05	8.1	20	52	0
Phenol-d6	1.429	1.329	.05	7	20	52	0
Bis(2-chloroethyl)ether	1.263	1.184	.05	6.3	20	56	0
n-nitrosodi-n-propylamine	0.866	0.857	.05	1	20	55	0
Hexachloroethane	0.572	0.533	.05	6.8	20	54	0
Nitrobenzene-d5	1.273	1.266	.05	0.5	20	56	0
Naphthalene-d8	1	1	.05	0	20	62	0
Naphthalene	1.131	1.007	.05	11	20	56	0
Hexachlorobutadiene	0.216	0.201	.05	6.9	20	56	0
2-Methylnaphthalene	0.705	0.683	.05	3.1	20	57	0
1-Methylnaphthalene	0.664	0.627	.05	5.6	20	57	0
2-Fluorobiphenyl	0.851	0.808	.05	5.1	20	58	0
2-Chloronaphthalene	0.721	0.695	.05	3.6	20	58	0
2,6-Dinitrotoluene	1000	974.946	.05	2.5	20	62	0
Acenaphthylene	1.061	1.096	.05	-3.3	20	58	0
Acenaphthene-d10	1	1	.05	0	20	68	0
Acenaphthene	1.372	1.275	.05	7.1	20	62	0
2,4-Dinitrotoluene	1000	943.166	.05	5.7	20	65	0
Fluorene	1.479	1.423	.05	3.8	20	63	0
2,4,6-Tribromophenol	1000	944.525	.05	5.5	20	64	0
Phenanthrene-d10	1	1	.05	0	20	77	0
4,6-Dinitro-o-cresol	1000	882.936	.05	11.7	20	67	0
Hexachlorobenzene	0.288	0.255	.05	11.5	20	66	0
Pentachlorophenol	1000	842.938	.05	15.7	20	66	0
Phenanthrene	1.125	1.019	.05	9.4	20	65	0
Anthracene	1.111	1.034	.05	6.9	20	67	0
Fluoranthene	1.22	1.213	.05	0.6	20	73	0
Pyrene	1.265	1.266	.05	-0.1	20	73	0
4-Terphenyl-d14	0.814	0.802	.05	1.5	20	76	0
Chrysene-d12	1	1	.05	0	20	94	0
Benzo[a]anthracene	1000	866.195	.05	13.4	20	78	0
3,3'-Dichlorobenzene	0.533	0.488	.05	8.4	20	78	0
Chrysene	1.45	1.279	.05	11.8	20	80	0
Bis(2-ethylhexyl)phthalate	1000	813.73	.05	18.6	20	81	0
Perylene-d12	1	1	.05	0	20	102	0
Benzo[b]fluoranthene	1.323	1.259	.05	4.8	20	86	0
Benzo[k]fluoranthene	1.259	1.174	.05	6.8	20	85	0
Benzo[a]pyrene	1.09	1.073	.05	1.6	20	87	0
Indeno[1,2,3-cd]pyrene	1.027	1.031	.05	-0.4	20	94	0
Dibenzo[a,h]anthracene	0.983	1.019	.05	-3.7	20	93	0
Benzo[g,h,i]perylene	1.045	1.003	.05	4	20	91	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	60	0.00
2	s	2-Fluorophenol	1.189	1.093	8.1	52	0.00
3	s	Phenol-d6	1.429	1.329	7.0	52	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.184	6.3	56	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.857	1.0	55	0.00
6	t	Hexachloroethane	0.572	0.533	6.8	54	0.00
7	s	Nitrobenzene-d5	1.273	1.266	0.5	56	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	62	0.00
9	t	Naphthalene	1.131	1.007	11.0	56	0.00
10	t	Hexachlorobutadiene	0.216	0.201	6.9	56	0.00
11	t	2-Methylnaphthalene	0.705	0.683	3.1	57	0.00
12	t	1-Methylnaphthalene	0.664	0.627	5.6	57	0.00
13	s	2-Fluorobiphenyl	0.851	0.808	5.1	58	0.00
14	t	2-Chloronaphthalene	0.721	0.695	3.6	58	0.00
15	t	2,6-Dinitrotoluene	*1000.000	974.946	2.5	62	0.00
16	t	Acenaphthylene	1.061	1.096	-3.3	58	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
18	t	Acenaphthene	1.372	1.275	7.1	62	0.00
19	t	2,4-Dinitrotoluene	*1000.000	943.166	5.7	65	0.00
20	t	Fluorene	1.479	1.423	3.8	63	0.00
21	s	2,4,6-Tribromophenol	*1000.000	944.525	5.5	64	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	882.936	11.7	67	0.00
24	t	Hexachlorobenzene	0.288	0.255	11.5	66	0.00
25	t	Pentachlorophenol	*1000.000	842.938	15.7	66	0.00
26	t	Phenanthrene	1.125	1.019	9.4	65	0.00
27	t	Anthracene	1.111	1.034	6.9	67	0.00
28	t	Fluoranthene	1.220	1.213	0.6	73	0.00
29	t	Pyrene	1.265	1.266	-0.1	73	0.00
30	s	4-Terphenyl-d14	0.814	0.802	1.5	76	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	94	0.00
32	t	Benzo[a]anthracene	*1000.000	866.195	13.4	78	0.00
33	t	3,3'-Dichlorobenzene	0.533	0.488	8.4	78	0.00
34	t	Chrysene	1.450	1.279	11.8	80	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	813.730	18.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	102	0.00
37	t	Benzo[b]fluoranthene	1.323	1.259	4.8	86	0.00
38	t	Benzo[k]fluoranthene	1.259	1.174	6.8	85	0.00
39	t	Benzo[a]pyrene	1.090	1.073	1.6	87	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.027	1.031	-0.4	94	0.00
41	t	Dibenzo[a,h]anthracene	0.983	1.019	-3.7	93	0.00
42	t	Benzo[g,h,i]perylene	1.045	1.003	4.0	91	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	108607	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.868	136	406711	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.841	164	240410	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.678	188	525169	4000.000	ng/ml	0.00
31) Chrysene-d12	6.212	240	478566	4000.000	ng/ml	0.00
36) Perylene-d12	7.381	264	501063	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	29686	919.662	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.98%			
3) Phenol-d6	2.023	99	36094	930.229	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.51%			
7) Nitrobenzene-d5	2.485	82	34383	994.573	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.46%			
13) 2-Fluorobiphenyl	3.464	172	82144	949.868	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.99%			
21) 2,4,6-Tribromophenol	4.286	330	15415	944.525	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.23%			
30) 4-Terphenyl-d14	5.586	244	105262	985.096	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.25%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.073	93	32137	937.120	ng/ml	98
5) n-nitrosodi-n-propylamine	2.407	70	23279	989.919	ng/ml	100
6) Hexachloroethane	2.464	117	14466	930.981	ng/ml	100
9) Naphthalene	2.878	128	102401	890.739	ng/ml	99
10) Hexachlorobutadiene	2.951	225	20458	930.275	ng/ml	100
11) 2-Methylnaphthalene	3.258	142	69413	967.766	ng/ml	100
12) 1-Methylnaphthalene	3.313	142	63799	945.048	ng/ml	100
14) 2-Chloronaphthalene	3.526	162	70688	964.262	ng/ml	100
15) 2,6-Dinitrotoluene	3.724	165	17860	974.946	ng/ml	98
16) Acenaphthylene	3.760	152	111408	1032.628	ng/ml	100
18) Acenaphthene	3.857	153	76639	929.098	ng/ml	99
19) 2,4-Dinitrotoluene	3.949	165	25237	943.166	ng/ml#	79
20) Fluorene	4.148	166	85528	961.901	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.179	198	13562	882.936	ng/ml	98
24) Hexachlorobenzene	4.464	284	33517	885.759	ng/ml	99
25) Pentachlorophenol	4.575	266	18213	842.938	ng/ml	100
26) Phenanthrene	4.689	178	133734	905.660	ng/ml	100
27) Anthracene	4.717	178	135733	930.316	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.364	202	159199	994.072	ng/ml	99
29) Pyrene	5.493	202	166254	1001.143	ng/ml	100
32) Benzo[a]anthracene	6.201	228	159263	866.195	ng/ml	100
33) 3,3'-Dichlorobenzene	6.189	252	58379	915.424	ng/ml	100
34) Chrysene	6.226	228	153053	882.304	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.229	149	94781	813.730	ng/ml	100
37) Benzo[b]fluoranthene	7.013	252	157684	951.733	ng/ml	100
38) Benzo[k]fluoranthene	7.039	252	147048	932.266	ng/ml	100
39) Benzo[a]pyrene	7.315	252	134388	983.981	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.562	276	129117	1003.826	ng/ml	98
41) Dibenzo[a,h]anthracene	8.597	278	127615M6	1036.114	ng/ml	
42) Benzo[g,h,i]perylene	8.893	276	125703	960.595	ng/ml	100

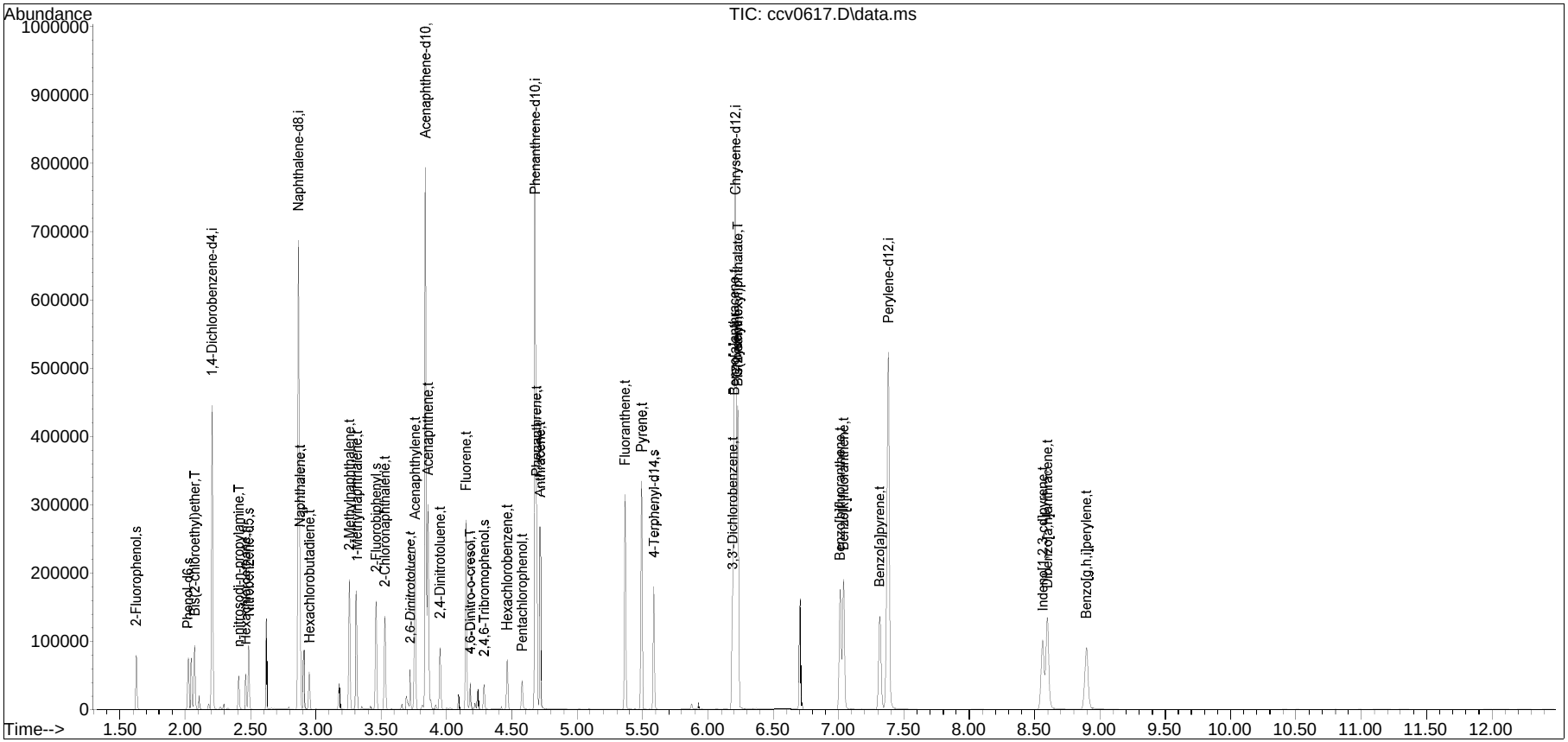
(#) = qualifier out of range (m) = manual integration (+) = signals summed

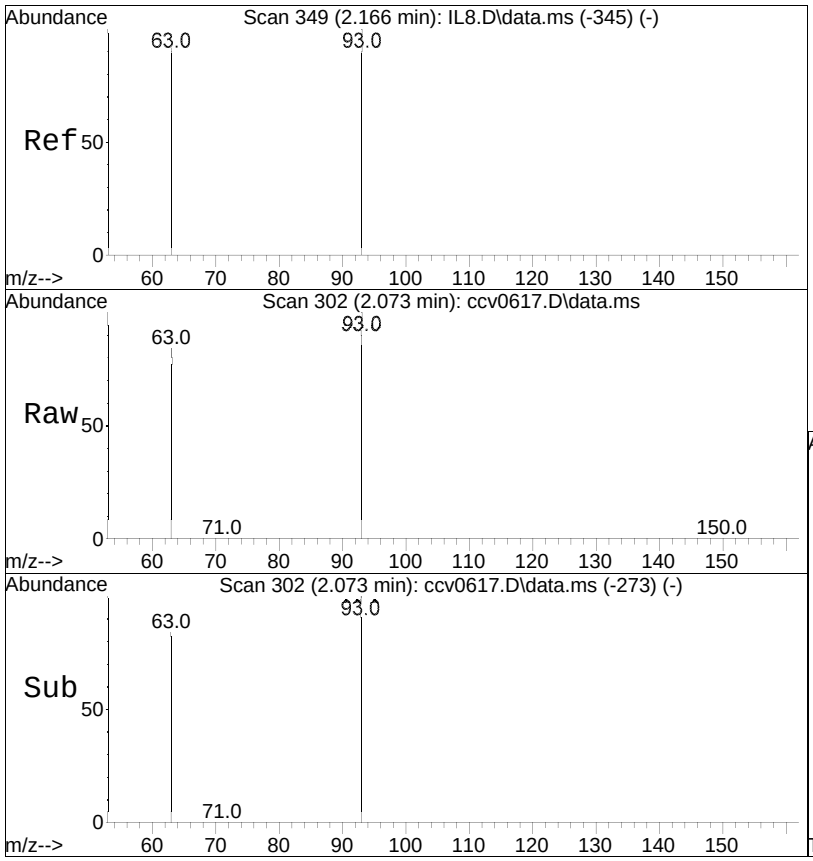
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

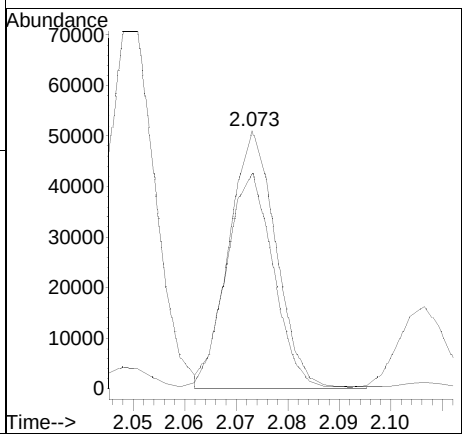


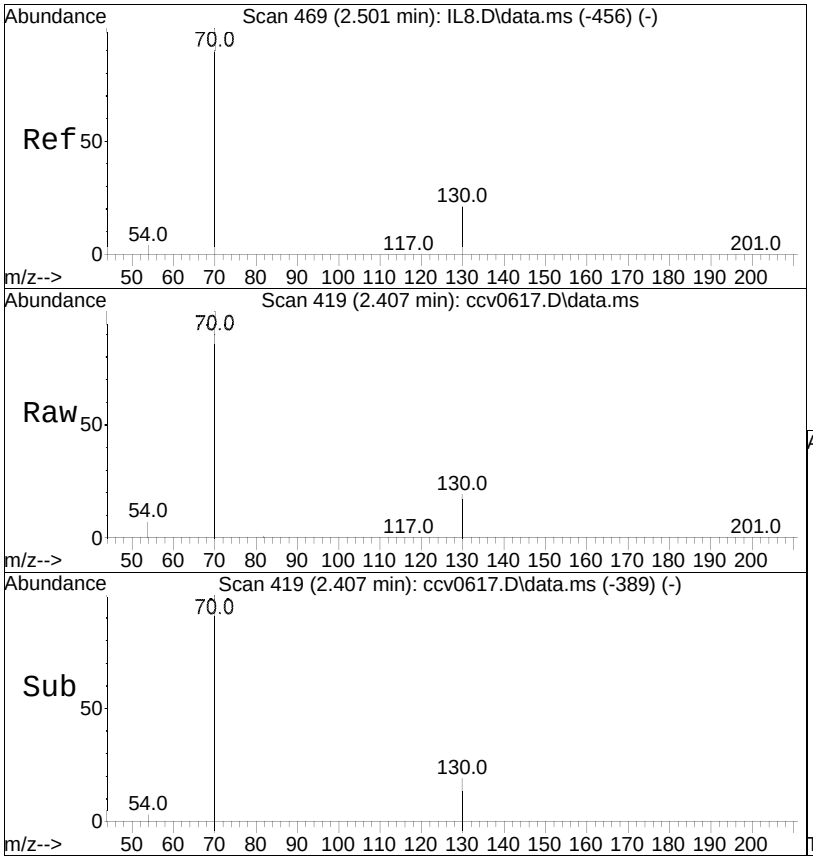


#4
Bis(2-chloroethyl)ether
Concen: 937.12 ng/ml
RT: 2.073 min Scan# 302
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion: 93 Resp: 32137

Ion	Ratio	Lower	Upper
93	100		
63	84.2	68.6	102.8

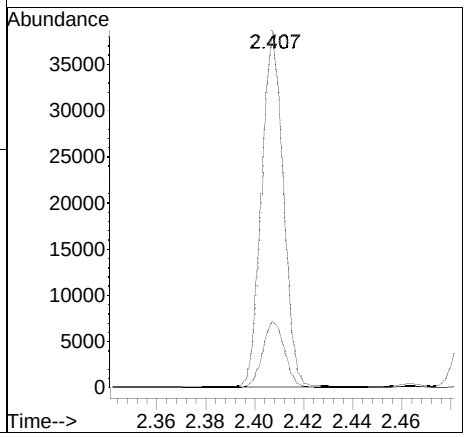


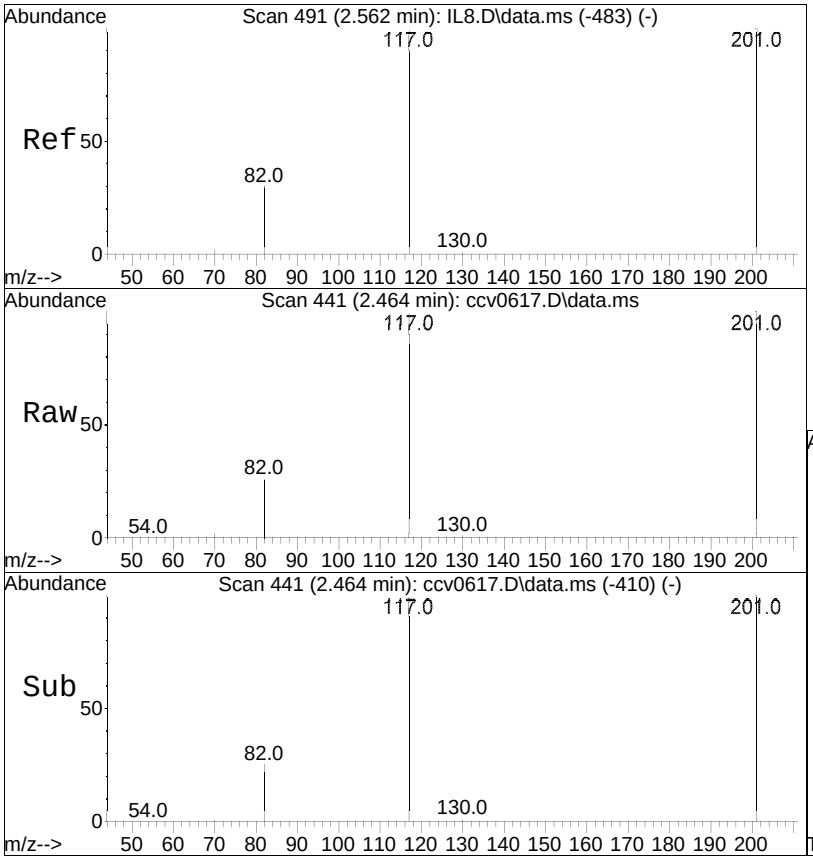


#5
n-nitrosodi-n-propylamine
Concen: 989.92 ng/ml
RT: 2.407 min Scan# 419
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion: 70 Resp: 23279

Ion	Ratio	Lower	Upper
70	100		
130	19.0	15.1	22.7

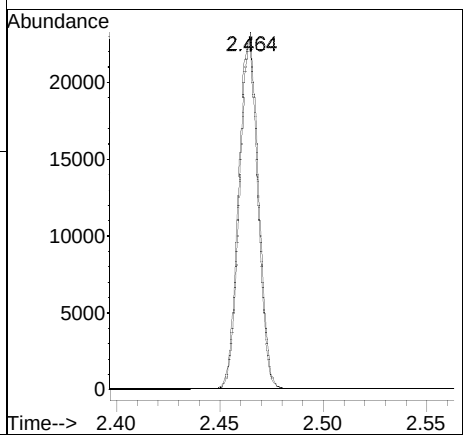


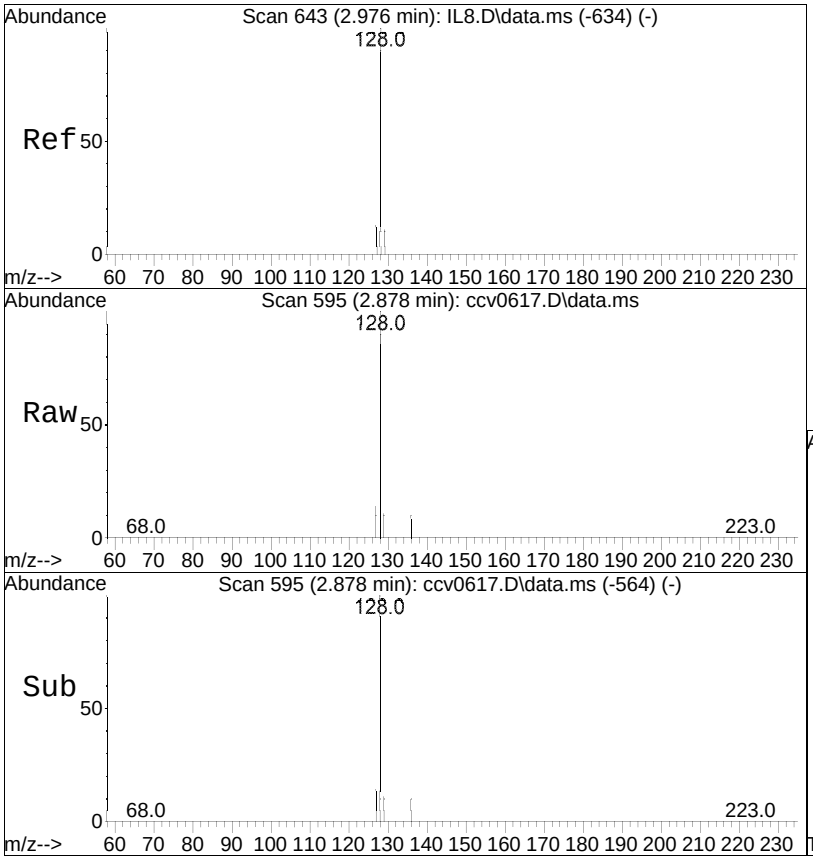


#6
Hexachloroethane
Concen: 930.98 ng/ml
RT: 2.464 min Scan# 441
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:117 Resp: 14466

Ion	Ratio	Lower	Upper
117	100		
201	99.7	79.4	119.2

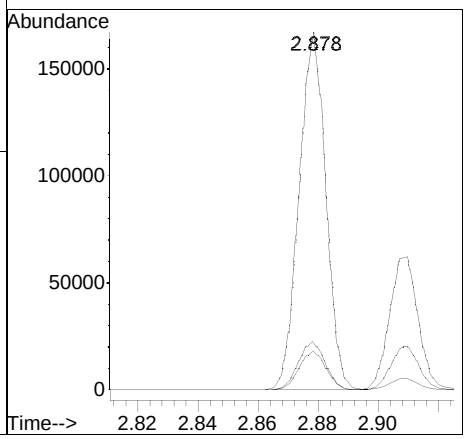


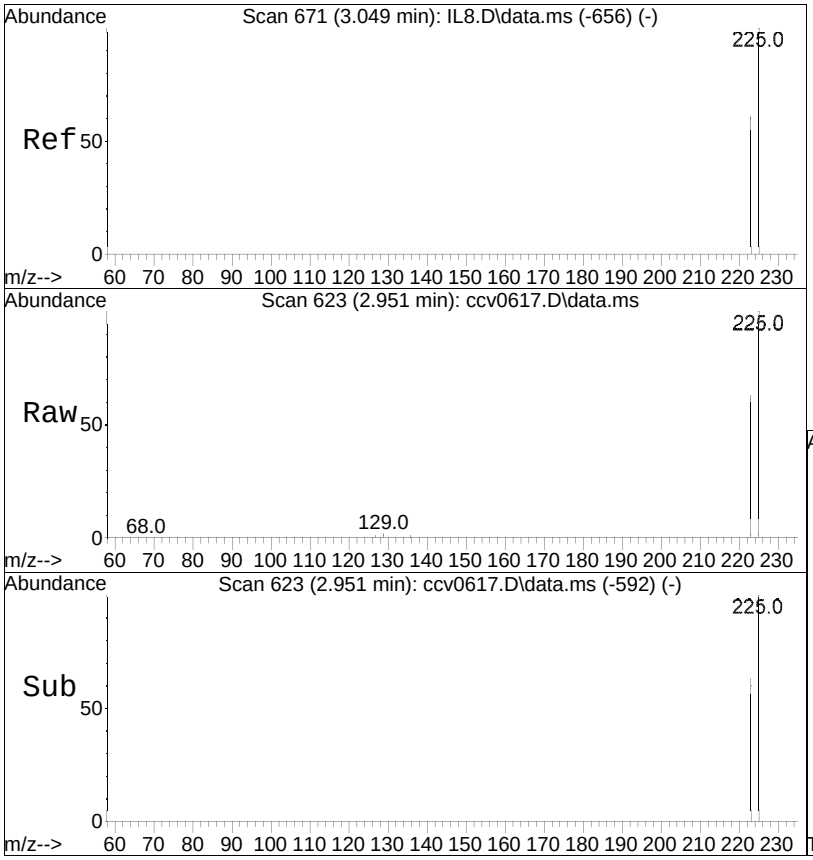


#9
Naphthalene
Concen: 890.74 ng/ml
RT: 2.878 min Scan# 595
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:128 Resp: 102401

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.7	11.3	16.9

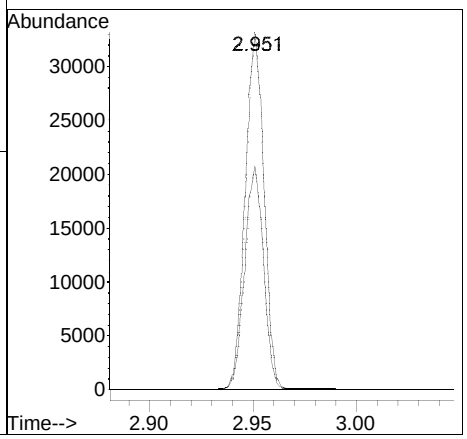


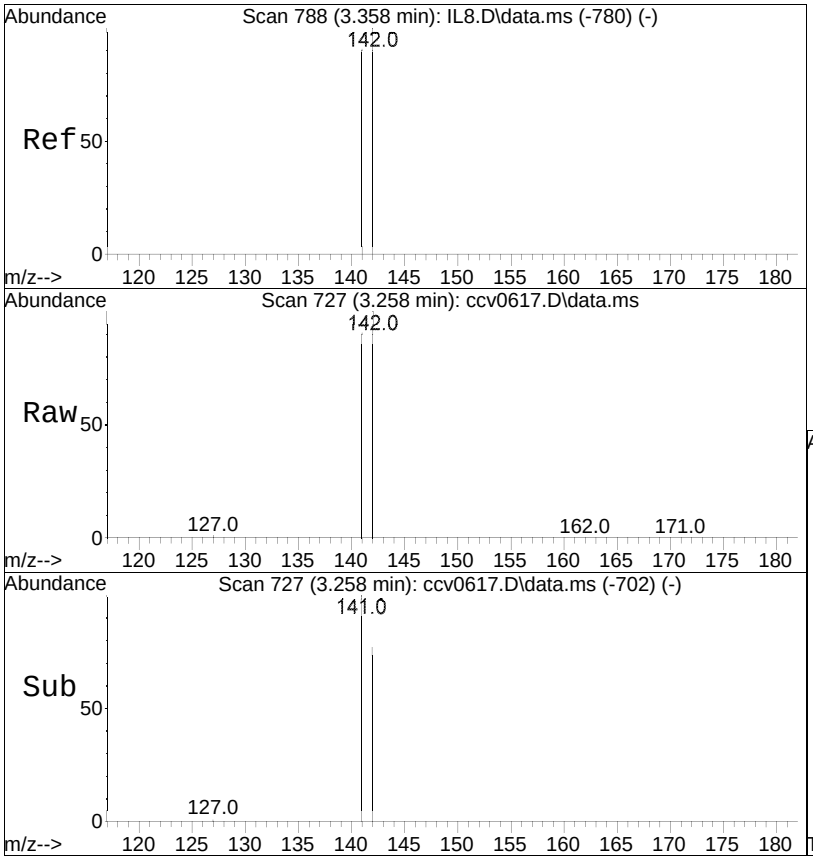


#10
Hexachlorobutadiene
Concen: 930.28 ng/ml
RT: 2.951 min Scan# 623
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:225 Resp: 20458

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

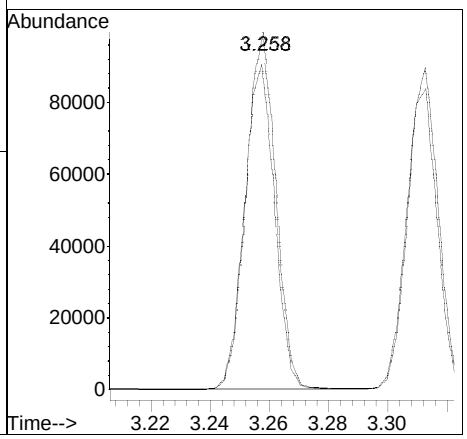


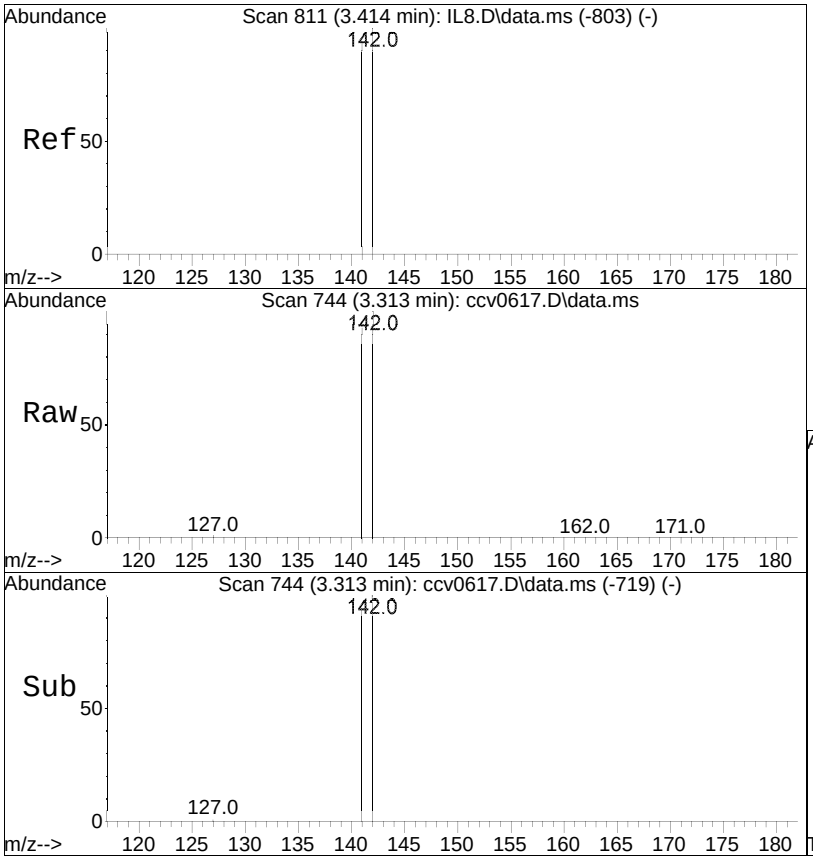


#11
2-Methylnaphthalene
Concen: 967.77 ng/ml
RT: 3.258 min Scan# 727
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:142 Resp: 69413

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.8	110.6

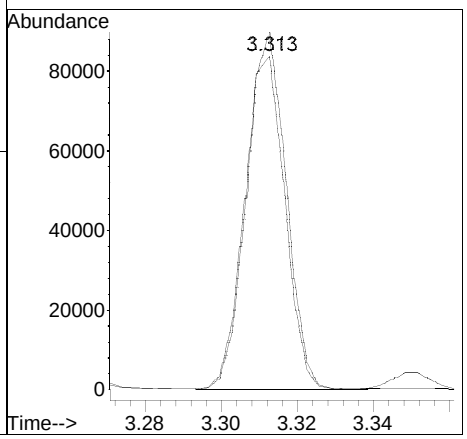


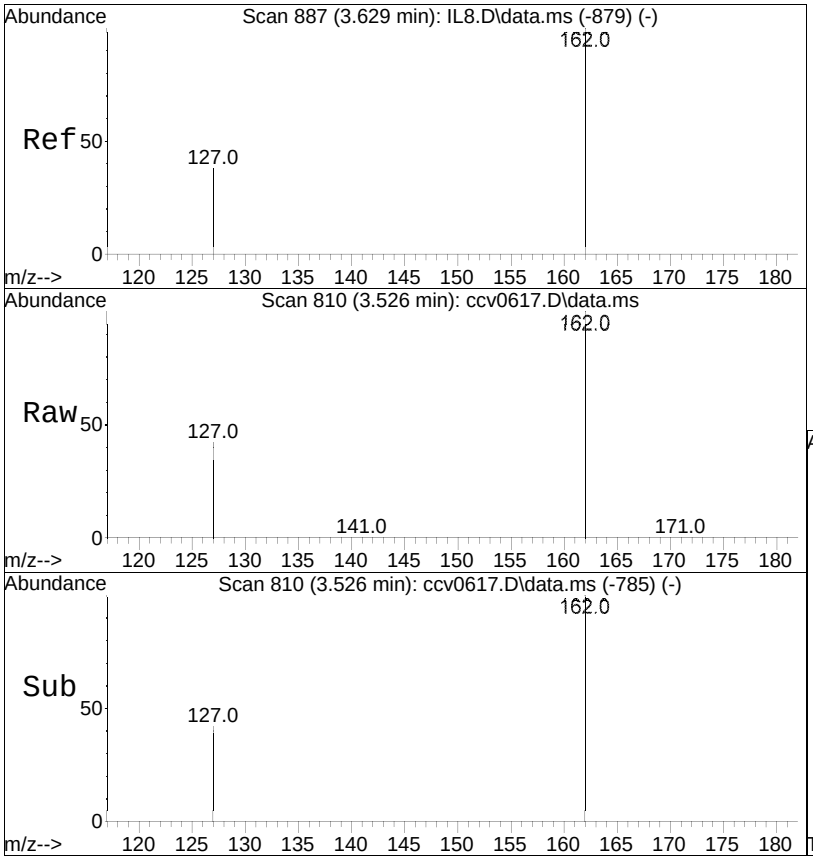


#12
1-Methylnaphthalene
Concen: 945.05 ng/ml
RT: 3.313 min Scan# 744
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:142 Resp: 63799

Ion	Ratio	Lower	Upper
142	100		
141	95.7	76.3	114.5

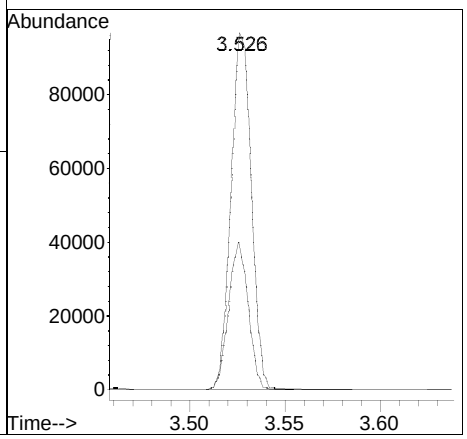


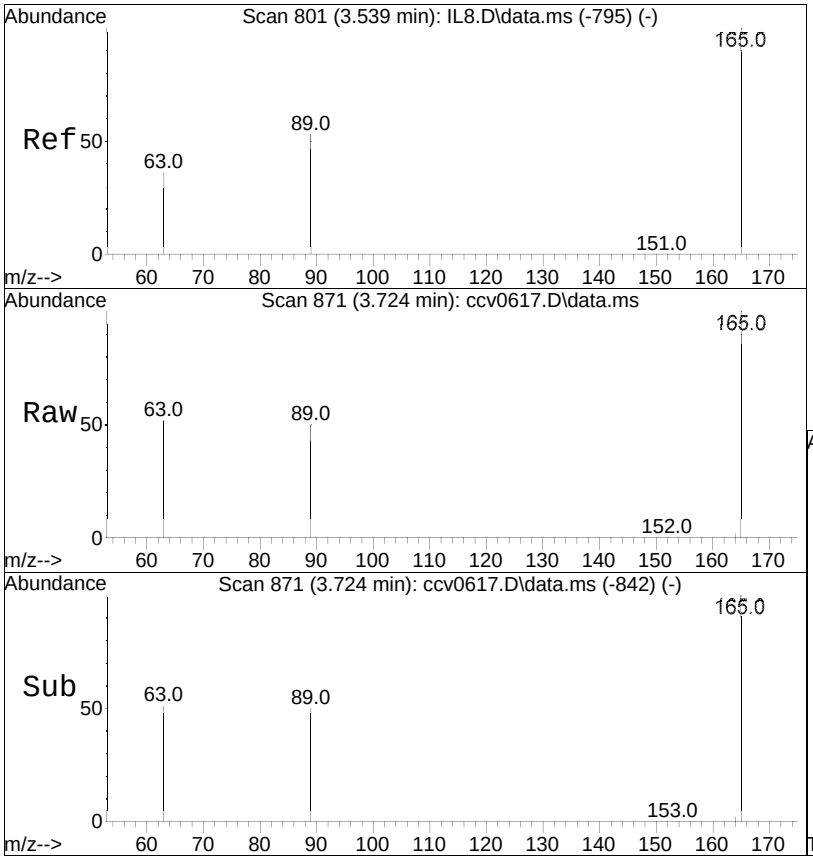


#14
2-Chloronaphthalene
Concen: 964.26 ng/ml
RT: 3.526 min Scan# 810
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:162 Resp: 70688

Ion	Ratio	Lower	Upper
162	100		
127	40.0	32.0	48.0

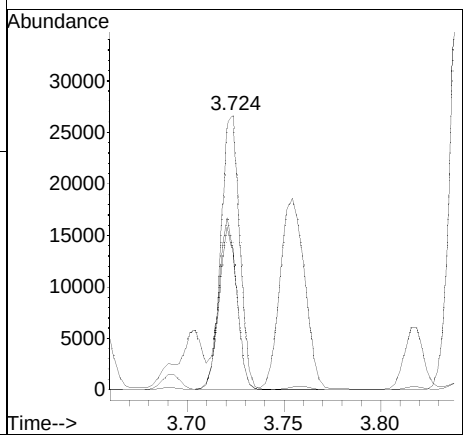


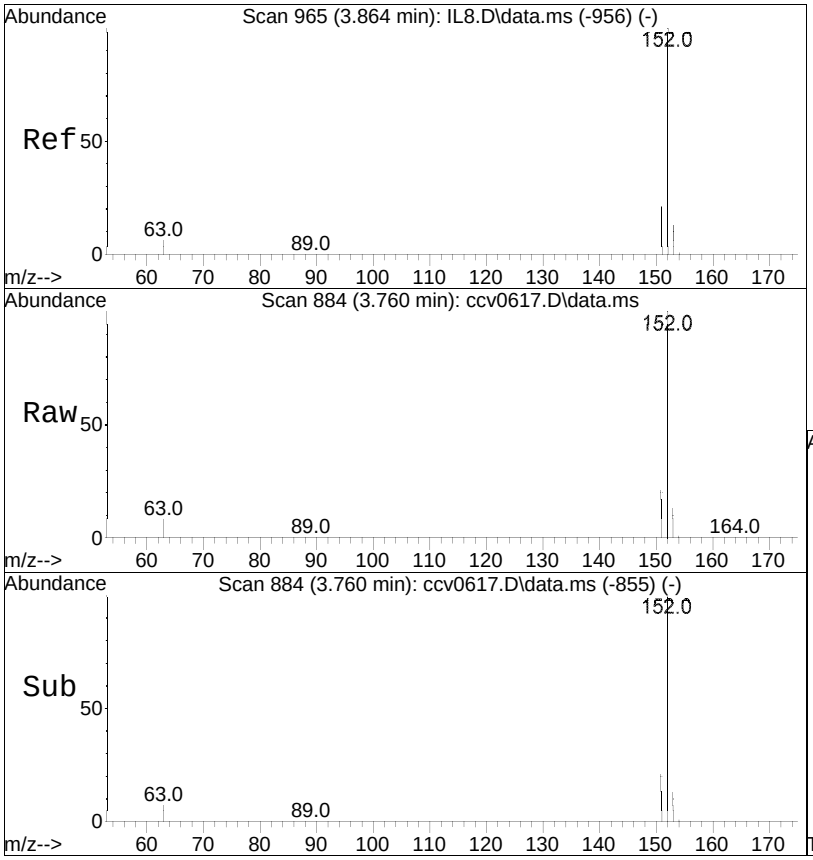


#15
2,6-Dinitrotoluene
Concen: 974.95 ng/ml
RT: 3.724 min Scan# 871
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:165 Resp: 17860

Ion	Ratio	Lower	Upper
165	100		
89	57.2	48.0	72.0
63	59.4	48.2	72.2

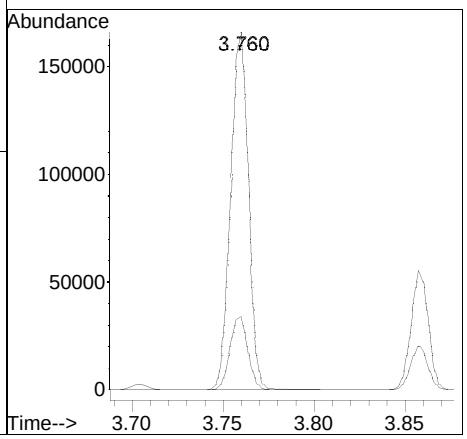


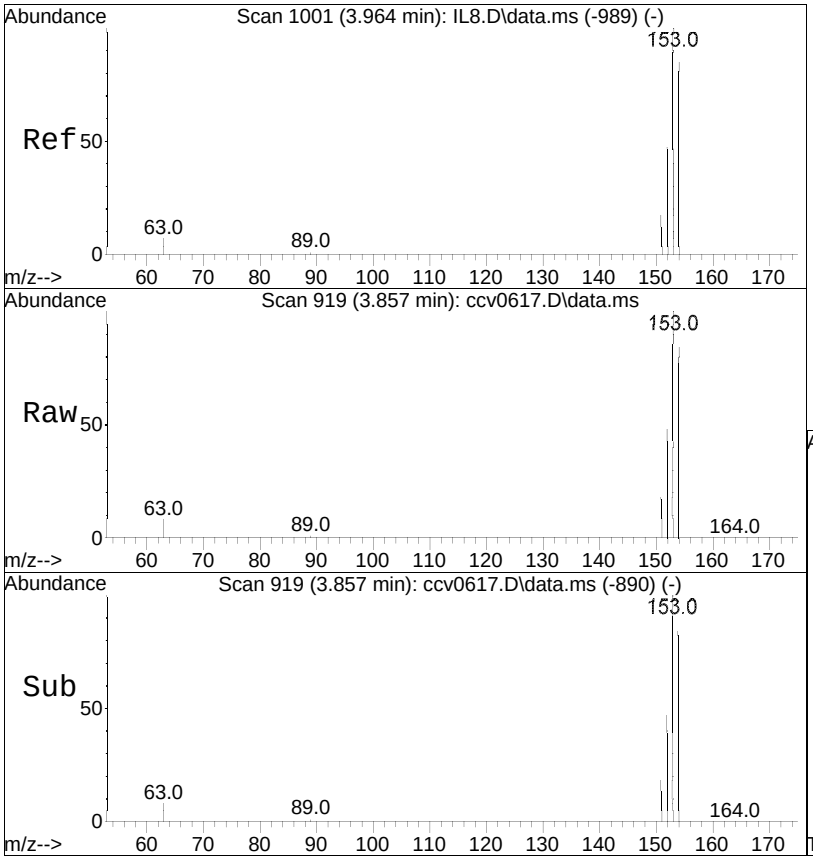


#16
Acenaphthylene
Concen: 1032.63 ng/ml
RT: 3.760 min Scan# 884
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:152 Resp: 111408

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

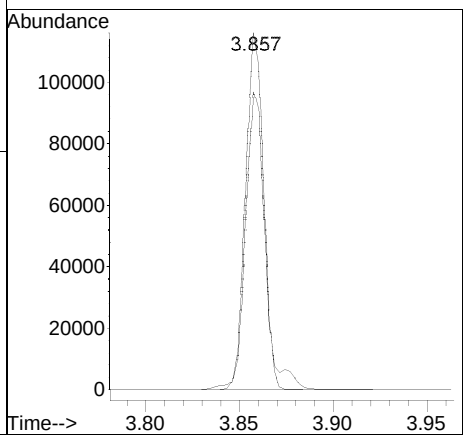


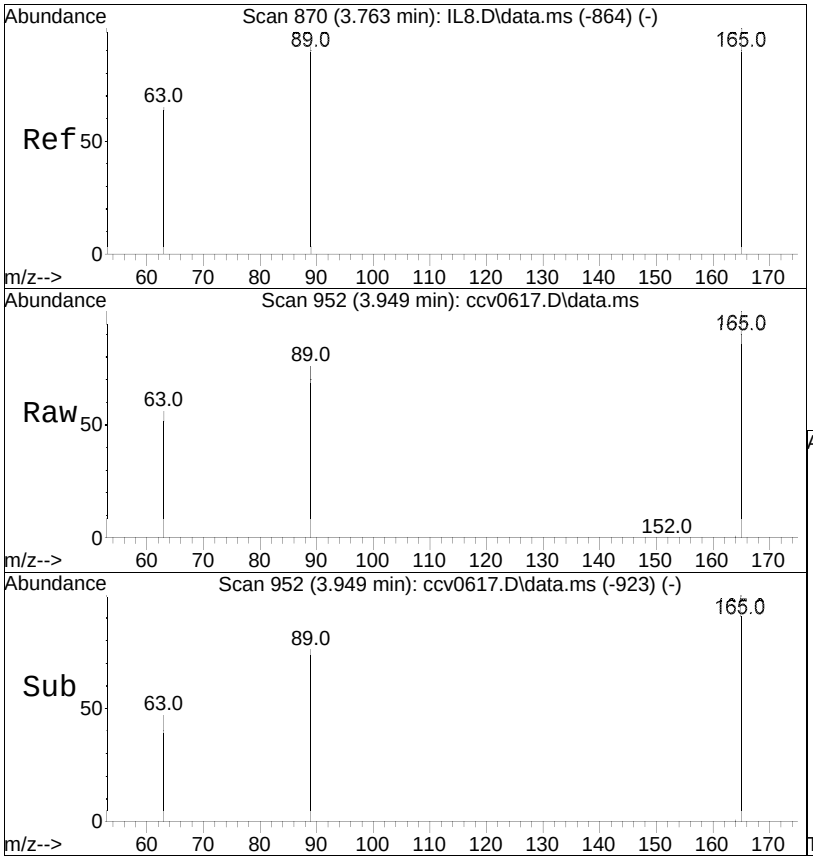


#18
Acenaphthene
Concen: 929.10 ng/ml
RT: 3.857 min Scan# 919
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:153 Resp: 76639

Ion	Ratio	Lower	Upper
153	100		
154	91.1	73.4	110.2

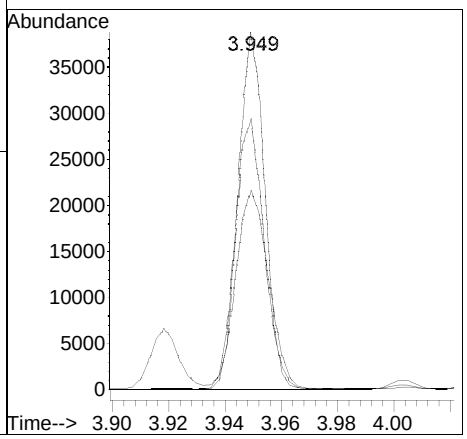


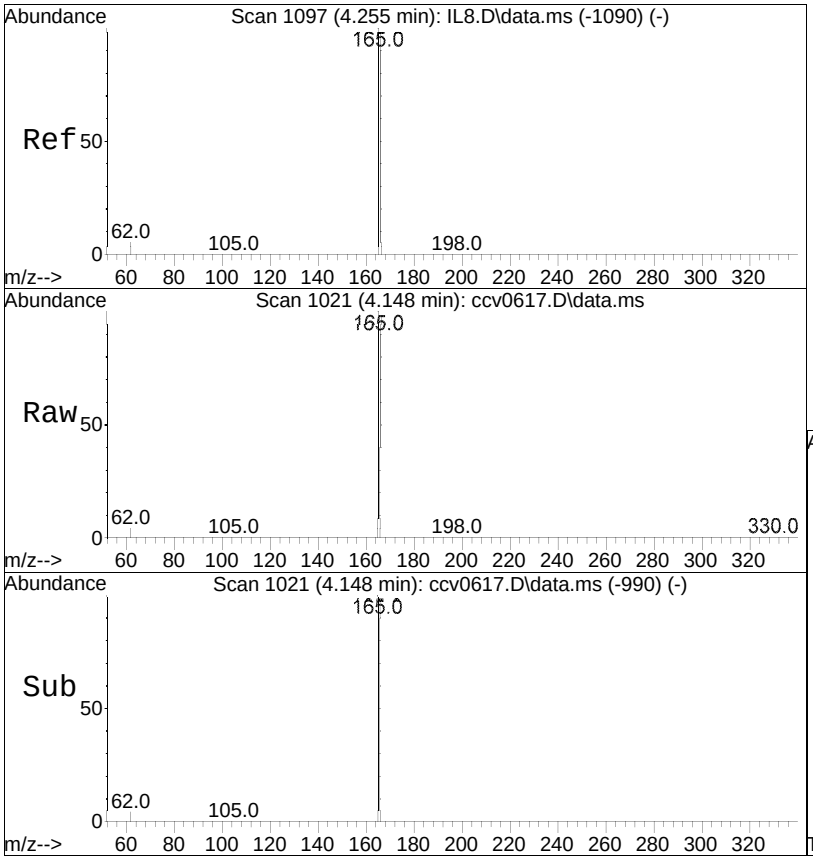


#19
2,4-Dinitrotoluene
Concen: 943.17 ng/ml
RT: 3.949 min Scan# 952
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:165 Resp: 25237

Ion	Ratio	Lower	Upper
165	100		
89	83.5	82.0	123.0
63	68.5	73.0	109.6#

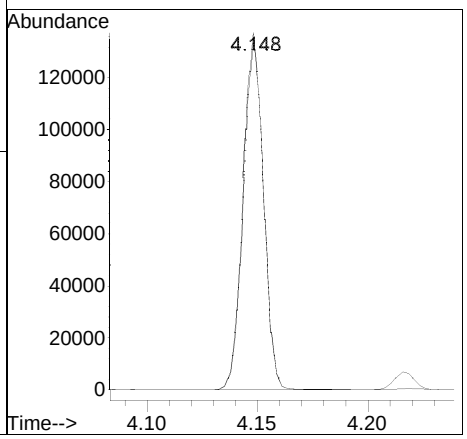


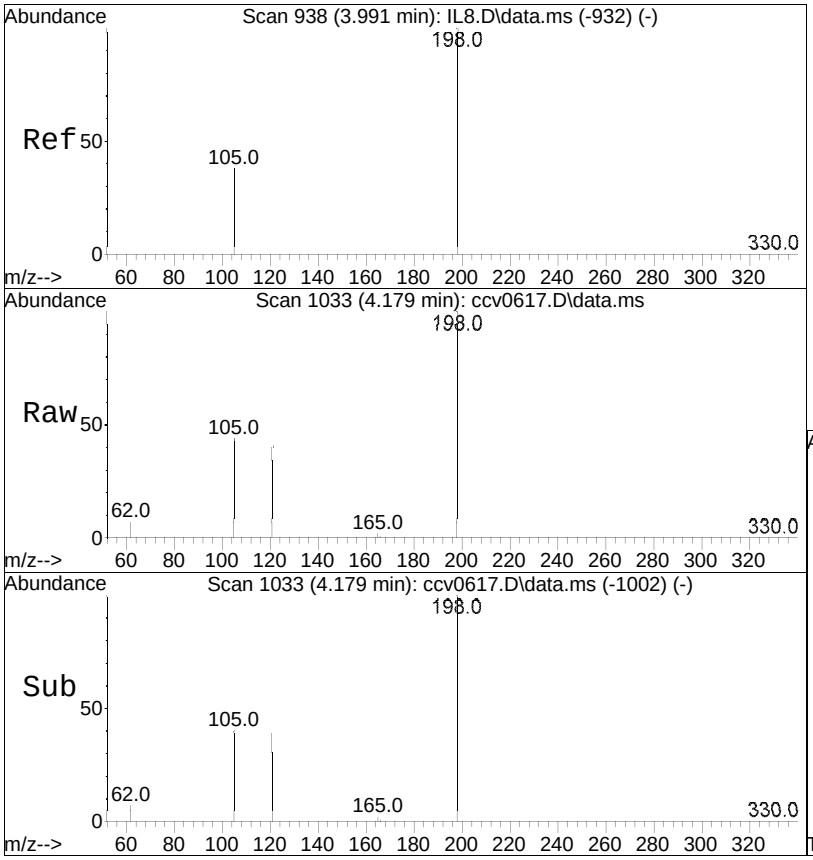


#20
Fluorene
Concen: 961.90 ng/ml
RT: 4.148 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:166 Resp: 85528

Ion	Ratio	Lower	Upper
166	100		
165	102.0	81.9	122.9

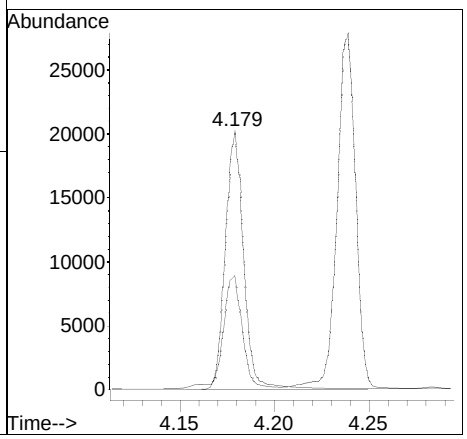


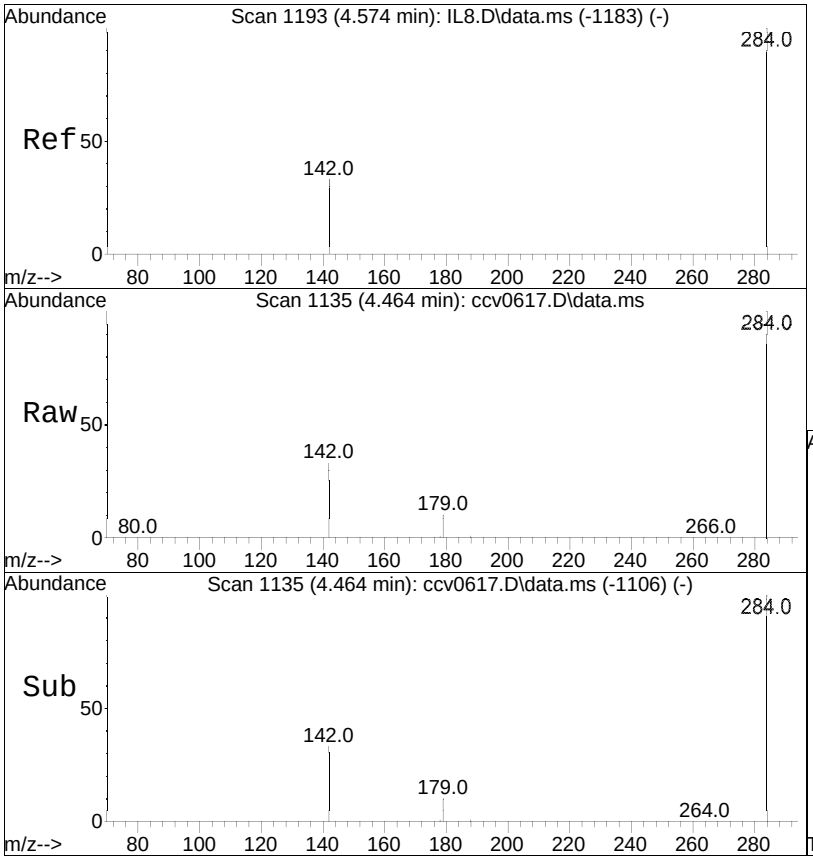


#23
4,6-Dinitro-o-cresol
Concen: 882.94 ng/ml
RT: 4.179 min Scan# 1033
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:198 Resp: 13562

Ion	Ratio	Lower	Upper
198	100		
105	46.2	37.8	56.8

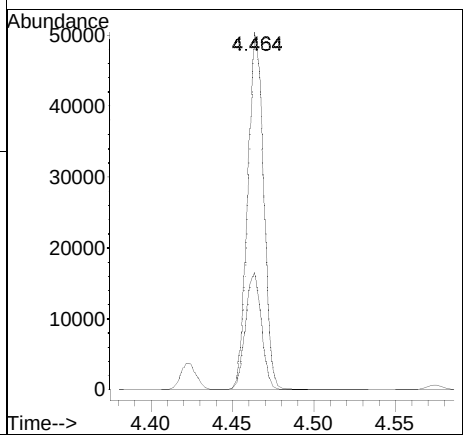


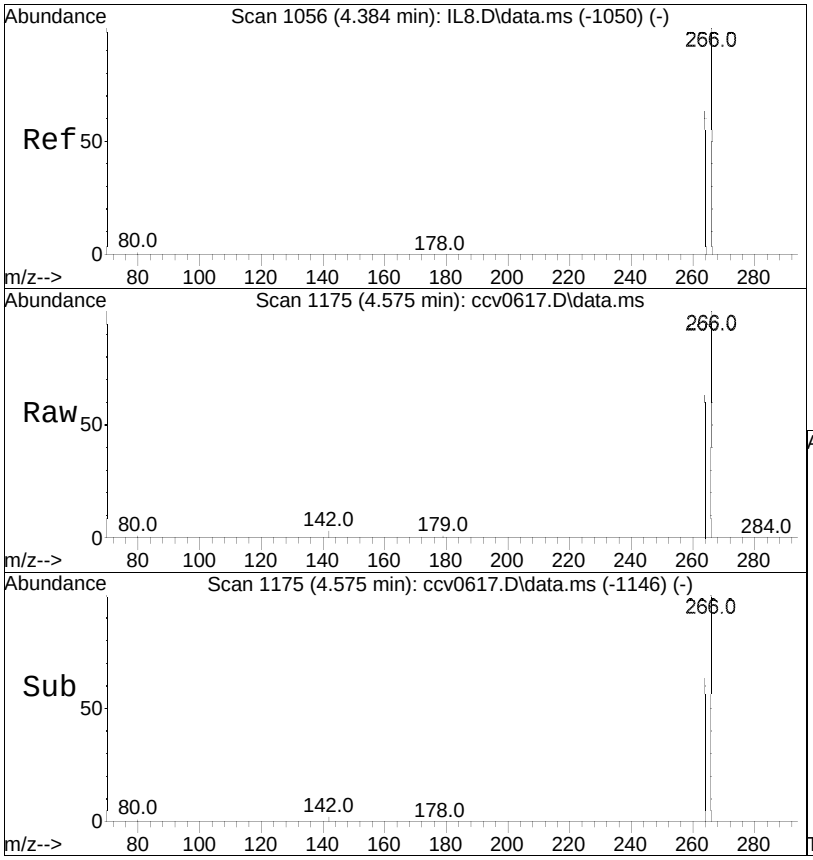


#24
Hexachlorobenzene
Concen: 885.76 ng/ml
RT: 4.464 min Scan# 1135
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:284 Resp: 33517

Ion	Ratio	Lower	Upper
284	100		
142	33.0	26.8	40.2

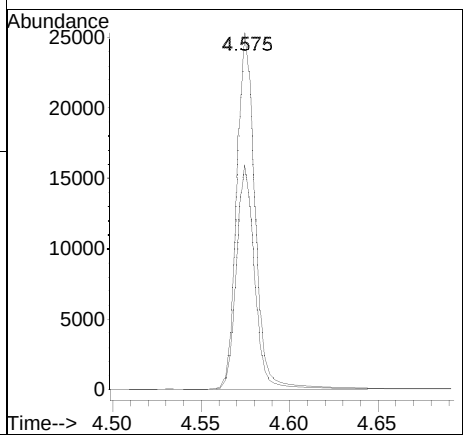


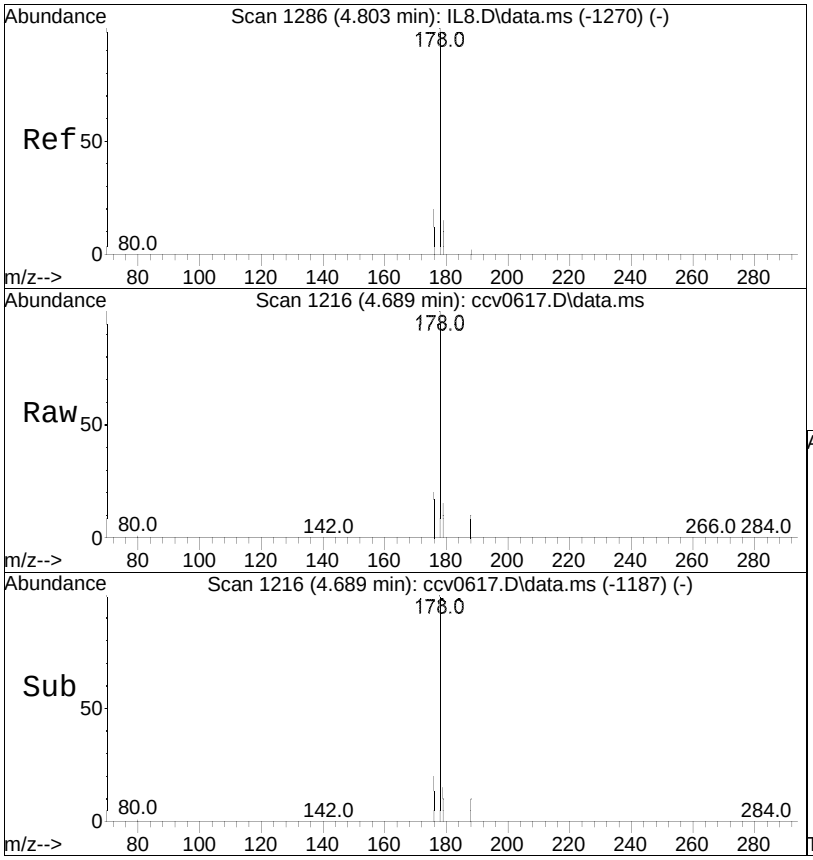


#25
Pentachlorophenol
Concen: 842.94 ng/ml
RT: 4.575 min Scan# 1175
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:266 Resp: 18213

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.2	75.2

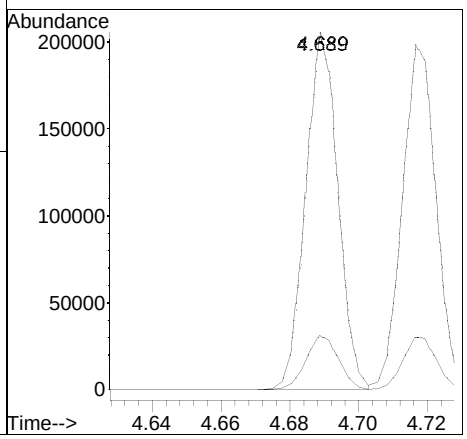


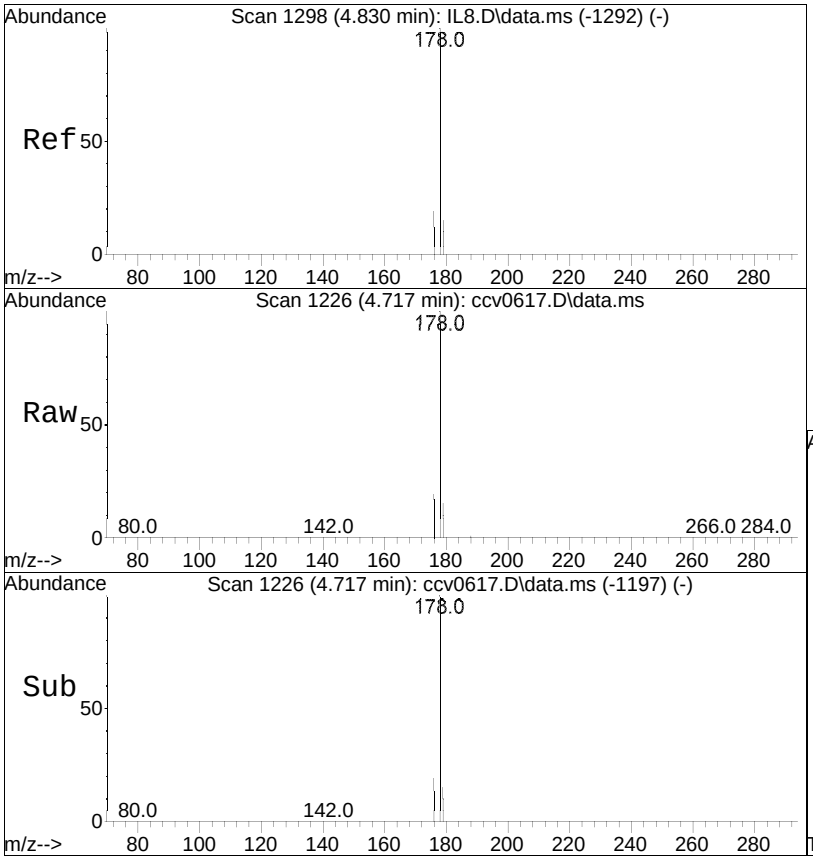


#26
Phenanthrene
Concen: 905.66 ng/ml
RT: 4.689 min Scan# 1216
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:178 Resp: 133734

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

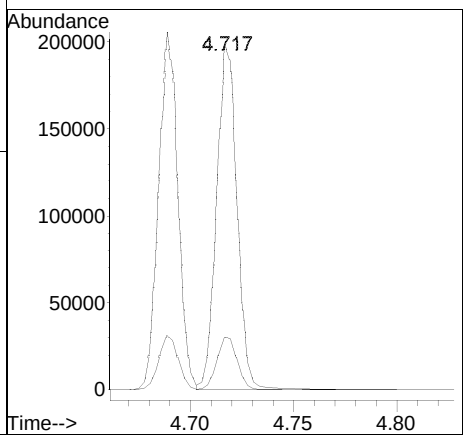


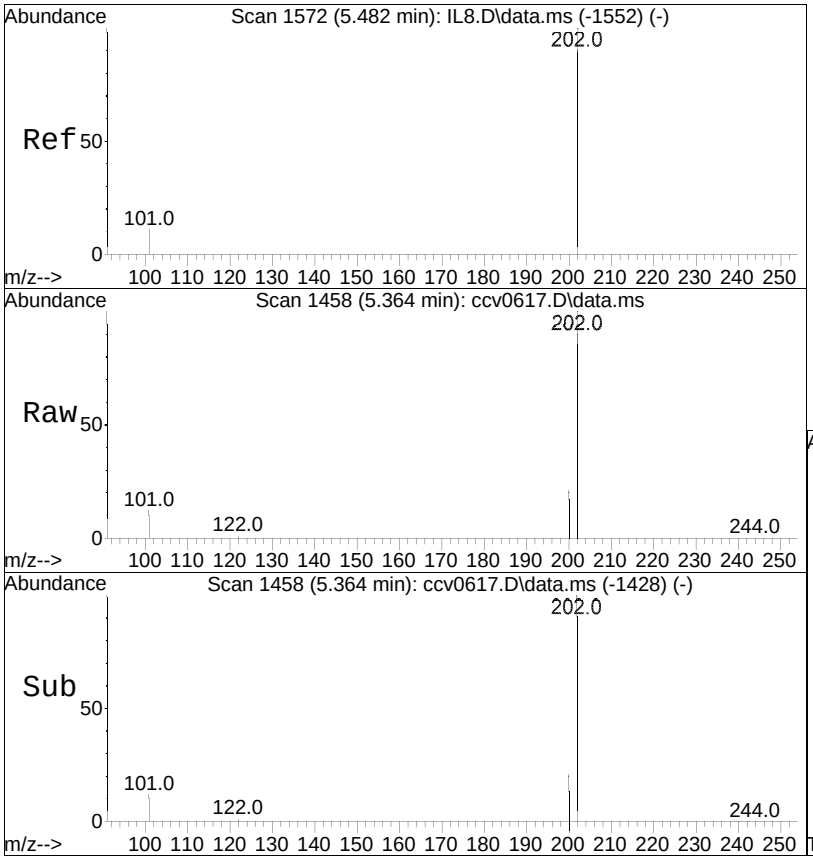


#27
Anthracene
Concen: 930.32 ng/ml
RT: 4.717 min Scan# 1226
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:178 Resp: 135733

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

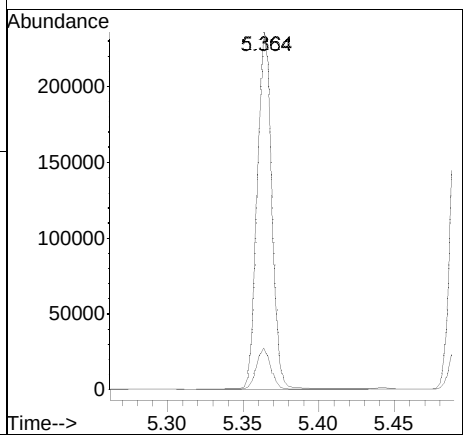


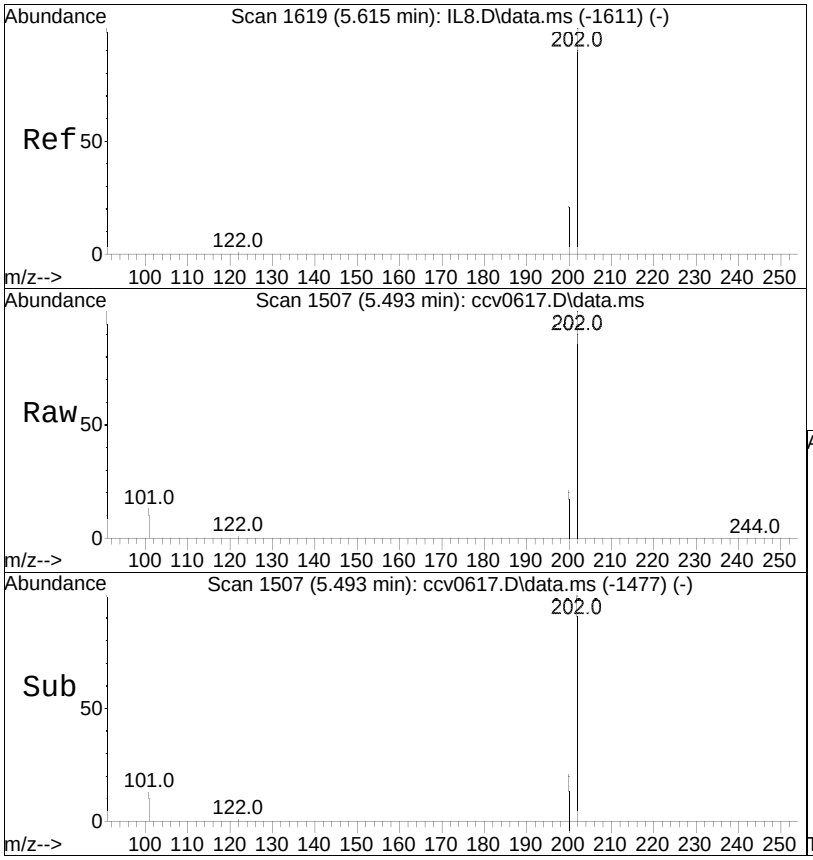


#28
Fluoranthene
Concen: 994.07 ng/ml
RT: 5.364 min Scan# 1458
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:202 Resp: 159199

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.0	13.6

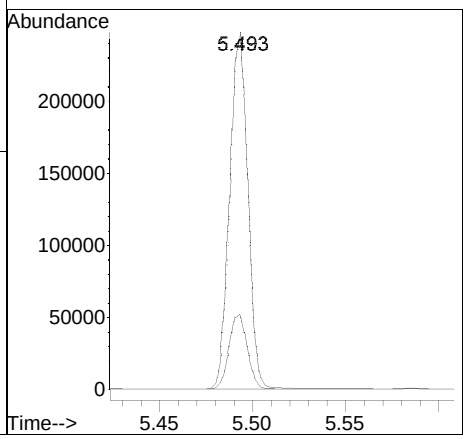


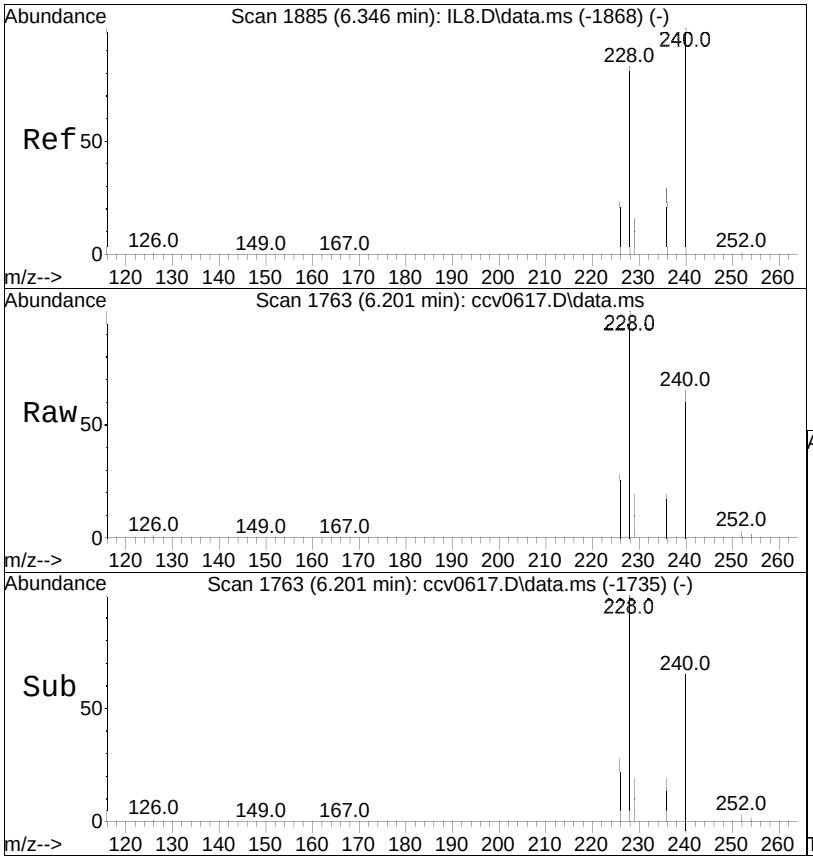


#29
Pyrene
Concen: 1001.14 ng/ml
RT: 5.493 min Scan# 1507
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:202 Resp: 166254

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8

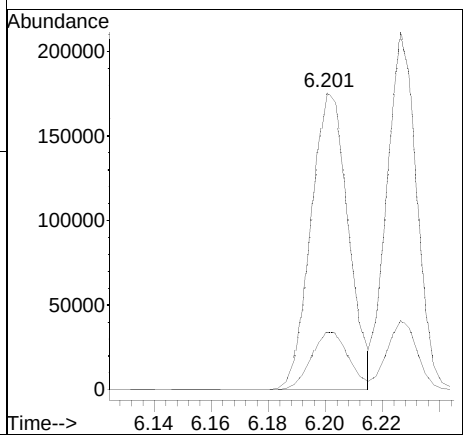


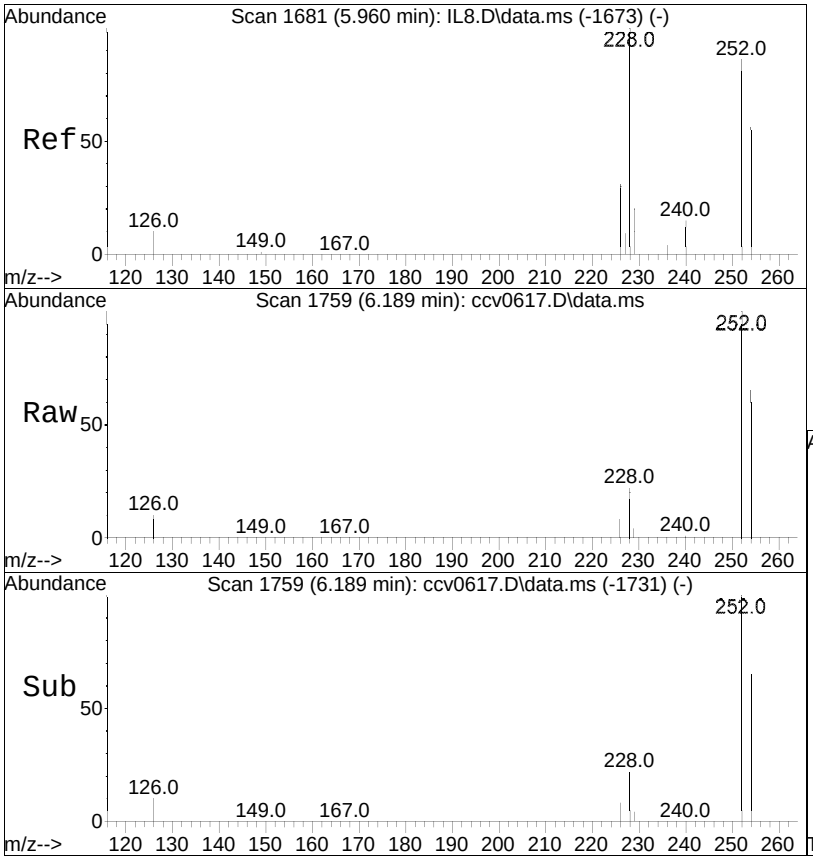


#32
Benzo[a]anthracene
Concen: 866.20 ng/ml
RT: 6.201 min Scan# 1763
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:228 Resp: 159263

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

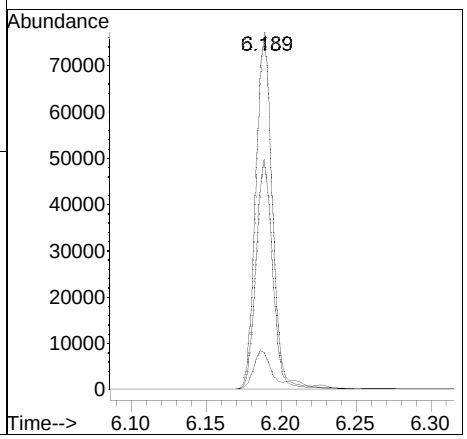


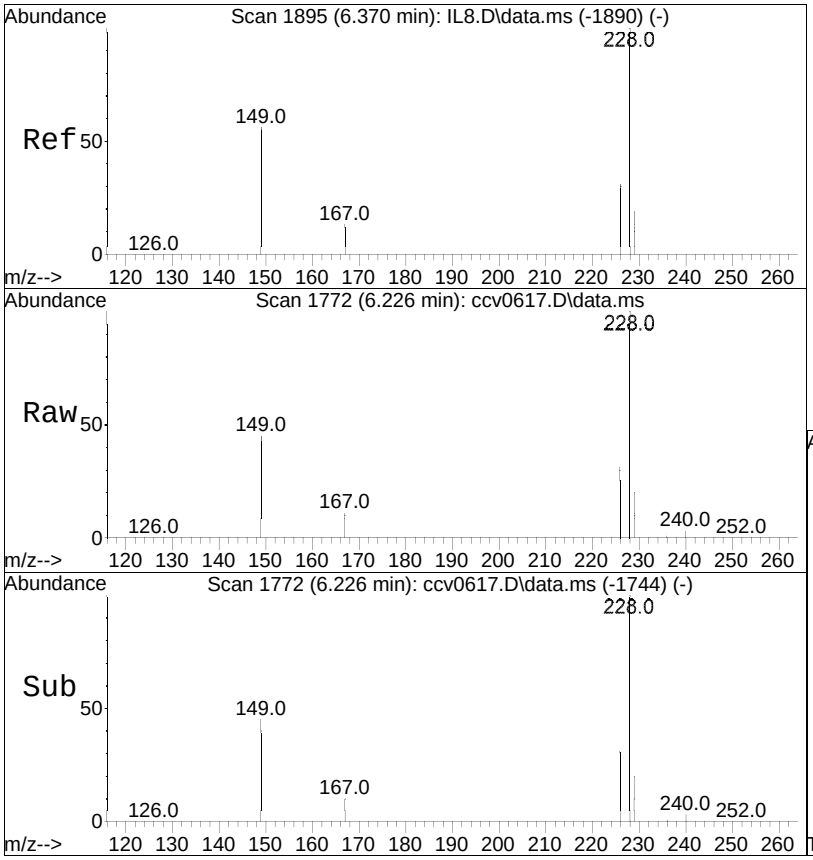


#33
3,3'-Dichlorobenzene
Concen: 915.42 ng/ml
RT: 6.189 min Scan# 1759
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 58379

Ion	Ratio	Lower	Upper
252	100		
126	11.6	9.4	14.2
254	64.5	51.4	77.2

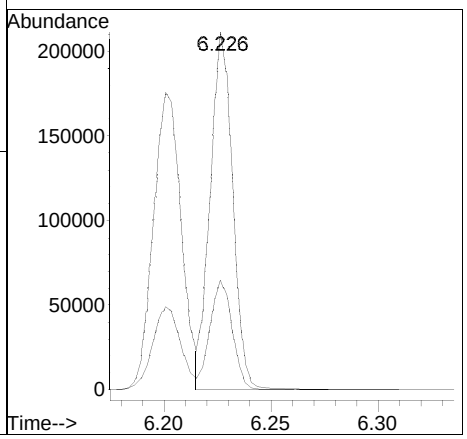


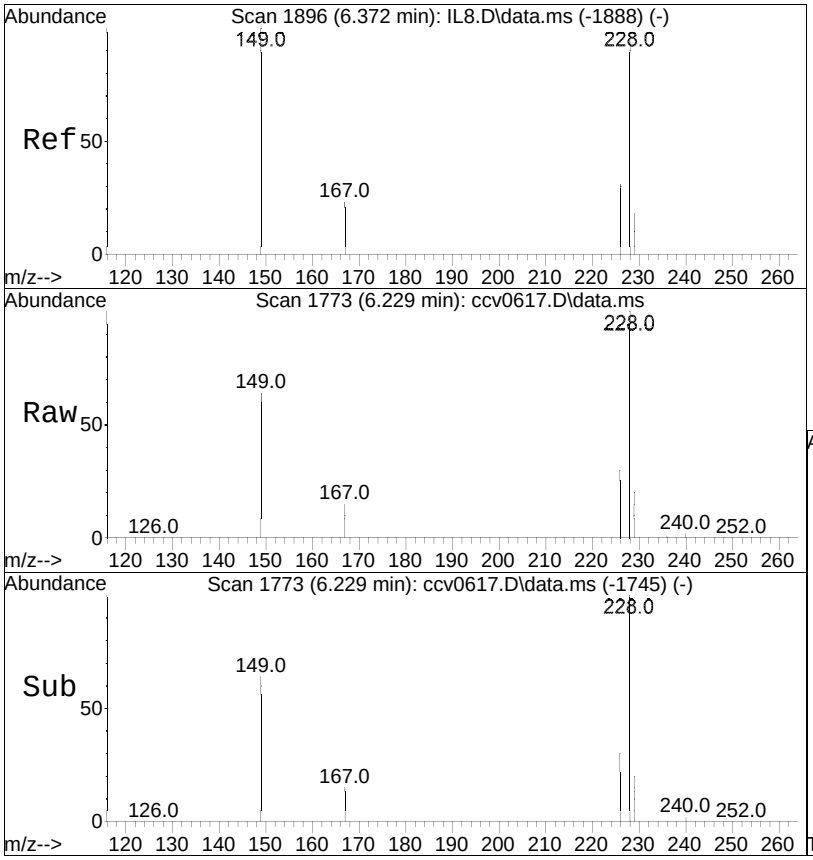


#34
Chrysene
Concen: 882.30 ng/ml
RT: 6.226 min Scan# 1772
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:228 Resp: 153053

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

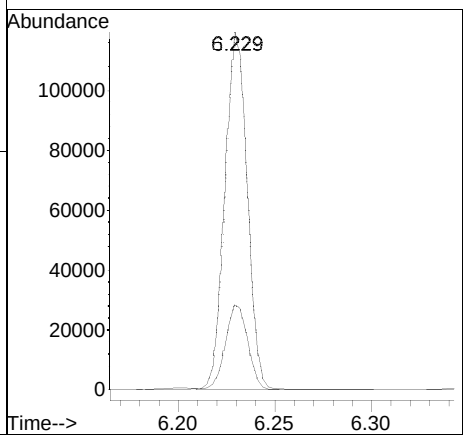


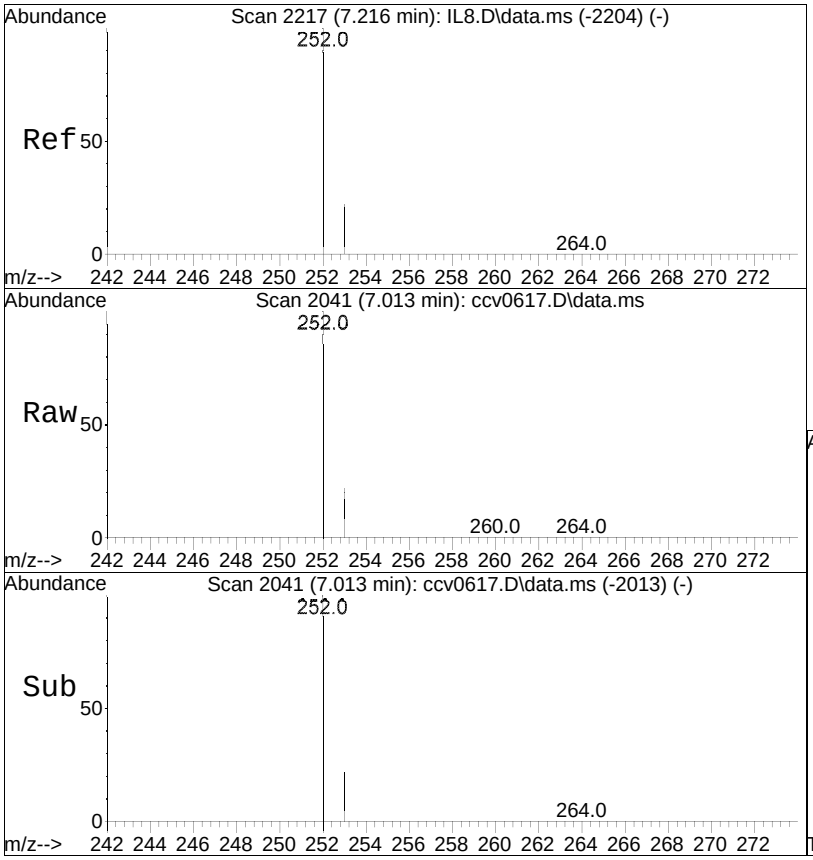


#35
Bis(2-ethylhexyl)phthalate
Concen: 813.73 ng/ml
RT: 6.229 min Scan# 1773
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:149 Resp: 94781

Ion	Ratio	Lower	Upper
149	100		
167	24.2	19.2	28.8

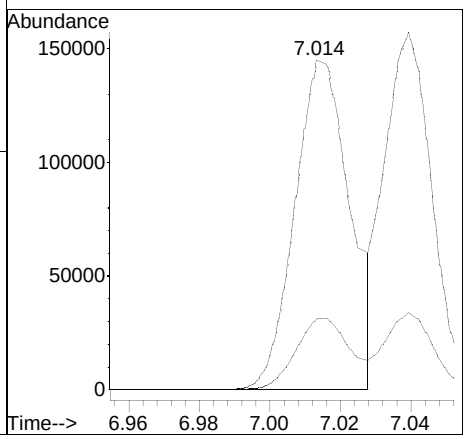


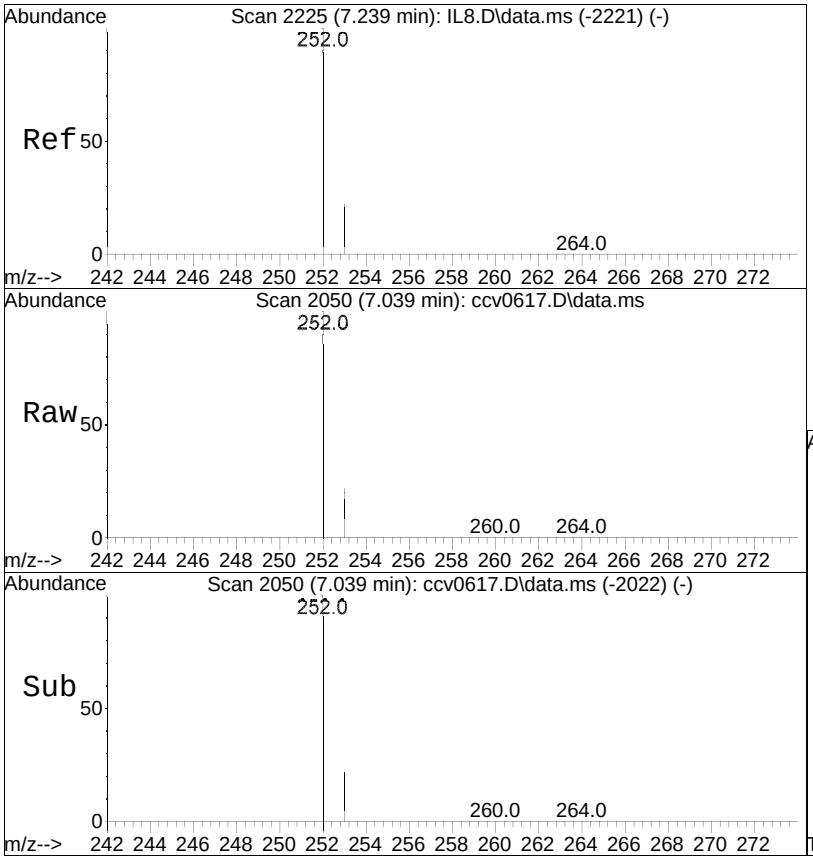


#37
Benzo[b]fluoranthene
Concen: 951.73 ng/ml
RT: 7.013 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 157684

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

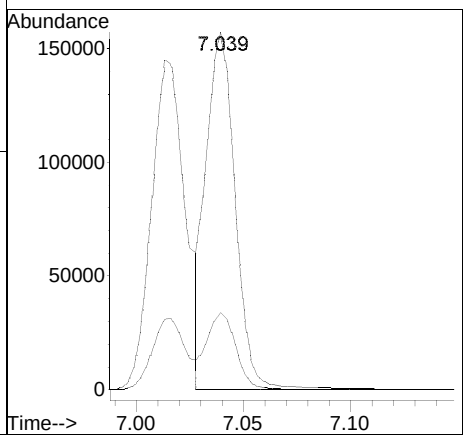


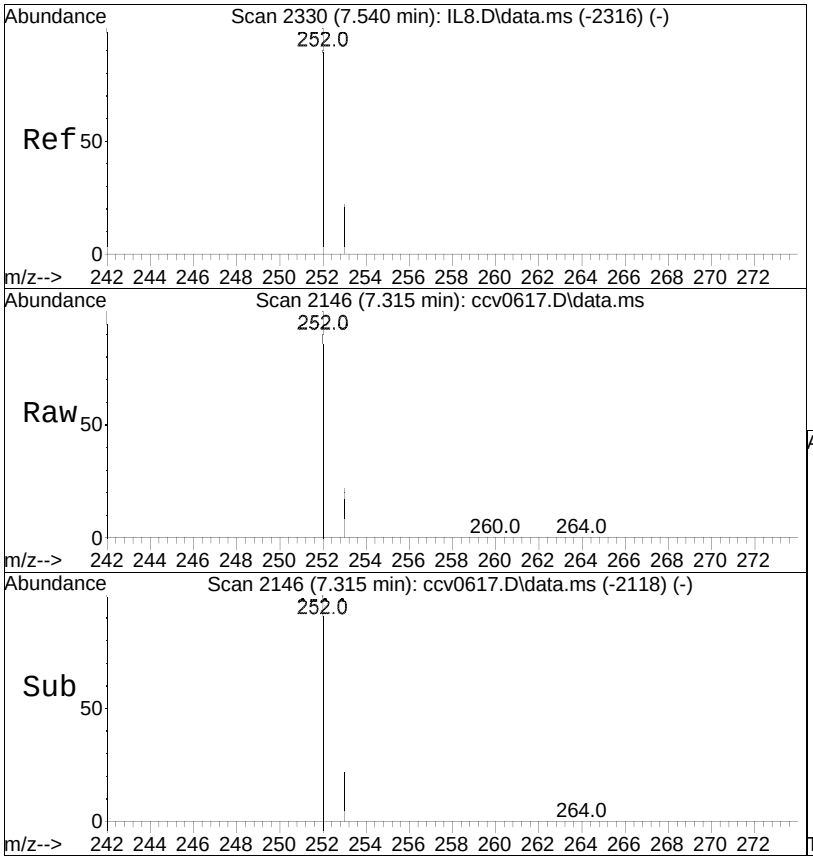


#38
Benzo[k]fluoranthene
Concen: 932.27 ng/ml
RT: 7.039 min Scan# 2050
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 147048

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

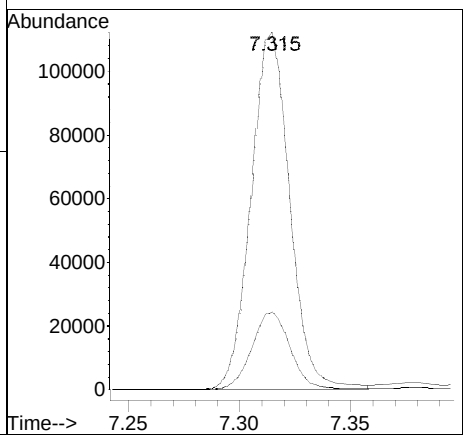


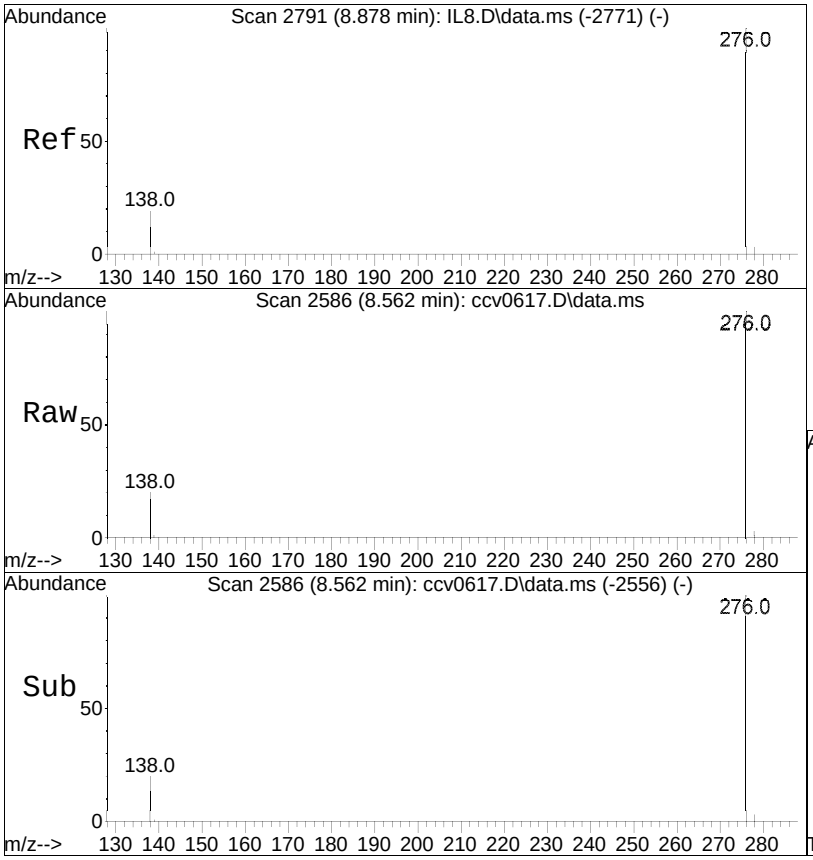


#39
Benzo[a]pyrene
Concen: 983.98 ng/ml
RT: 7.315 min Scan# 2146
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 134388

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

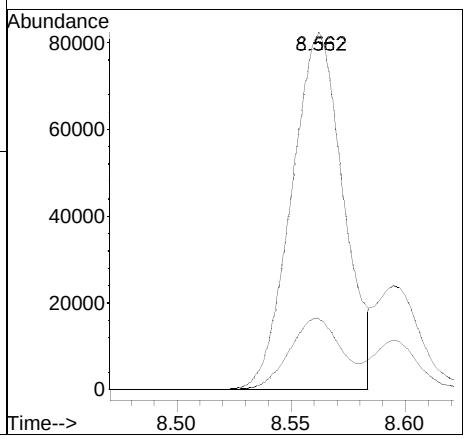


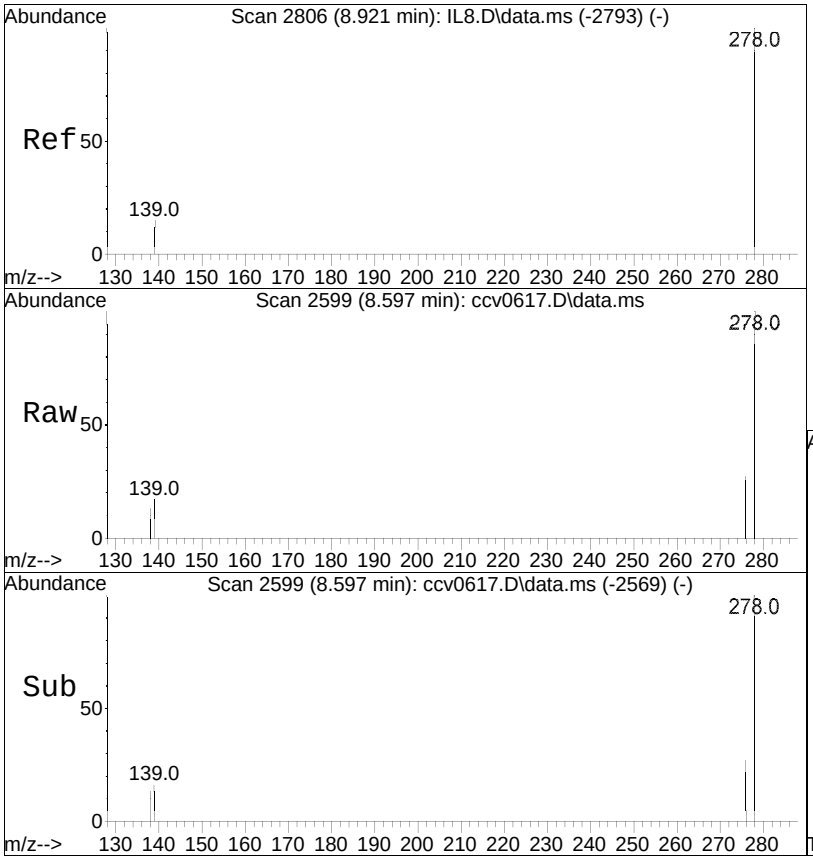


#40
Indeno[1,2,3-cd]pyrene
Concen: 1003.83 ng/ml
RT: 8.562 min Scan# 2586
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:276 Resp: 129117

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

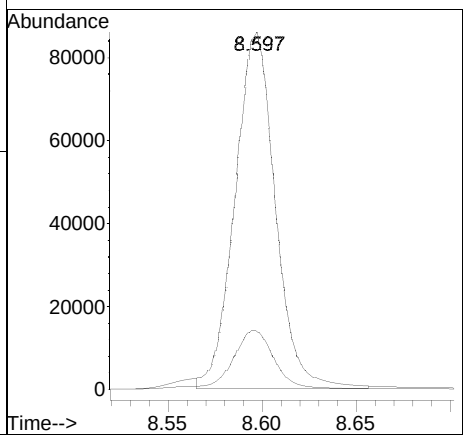


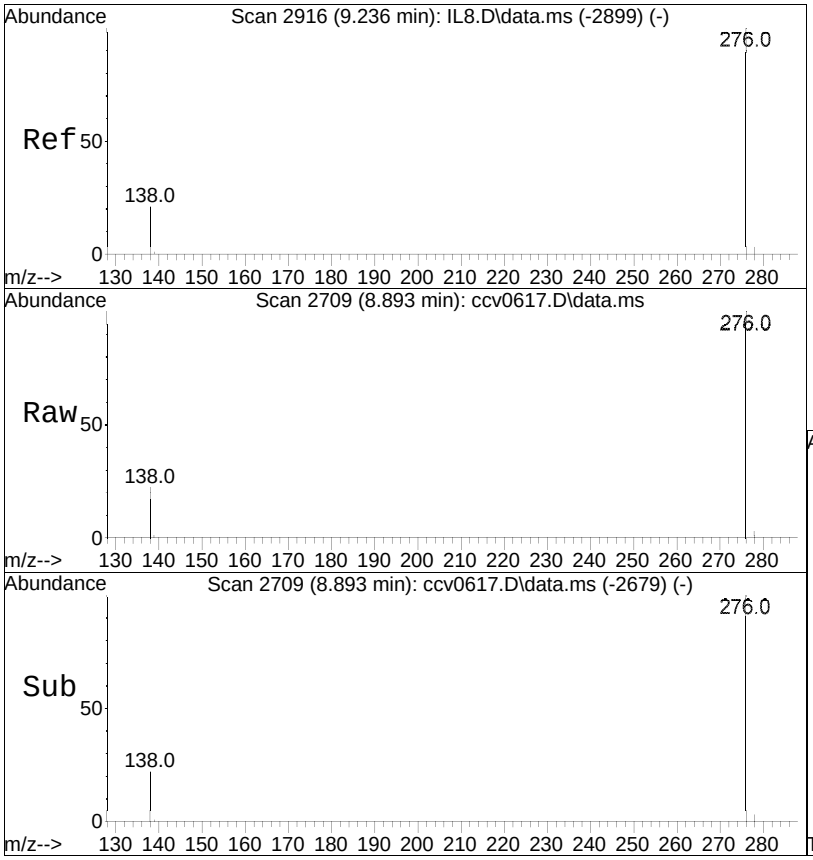


#41
Dibenzo[a,h]anthracene
Concen: 1036.11 ng/ml M6
RT: 8.597 min Scan# 2599
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:278 Resp: 127615

Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.0	21.0

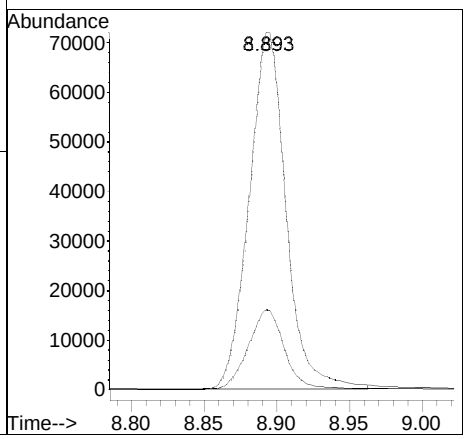




#42
Benzo[g,h,i]perylene
Concen: 960.59 ng/ml
RT: 8.893 min Scan# 2709
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:276 Resp: 125703

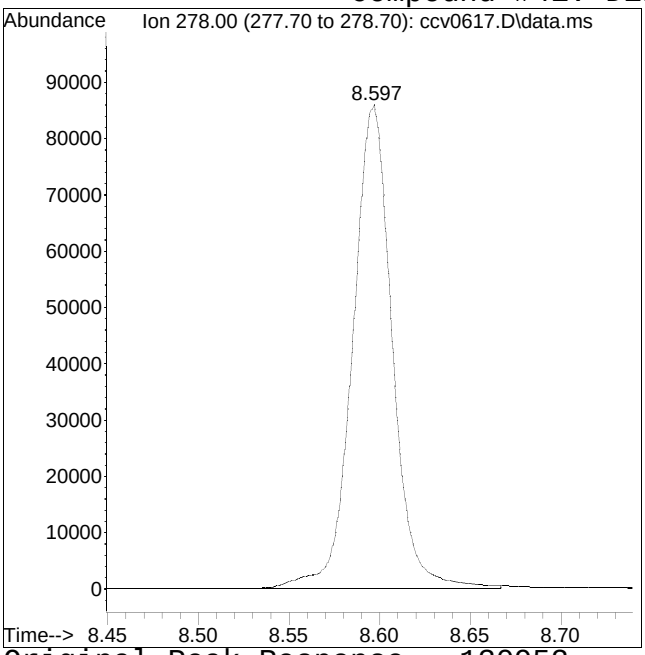
Ion	Ratio	Lower	Upper
276	100		
138	22.2	17.8	26.8



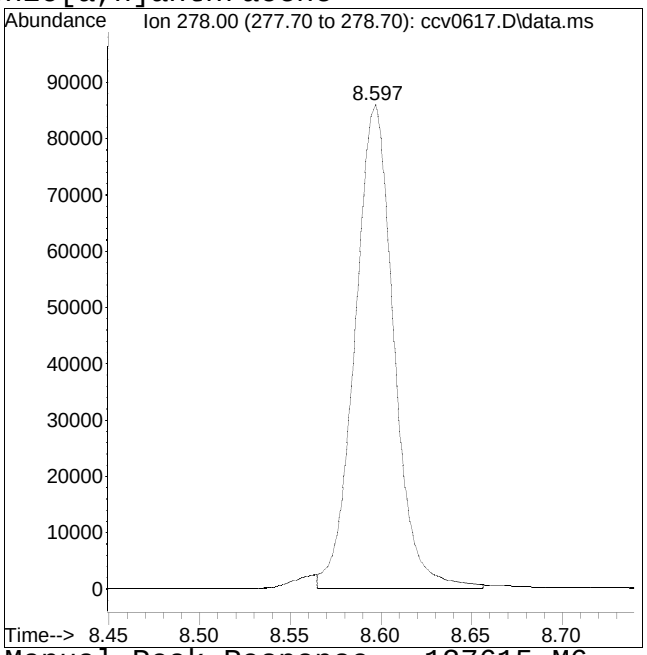
Manual Integration Report

Data Path : I:\8270SIM\sv120\240617RVTQMethod : SIM-RVT_240521_sv120.M
Data File : ccv0617.D Operator : SV120:ah
Date Inj'd : 6/17/2024 7:04 am Instrument : SV120
Sample : WG1935125-3,32,, ICV10475 Quant Date : 6/17/2024 7:21 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 130952



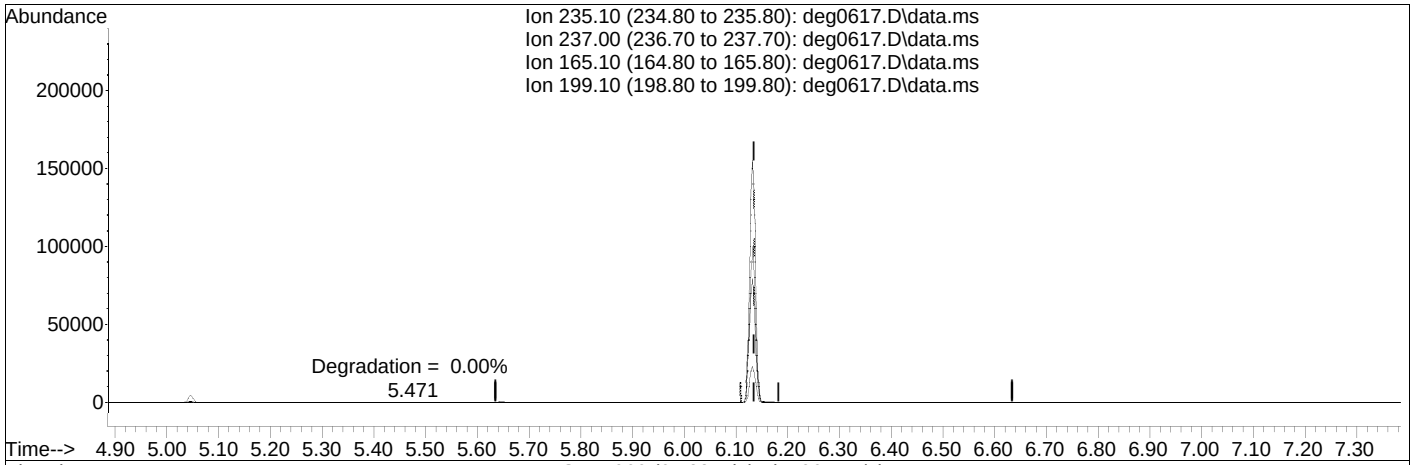
Manual Peak Response = 127615 M6

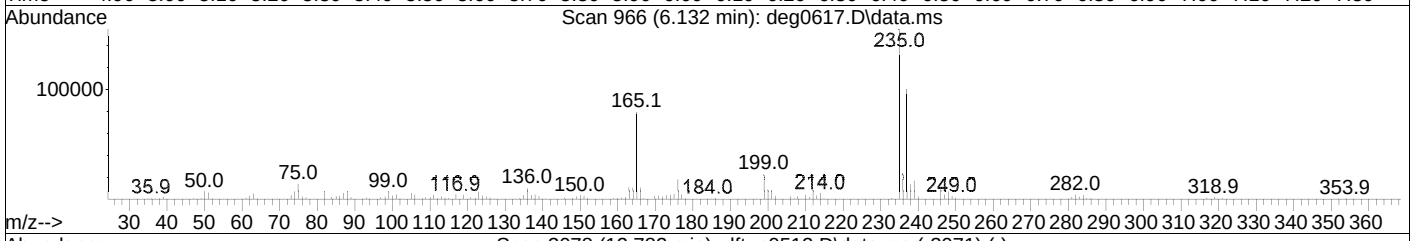
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

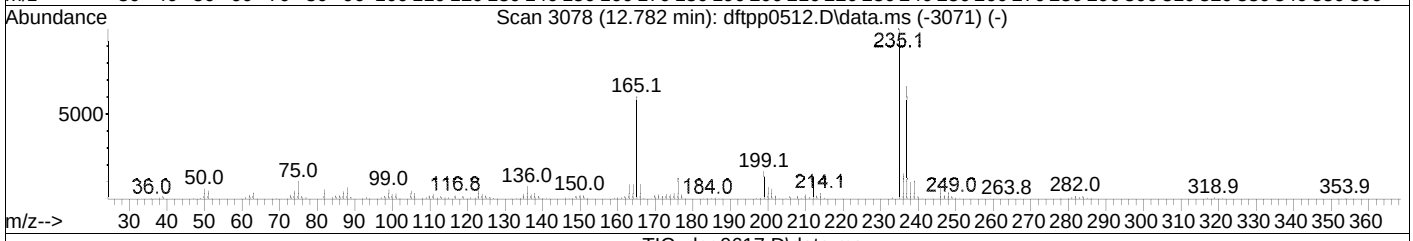
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-2,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 17 07:01:33 2024
Quant Method : I:\8270SIM\sv120\240617RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0617.D\data.ms

(6) ddt (T)

6.132min (-0.003) 19.28

response 117533

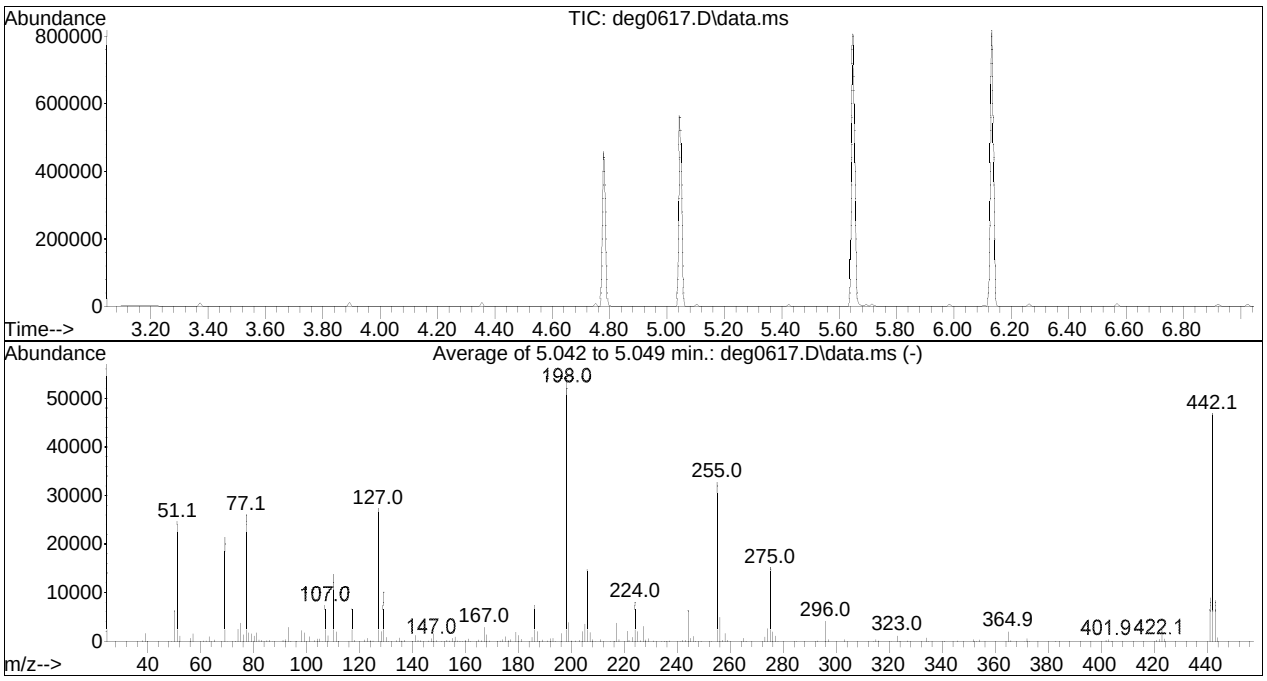
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.57
165.10	53.30	51.46
199.10	17.10	14.89

DFTPP

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-1,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 17 07:21:07 2024



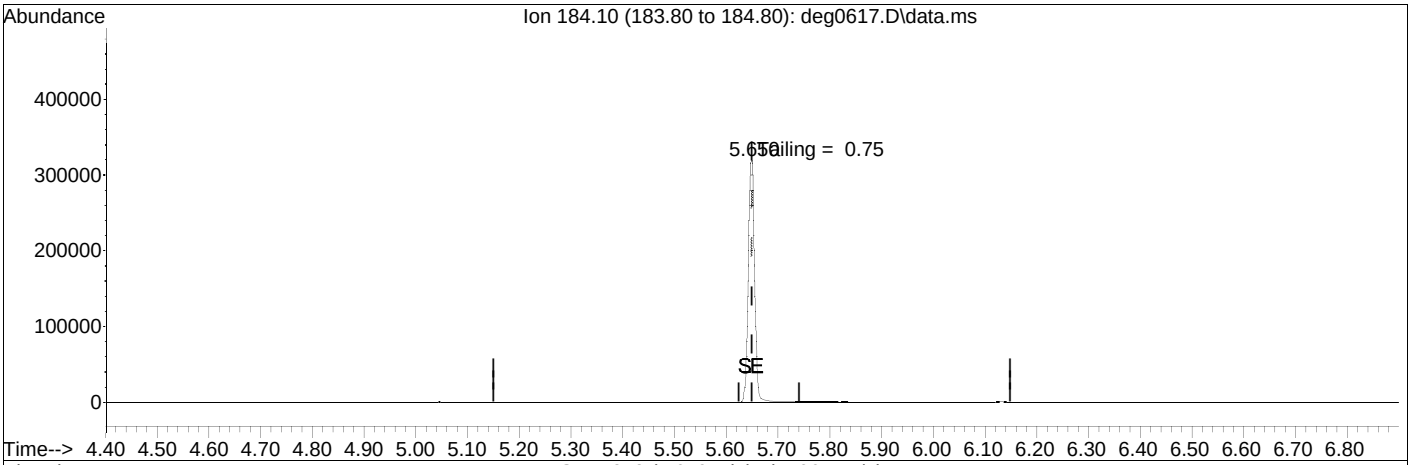
Spectrum Information: Average of 5.042 to 5.049 min.

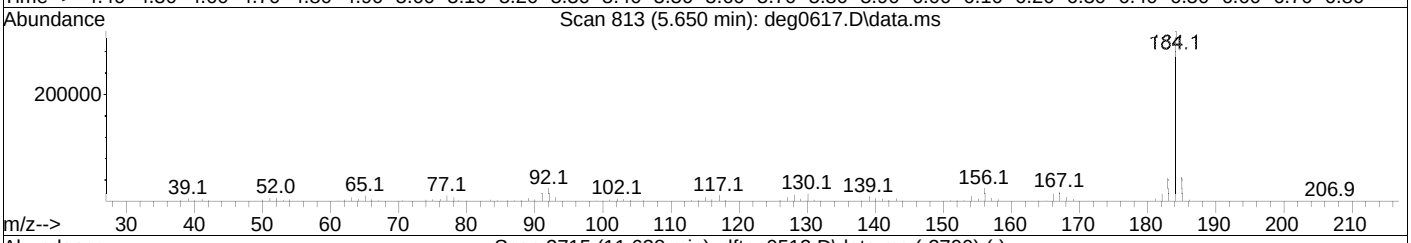
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.2	24528	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	21293	PASS
70	69	0.00	2	0.2	51	PASS
127	198	10	80	50.3	27309	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	54248	PASS
199	198	5	9	7.0	3815	PASS
275	198	10	60	27.8	15089	PASS
365	198	1	100	3.8	2049	PASS
441	442	0.01	24	19.1	8970	PASS
442	198	50	100	86.4	46856	PASS
443	442	15	24	18.1	8504	PASS

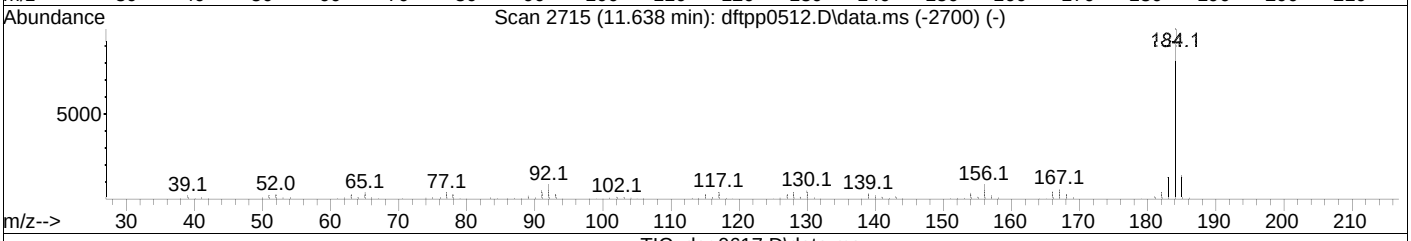
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-4,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 17 07:01:33 2024
Quant Method : I:\8270SIM\sv120\240617RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0617.D\data.ms

(3) benzidine (T)

5.650min (+ 0.000) 25.28

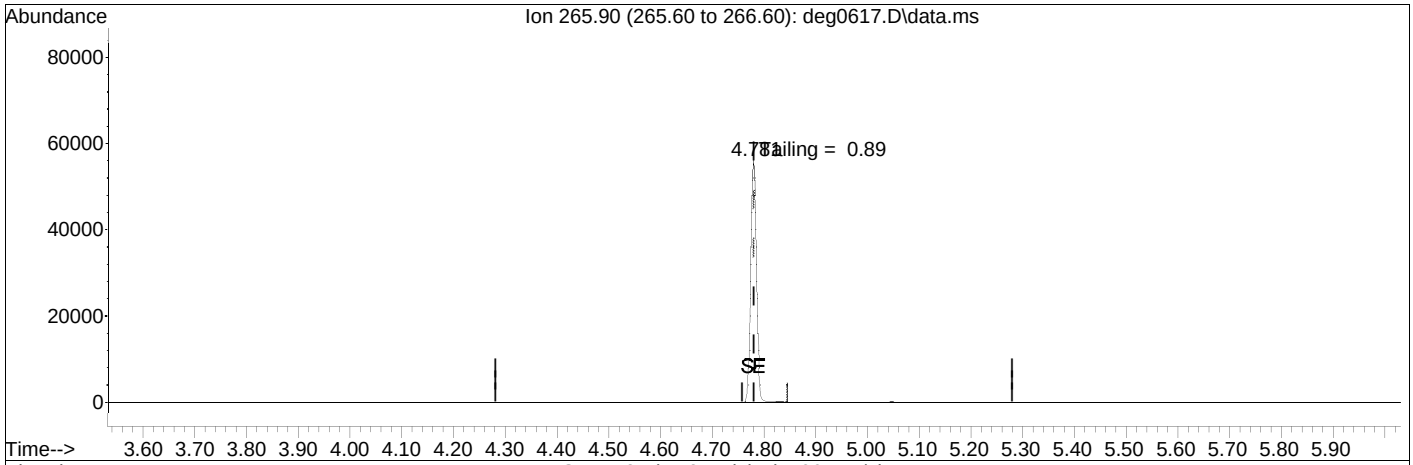
response 257344

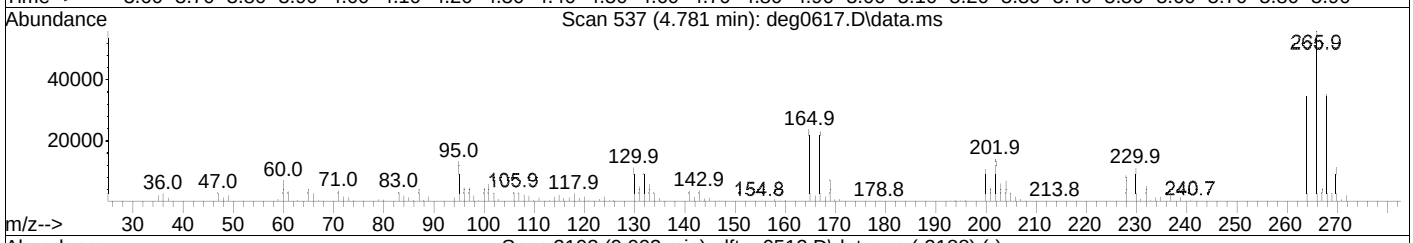
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

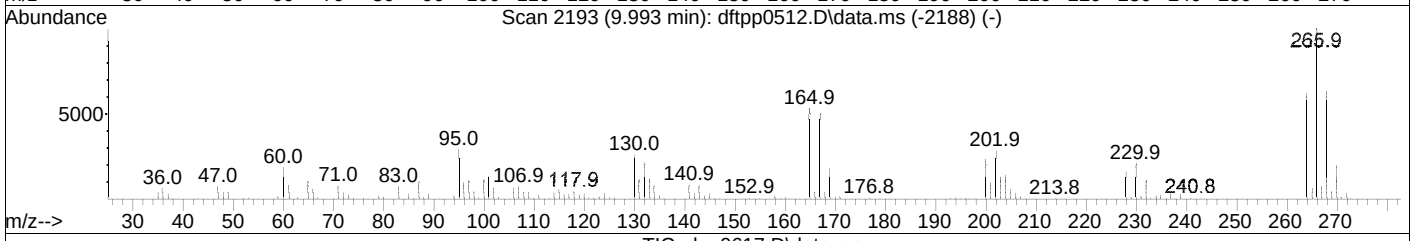
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-5,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 17 07:01:33 2024
Quant Method : I:\8270SIM\sv120\240617RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0617.D\data.ms

(1) pentachlorophenol (T)

4.781min (-0.000) 19.77

response 41520

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-1.D
Acq On : 17 Jun 2024 09:42 am
Operator : SV120:dv
Sample : WG1934774-1,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 13:54:26 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	104981	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 96.66%			
8) Naphthalene-d8	2.863	136	387609	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 95.30%			
17) Acenaphthene-d10	3.836	164	220102	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 91.55%			
22) Phenanthrene-d10	4.673	188	482812	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 91.93%			
31) Chrysene-d12	6.204	240	453964	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 94.86%			
36) Perylene-d12	7.370	264	466803	4000.000	ng/ml	-0.01
Standard Area 1 = 501063			Recovery = 93.16%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	37275	1194.652	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 59.73%			
3) Phenol-d6	2.024	99	33725	899.195	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.96%			
7) Nitrobenzene-d5	2.486	82	28284	846.410	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.64%			
13) 2-Fluorobiphenyl	3.459	172	63872	774.979	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.50%			
21) 2,4,6-Tribromophenol	4.279	330	24845	1659.524	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 82.98%			
30) 4-Terphenyl-d14	5.582	244	98019	997.788	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.89%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-1.D
Acq On : 17 Jun 2024 09:42 am
Operator : SV120:dv
Sample : WG1934774-1,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 13:54:26 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

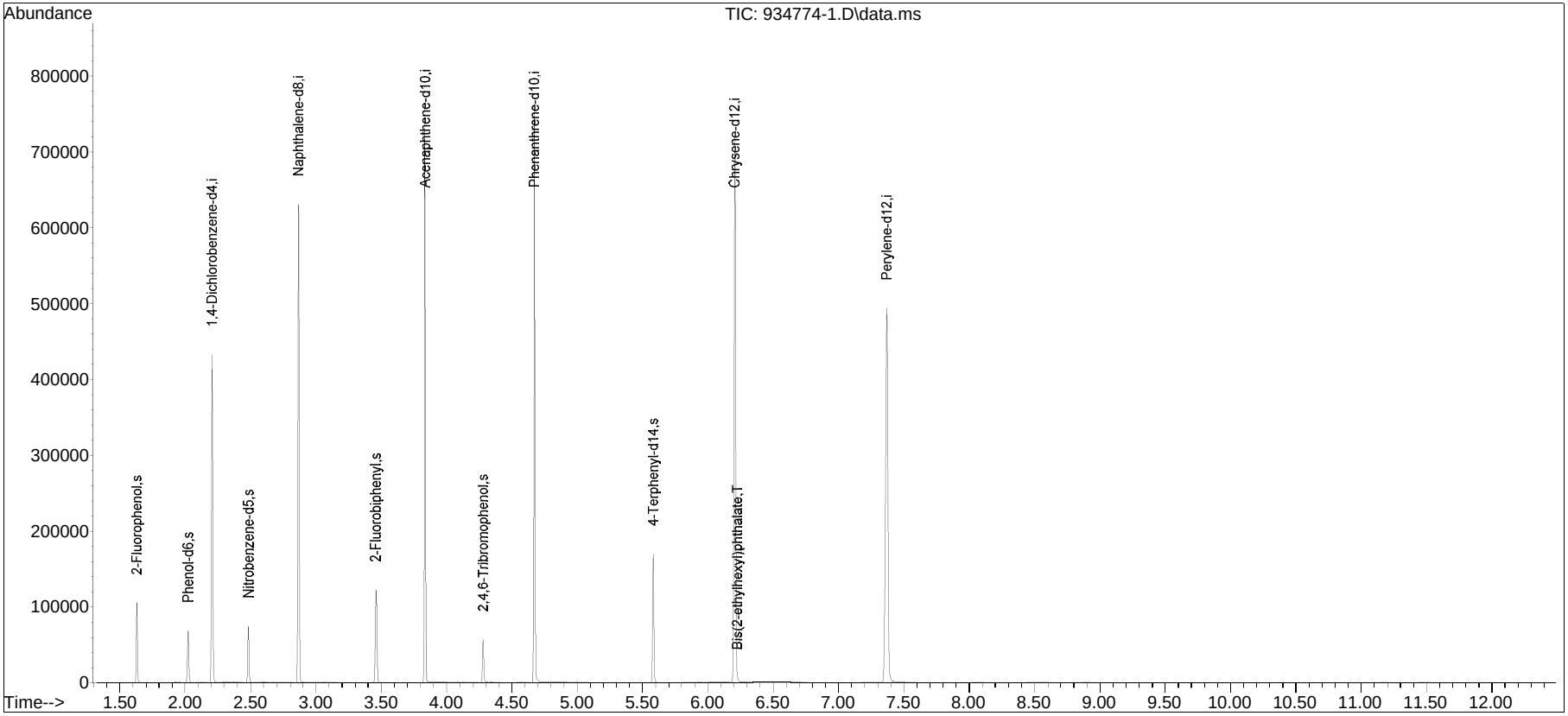
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-1.D
Acq On : 17 Jun 2024 09:42 am
Operator : SV120:dv
Sample : WG1934774-1,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 13:54:26 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240617RVT	Method	: SIM-RVT_240521_sv120.M
Data File	: 934774-1.D	Operator	: SV120:dv
Date Inj'd	: 6/17/2024 9:42 am	Instrument	: SV120
Sample	: WG1934774-1,32,,ah	Quant Date	: 6/17/2024 9:55 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-2.D
Acq On : 17 Jun 2024 09:10 am
Operator : SV120:dv
Sample : WG1934774-2,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 13:55:03 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	116947	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 107.68%			
8) Naphthalene-d8	2.863	136	457163	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 112.40%			
17) Acenaphthene-d10	3.836	164	255077	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 106.10%			
22) Phenanthrene-d10	4.674	188	550061	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 104.74%			
31) Chrysene-d12	6.211	240	470858	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 98.39%			
36) Perylene-d12	7.380	264	477040	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery = 95.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	23565	677.974	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.90%			
3) Phenol-d6	2.021	99	32223	771.240	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.56%			
7) Nitrobenzene-d5	2.483	82	30256	812.781	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 81.28%			
13) 2-Fluorobiphenyl	3.459	172	71271	733.188	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 73.32%			
21) 2,4,6-Tribromophenol	4.279	330	17010	982.154	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.11%			
30) 4-Terphenyl-d14	5.582	244	100966	902.132	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 45.11%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.068	93	56065	1518.275	ng/ml	97
6) Hexachloroethane	2.460	117	18259	1091.285	ng/ml	99
9) Naphthalene	2.874	128	159505	1234.342	ng/ml	100
10) Hexachlorobutadiene	2.947	225	25434	1028.911	ng/ml	100
11) 2-Methylnaphthalene	3.252	142	105462	1308.098	ng/ml	100
14) 2-Chloronaphthalene	3.523	162	110572	1341.867	ng/ml	93
16) Acenaphthylene	3.756	152	191092	1575.741	ng/ml	100
18) Acenaphthene	3.853	153	128226	1465.105	ng/ml	96
20) Fluorene	4.144	166	152912	1620.857	ng/ml	99
24) Hexachlorobenzene	4.460	284	60996	1539.006	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-2.D
Acq On : 17 Jun 2024 09:10 am
Operator : SV120:dv
Sample : WG1934774-2,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 13:55:03 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.571	266	17980	797.074	ng/ml	99
26) Phenanthrene	4.685	178	250034	1616.629	ng/ml	100
27) Anthracene	4.713	178	250600	1639.889	ng/ml	100
28) Fluoranthene	5.360	202	310765	1852.669	ng/ml	100
29) Pyrene	5.489	202	319240	1835.395	ng/ml	100
32) Benzo[a]anthracene	6.202	228	298576	1657.163	ng/ml	100
34) Chrysene	6.225	228	282309	1654.067	ng/ml	98
37) Benzo[b]fluoranthene	7.015	252	287486	1822.560	ng/ml	100
38) Benzo[k]fluoranthene	7.038	252	271391	1807.232	ng/ml	100
39) Benzo[a]pyrene	7.314	252	246880	1898.671	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.555	276	248687	2030.793	ng/ml	98
41) Dibenzo[a,h]anthracene	8.590	278	231437M6	1973.678	ng/ml	
42) Benzo[g,h,i]perylene	8.889	276	229166	1839.426	ng/ml	99

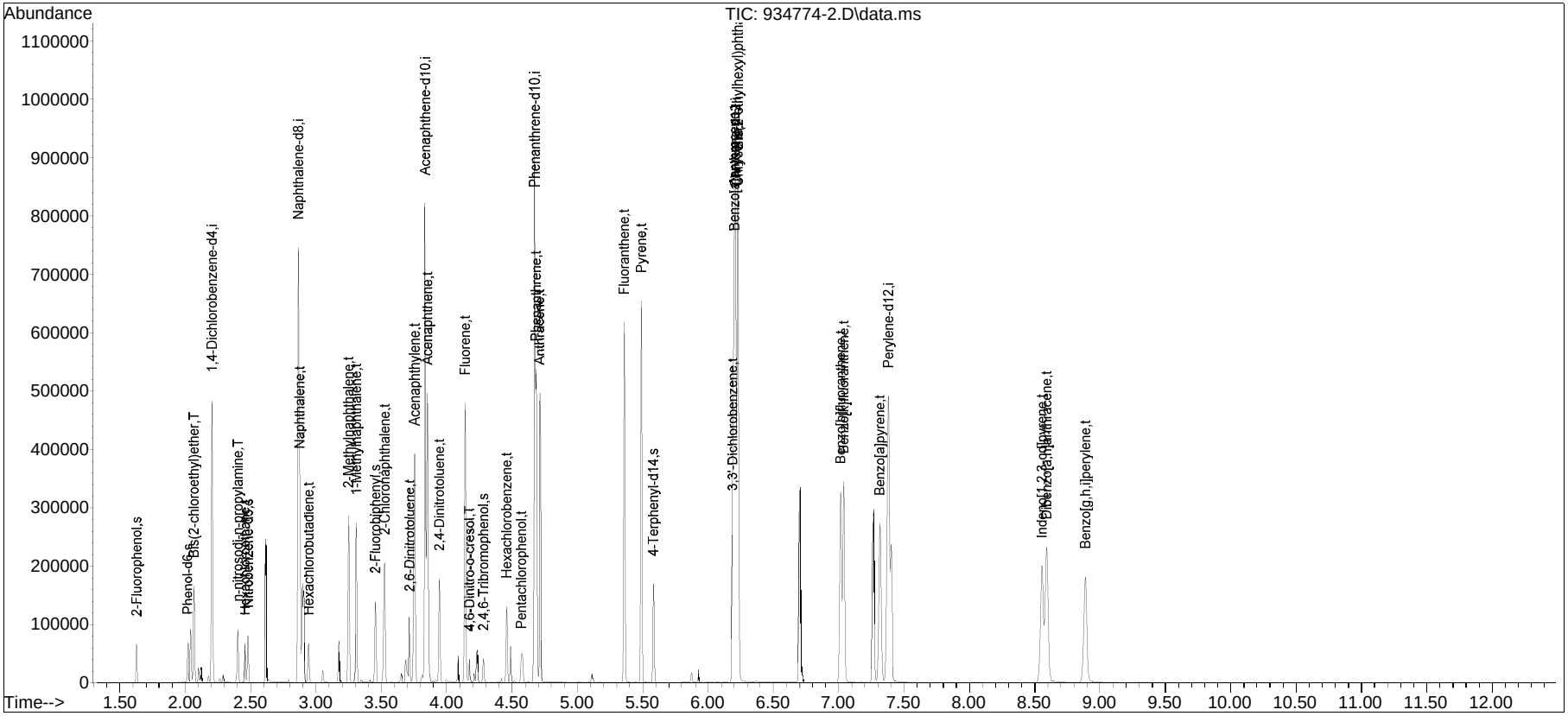
(#) = qualifier out of range (m) = manual integration (+) = signals summed

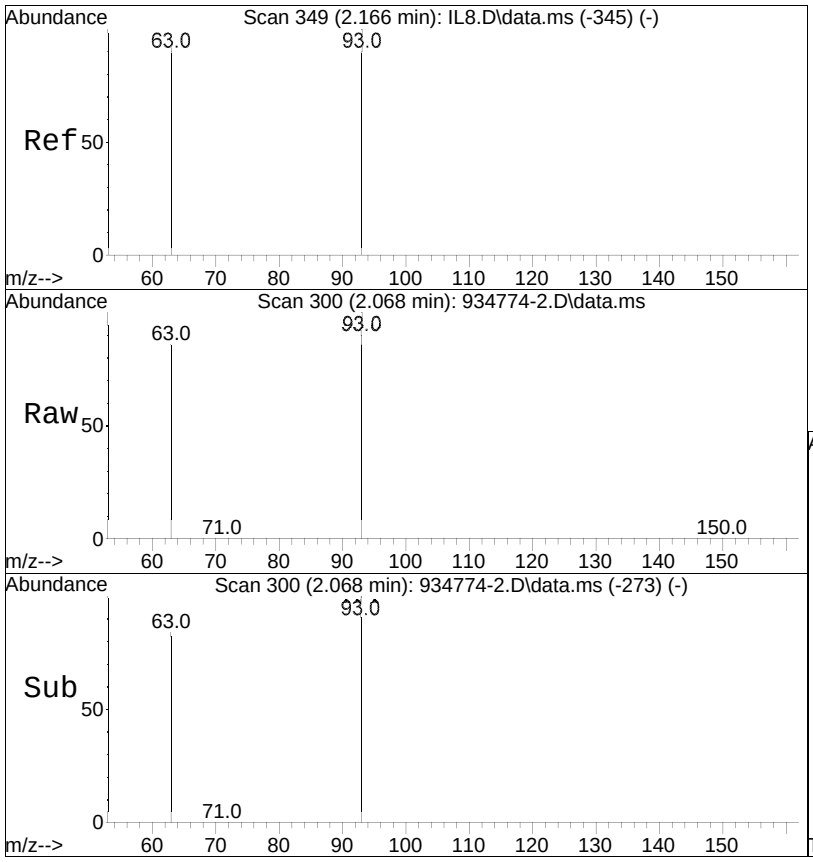
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-2.D
Acq On : 17 Jun 2024 09:10 am
Operator : SV120:dv
Sample : WG1934774-2,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 13:55:03 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

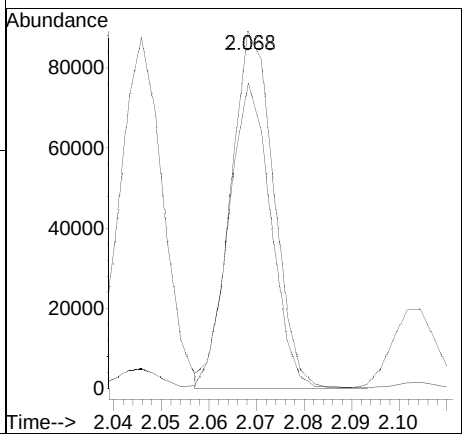


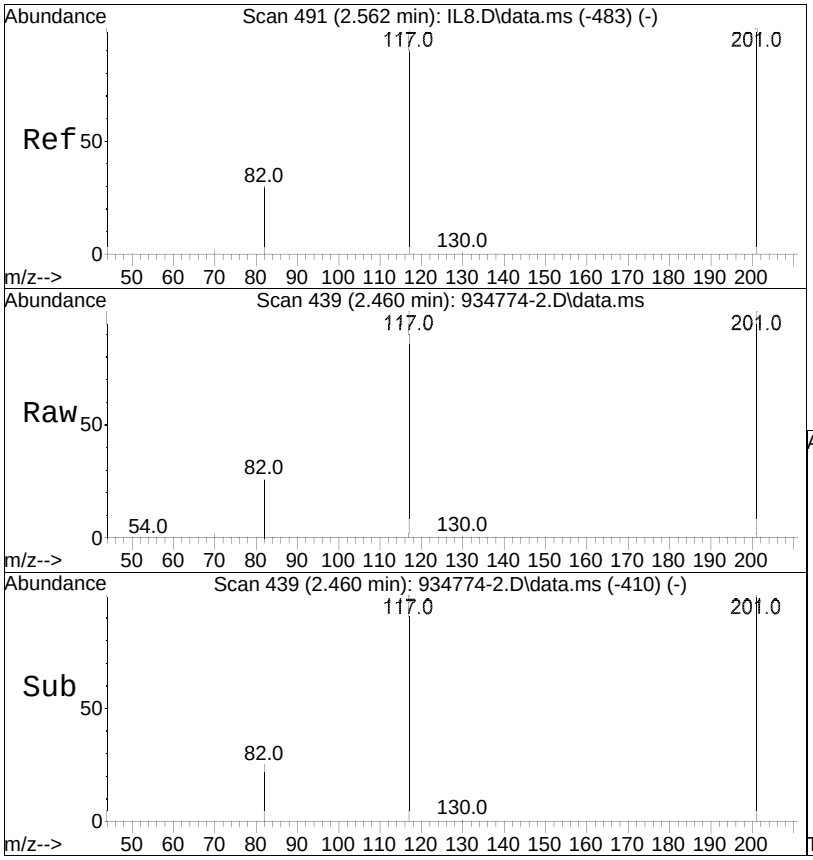


#4
Bis(2-chloroethyl)ether
Concen: 1518.27 ng/ml
RT: 2.068 min Scan# 300
Delta R.T. -0.005 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion: 93 Resp: 56065

Ion	Ratio	Lower	Upper
93	100		
63	83.0	68.6	102.8

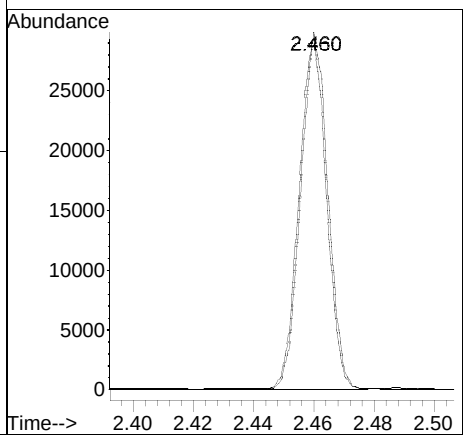


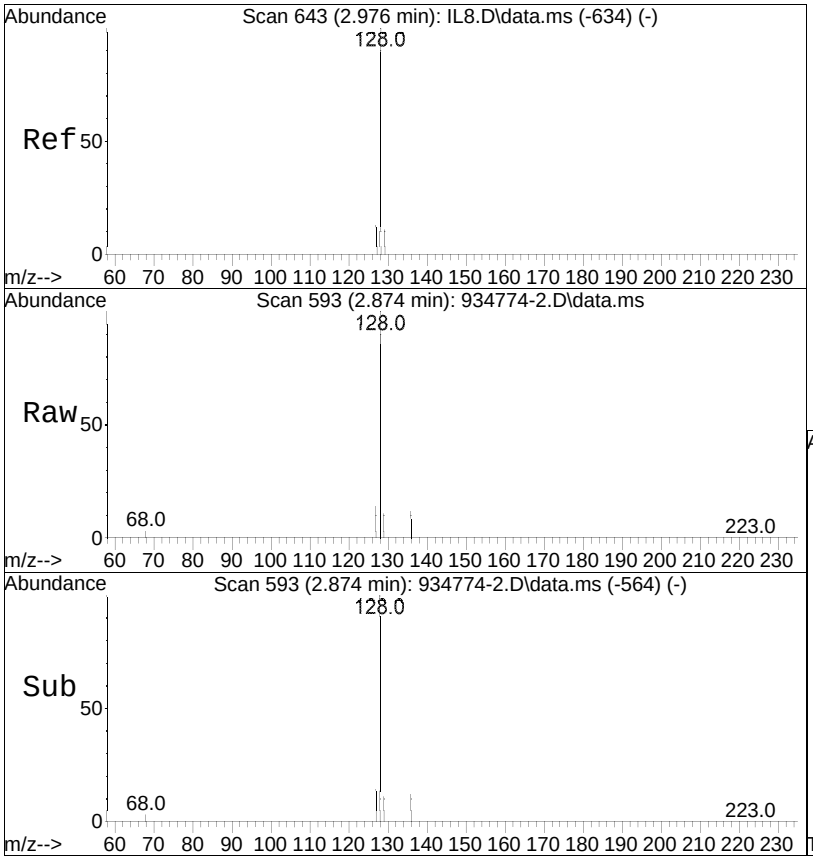


#6
Hexachloroethane
Concen: 1091.29 ng/ml
RT: 2.460 min Scan# 439
Delta R.T. -0.005 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:117 Resp: 18259

Ion	Ratio	Lower	Upper
117	100		
201	100.6	79.4	119.2

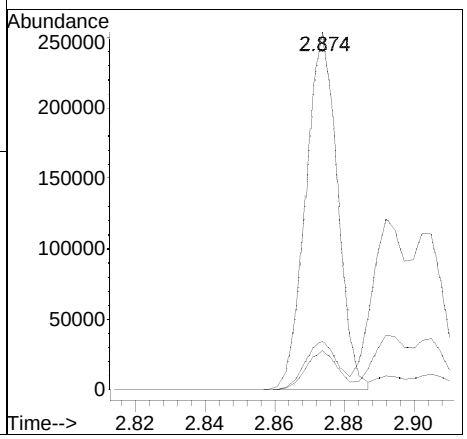


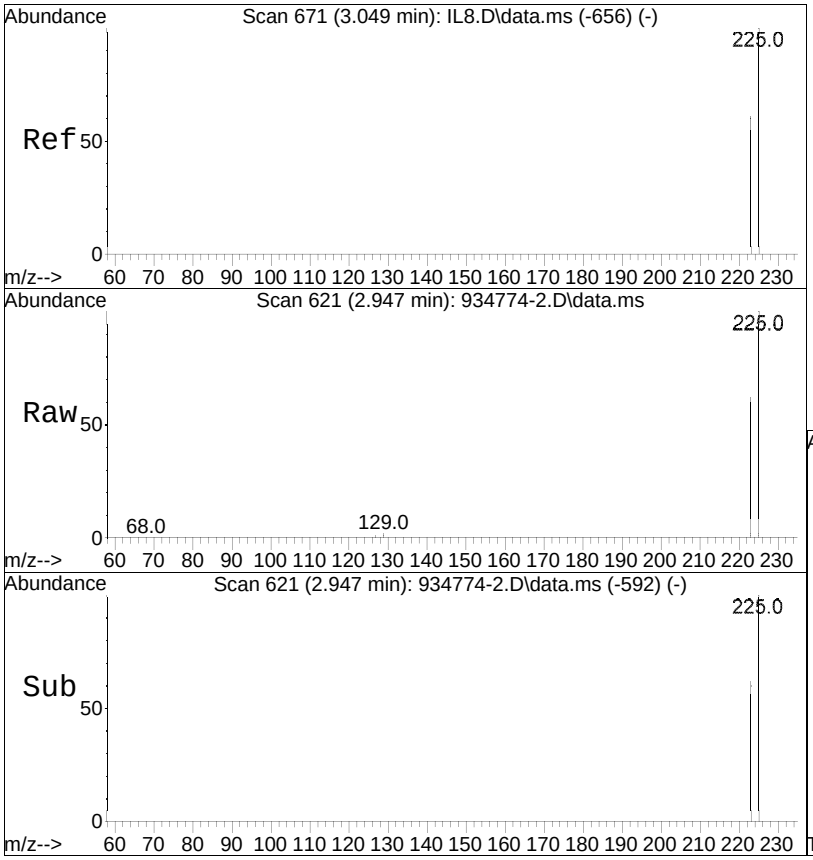


#9
Naphthalene
Concen: 1234.34 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.005 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:128 Resp: 159505

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	14.1	11.3	16.9

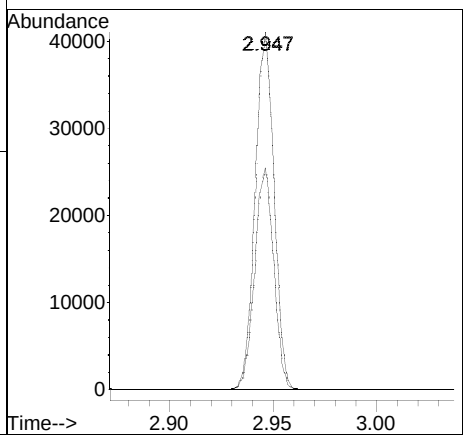


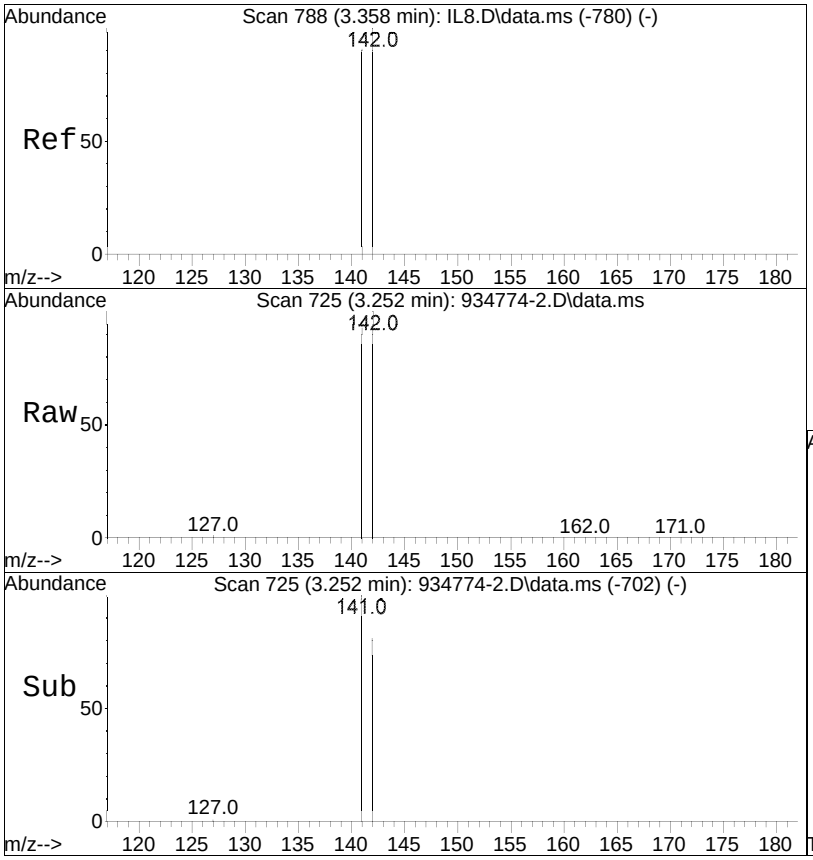


#10
Hexachlorobutadiene
Concen: 1028.91 ng/ml
RT: 2.947 min Scan# 621
Delta R.T. -0.005 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:225 Resp: 25434

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

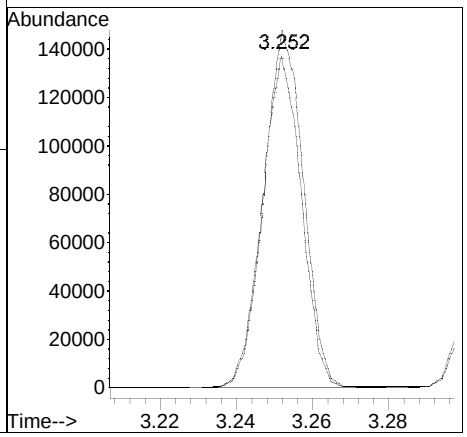


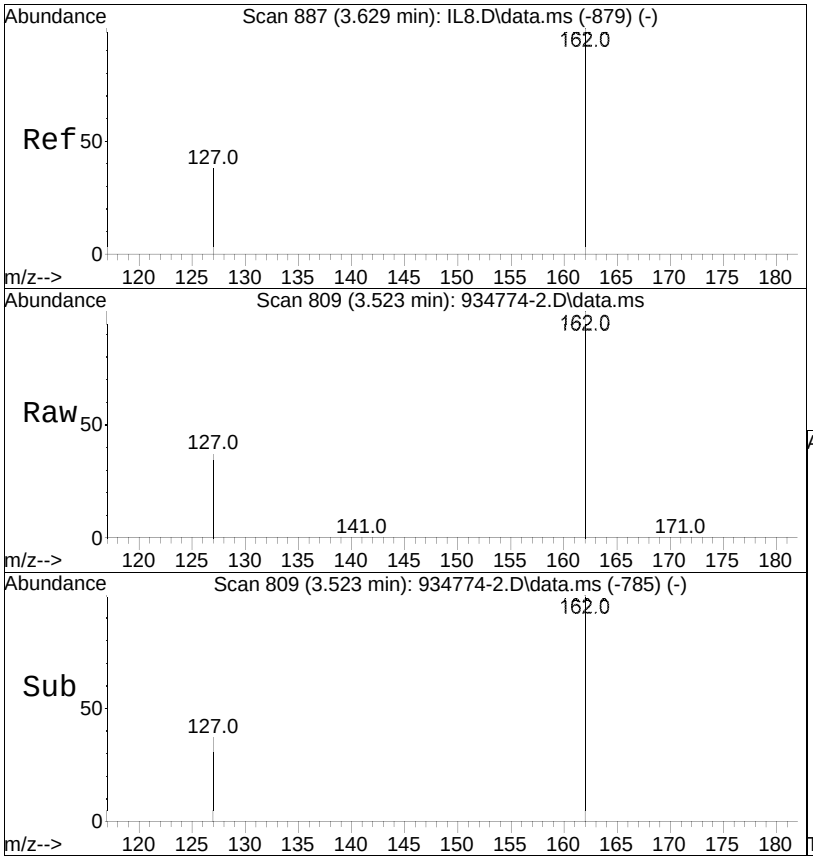


#11
2-Methylnaphthalene
Concen: 1308.10 ng/ml
RT: 3.252 min Scan# 725
Delta R.T. -0.006 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:142 Resp: 105462

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.8	110.6

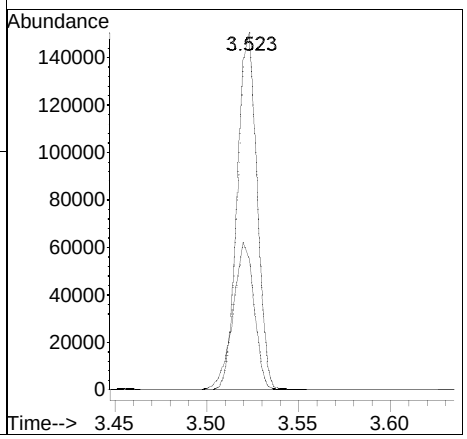


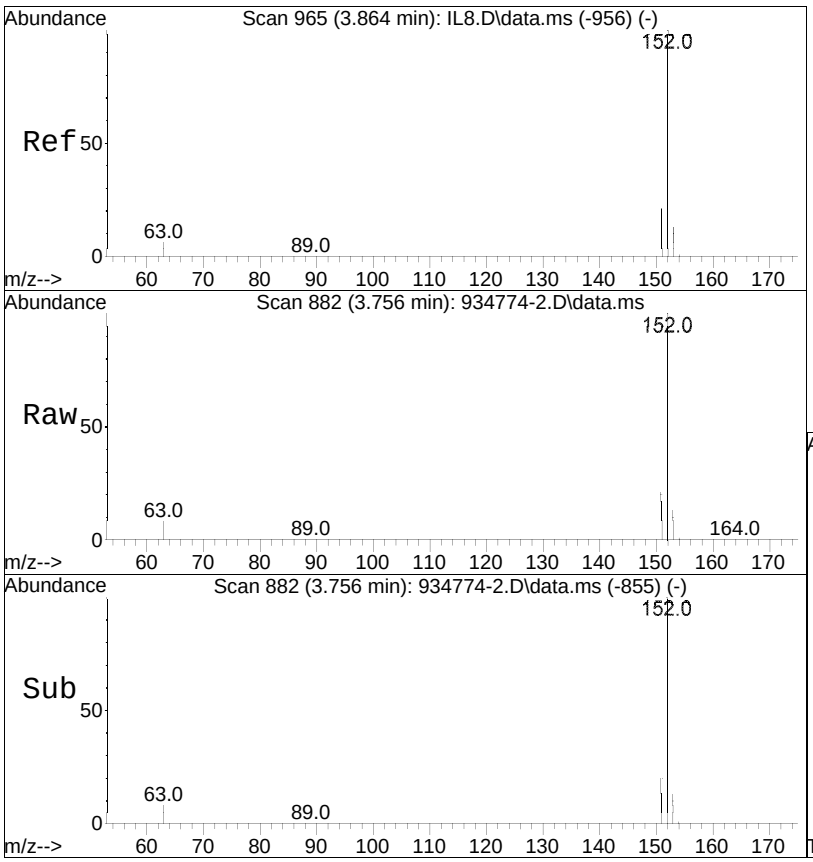


#14
2-Chloronaphthalene
Concen: 1341.87 ng/ml
RT: 3.523 min Scan# 809
Delta R.T. -0.003 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:162 Resp: 110572

Ion	Ratio	Lower	Upper
162	100		
127	44.4	32.0	48.0

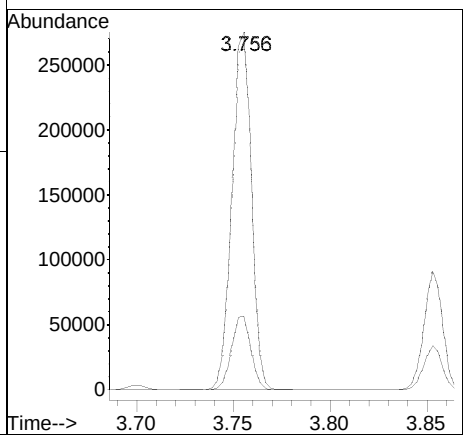


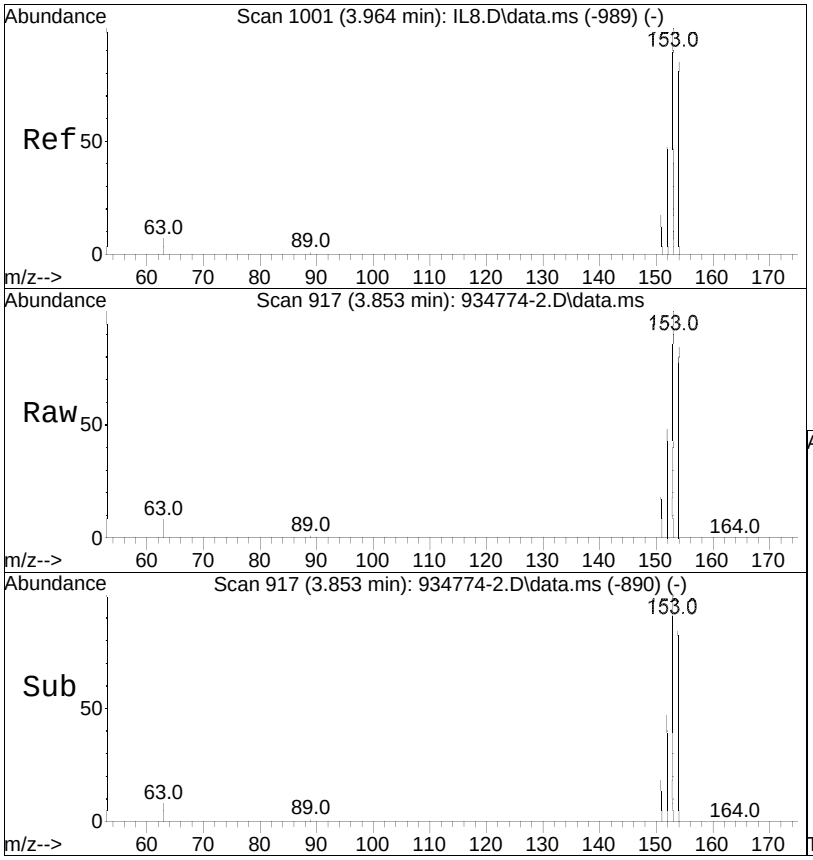


#16
Acenaphthylene
Concen: 1575.74 ng/ml
RT: 3.756 min Scan# 882
Delta R.T. -0.005 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:152 Resp: 191092

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

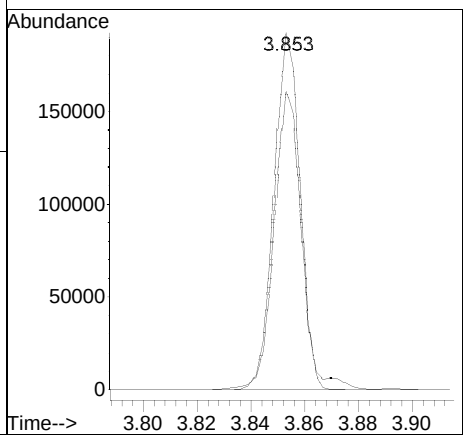


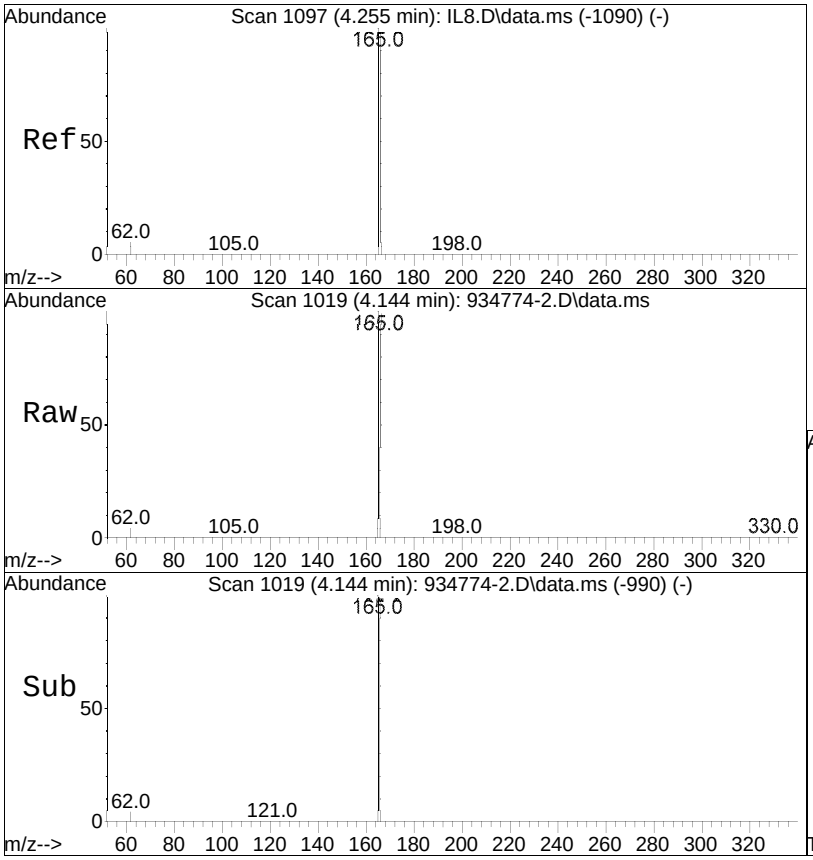


#18
Acenaphthene
Concen: 1465.11 ng/ml
RT: 3.853 min Scan# 917
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:153 Resp: 128226

Ion	Ratio	Lower	Upper
153	100		
154	88.2	73.4	110.2

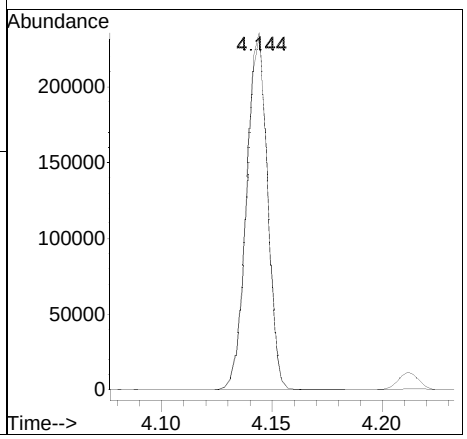


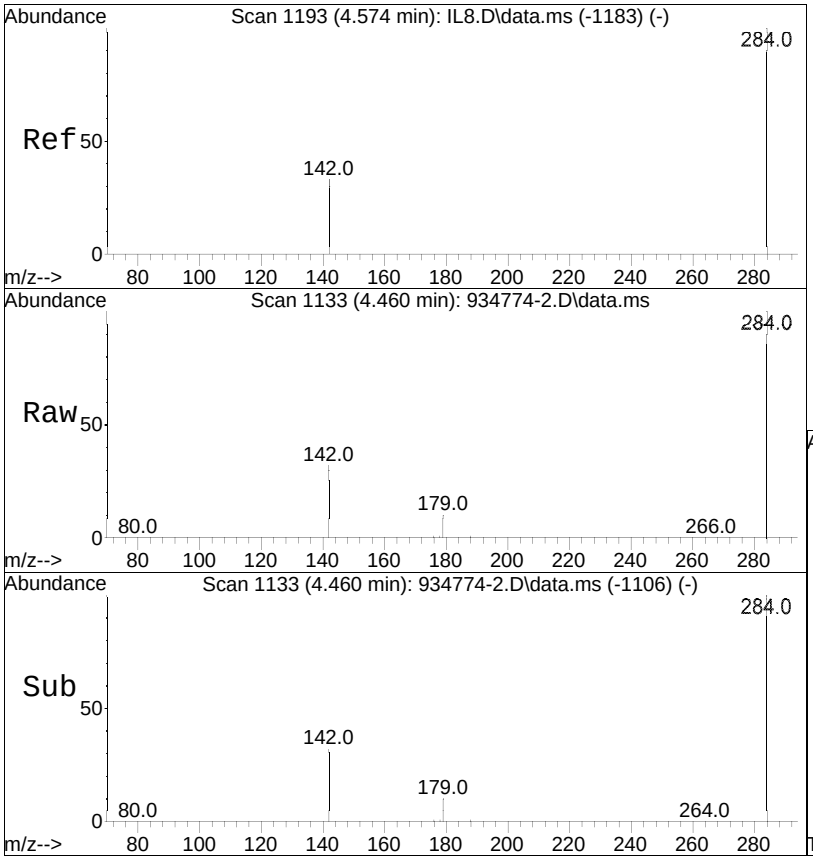


#20
Fluorene
Concen: 1620.86 ng/ml
RT: 4.144 min Scan# 1019
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:166 Resp: 152912

Ion	Ratio	Lower	Upper
166	100		
165	101.8	81.9	122.9

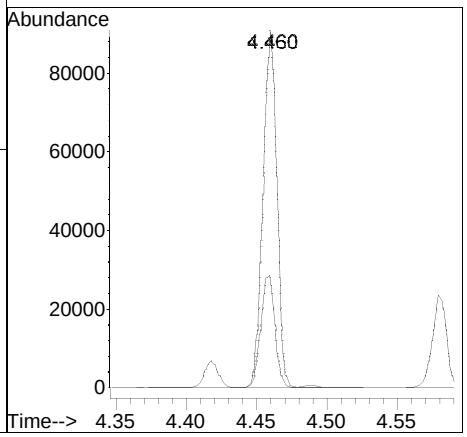


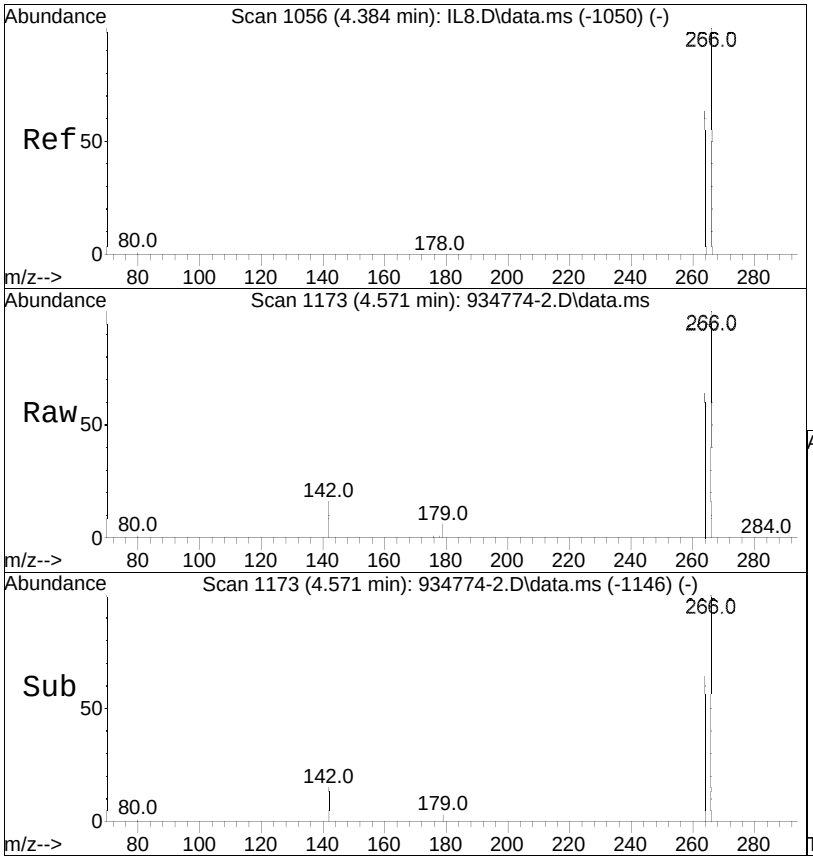


#24
Hexachlorobenzene
Concen: 1539.01 ng/ml
RT: 4.460 min Scan# 1133
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:284 Resp: 60996

Ion	Ratio	Lower	Upper
284	100		
142	32.4	26.8	40.2

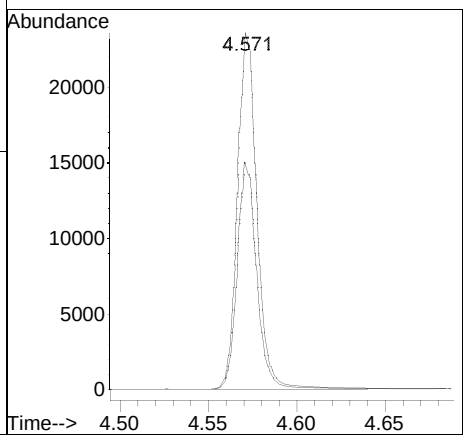


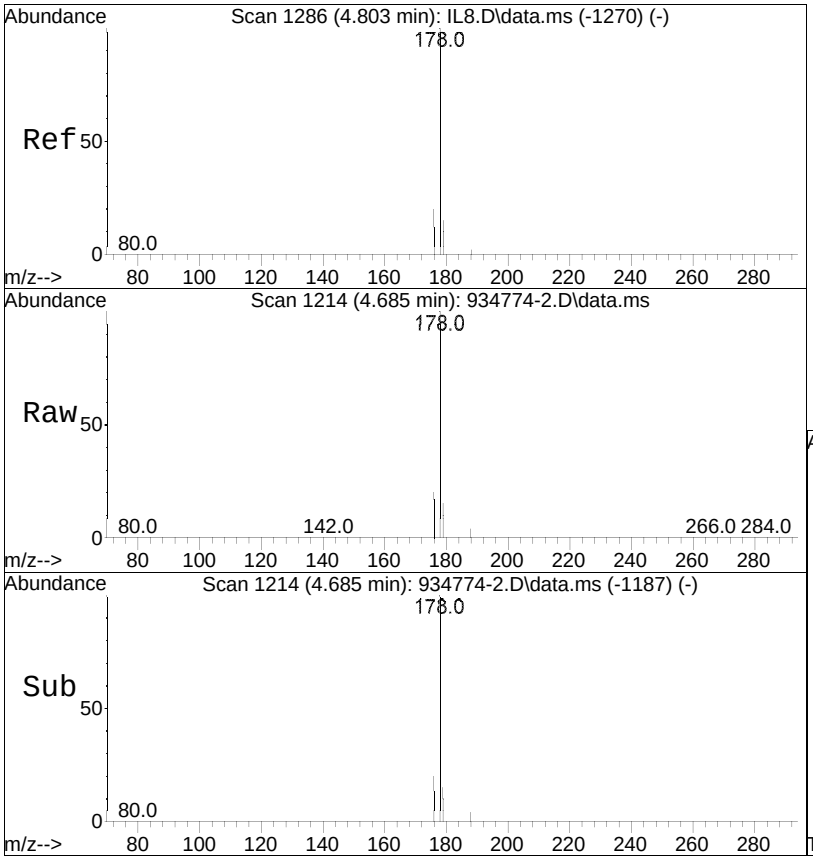


#25
Pentachlorophenol
Concen: 797.07 ng/ml
RT: 4.571 min Scan# 1173
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:266 Resp: 17980

Ion	Ratio	Lower	Upper
266	100		
264	63.8	50.2	75.2

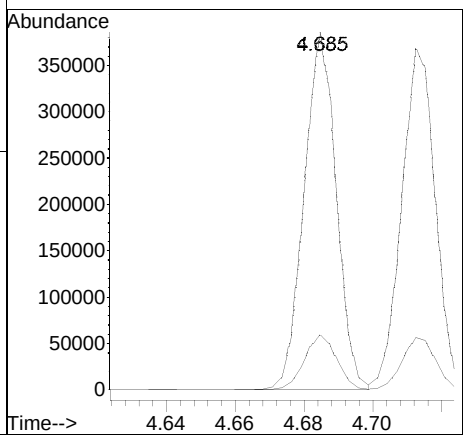


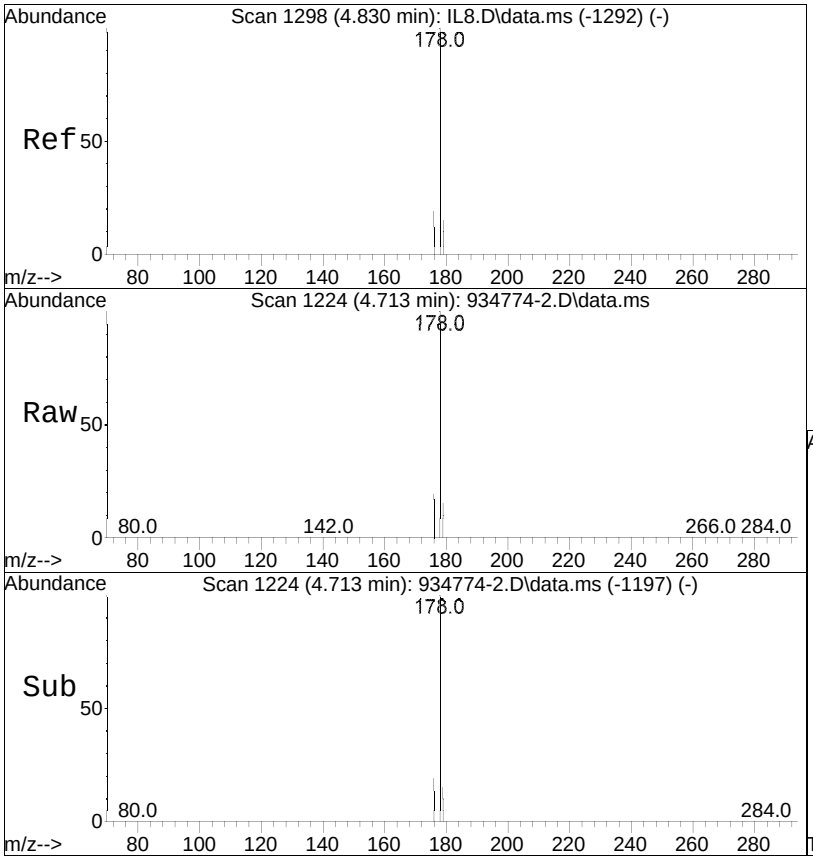


#26
Phenanthrene
Concen: 1616.63 ng/ml
RT: 4.685 min Scan# 1214
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:178 Resp: 250034

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

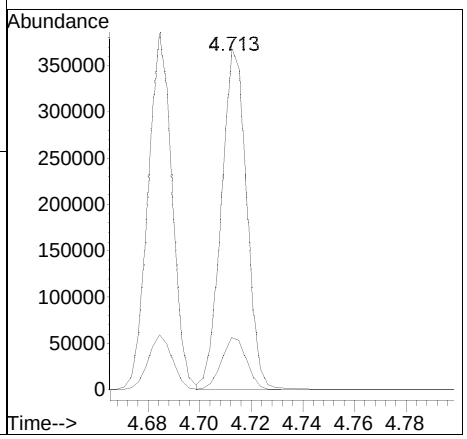


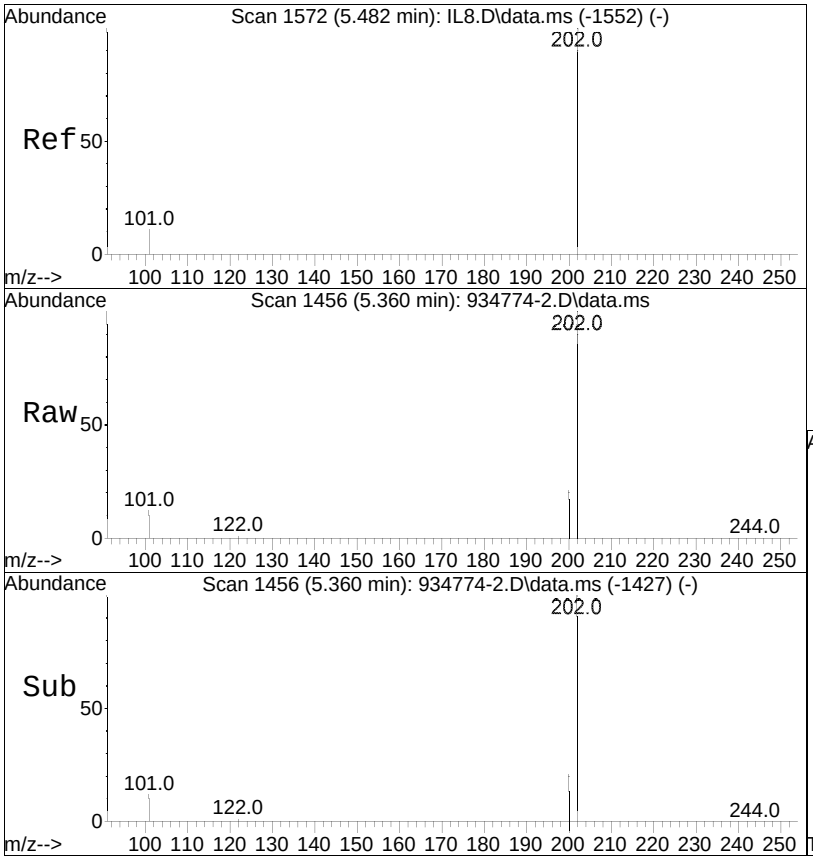


#27
Anthracene
Concen: 1639.89 ng/ml
RT: 4.713 min Scan# 1224
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:178 Resp: 250600

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

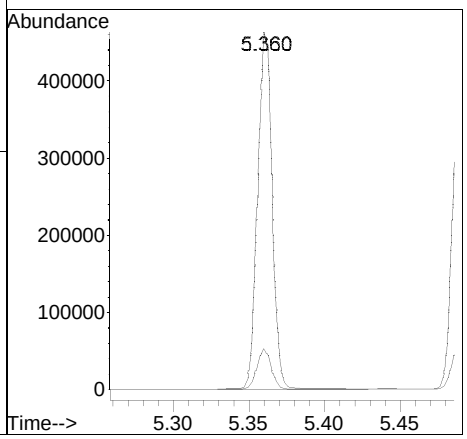


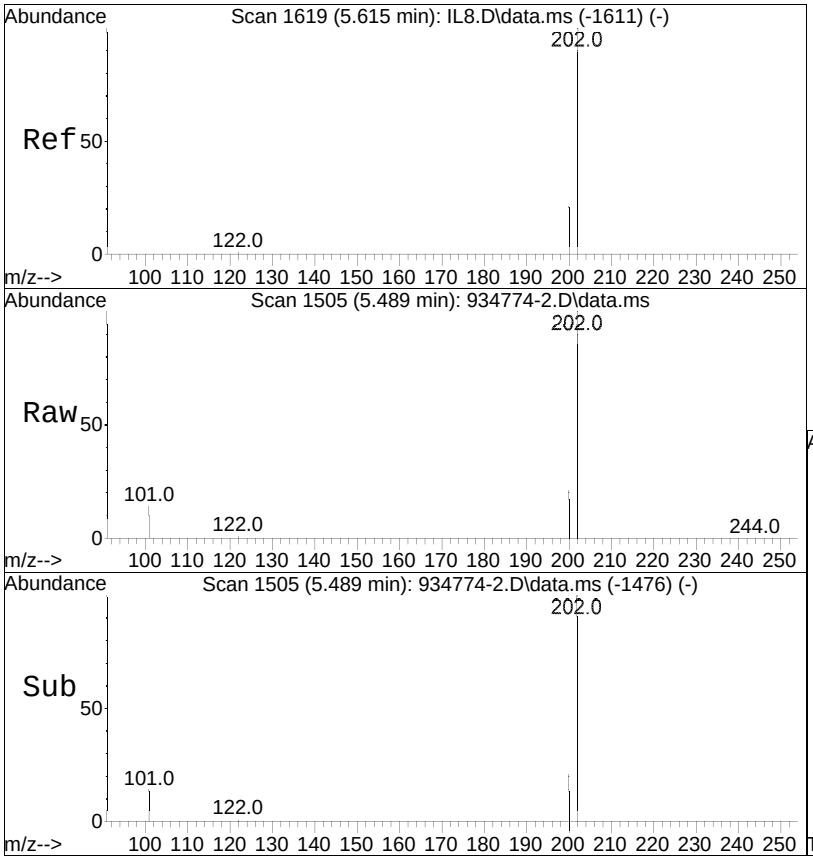


#28
Fluoranthene
Concen: 1852.67 ng/ml
RT: 5.360 min Scan# 1456
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:202 Resp: 310765

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.0	13.6

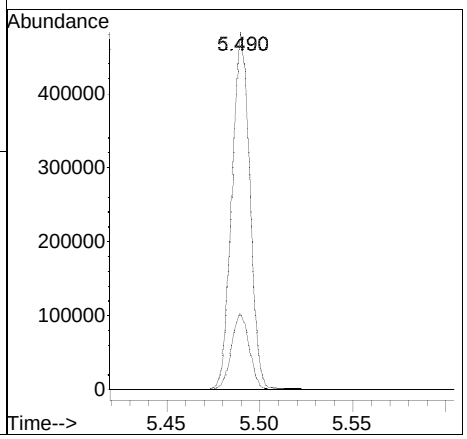


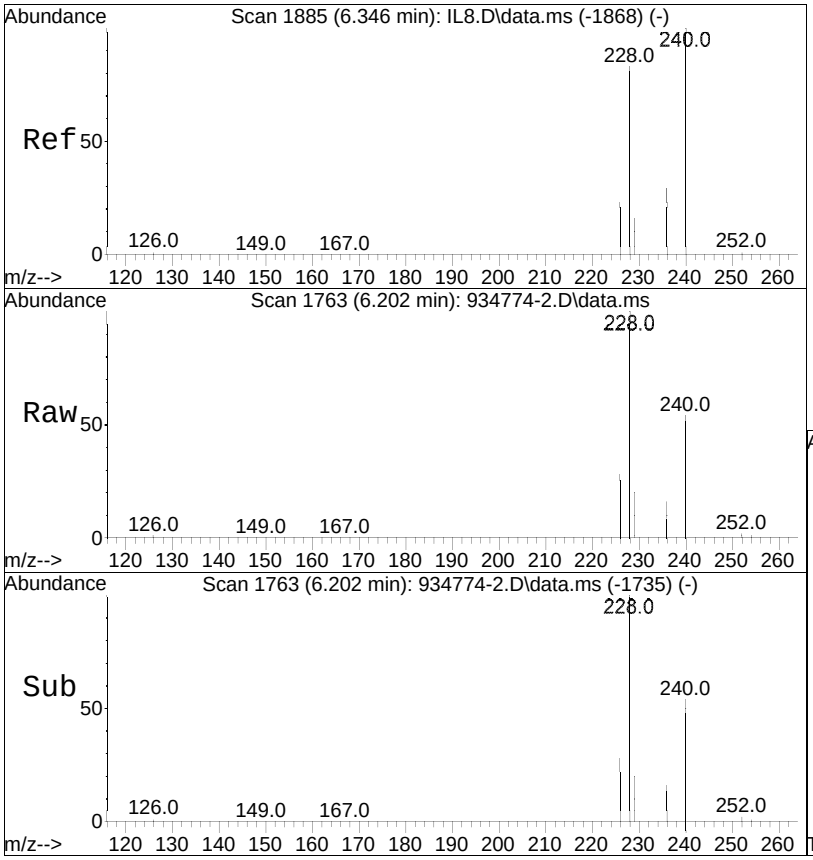


#29
Pyrene
Concen: 1835.40 ng/ml
RT: 5.489 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:202 Resp: 319240

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

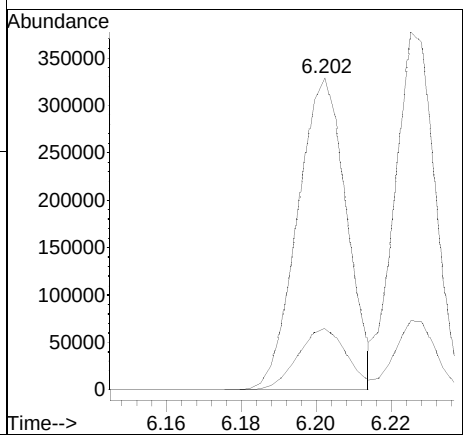


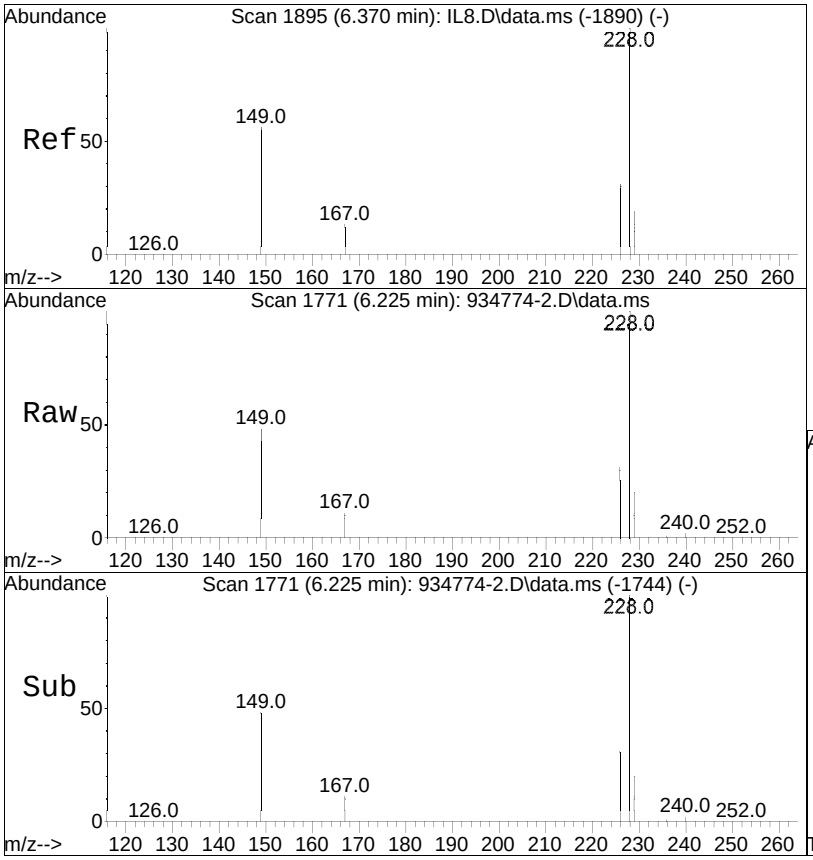


#32
Benzo[a]anthracene
Concen: 1657.16 ng/ml
RT: 6.202 min Scan# 1763
Delta R.T. 0.002 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:228 Resp: 298576

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

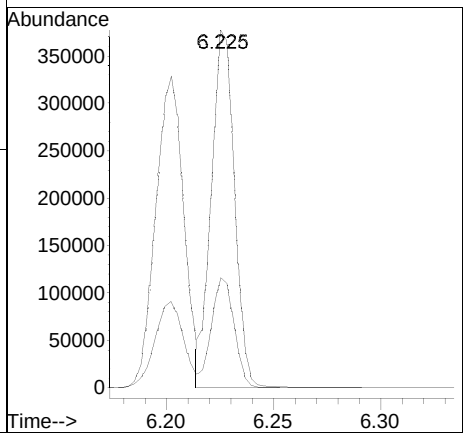


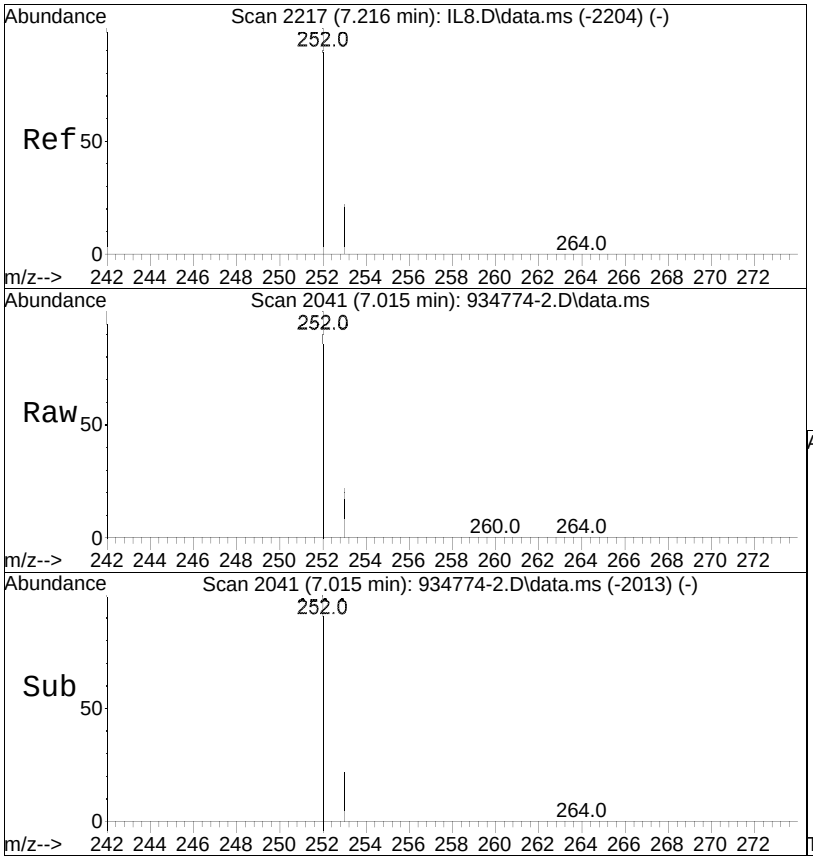


#34
Chrysene
Concen: 1654.07 ng/ml
RT: 6.225 min Scan# 1771
Delta R.T. -0.001 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:228 Resp: 282309

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

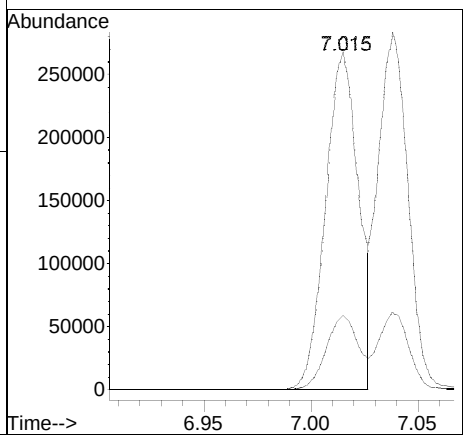


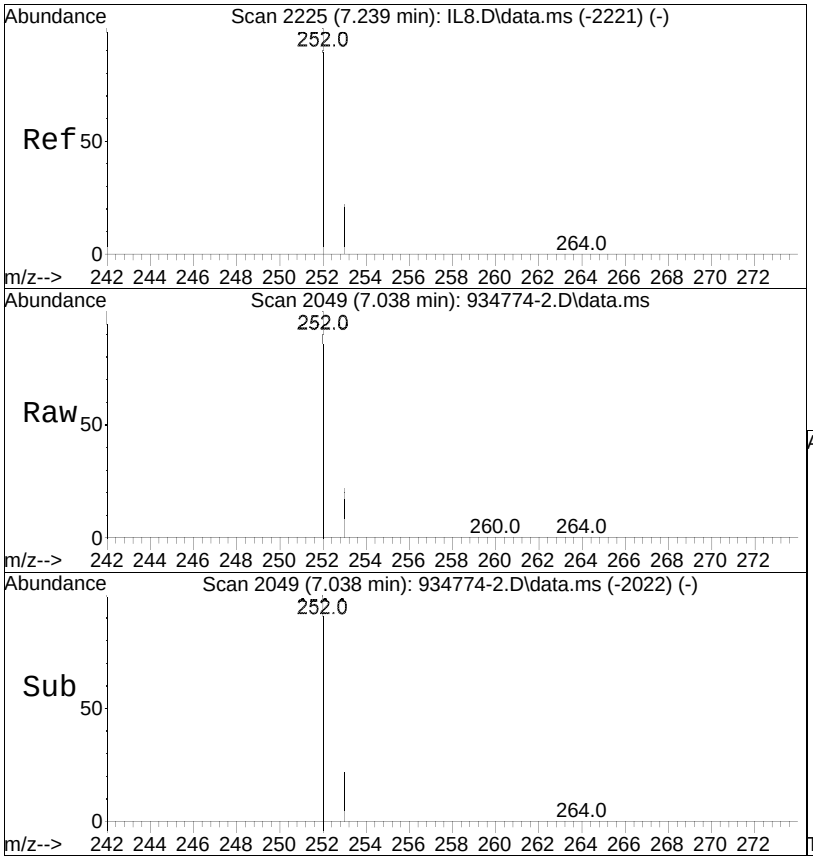


#37
Benzo[b]fluoranthene
Concen: 1822.56 ng/ml
RT: 7.015 min Scan# 2041
Delta R.T. 0.002 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:252 Resp: 287486

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

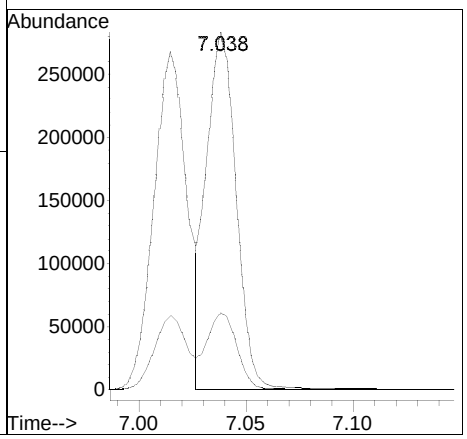


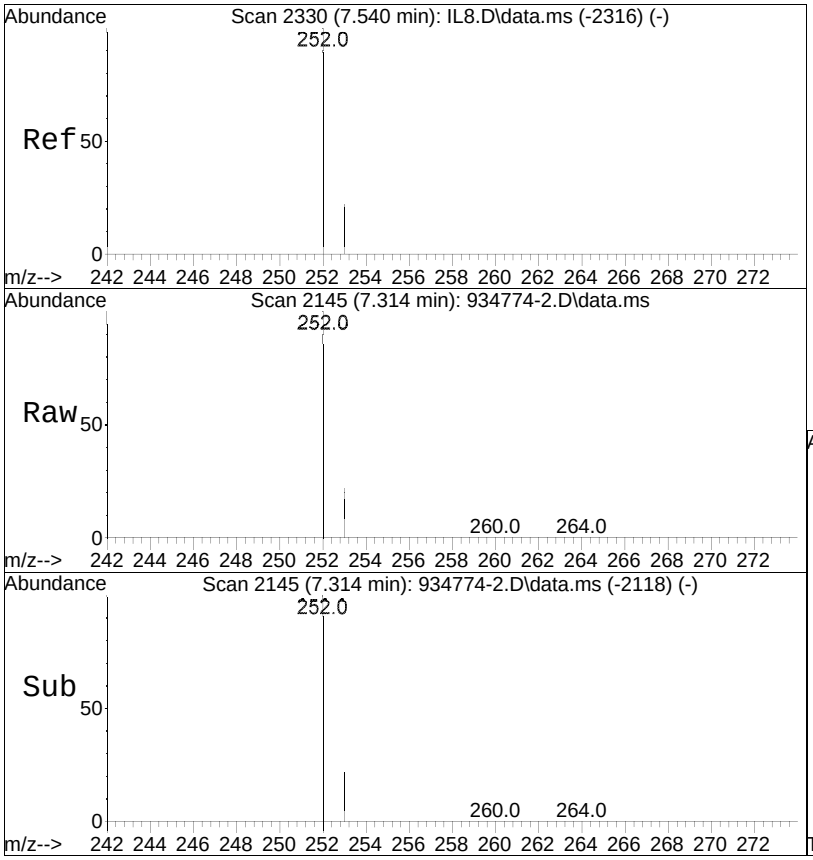


#38
Benzo[k]fluoranthene
Concen: 1807.23 ng/ml
RT: 7.038 min Scan# 2049
Delta R.T. -0.001 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:252 Resp: 271391

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

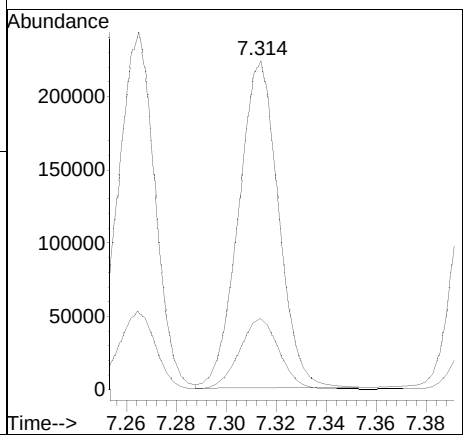


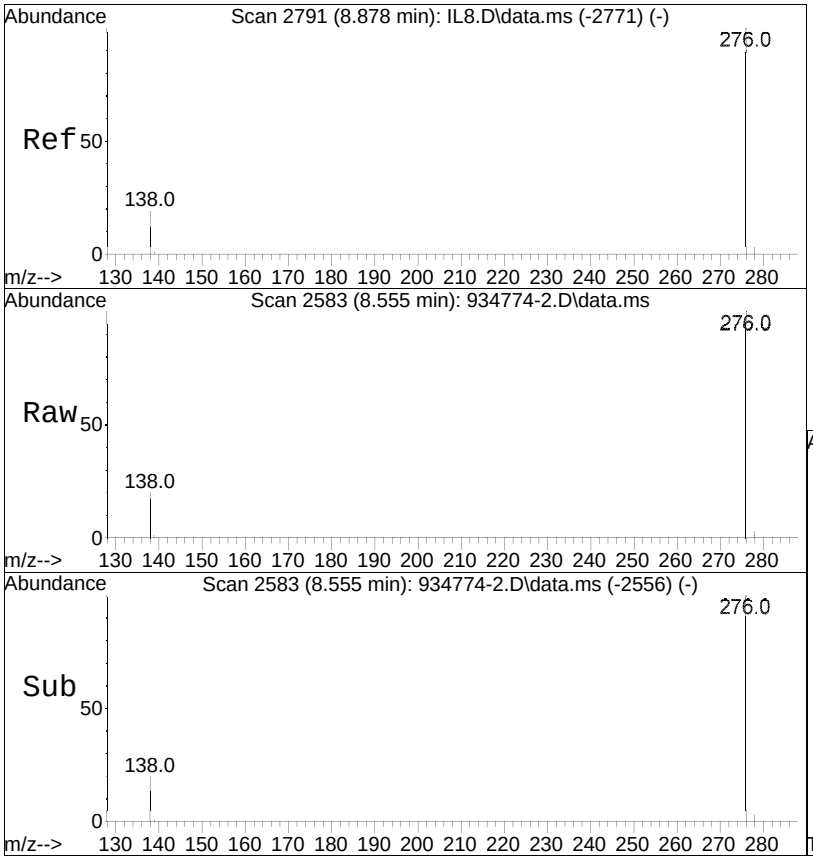


#39
Benzo[a]pyrene
Concen: 1898.67 ng/ml
RT: 7.314 min Scan# 2145
Delta R.T. -0.001 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:252 Resp: 246880

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

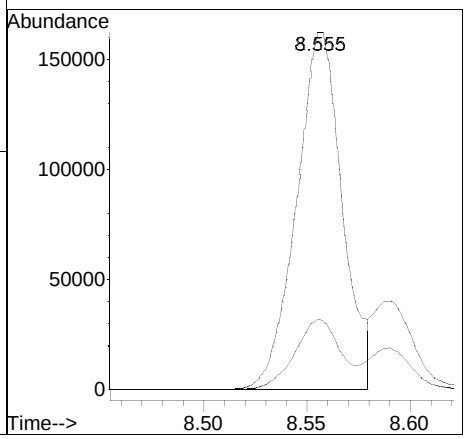


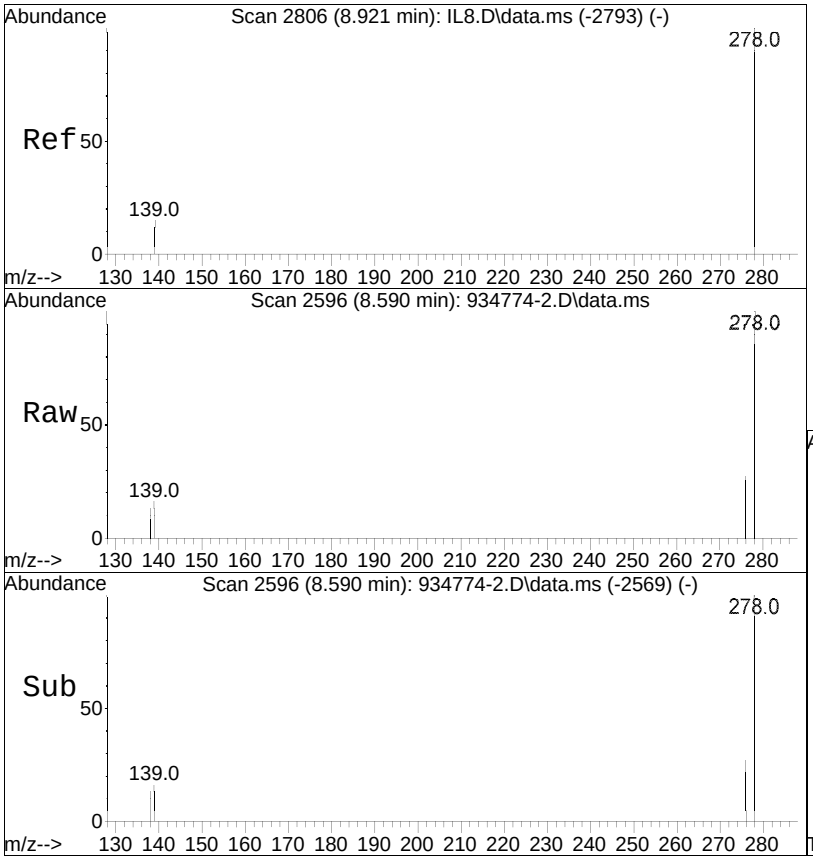


#40
Indeno[1,2,3-cd]pyrene
Concen: 2030.79 ng/ml
RT: 8.555 min Scan# 2583
Delta R.T. -0.007 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:276 Resp: 248687

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

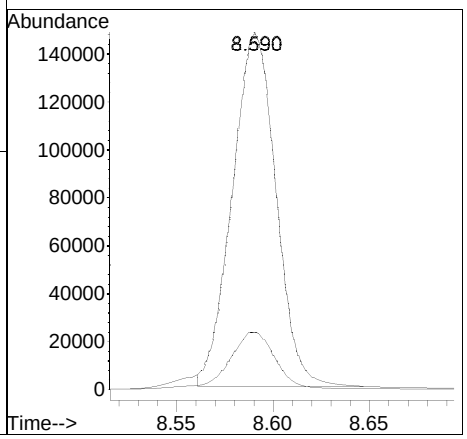


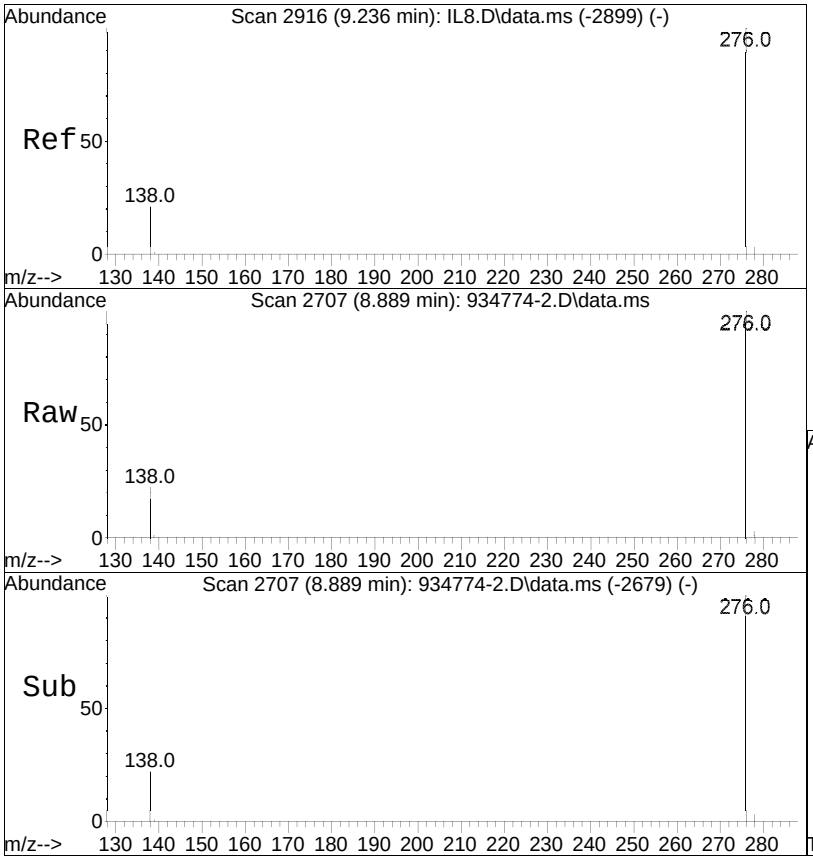


#41
Dibenzo[a,h]anthracene
Concen: 1973.68 ng/ml M6
RT: 8.590 min Scan# 2596
Delta R.T. -0.007 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:278 Resp: 231437

Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.0	21.0

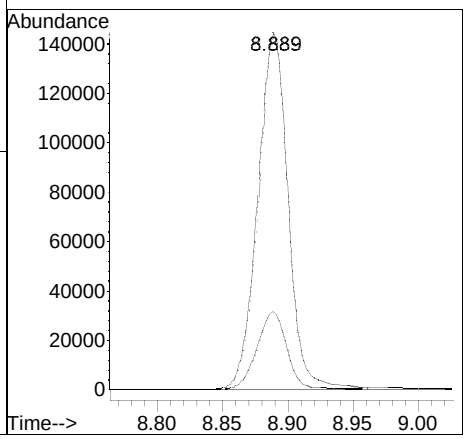




#42
Benzo[g,h,i]perylene
Concen: 1839.43 ng/ml
RT: 8.889 min Scan# 2707
Delta R.T. -0.004 min
Lab File: 934774-2.D
Acq: 17 Jun 2024 09:10 am

Tgt Ion:276 Resp: 229166

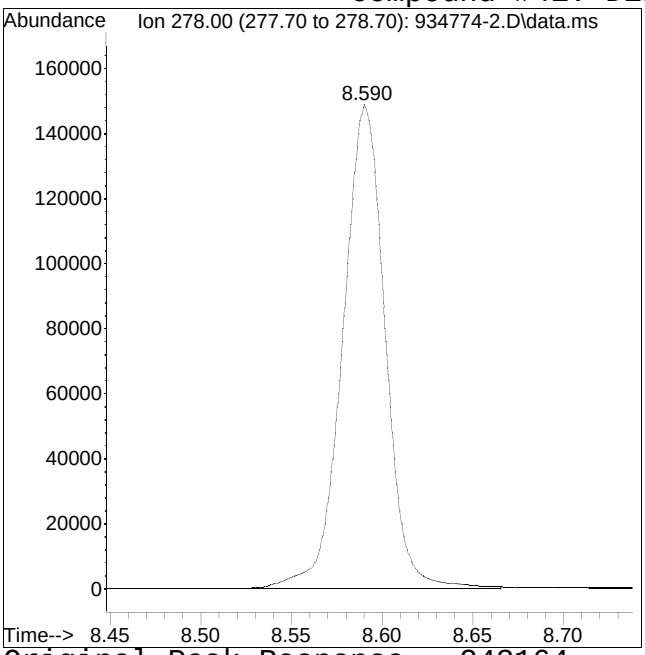
Ion	Ratio	Lower	Upper
276	100		
138	21.9	17.8	26.8



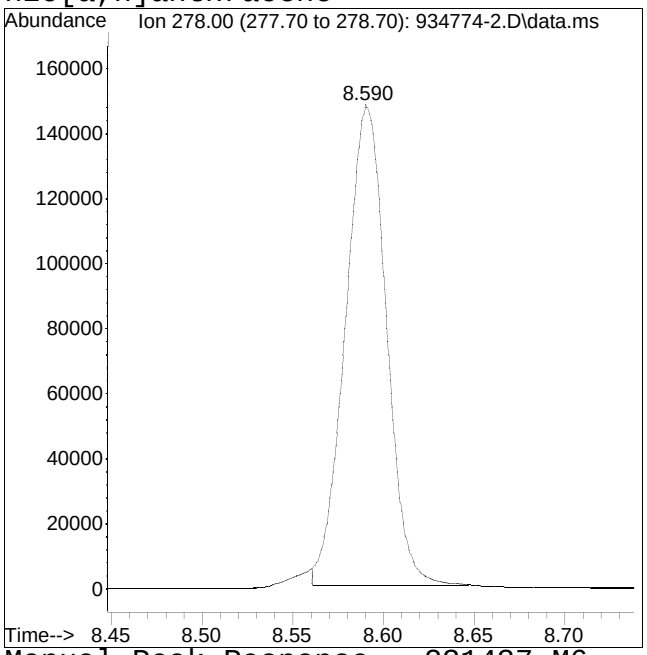
Manual Integration Report

Data Path : I:\8270SIM\sv120\240617RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 934774-2.D Operator : SV120:dv
Date Inj'd : 6/17/2024 9:10 am Instrument : SV120
Sample : WG1934774-2,32,,ah Quant Date : 6/17/2024 9:23 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 243164



Manual Peak Response = 231437 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-3.D
Acq On : 17 Jun 2024 09:26 am
Operator : SV120:dv
Sample : WG1934774-3,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 17 13:55:34 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	124154	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery	= 114.31%		
8) Naphthalene-d8	2.863	136	484069	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery	= 119.02%		
17) Acenaphthene-d10	3.837	164	270340	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery	= 112.45%		
22) Phenanthrene-d10	4.674	188	584803	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery	= 111.36%		
31) Chrysene-d12	6.208	240	506491	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery	= 105.84%		
36) Perylene-d12	7.376	264	516363	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery	= 103.05%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	38872	1053.442	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 52.67%		
3) Phenol-d6	2.021	99	38752	873.667	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 43.68%		
7) Nitrobenzene-d5	2.483	82	30522	772.330	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 77.23%		
13) 2-Fluorobiphenyl	3.459	172	71091	690.686	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 69.07%		
21) 2,4,6-Tribromophenol	4.282	330	29638	1611.908	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 80.60%		
30) 4-Terphenyl-d14	5.582	244	101393	852.127	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 42.61%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	56055	1429.886	ng/ml	97
6) Hexachloroethane	2.462	117	18493	1041.111	ng/ml	99
9) Naphthalene	2.874	128	162017	1184.092	ng/ml	99
10) Hexachlorobutadiene	2.947	225	25787	985.208	ng/ml	100
11) 2-Methylnaphthalene	3.253	142	106760	1250.595	ng/ml	100
14) 2-Chloronaphthalene	3.524	162	111403	1276.807	ng/ml	93
16) Acenaphthylene	3.756	152	192263	1497.276	ng/ml	100
18) Acenaphthene	3.856	153	129235	1393.266	ng/ml	97
20) Fluorene	4.144	166	152256	1522.785	ng/ml	100
24) Hexachlorobenzene	4.460	284	61520	1460.012	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-3.D
Acq On : 17 Jun 2024 09:26 am
Operator : SV120:dv
Sample : WG1934774-3,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 17 13:55:34 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.571	266	29774	1216.493	ng/ml	99
26) Phenanthrene	4.685	178	251032	1526.658	ng/ml	100
27) Anthracene	4.715	178	256224	1577.083	ng/ml	100
28) Fluoranthene	5.360	202	314673	1764.519	ng/ml	100
29) Pyrene	5.489	202	327814	1772.724	ng/ml	100
32) Benzo[a]anthracene	6.199	228	314415	1622.147	ng/ml	100
34) Chrysene	6.225	228	284492	1549.589	ng/ml	98
37) Benzo[b]fluoranthene	7.012	252	296034	1733.830	ng/ml	100
38) Benzo[k]fluoranthene	7.035	252	286254	1761.042	ng/ml	100
39) Benzo[a]pyrene	7.313	252	258104	1833.826	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.555	276	259548	1958.078	ng/ml	98
41) Dibenzo[a,h]anthracene	8.593	278	248311M6	1956.316	ng/ml	
42) Benzo[g,h,i]perylene	8.888	276	238999	1772.262	ng/ml	99

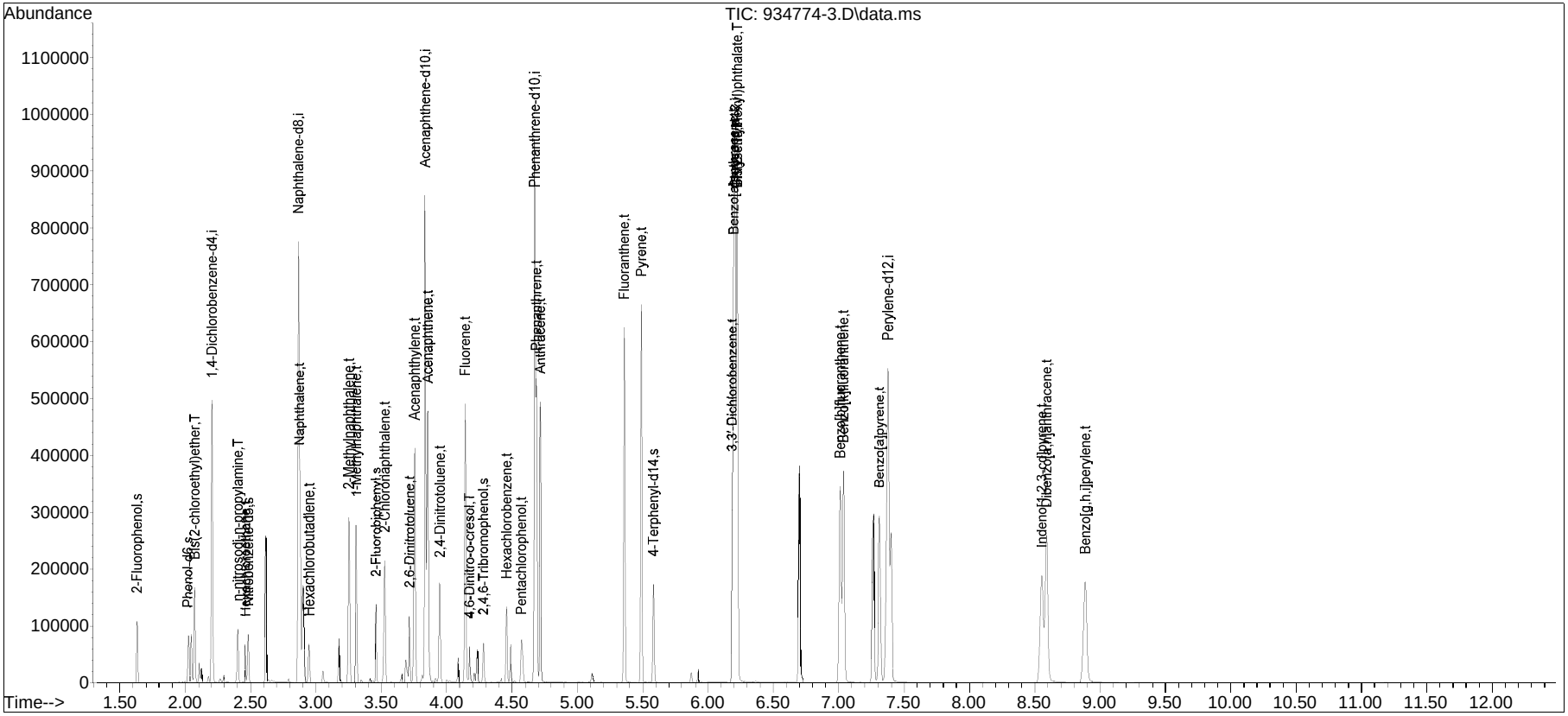
(#) = qualifier out of range (m) = manual integration (+) = signals summed

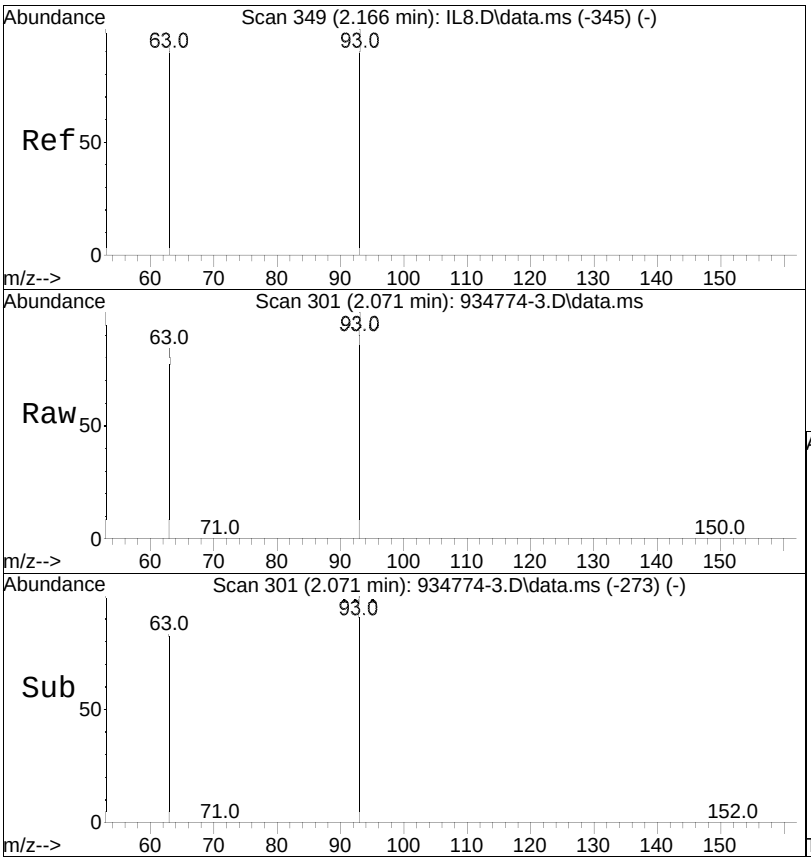
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934774-3.D
Acq On : 17 Jun 2024 09:26 am
Operator : SV120:dv
Sample : WG1934774-3,32,,ah
Misc : WG1935125,WG1934774,ical21160
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 17 13:55:34 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

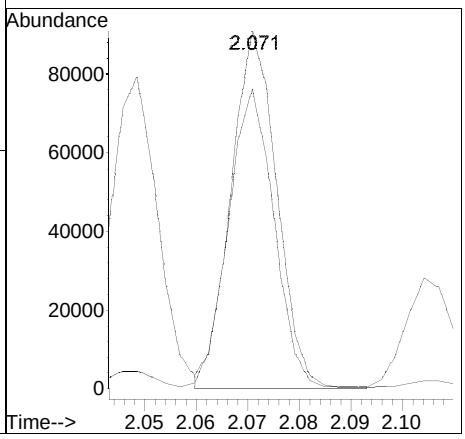


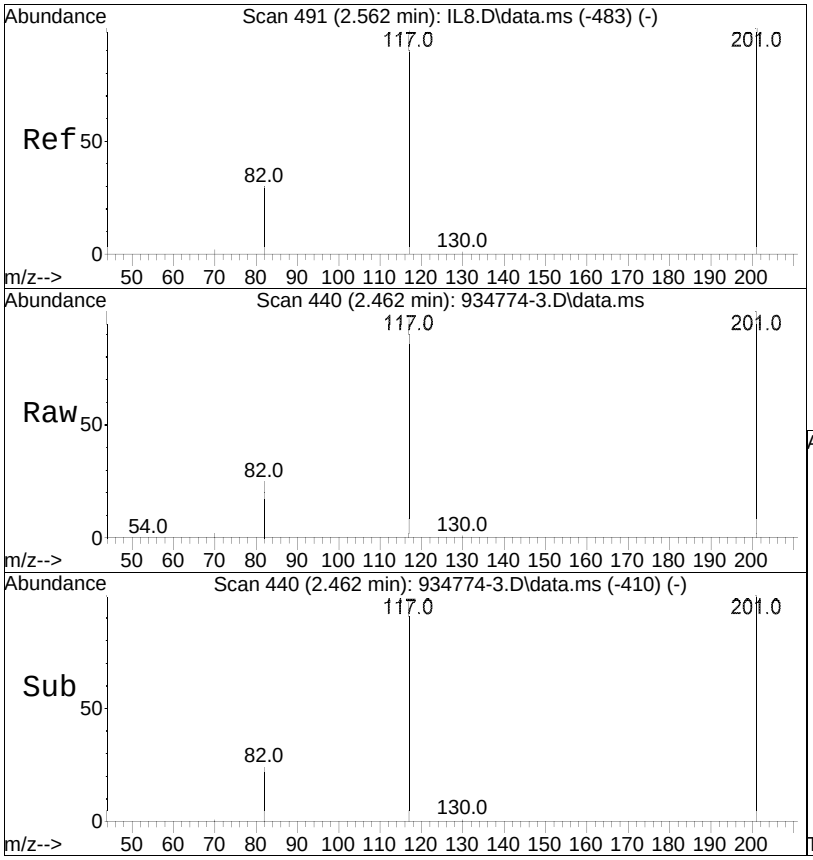


#4
Bis(2-chloroethyl)ether
Concen: 1429.89 ng/ml
RT: 2.071 min Scan# 301
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion: 93 Resp: 56055

Ion	Ratio	Lower	Upper
93	100		
63	83.2	68.6	102.8

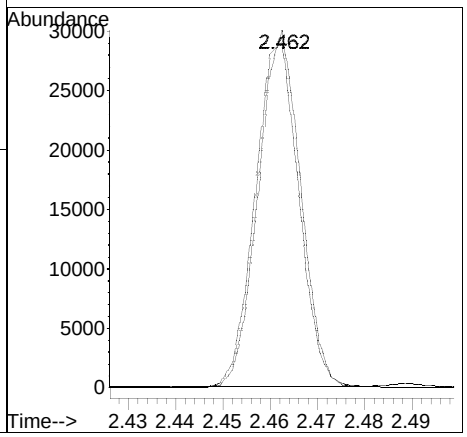


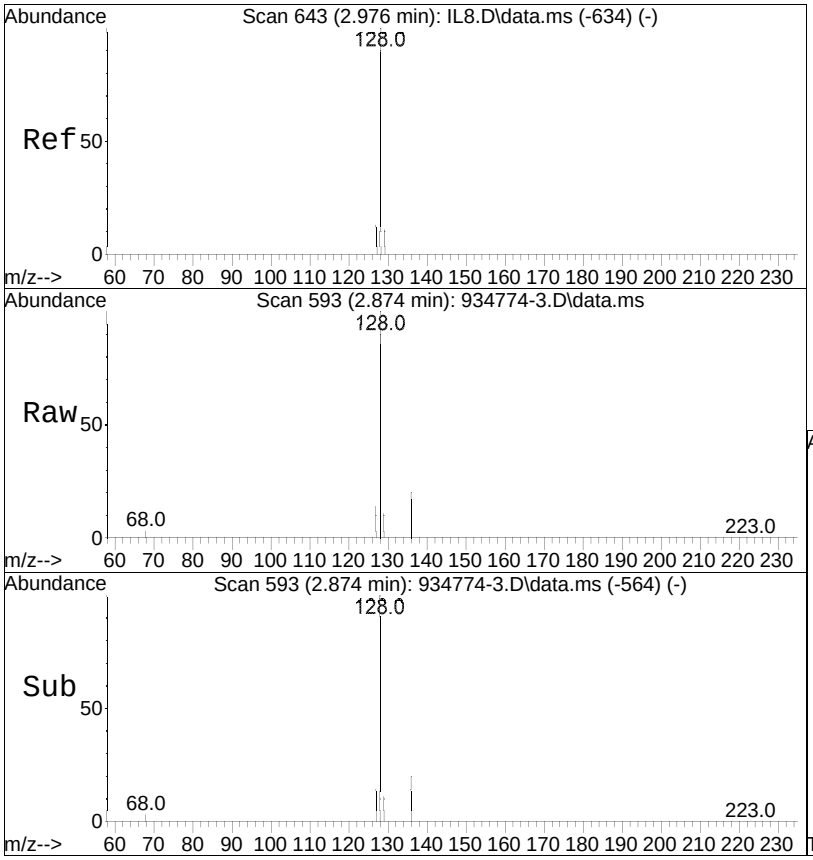


#6
Hexachloroethane
Concen: 1041.11 ng/ml
RT: 2.462 min Scan# 440
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:117 Resp: 18493

Ion	Ratio	Lower	Upper
117	100		
201	99.9	79.4	119.2

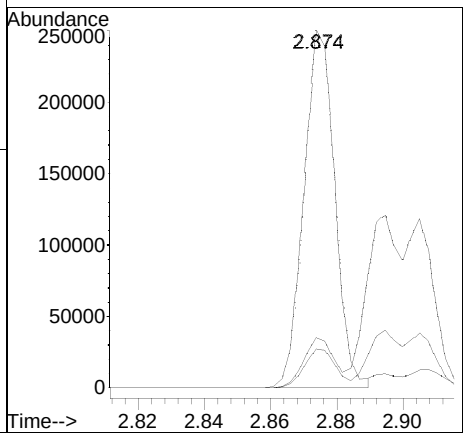


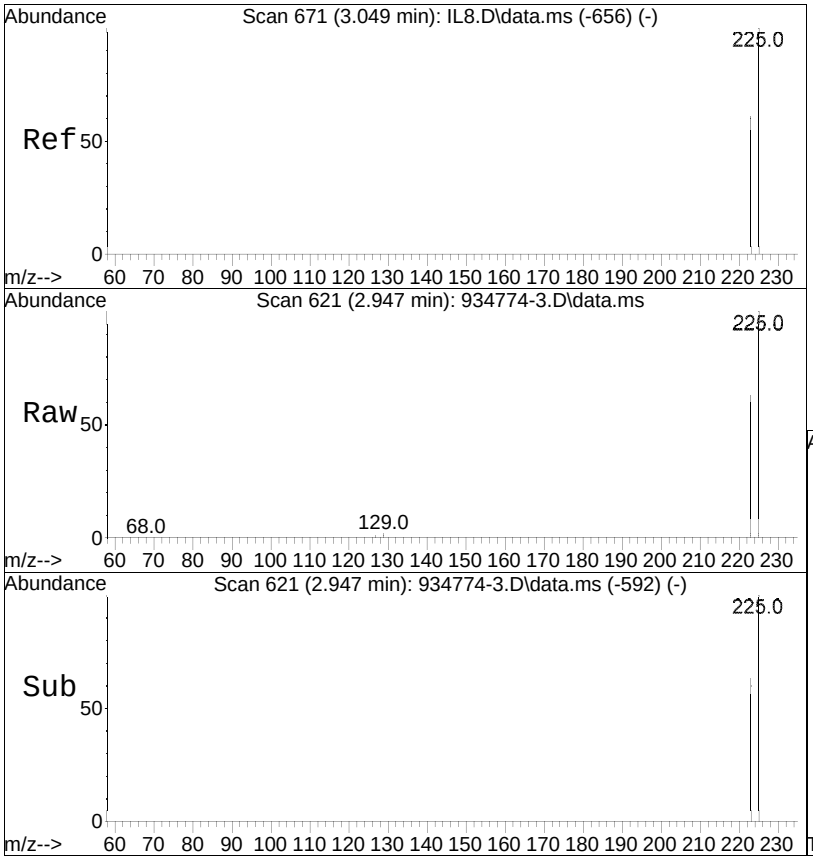


#9
Naphthalene
Concen: 1184.09 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.005 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:128 Resp: 162017

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.6	11.3	16.9

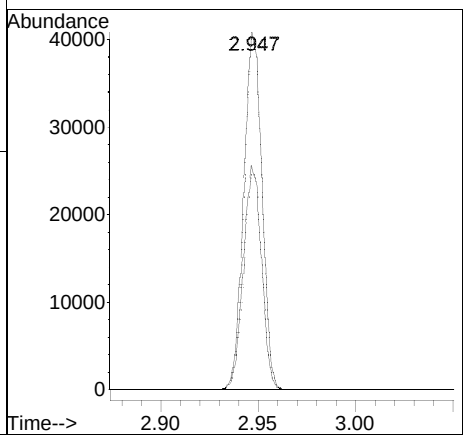


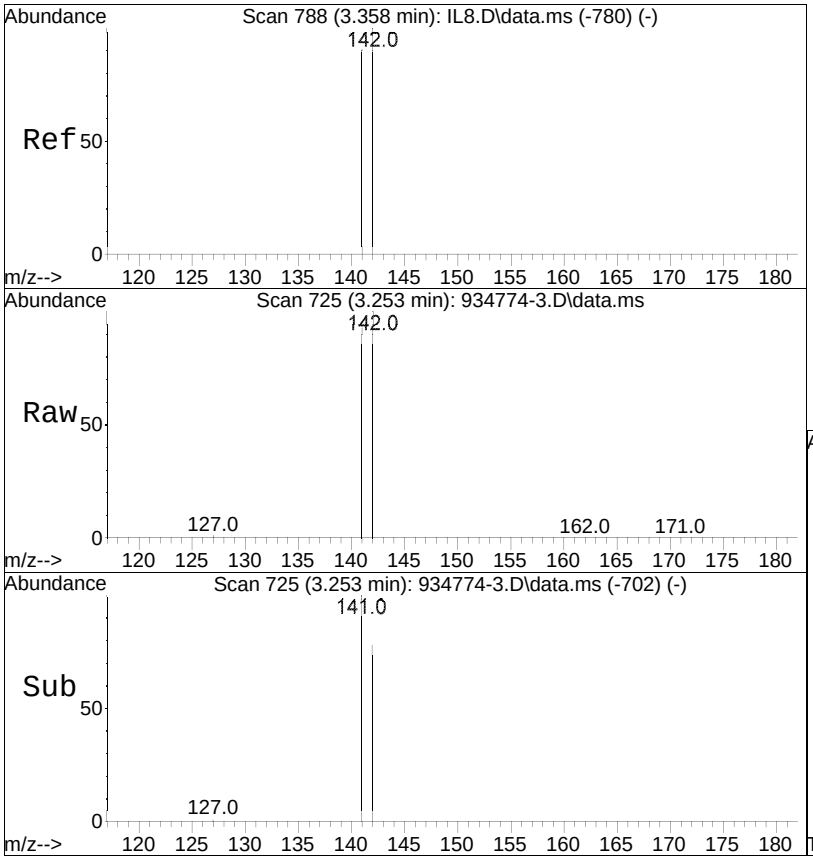


#10
Hexachlorobutadiene
Concen: 985.21 ng/ml
RT: 2.947 min Scan# 621
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:225 Resp: 25787

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.1	75.1

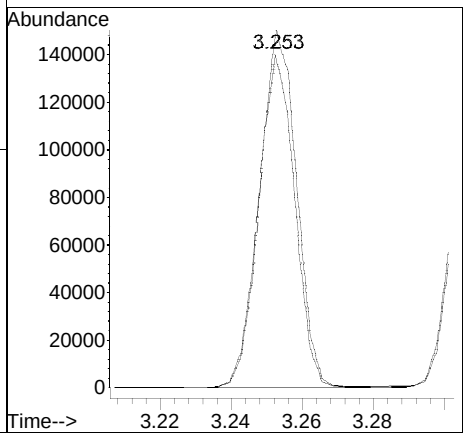


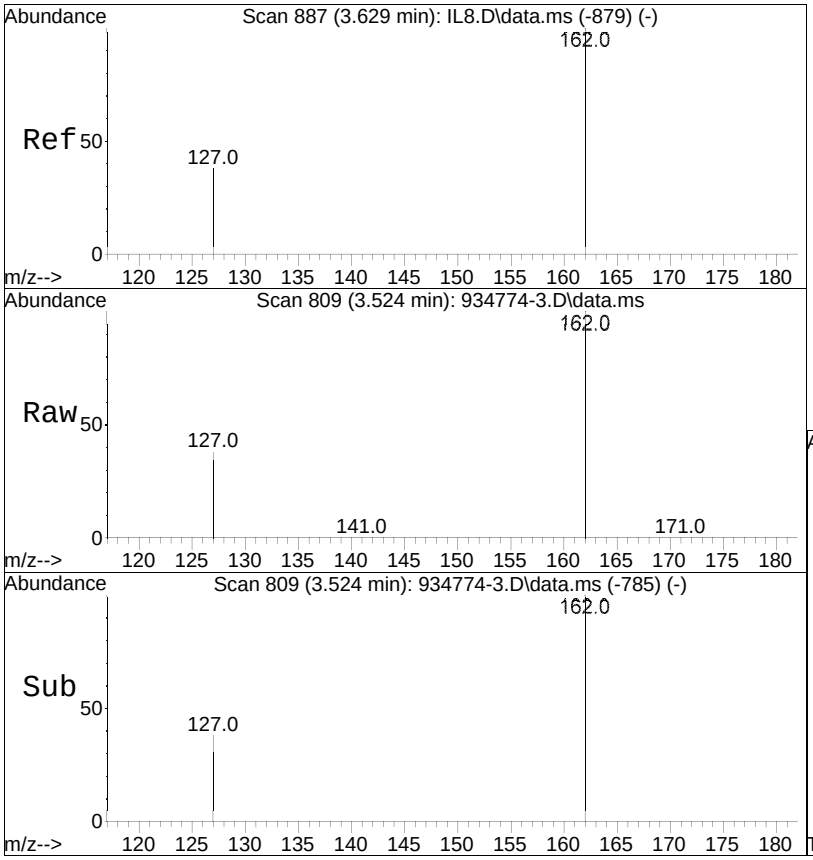


#11
2-Methylnaphthalene
Concen: 1250.59 ng/ml
RT: 3.253 min Scan# 725
Delta R.T. -0.005 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:142 Resp: 106760

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.8	110.6

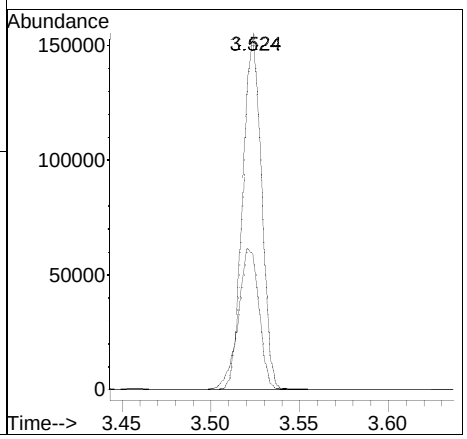


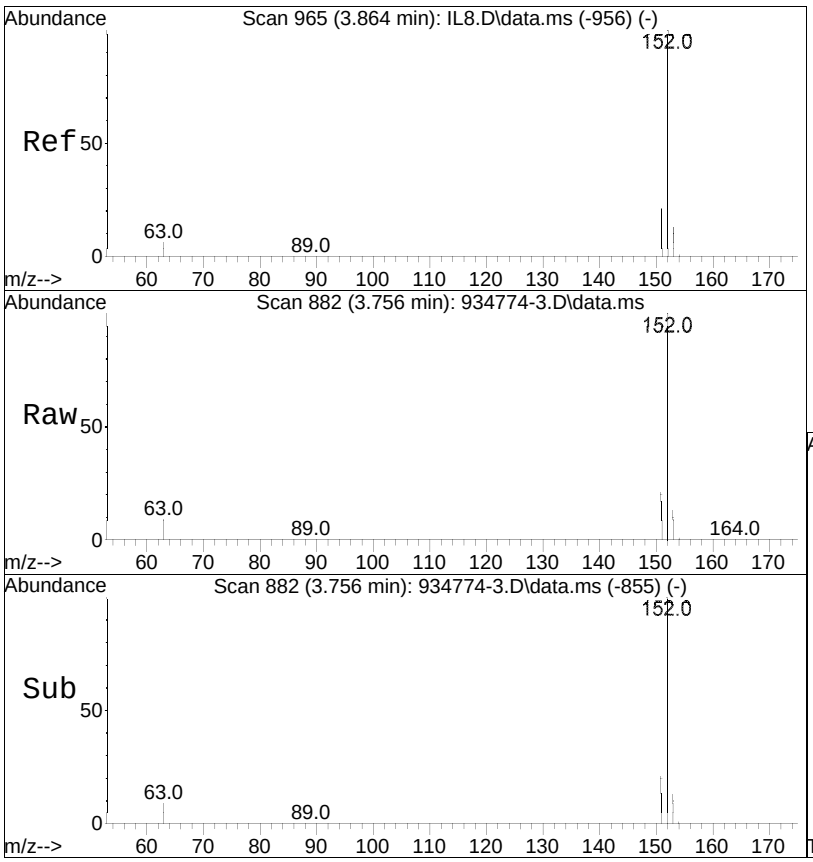


#14
2-Chloronaphthalene
Concen: 1276.81 ng/ml
RT: 3.524 min Scan# 809
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:162 Resp: 111403

Ion	Ratio	Lower	Upper
162	100		
127	44.6	32.0	48.0

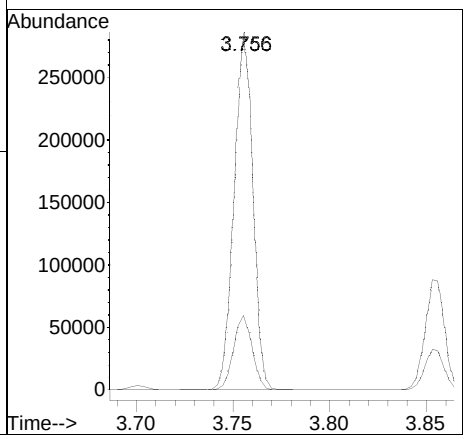


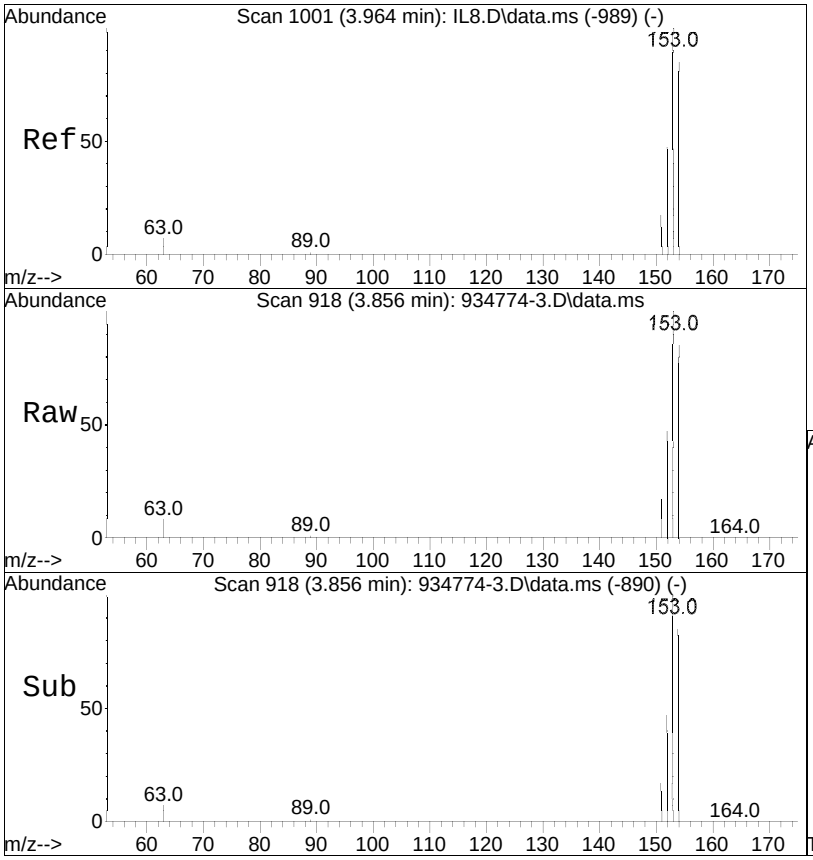


#16
Acenaphthylene
Concen: 1497.28 ng/ml
RT: 3.756 min Scan# 882
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:152 Resp: 192263

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.5	24.7

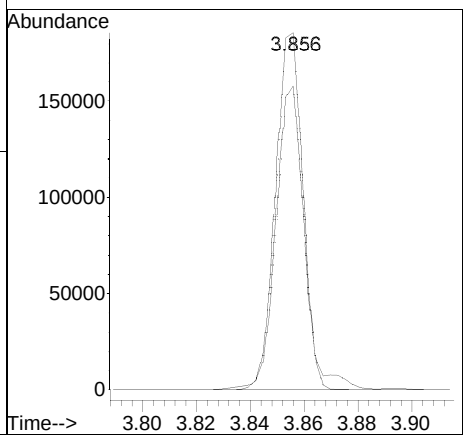


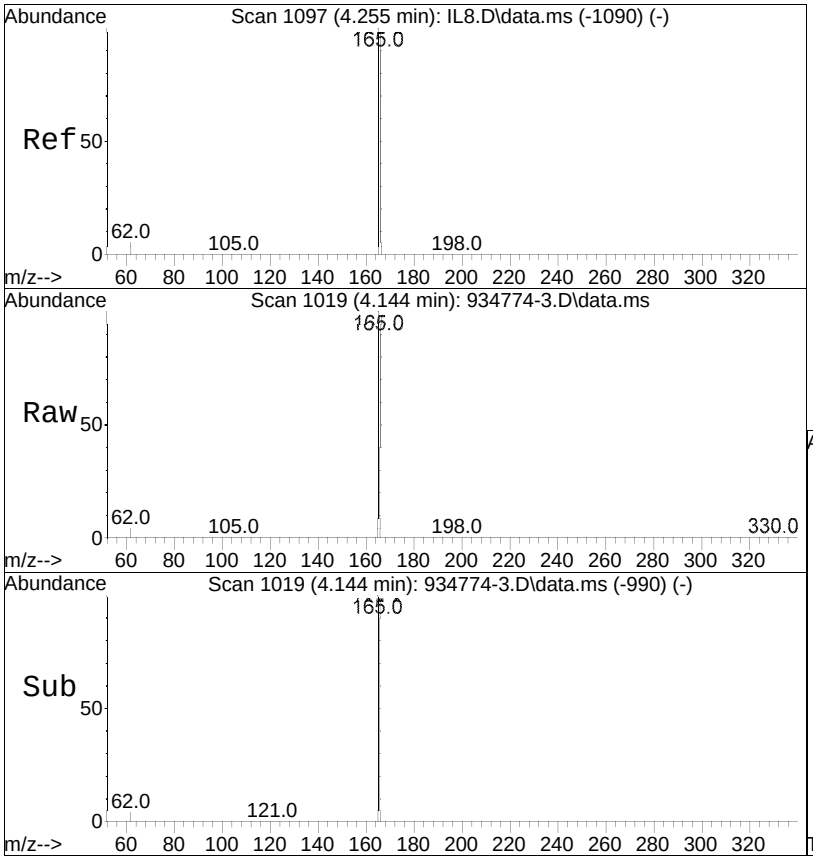


#18
Acenaphthene
Concen: 1393.27 ng/ml
RT: 3.856 min Scan# 918
Delta R.T. -0.001 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:153 Resp: 129235

Ion	Ratio	Lower	Upper
153	100		
154	89.0	73.4	110.2

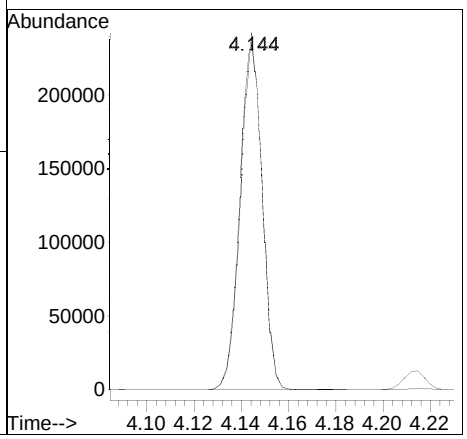


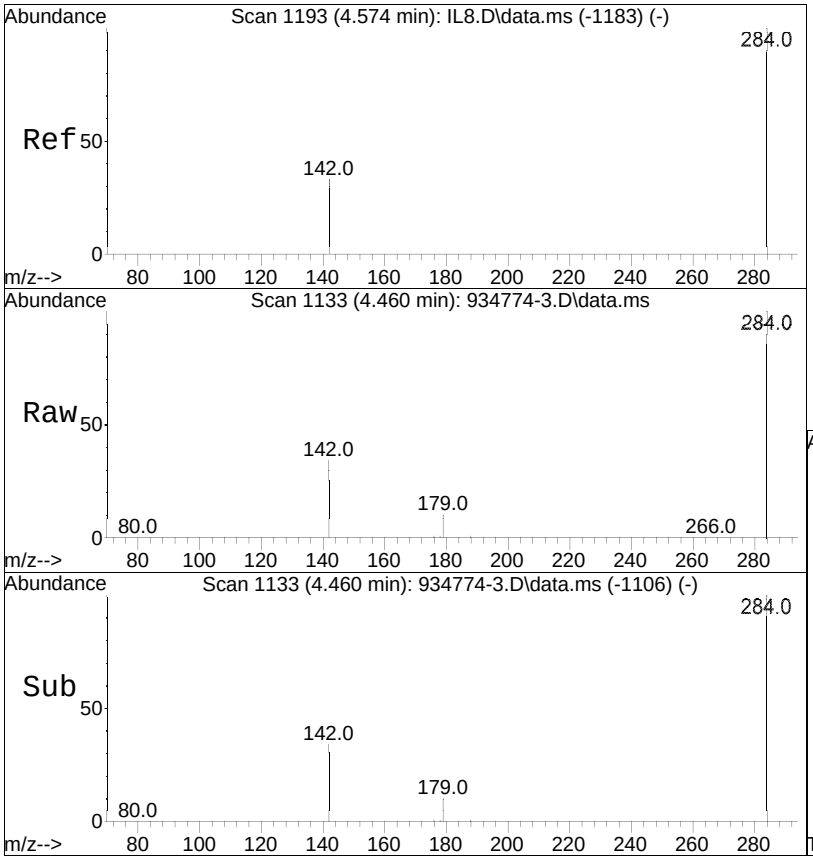


#20
Fluorene
Concen: 1522.78 ng/ml
RT: 4.144 min Scan# 1019
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:166 Resp: 152256

Ion	Ratio	Lower	Upper
166	100		
165	102.1	81.9	122.9

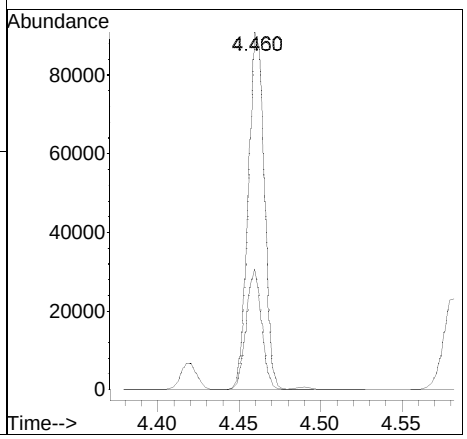


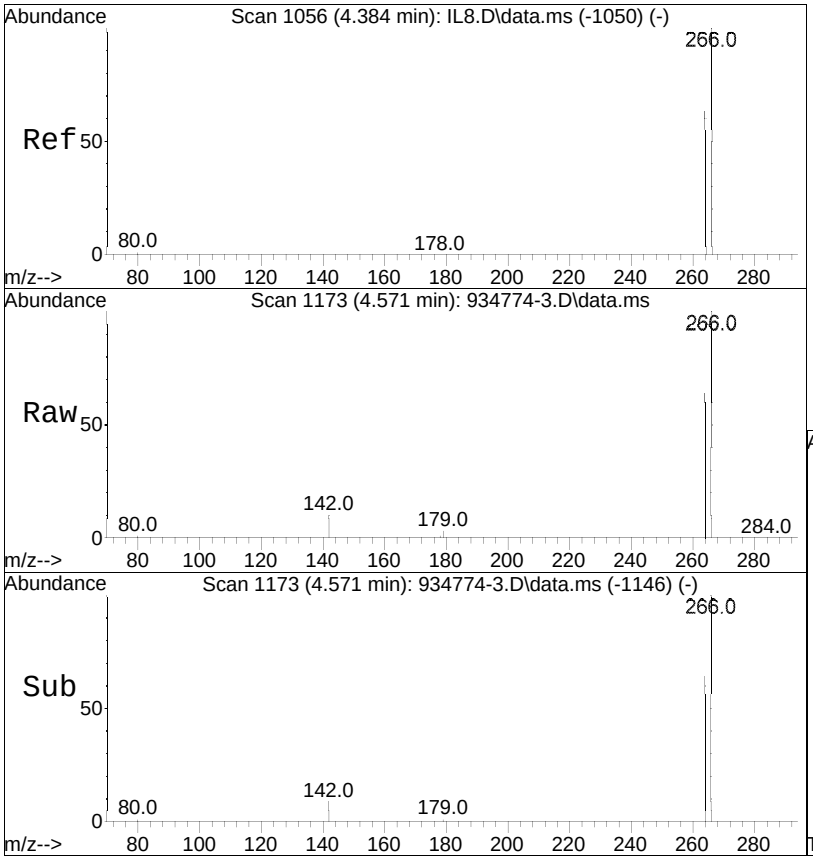


#24
Hexachlorobenzene
Concen: 1460.01 ng/ml
RT: 4.460 min Scan# 1133
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:284 Resp: 61520

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.8	40.2

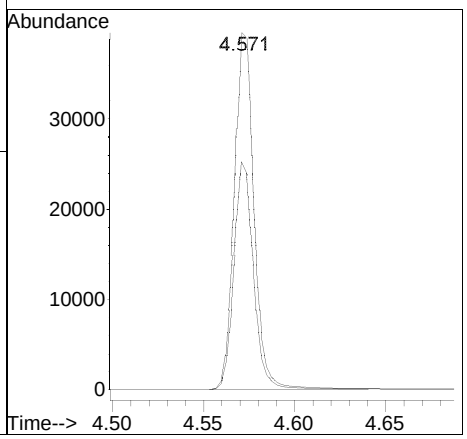


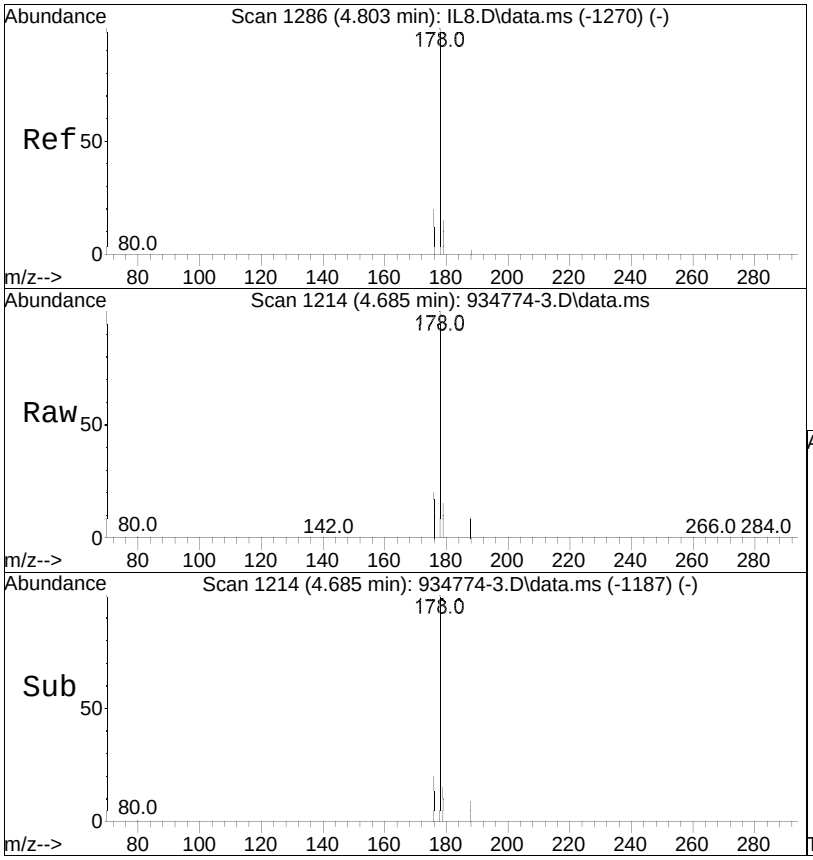


#25
Pentachlorophenol
Concen: 1216.49 ng/ml
RT: 4.571 min Scan# 1173
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:266 Resp: 29774

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.2	75.2

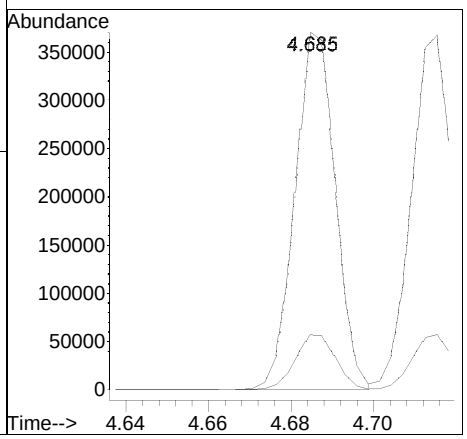


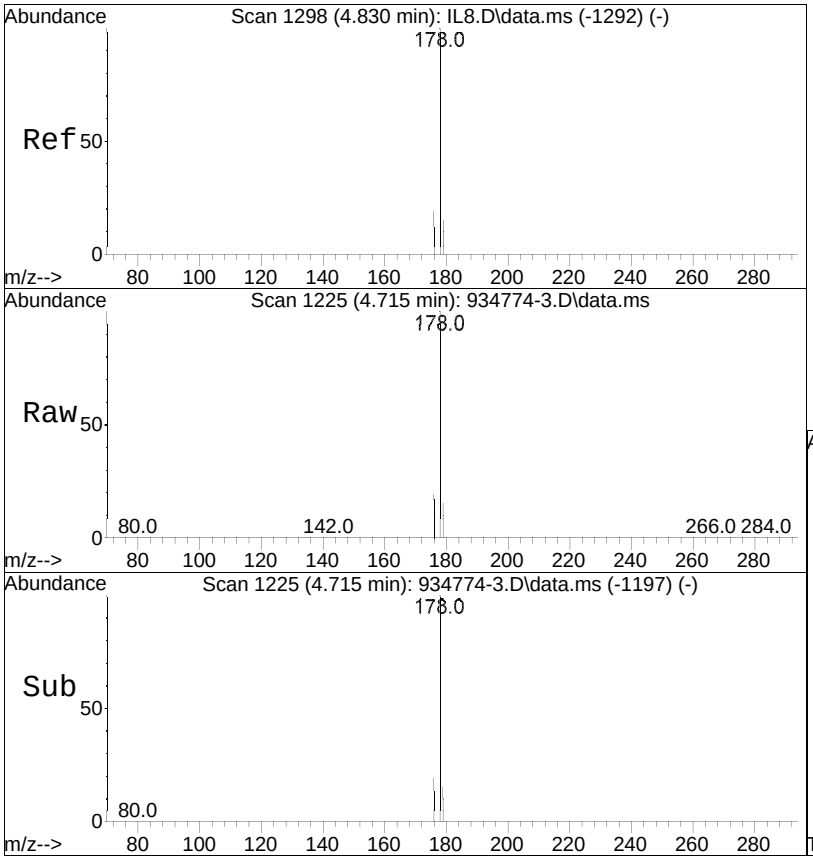


#26
Phenanthrene
Concen: 1526.66 ng/ml
RT: 4.685 min Scan# 1214
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:178 Resp: 251032

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

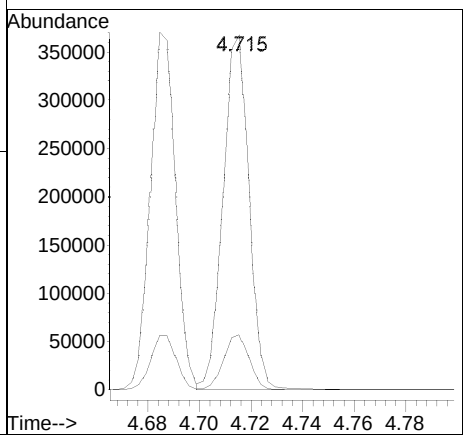


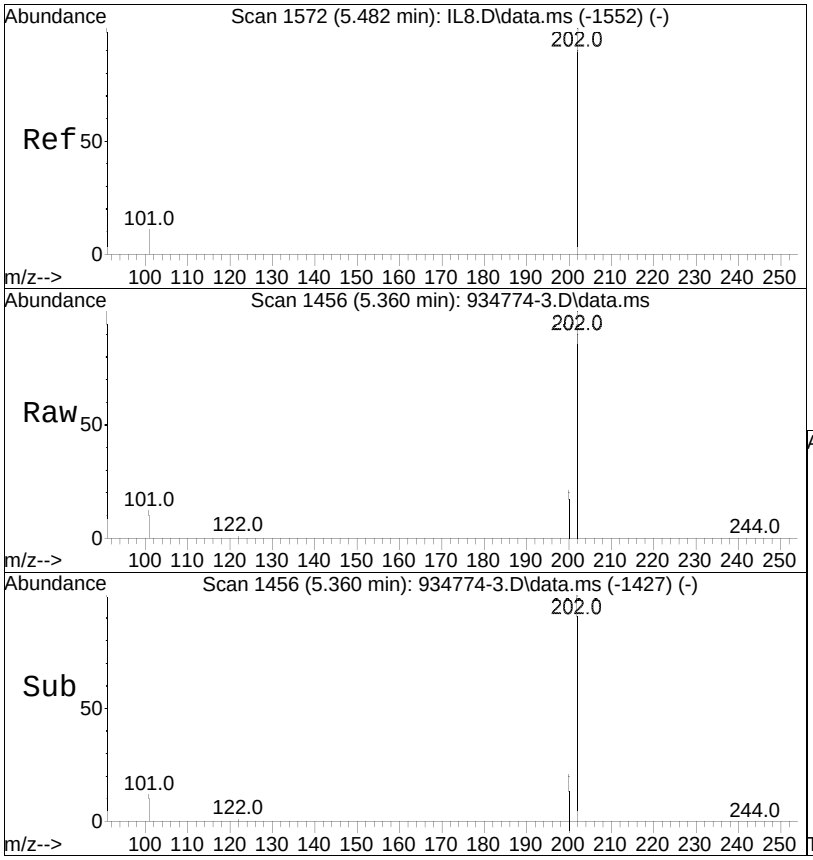


#27
Anthracene
Concen: 1577.08 ng/ml
RT: 4.715 min Scan# 1225
Delta R.T. -0.001 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:178 Resp: 256224

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

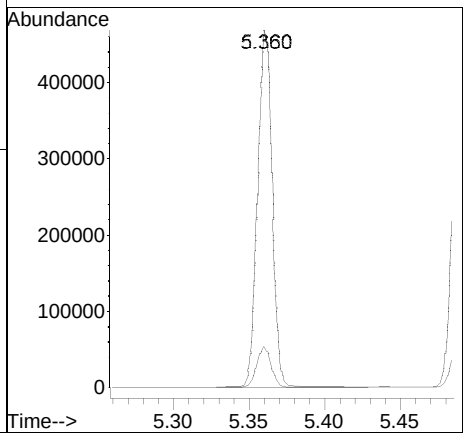


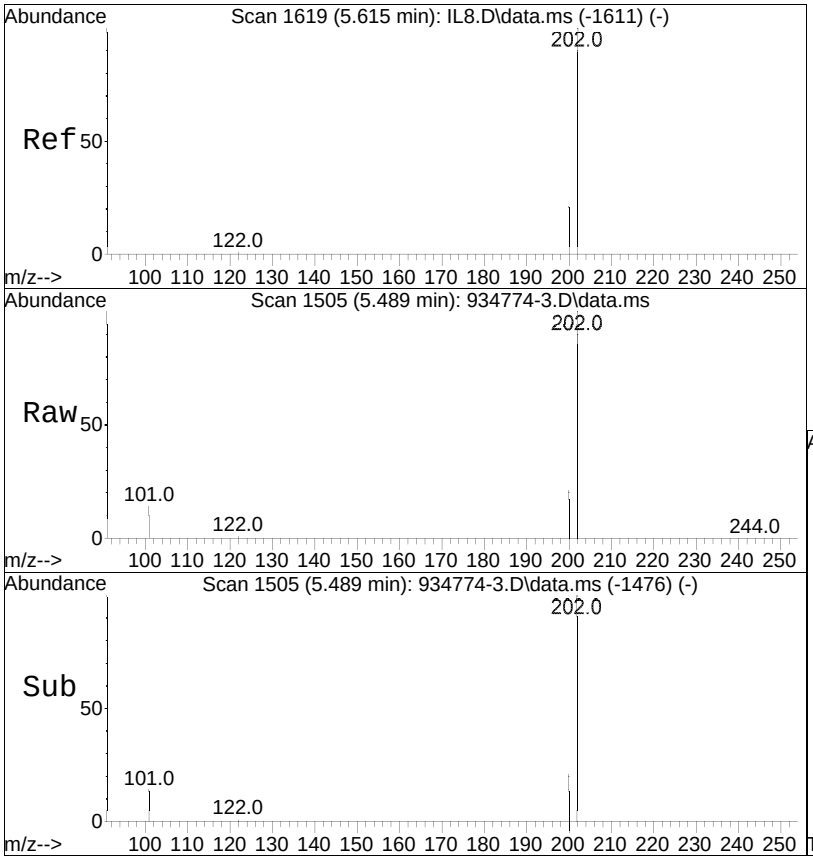


#28
Fluoranthene
Concen: 1764.52 ng/ml
RT: 5.360 min Scan# 1456
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:202 Resp: 314673

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.0	13.6

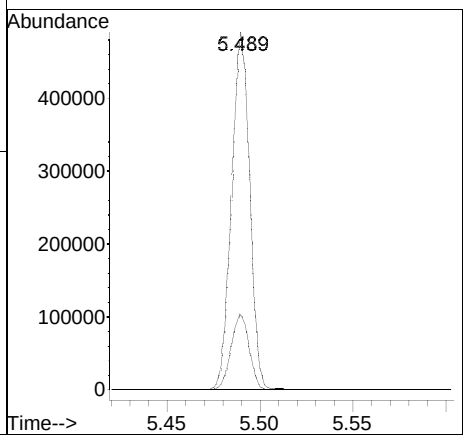


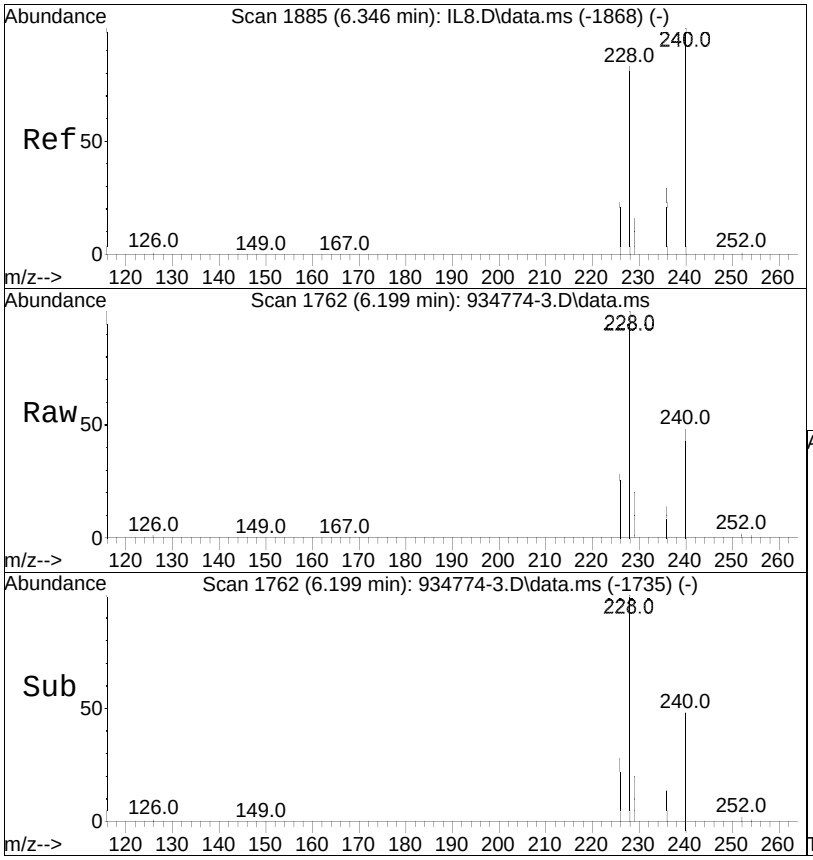


#29
Pyrene
Concen: 1772.72 ng/ml
RT: 5.489 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:202 Resp: 327814

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

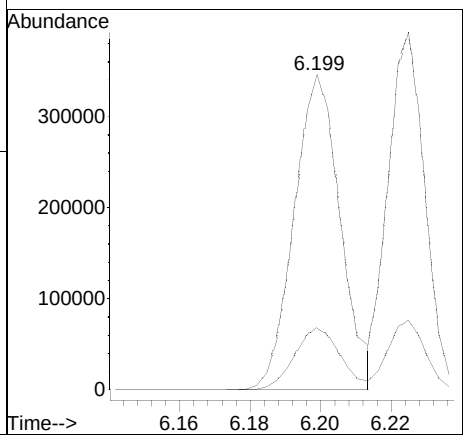


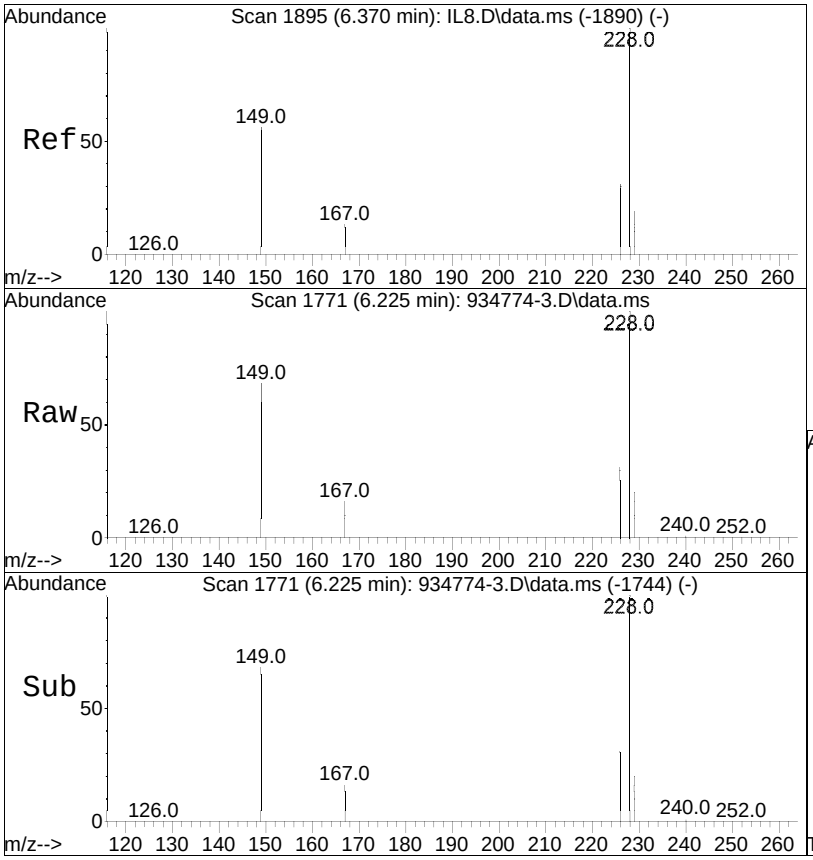


#32
Benzo[a]anthracene
Concen: 1622.15 ng/ml
RT: 6.199 min Scan# 1762
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:228 Resp: 314415

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

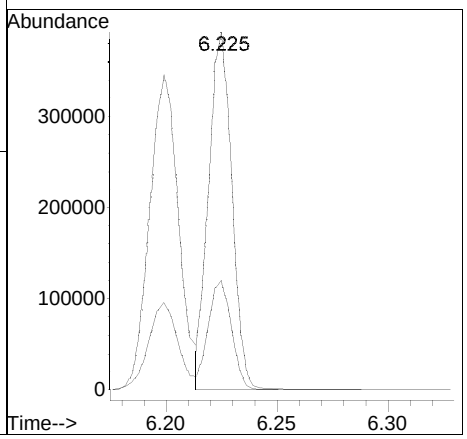


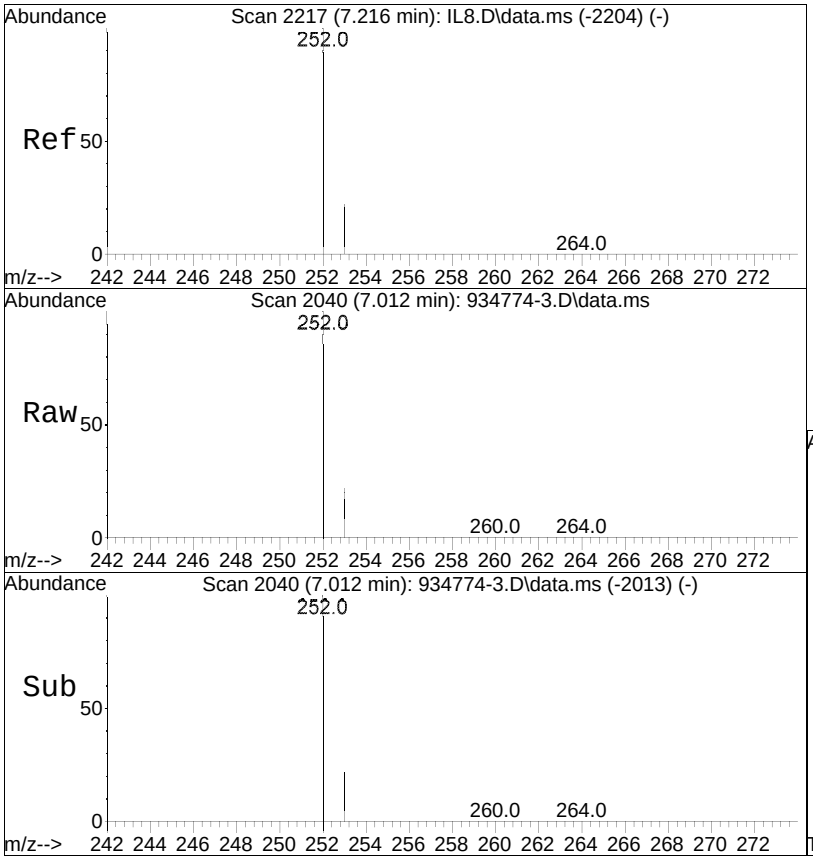


#34
Chrysene
Concen: 1549.59 ng/ml
RT: 6.225 min Scan# 1771
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:228 Resp: 284492

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

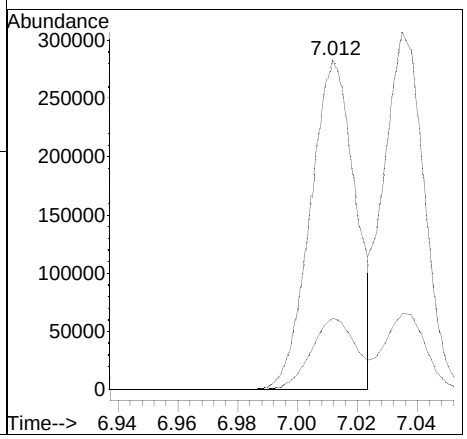


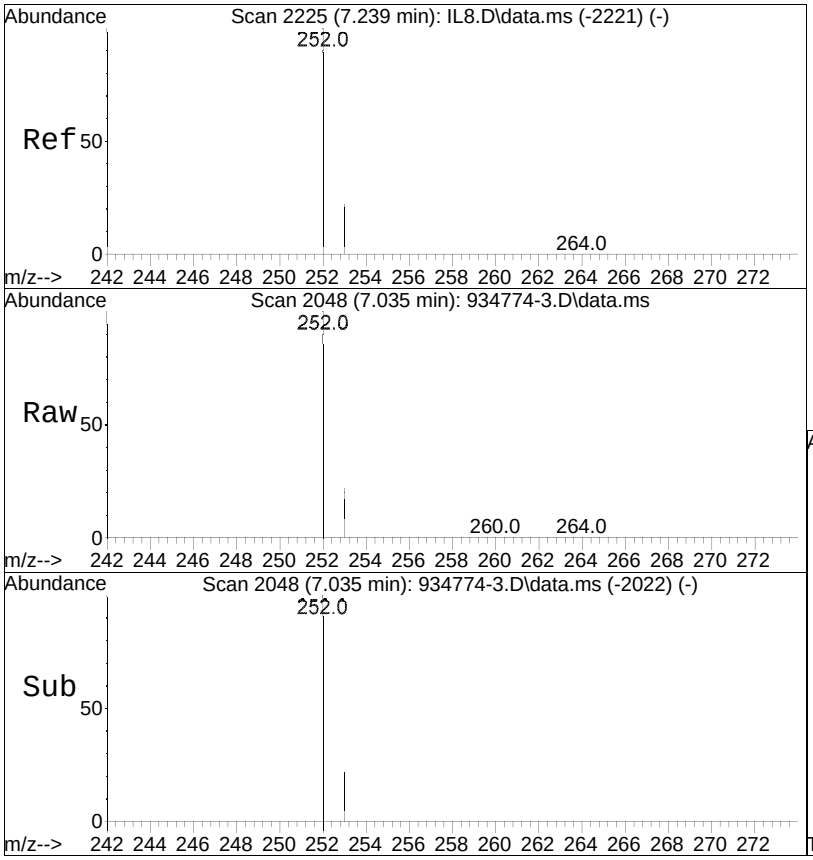


#37
Benzo[b]fluoranthene
Concen: 1733.83 ng/ml
RT: 7.012 min Scan# 2040
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:252 Resp: 296034

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

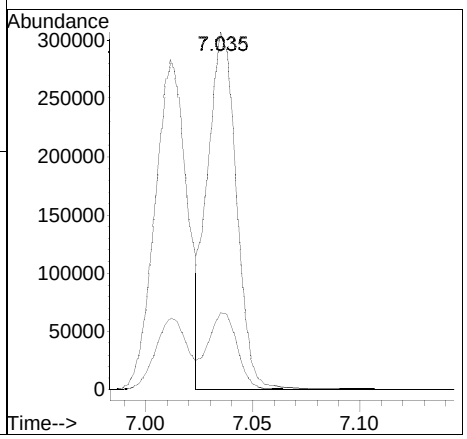


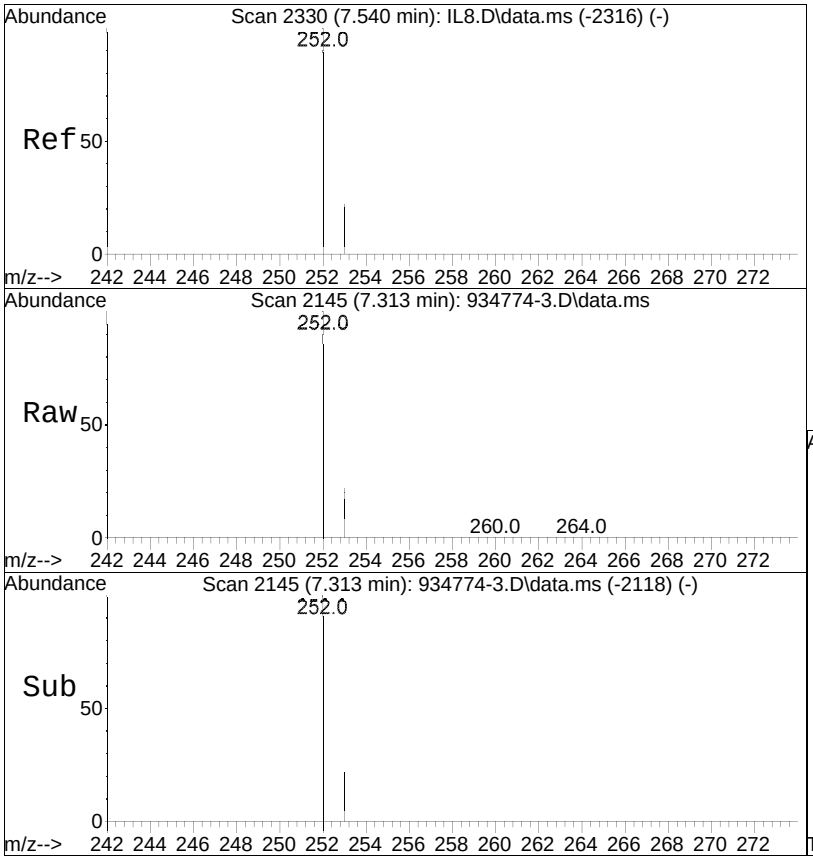


#38
Benzo[k]fluoranthene
Concen: 1761.04 ng/ml
RT: 7.035 min Scan# 2048
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:252 Resp: 286254

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

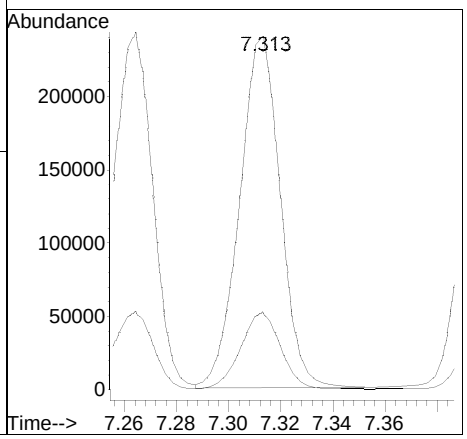


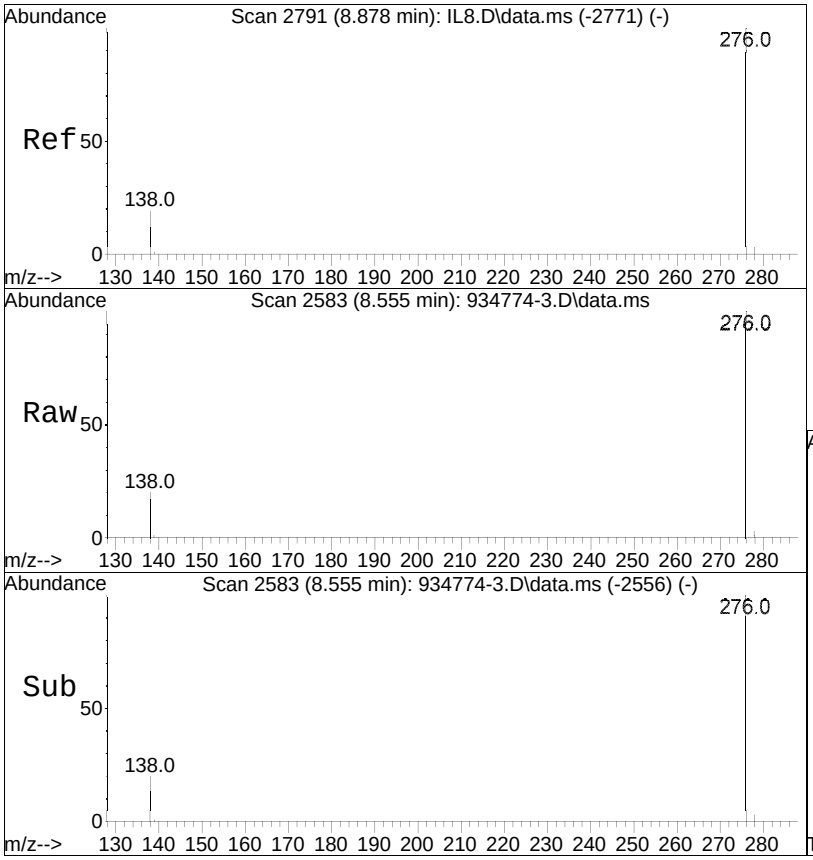


#39
Benzo[a]pyrene
Concen: 1833.83 ng/ml
RT: 7.313 min Scan# 2145
Delta R.T. -0.002 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:252 Resp: 258104

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

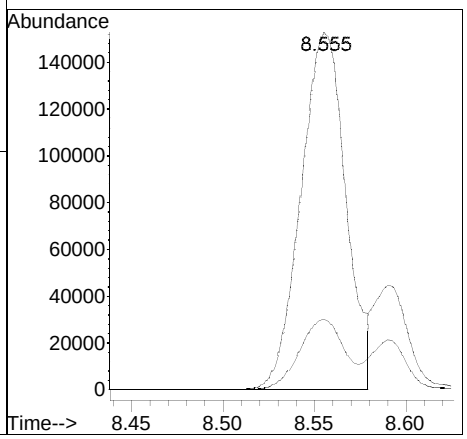


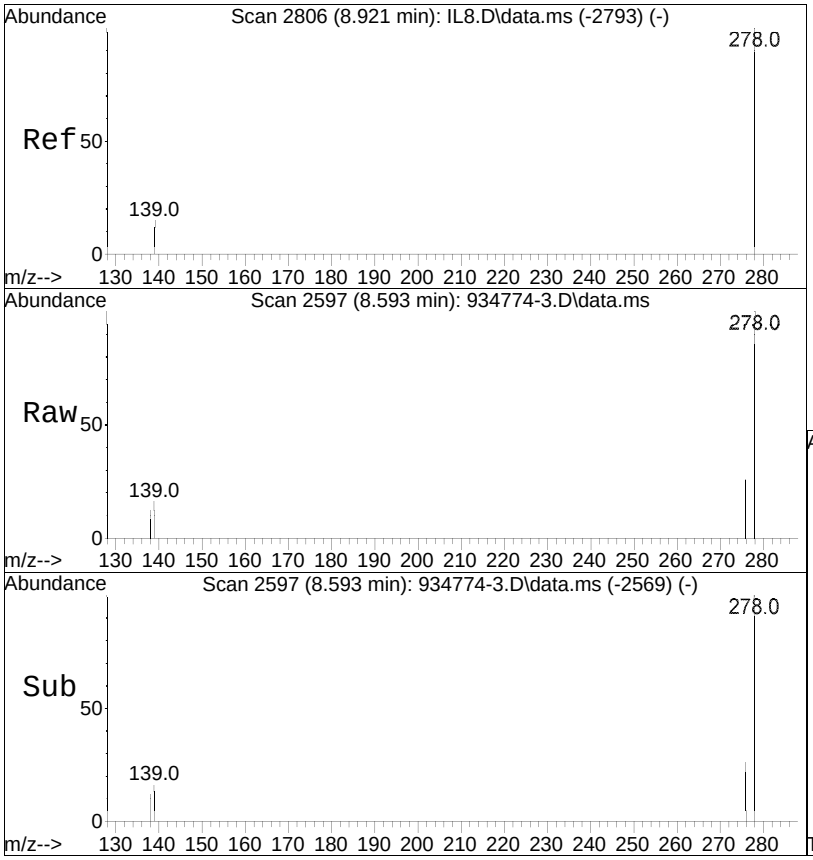


#40
Indeno[1,2,3-cd]pyrene
Concen: 1958.08 ng/ml
RT: 8.555 min Scan# 2583
Delta R.T. -0.007 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:276 Resp: 259548

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

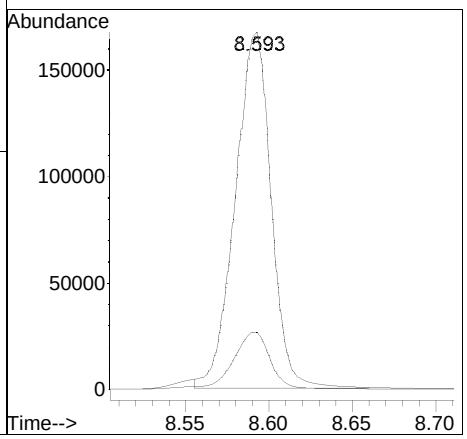


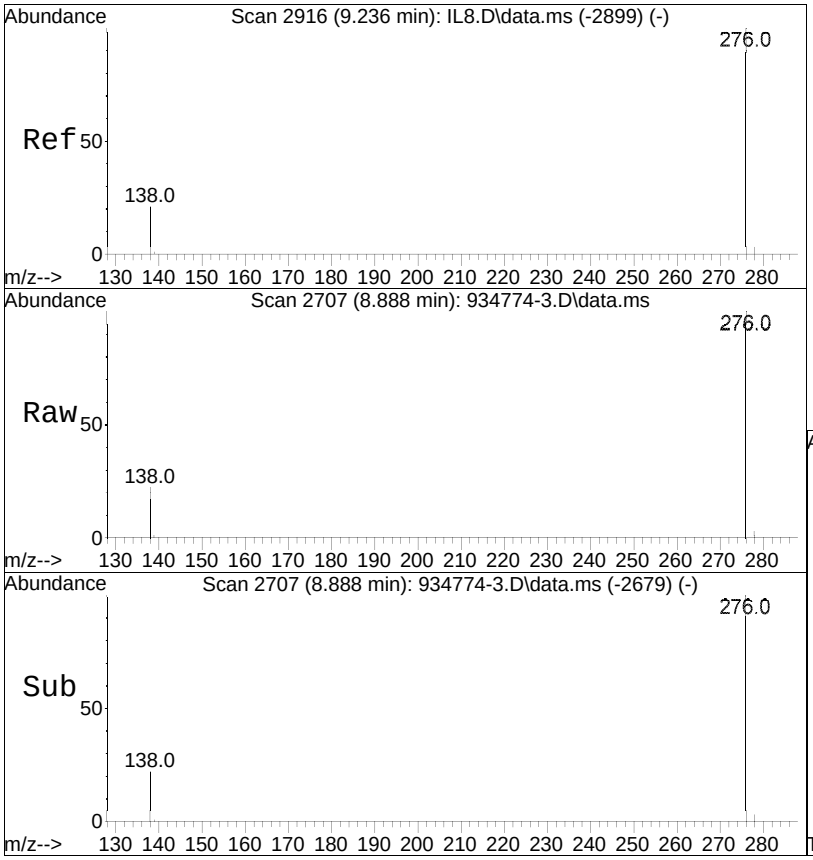


#41
Dibenzo[a,h]anthracene
Concen: 1956.32 ng/ml M6
RT: 8.593 min Scan# 2597
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:278 Resp: 248311

Ion	Ratio	Lower	Upper
278	100		
139	16.9	14.0	21.0

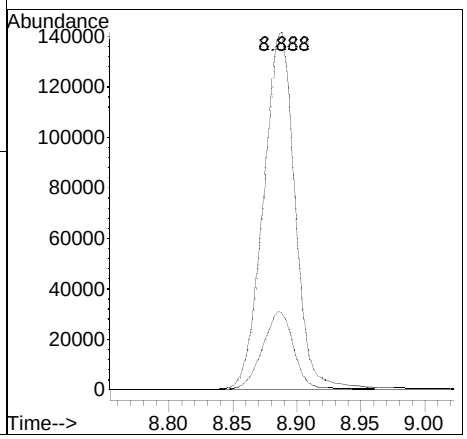




#42
Benzo[g,h,i]perylene
Concen: 1772.26 ng/ml
RT: 8.888 min Scan# 2707
Delta R.T. -0.004 min
Lab File: 934774-3.D
Acq: 17 Jun 2024 09:26 am

Tgt Ion:276 Resp: 238999

Ion	Ratio	Lower	Upper
276	100		
138	21.8	17.8	26.8

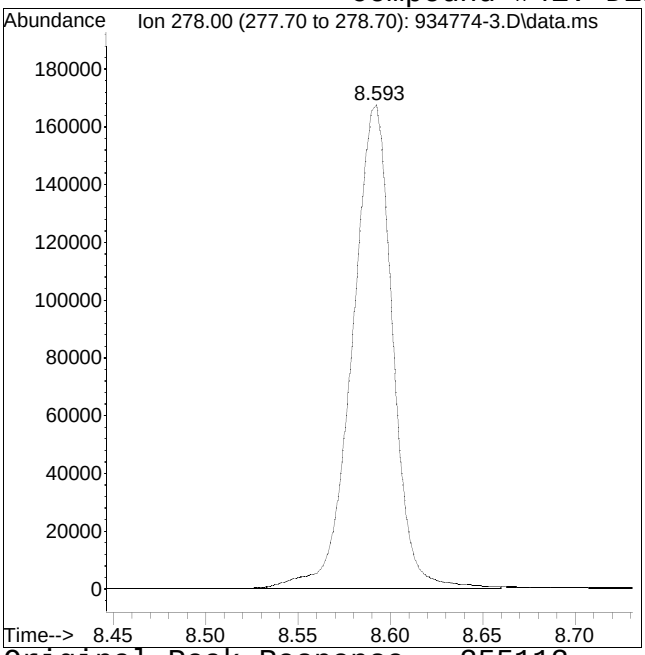


Manual Integration Report

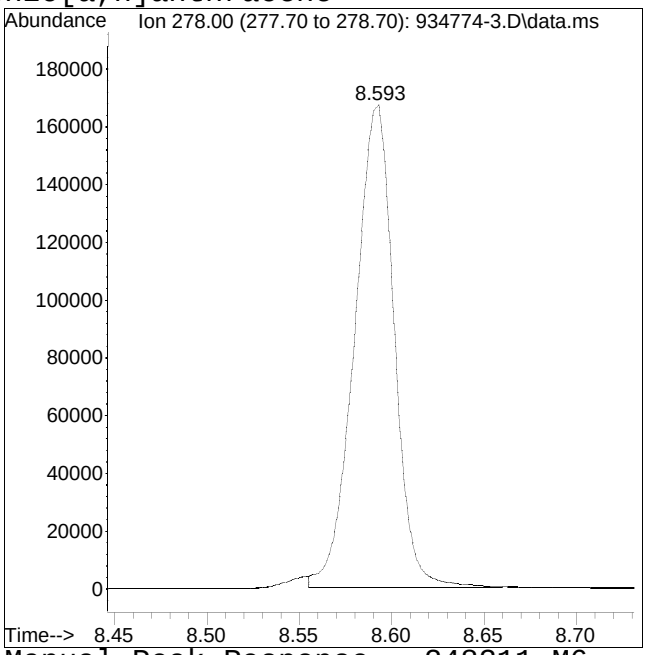
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 934774-3.D
Date Inj'd : 6/17/2024 9:26 am
Sample : WG1934774-3,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 6/17/2024 9:39 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 255112



Manual Peak Response = 248311 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 11:31 am

Work Group: WG1934774 for Department: 2 Organic Preparation

Created: 15-JUN-24 Due: Operator: DLP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432371-03	SB-1 (GW)	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0617	0617	S0	Amber-A.1
L2432371-04	SB-2 (GW)	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0617	0617	S0	Amber-A.1
L2432633-01	MW-11S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-02	MW-11D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-03	MW-13S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432633-04	MW-13D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
L2432791-34	FB_06112024	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0618	0618	S0	Amber-A.1
WG1934774-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1934774-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1934774-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1934774-3 WG1934774-2

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270SIM\sv120\240521RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRVT.M	TUNE	WG1927083,,ical	5/21/2024 9:54 am
2	IL10.D	fast-SIM-LVI	IL10,32,,5000.0ng/mL lo	WG1927083,,ical	5/21/2024 10:21 am
3	IL9.D	fast-SIM-LVI	IL9,32,,2500.0ng/mL lot	WG1927083,,ical	5/21/2024 10:37 am
4	IL8.D	fast-SIM-LVI	IL8,32,,1000.0ng/mL lot	WG1927083,,ical	5/21/2024 10:53 am
5	IL7.D	fast-SIM-LVI	IL7,32,,500.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:10 am
6	IL6.D	fast-SIM-LVI	IL6,32,,100.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:26 am
7	IL5.D	fast-SIM-LVI	IL5,32,,40.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:42 am
8	IL4.D	fast-SIM-LVI	IL4,32,,10.0ng/mL lot#1	WG1927083,,ical	5/21/2024 11:59 am
9	IL3.D	fast-SIM-LVI	IL3,32,,5.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:15 pm
10	IL2.D	fast-SIM-LVI	IL2,32,,2.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:32 pm
11	IL1.D	fast-SIM-LVI	IL1,32,,1.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:48 pm
12	ICV.D	fast-SIM-LVI	ng/mL lot #10475		5/21/2024 1:05 pm
13	insblk.D	fast-SIM-LVI			5/21/2024 1:21 pm
14	TUNEa.D	DFTPPRVT.M	TUNEa	WG1927083,,ical	5/22/2024 1:16 pm
15	IL10a.D	fast-SIM-LVI	IL10,32,,5000.0ng/mL lo	WG1927083,,ical	5/22/2024 1:32 pm
16	ICVa.D	fast-SIM-LVI	CQICV,32,,1000.0ng/mL l	WG1927083,,ical	5/22/2024 1:49 pm
17	insblka.D	fast-SIM-LVI			5/22/2024 2:05 pm

Dep.: GCMS
Inst: SV120
Date: **06/17/24**
Run:

Method
GC: 8270 SIM

Seq: WG1935125

Vial	Data File	Sample	ICAL	notes	initials
48	deg0617	wg-1,32,, dftpp SV120 lot#10809	21160		
49	ccv0617	wg-3,32,, ICV10475 0617			
50	blk0617	instrument Blank			
1	934857-1	WG1934857-1,32,,ah			
2	934857-2	WG1934857-2,32,,ah			
3	934857-3	WG1934857-3,32,,ah			
4	33817-01	L2433817-01,32,,R3A,ah			
5	33652-02	L2433652-02,32,,R3A,ah			
6	934767-2	WG1934767/74-2,32,,ah			
7	934767-3	WG1934767/74-3,32,,ah			
8	934767-1	WG1934767/74-1,32,,ah			
9	32371-03	L2432371-03,32,,ah			
10	32371-04	L2432371-04,32,,ah			
11	32594-01	L2432594-01,32,,ah			
12	32594-02	L2432594-02,32,,ah			
13	32594-03	L2432594-03,32,,ah			
14	32594-04	L2432594-04,32,,ah			
15	32594-05	L2432594-05,32,,ah			
16	32594-06	L2432594-06,32,,ah			
17	32594-07	L2432594-07,32,,ah			
18	319-01d1	L2432319-01d,32,5,ah			
19	4089-6d1	WG1934089-6d,32,5,ah			
20	4089-7d1	WG1934089-7d,32,5,ah			
21	32633-01	L2432633-01,32,,ah			
22	32633-02	L2432633-02,32,,ah			
23	32633-03	L2432633-03,32,,ah			
24	32633-04	L2432633-04,32,,ah			
25	32791-34	L2432791-34,32,,ah			
26	934897-2	WG1934897-2,32,,ah			
27	934897-3	WG1934897-3,32,,ah			
28	934897-1	WG1934897-1,32,,ah			
29	32784-01	L2432784-01,32,,ah			
30	32784-03	L2432784-03,32,,ah			
31	934897-4	WG1934897-4,32,,ah			
32	934897-5	WG1934897-5,32,,ah			
33	32784-04	L2432784-04,32,,ah			
34	32784-05	L2432784-05,32,,ah			
35	32784-06	L2432784-06,32,,ah			
36	32784-07	L2432784-07,32,,ah			
37	32784-08	L2432784-08,32,,ah			
38	32784-09	L2432784-09,32,,ah			

Dep.: GCMS
Inst: SV120
Date: **06/17/24**
Run:

Method
GC: 8270 SIM

Seq: WG1935125

39	32784-10	L2432784-10,32,,ah
40	32784-11	L2432784-11,32,,ah

ORGANIC ELN REPORT

Workgroup: WG1934774

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10736aj,11/06/2024,d1,4,4
Spike Type: ABN-SIM **Lot #:** 10737-10/31/24 ;; 10738-8/30/2
Spike Verify by: NBD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A050724
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432371-03 WATER	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:30	Victor Kono	1	H
L2432371-04 WATER	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:30	Victor Kono	1	H
L2432633-01 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:30	Victor Kono	1	H
L2432633-02 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:50	Victor Kono	1	H
L2432633-03 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:50	Victor Kono	1	H
L2432633-04 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:50	Victor Kono	1	H
L2432791-34 SAMP	06/15/24 08:20	Nicholas Dunn	100	<2, >12	.1		06/15/24 17:50	Victor Kono	1	H

Reported: 18-JUN-24 11:31 AM

ORGANIC ELN REPORT

Workgroup: WG1934774

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1934774-1 BLANK	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1		06/15/24 17:30	Victor Kono	1	H
	WG1934766, WG1934767, WG1934773									
WG1934774-2 LCS	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1	.1	06/15/24 17:30	Victor Kono	1	H
WG1934774-3 LCSD	06/15/24 08:20	Nicholas Dunn	100	<2,>12	.1	.1	06/15/24 17:30	Victor Kono	1	H

Reported: 18-JUN-24 11:31 AM

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-11S (L2432633-01)	36	--	--	--	--	--	0
MW-11D (L2432633-02)	34	--	--	--	--	--	0
MW-13S (L2432633-03)	36	--	--	--	--	--	0
MW-13D (L2432633-04)	33	--	--	--	--	--	0
WG1934101-1BLANK	39	--	--	--	--	--	0
WG1934101-2LCS	36	--	--	--	--	--	0
WG1934101-3LCSD	39	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-1,4-DIOXANE-SIM

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934101-2 **Analysis Date** : 06/14/24 21:50	**File ID**	: F2306142433
LCSD Sample ID	: WG1934101-3 **Analysis Date** : 06/14/24 22:12	**File ID**	: F2306142434

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	5000	6200	124	5000	6250	125	1	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934101-1	**Lab File ID**	: F2306142432
Instrument ID	: PAH23	**Extraction Date**	: 06/13/24
Matrix	: WATER	**Analysis Date**	: 06/14/24 21:28
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1934101-2LCS	WG1934101-2	06/14/24 21:50
WG1934101-3LCSD	WG1934101-3	06/14/24 22:12
MW-13S	L2432633-03	06/15/24 04:42
MW-11S	L2432633-01	06/15/24 05:04
MW-11D	L2432633-02	06/15/24 05:25
MW-13D	L2432633-04	06/15/24 05:47

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Analysis Date**	: 06/10/24 09:51
Tune Standard	: R1839952-1	**Tune File ID**	: F2306102401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39
68	Less than 2.0% of mass 69	0.7 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	48.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	23.2
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	14.4
442	Base Peak, or >50% of mass 198	54.8
443	15.0 - 24.0% of mass 442	10.4 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1839952-2	F2306102403	06/10/24 11:18
STD 50	R1839952-3	F2306102404	06/10/24 15:06
STD 100	R1839952-4	F2306102405	06/10/24 15:27
STD 500	R1839952-5	F2306102406	06/10/24 15:49
STD 1000	R1839952-6	F2306102407	06/10/24 16:11
STD 5000	R1839952-7	F2306102408	06/10/24 16:33
STD 10000	R1839952-9	F2306102409	06/10/24 16:55
ICV Quant Report	R1839952-8	F2306102410	06/10/24 17:17

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Analysis Date**	: 06/14/24 20:31
Tune Standard	: WG1934447-3	**Tune File ID**	: F2306142430_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.3
68	Less than 2.0% of mass 69	0.7 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	25
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	14.7
442	Base Peak, or >50% of mass 198	55.6
443	15.0 - 24.0% of mass 442	10.6 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1934447-4CCAL	WG1934447-4	F2306142431	06/14/24 21:06
WG1934101-1BLANK	WG1934101-1	F2306142432	06/14/24 21:28
WG1934101-2LCS	WG1934101-2	F2306142433	06/14/24 21:50
WG1934101-3LCSD	WG1934101-3	F2306142434	06/14/24 22:12
MW-13S	L2432633-03	F2306142452	06/15/24 04:42
MW-11S	L2432633-01	F2306142453	06/15/24 05:04
MW-11D	L2432633-02	F2306142454	06/15/24 05:25
MW-13D	L2432633-04	F2306142455	06/15/24 05:47

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Analysis Date**	: 06/14/24 21:06:00
Sample No	: WG1934447-4	**Lab File ID**	: F2306142431

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1934447-4	37148	7.79				
Upper Limit	74296	8.29				
Lower Limit	18574	7.29				
Sample ID						
WG1934101-1 BLANK	34256	7.79				
WG1934101-2 LCS	36039	7.80				
WG1934101-3 LCSD	36174	7.80				
MW-13S	37597	7.79				
MW-11S	37420	7.79				
MW-11D	38314	7.79				
MW-13D	38109	7.79				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 05:04
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306142453	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	33.2	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 05:25
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306142454	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	51.0	147	33.2	J

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 04:42
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306142452	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	33.2	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 05:47
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306142455	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	39.3	147	33.2	J

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934101-1	**Date Collected**	: NA
Client ID	: WG1934101-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/14/24 21:28
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306142432	**Analyst**	: CSP
Sample Amount	: 250 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142452.D
Acq On : 15 Jun 2024 04:42 am
Operator : PAH23:CSP
Sample : L2432633-03,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 12:16:05 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.466	64	6176	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.792	152	37597	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.466	64	6176	179.876	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 35.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

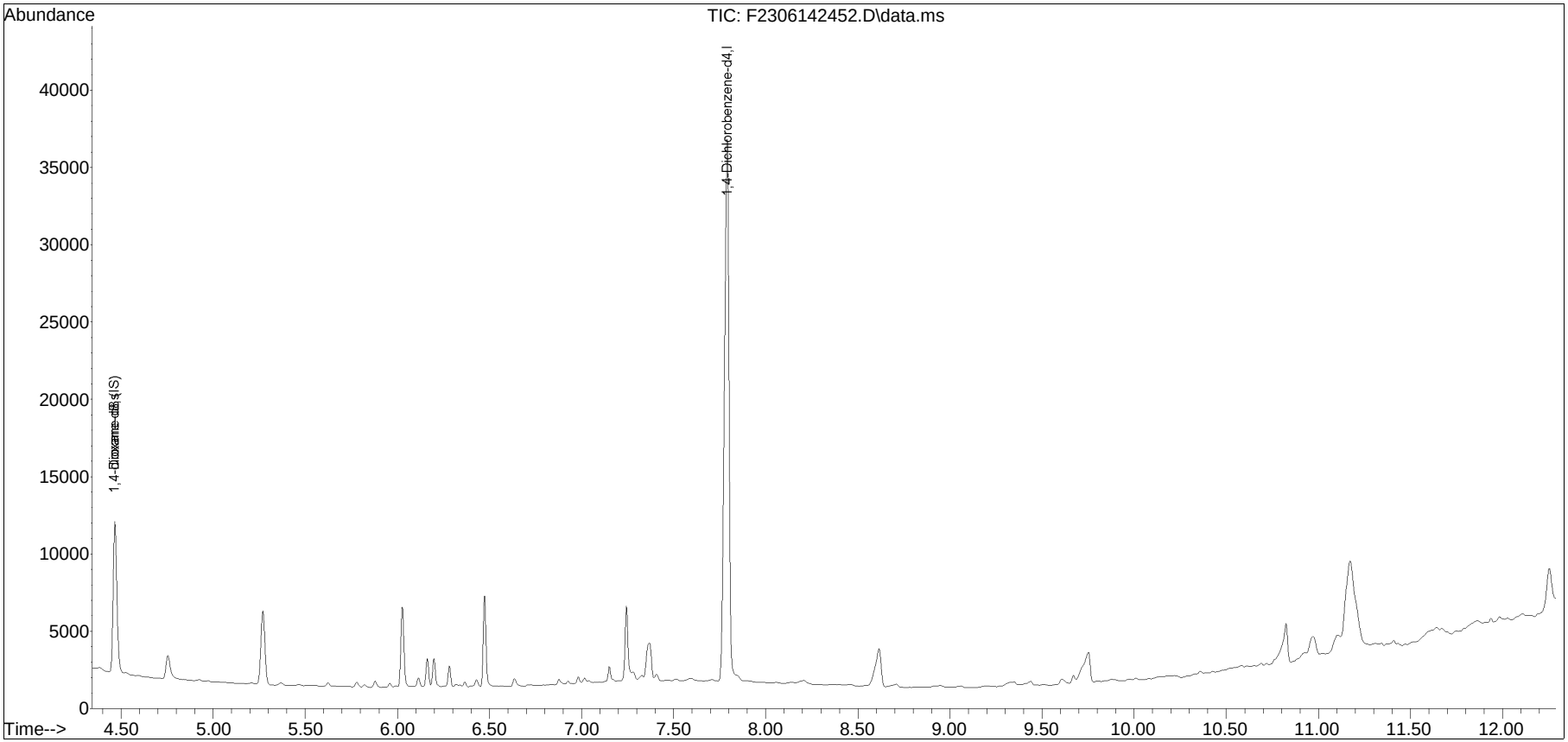
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142452.D
Acq On : 15 Jun 2024 04:42 am
Operator : PAH23:CSP
Sample : L2432633-03,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 12:16:05 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306142452.D	Operator	: PAH23:CSP
Date Inj'd	: 6/15/2024 4:42 am	Instrument	: PAH23
Sample	: L2432633-03,32,,	Quant Date	: 6/17/2024 12:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142453.D
Acq On : 15 Jun 2024 05:04 am
Operator : PAH23:CSP
Sample : L2432633-01,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Jun 17 12:16:07 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.463	64	6132	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.789	152	37420	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.463	64	6132	179.439	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 35.89%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

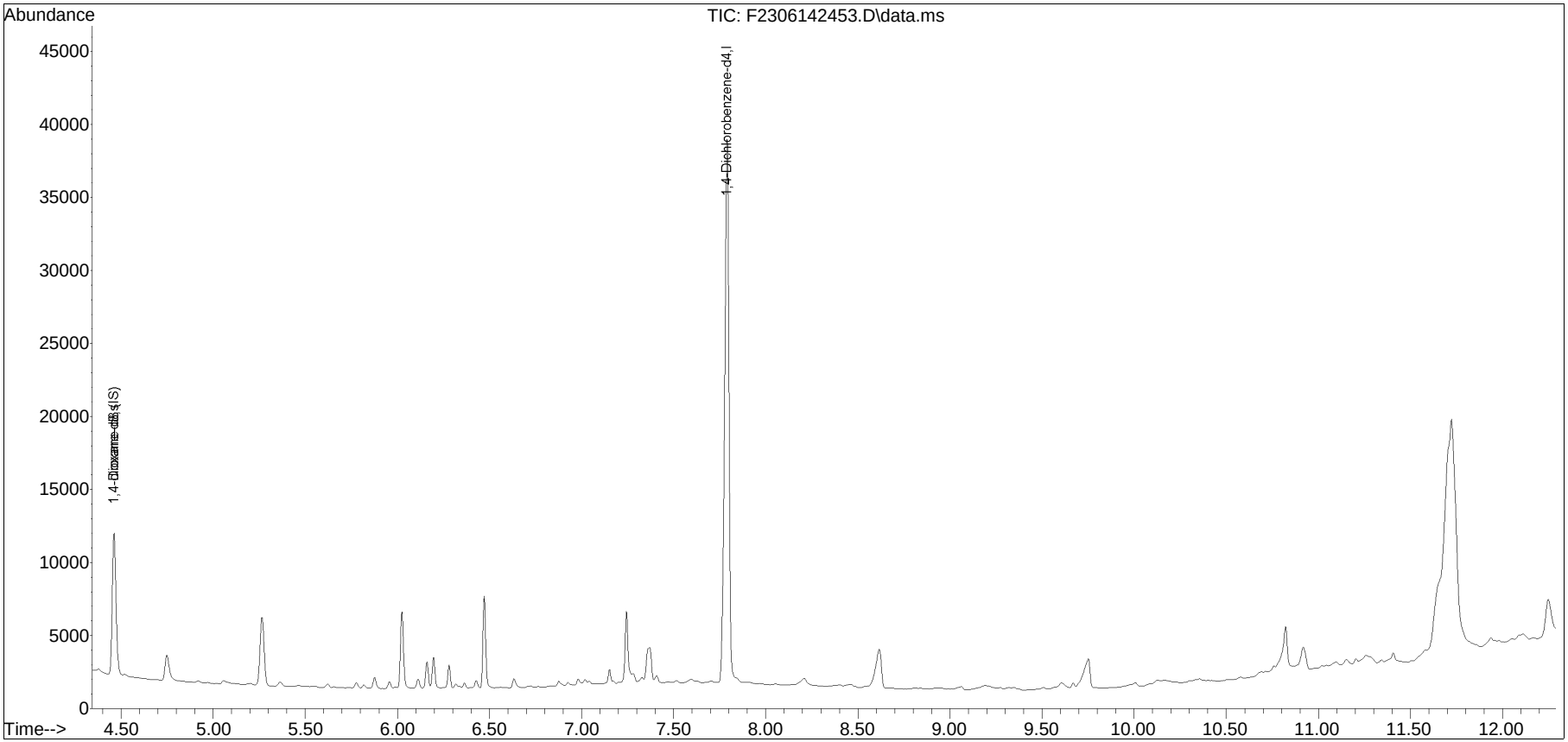
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142453.D
Acq On : 15 Jun 2024 05:04 am
Operator : PAH23:CSP
Sample : L2432633-01,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Jun 17 12:16:07 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306142453.D	Operator	: PAH23:CSP
Date Inj'd	: 6/15/2024 5:04 am	Instrument	: PAH23
Sample	: L2432633-01,32,,	Quant Date	: 6/17/2024 12:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142454.D
Acq On : 15 Jun 2024 05:25 am
Operator : PAH23:CSP
Sample : L2432633-02,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Jun 17 12:18:32 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.459	64	5963	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.792	152	38314	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.459	64	5963	170.422	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 34.08%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.521	88	72M2	5.206	ng/mL	

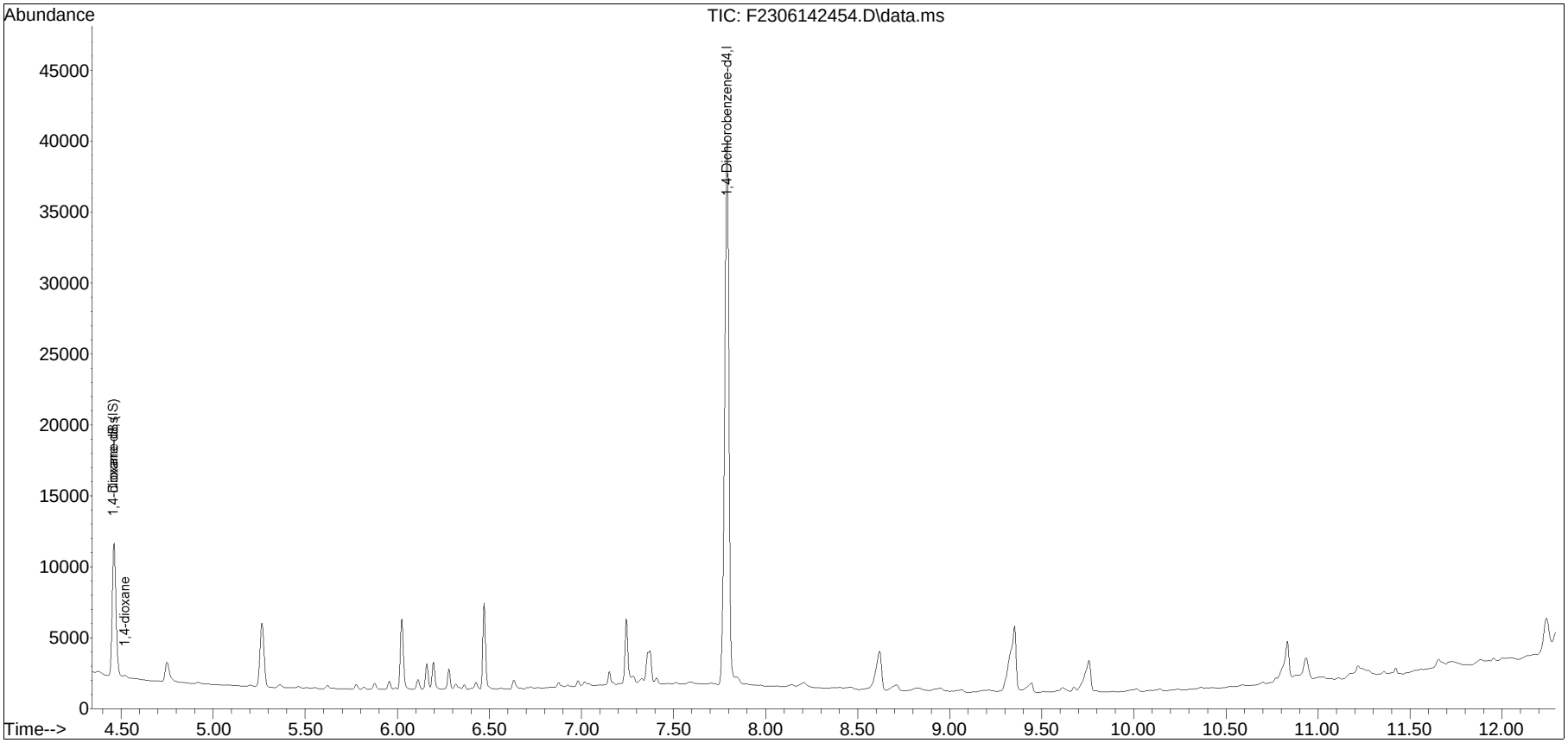
(#) = qualifier out of range (m) = manual integration (+) = signals summed

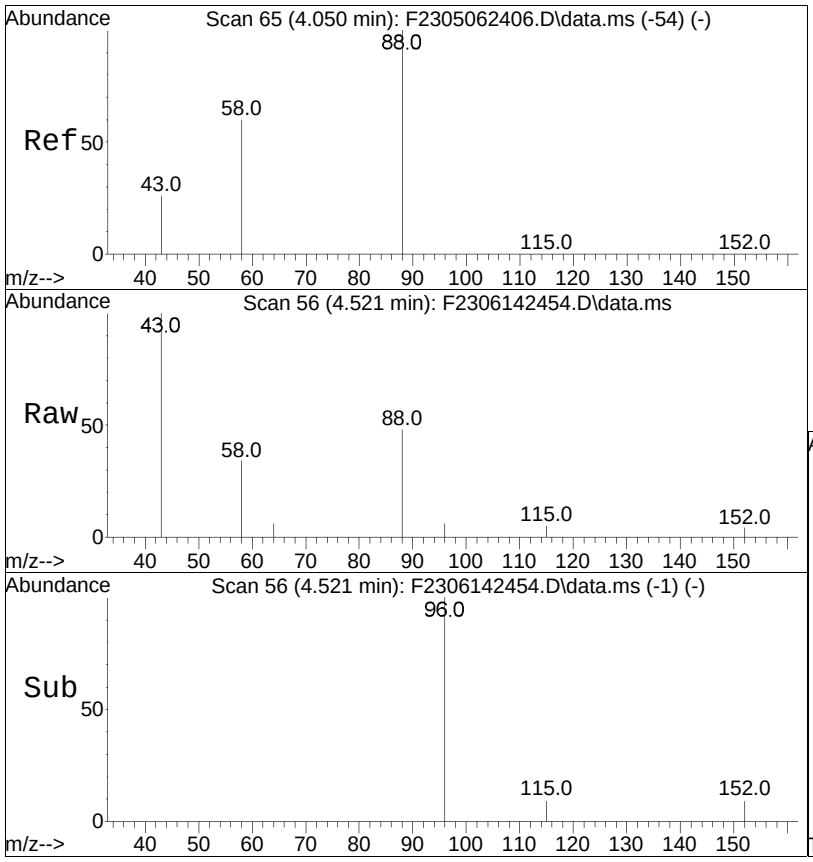
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142454.D
Acq On : 15 Jun 2024 05:25 am
Operator : PAH23:CSP
Sample : L2432633-02,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Jun 17 12:18:32 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

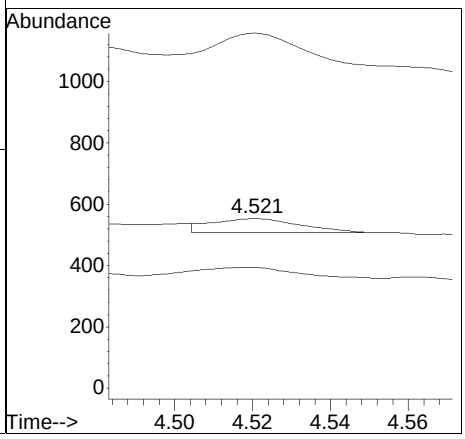




#2
1,4-dioxane
Concen: 5.21 ng/mL M2
RT: 4.521 min Scan# 56
Delta R.T. 0.032 min
Lab File: F2306142454.D
Acq: 15 Jun 2024 05:25 am

Tgt Ion: 88 Resp: 72

Ion	Ratio	Lower	Upper
88	100		
58	84.7	68.0	102.0
43	55.6	27.7	41.5#

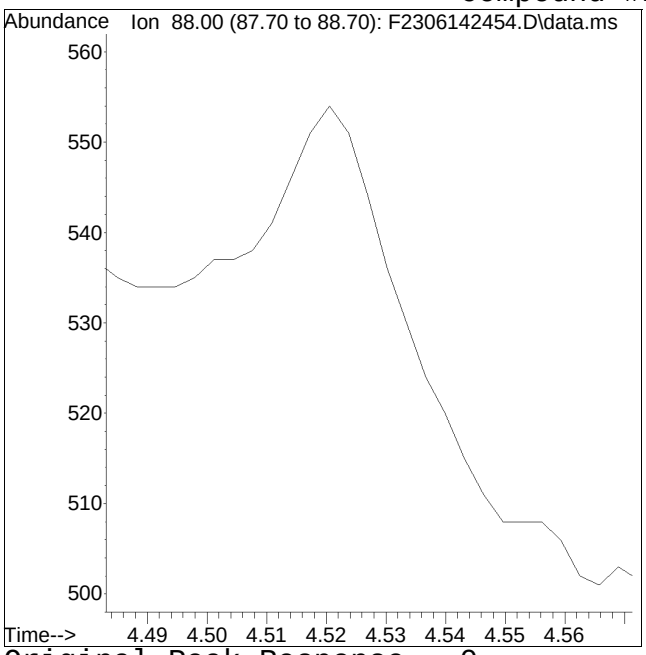


Manual Integration/Negative Proof Report

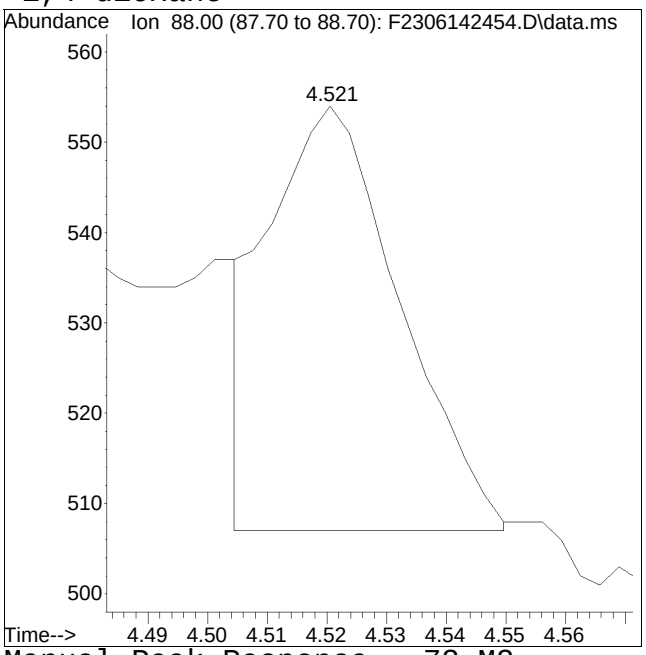
Data Path : O:\Organics\DATA\PAH23\2024Q
Data File : F2306142454.D
Date Inj'd : 6/15/2024 5:25 am
Sample : L2432633-02,32,,

Method : 14DIOX0610PAH23.M
Operator : PAH23:CSP
Instrument : PAH23
Quant Date : 6/17/2024 12:16 pm

Compound #2: 1,4-dioxane



Original Peak Response = 0



Manual Peak Response = 72 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142455.D
Acq On : 15 Jun 2024 05:47 am
Operator : PAH23:CSP
Sample : L2432633-04,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 17 12:19:08 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.459	64	5698	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.792	152	38109	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.459	64	5698	163.724	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 32.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.514	88	53M2	4.011	ng/mL	

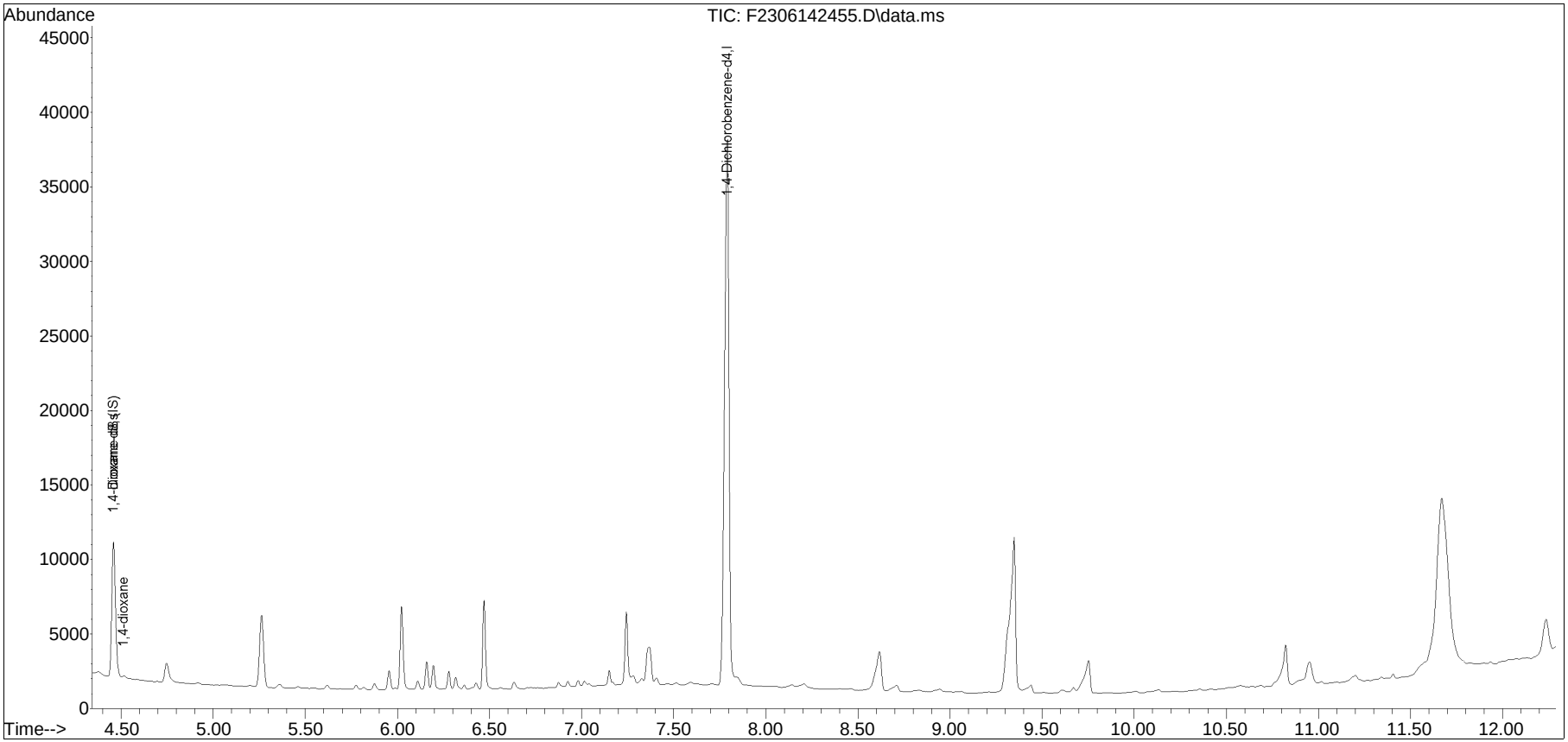
(#) = qualifier out of range (m) = manual integration (+) = signals summed

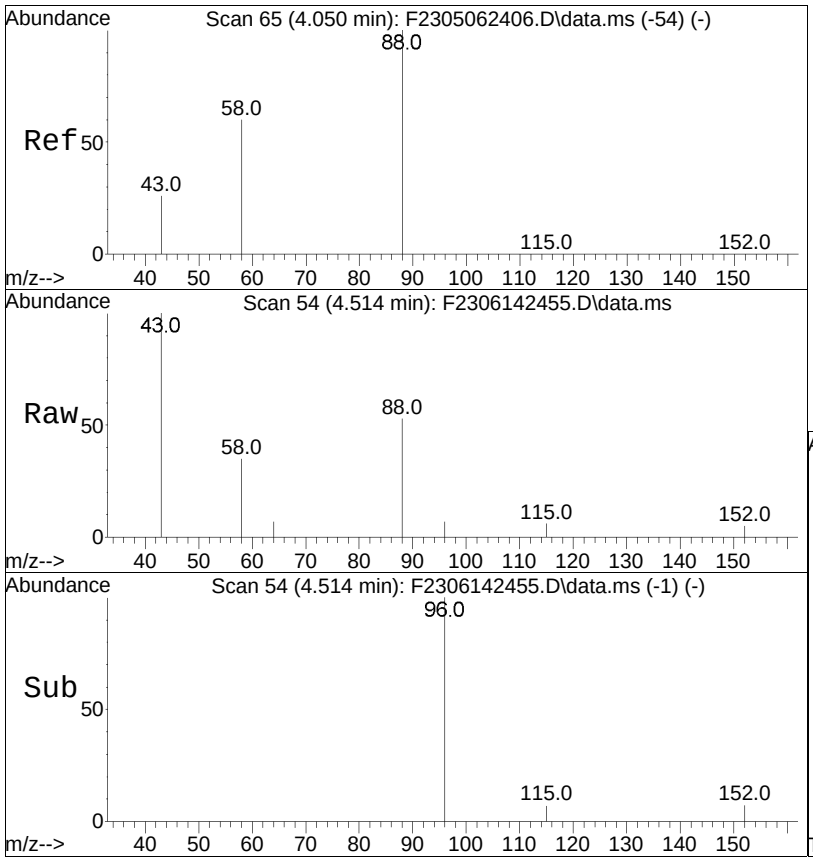
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142455.D
Acq On : 15 Jun 2024 05:47 am
Operator : PAH23:CSP
Sample : L2432633-04,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 17 12:19:08 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

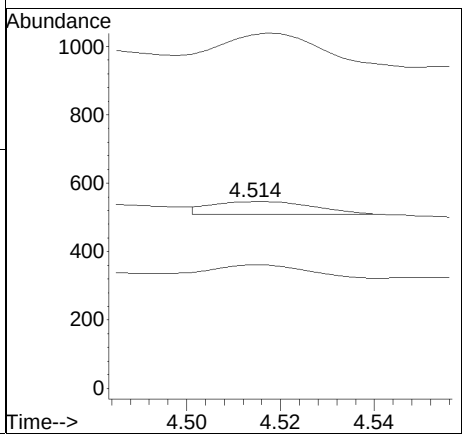




#2
1,4-dioxane
Concen: 4.01 ng/mL M2
RT: 4.514 min Scan# 54
Delta R.T. 0.026 min
Lab File: F2306142455.D
Acq: 15 Jun 2024 05:47 am

Tgt Ion: 88 Resp: 53

Ion	Ratio	Lower	Upper
88	100		
58	96.2	68.0	102.0
43	135.8	27.7	41.5#

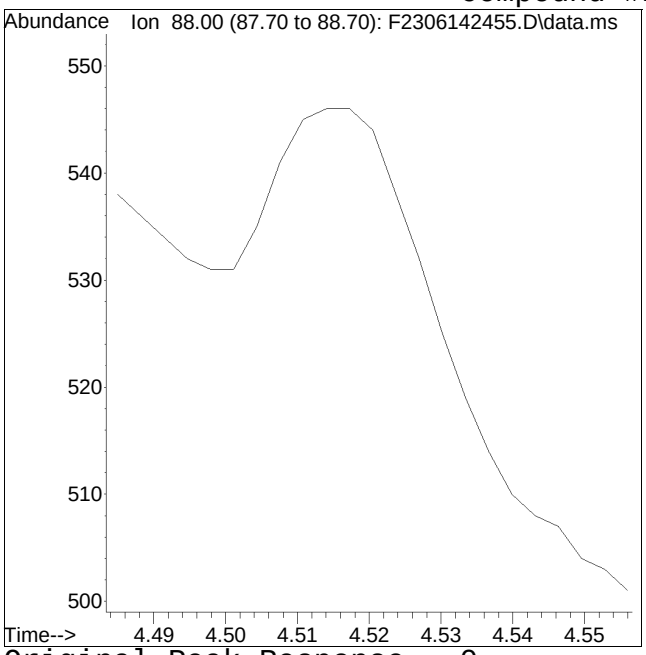


Manual Integration/Negative Proof Report

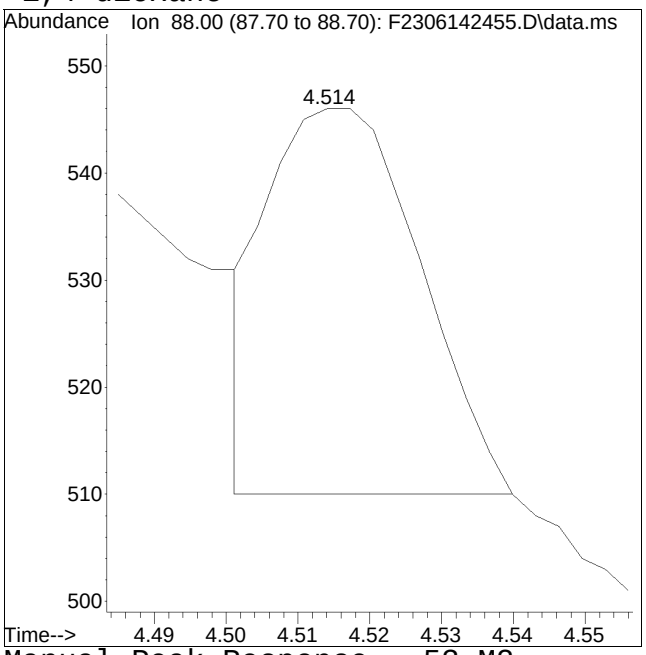
Data Path : O:\Organics\DATA\PAH23\2024Q
Data File : F2306142455.D
Date Inj'd : 6/15/2024 5:47 am
Sample : L2432633-04,32,,

Method : 14DIOX0610PAH23.M
Operator : PAH23:CSP
Instrument : PAH23
Quant Date : 6/17/2024 12:16 pm

Compound #2: 1,4-dioxane



Original Peak Response = 0



Manual Peak Response = 53 M2

M2 = Peak not found by automatic integration algorithm.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PAH23**	**Ical Ref**	**: ICAL21187**
Calibration dates	**: 06/10/24 11:18 06/10/24 16:55**		

Calibration Files

10 =F2306102403.D 50 =F2306102404.D 100 =F2306102405.D 500 =F2306102406.D 1000=F2306102407.D

5000=F2306102408.D 1e04=F2306102409.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.285	1.173	1.145	1.134	1.168	1.121	1.091	1.160	5.34
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.456	0.458	0.461	0.461	0.448	0.451	0.460	0.457	1.15

Response Factor Report PAH23

Method Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Method File : 14DIOX0610PAH23.M
Title : Semivolatiles by GC/MS
Last Update : Wed Jun 12 08:41:51 2024
Response Via : Initial Calibration

Calibration Files
10 =F2306102403.D 50 =F2306102404.D 100 =F2306102405.D 500 =F2306102406.D 1000=F2306102407.D
5000=F2306102408.D 1e04=F2306102409.D

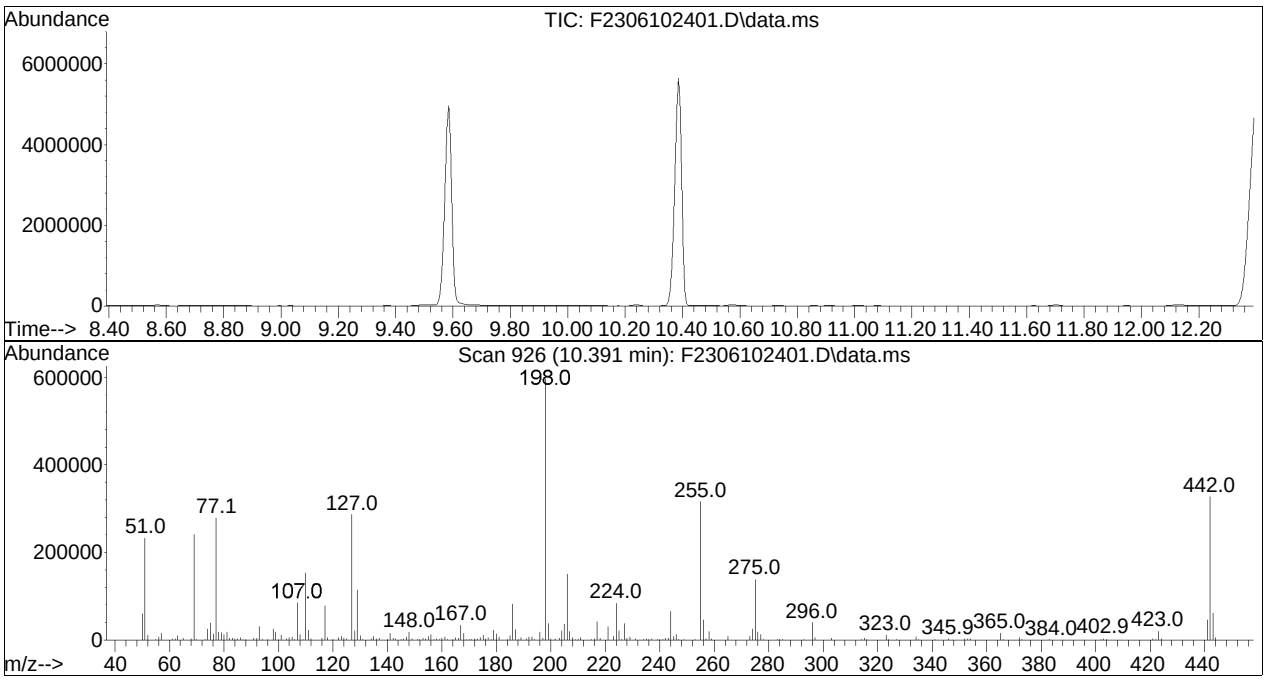
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.285	1.173	1.145	1.134	1.168	1.121	1.091	1.160	5.34
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.456	0.458	0.461	0.461	0.448	0.451	0.460	0.457	1.15

(#) = Out of Range

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102401.D
Acq On : 10 Jun 2024 09:51 am
Operator : PAH23:CSP
Sample : T2306102401
Misc : WG1933297,MSBT75
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Title : Semivolatiles by GC/MS
Last Update : Wed Jun 12 08:41:51 2024



Spectrum Information: Scan 926

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.0	232512	PASS
68	69	0.00	2	1.7	4014	PASS
70	69	0.00	2	0.6	1342	PASS
127	198	10	80	48.1	286592	PASS
197	198	0.00	2	0.7	3884	PASS
198	198	100	100	100.0	596352	PASS
199	198	5	9	6.5	38488	PASS
275	198	10	60	23.2	138432	PASS
365	198	1	100	2.8	16504	PASS
441	442	0.01	24	14.4	46984	PASS
442	198	50	100	54.8	326720	PASS
443	442	15	24	19.0	61976	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102403.D
Acq On : 10 Jun 2024 11:18 am
Operator : PAH23:CSP
Sample : I2306102401
Misc : WG1933297,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 12 08:42:24 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.519	64	15137	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.823	152	33191	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.519	64	15137	499.387	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.88%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.580	88	389	11.081	ng/mL	91

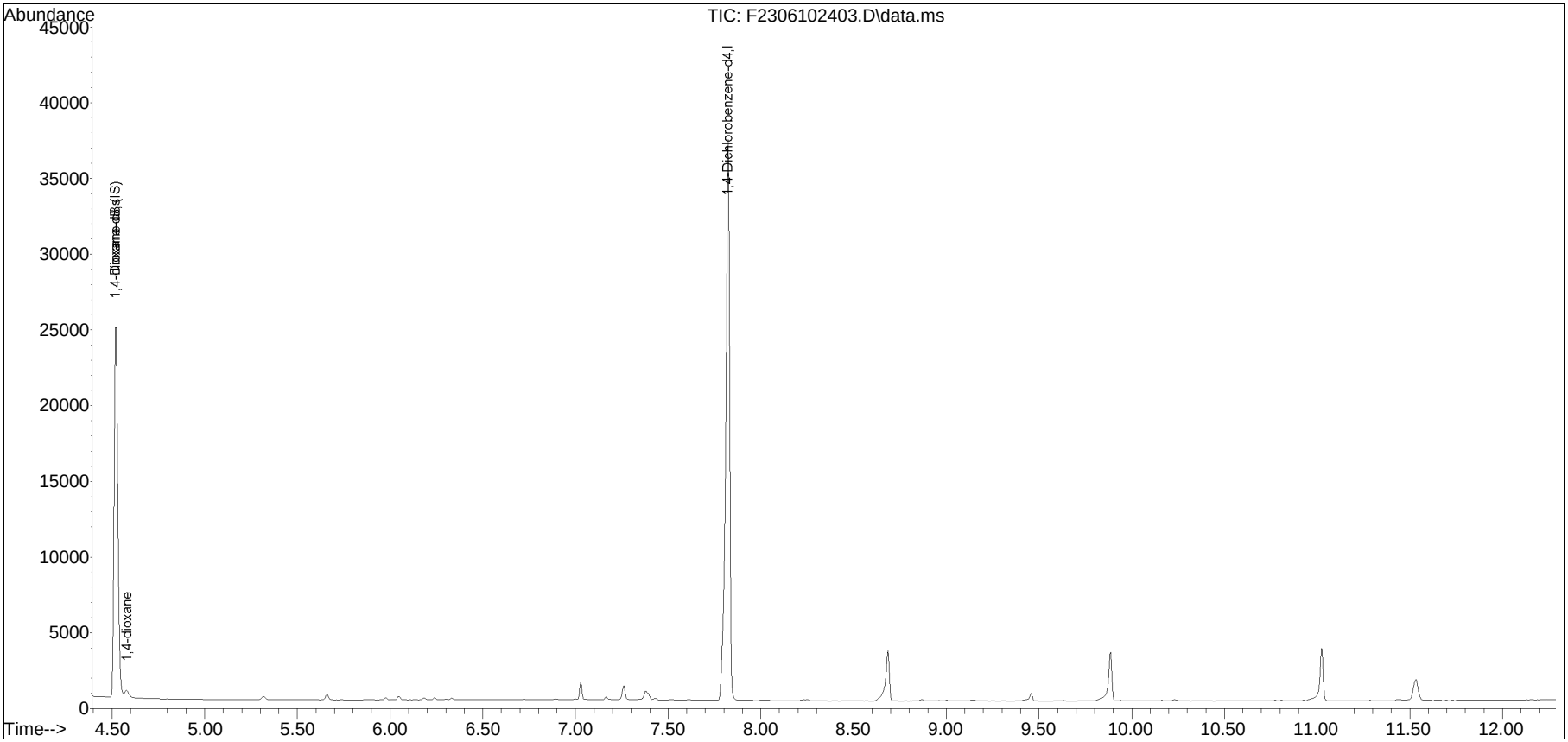
(#) = qualifier out of range (m) = manual integration (+) = signals summed

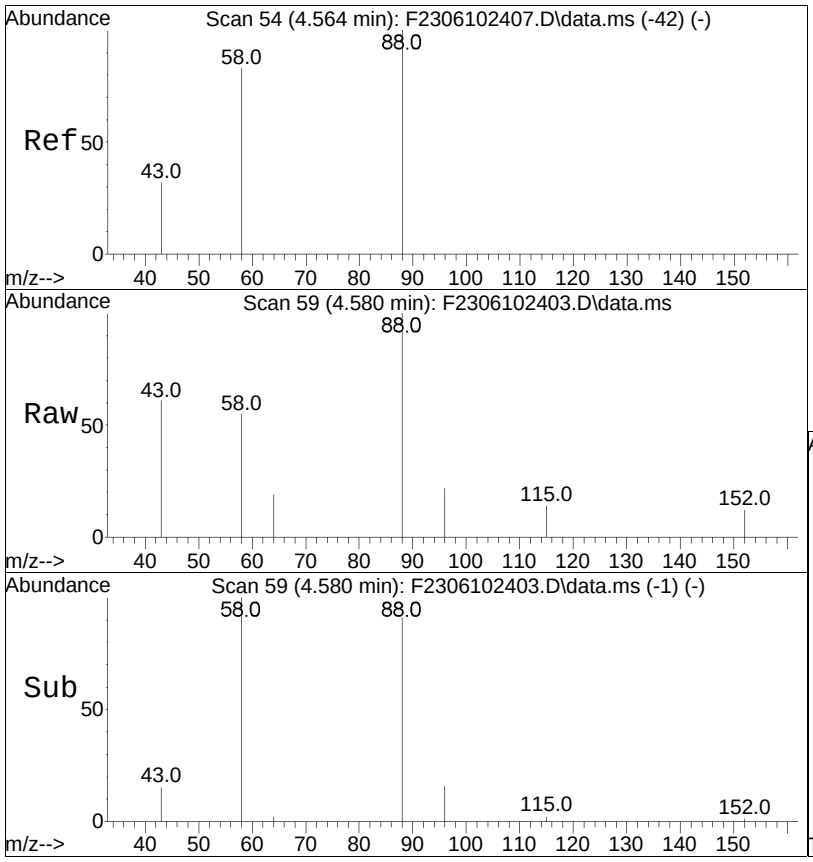
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102403.D
Acq On : 10 Jun 2024 11:18 am
Operator : PAH23:CSP
Sample : I2306102401
Misc : WG1933297,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 12 08:42:24 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

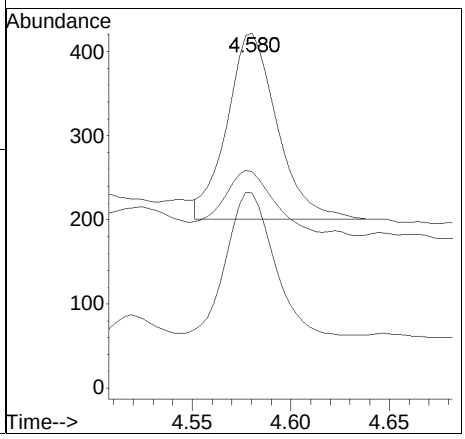




#2
1,4-dioxane
Concen: 11.08 ng/mL
RT: 4.580 min Scan# 59
Delta R.T. 0.016 min
Lab File: F2306102403.D
Acq: 10 Jun 2024 11:18 am

Tgt Ion: 88 Resp: 389

Ion	Ratio	Lower	Upper
88	100		
58	74.3	68.0	102.0
43	33.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102403.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 11:18 am	Instrument	: PAH23
Sample	: I2306102401	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102404.D
Acq On : 10 Jun 2024 03:06 pm
Operator : PAH23:CSP
Sample : I2306102402
Misc : WG1933297,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 08:42:27 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.516	64	15274	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.826	152	33328	500.000	ng/mL	0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.516	64	15274	501.836	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.37%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.571	88	1792	50.587	ng/mL	97

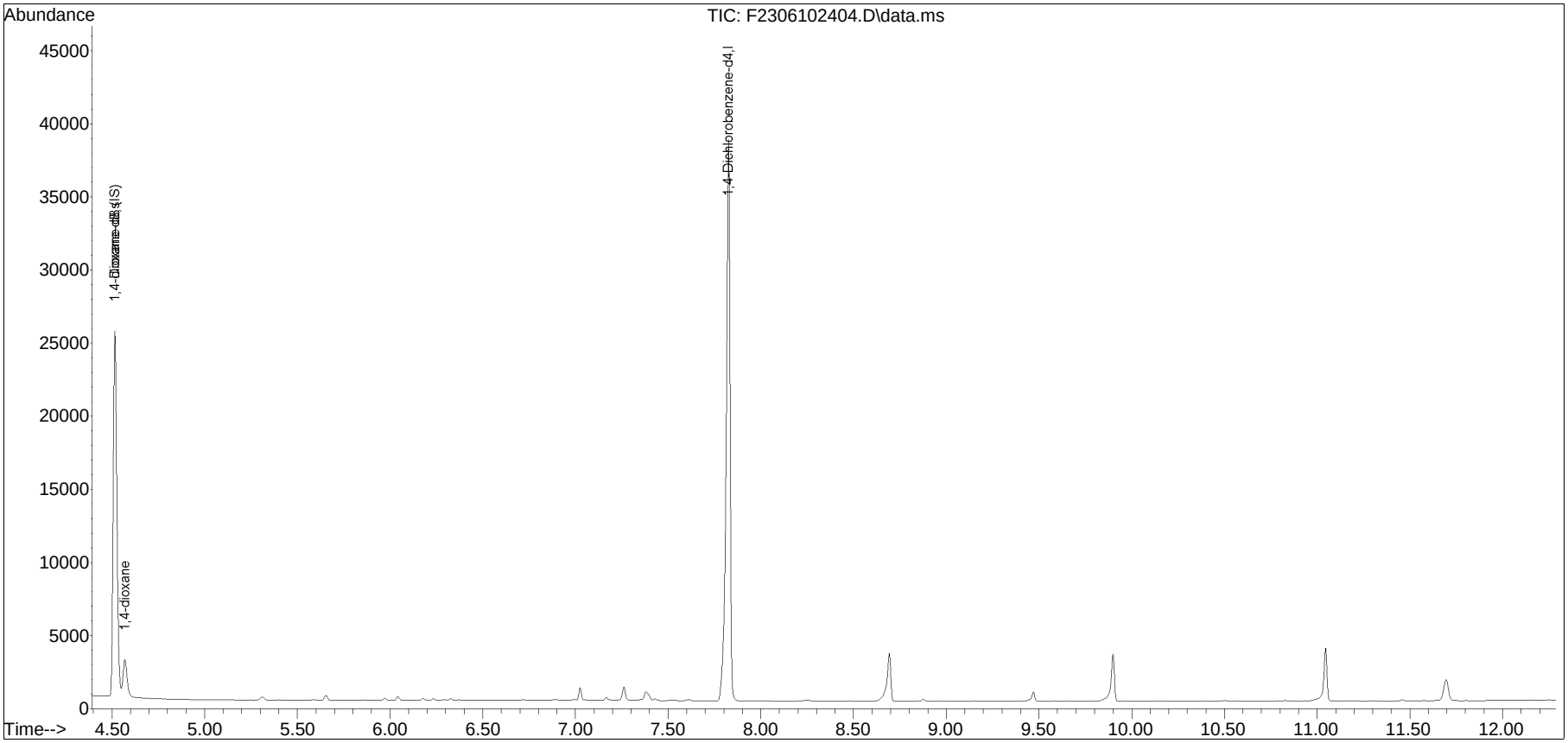
(#) = qualifier out of range (m) = manual integration (+) = signals summed

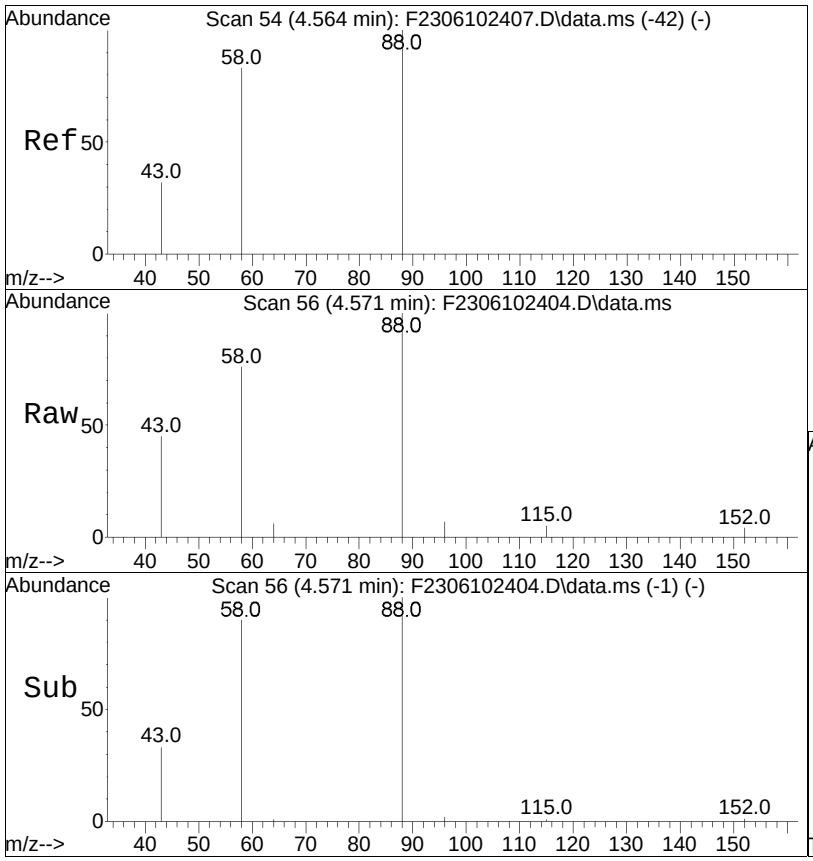
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102404.D
Acq On : 10 Jun 2024 03:06 pm
Operator : PAH23:CSP
Sample : I2306102402
Misc : WG1933297,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 08:42:27 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

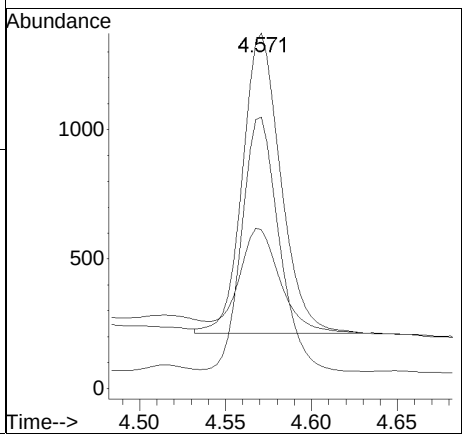




#2
1,4-dioxane
Concen: 50.59 ng/mL
RT: 4.571 min Scan# 56
Delta R.T. 0.007 min
Lab File: F2306102404.D
Acq: 10 Jun 2024 03:06 pm

Tgt Ion: 88 Resp: 1792

Ion	Ratio	Lower	Upper
88	100		
58	83.9	68.0	102.0
43	38.3	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102404.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 3:06 pm	Instrument	: PAH23
Sample	: I2306102402	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102405.D
Acq On : 10 Jun 2024 03:27 pm
Operator : PAH23:CSP
Sample : I2306102403
Misc : WG1933297,MSBT56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 08:42:30 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.516	64	15159	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.816	152	32855	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.516	64	15159	505.228	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.05%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.571	88	3471	98.728	ng/mL	99

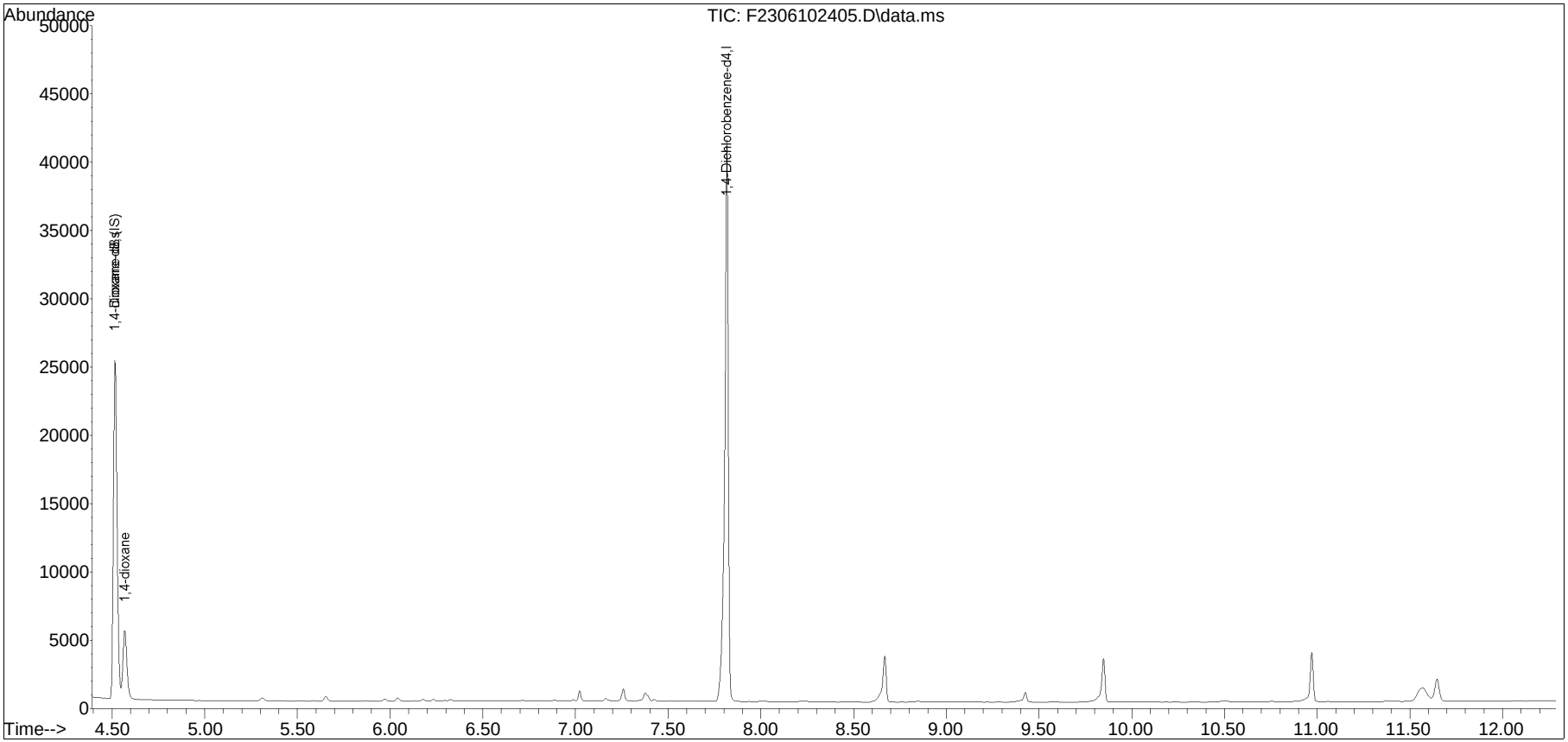
(#) = qualifier out of range (m) = manual integration (+) = signals summed

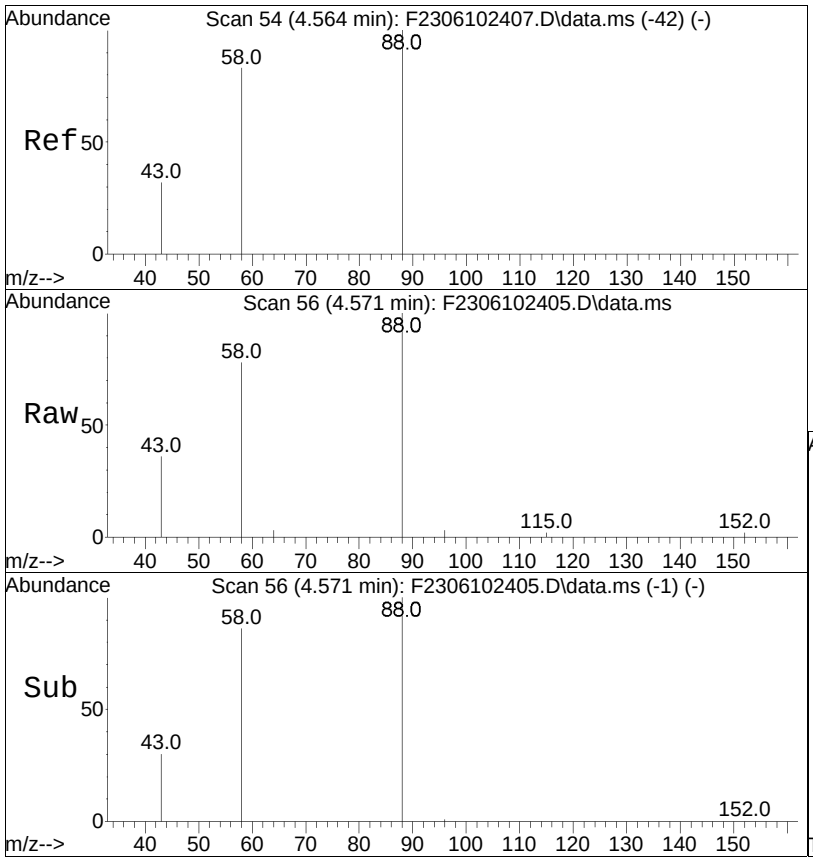
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102405.D
Acq On : 10 Jun 2024 03:27 pm
Operator : PAH23:CSP
Sample : I2306102403
Misc : WG1933297,MSBT56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 08:42:30 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

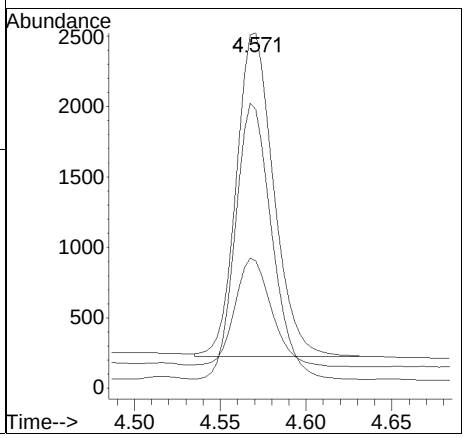




#2
1,4-dioxane
Concen: 98.73 ng/mL
RT: 4.571 min Scan# 56
Delta R.T. 0.007 min
Lab File: F2306102405.D
Acq: 10 Jun 2024 03:27 pm

Tgt Ion: 88 Resp: 3471

Ion	Ratio	Lower	Upper
88	100		
58	83.7	68.0	102.0
43	33.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102405.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 3:27 pm	Instrument	: PAH23
Sample	: I2306102403	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102406.D
Acq On : 10 Jun 2024 03:49 pm
Operator : PAH23:CSP
Sample : I2306102404
Misc : WG1933297,MSBT57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 08:42:33 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.516	64	15154	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.810	152	32864	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.516	64	15154	504.923	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.564	88	17181	488.852	ng/mL	99

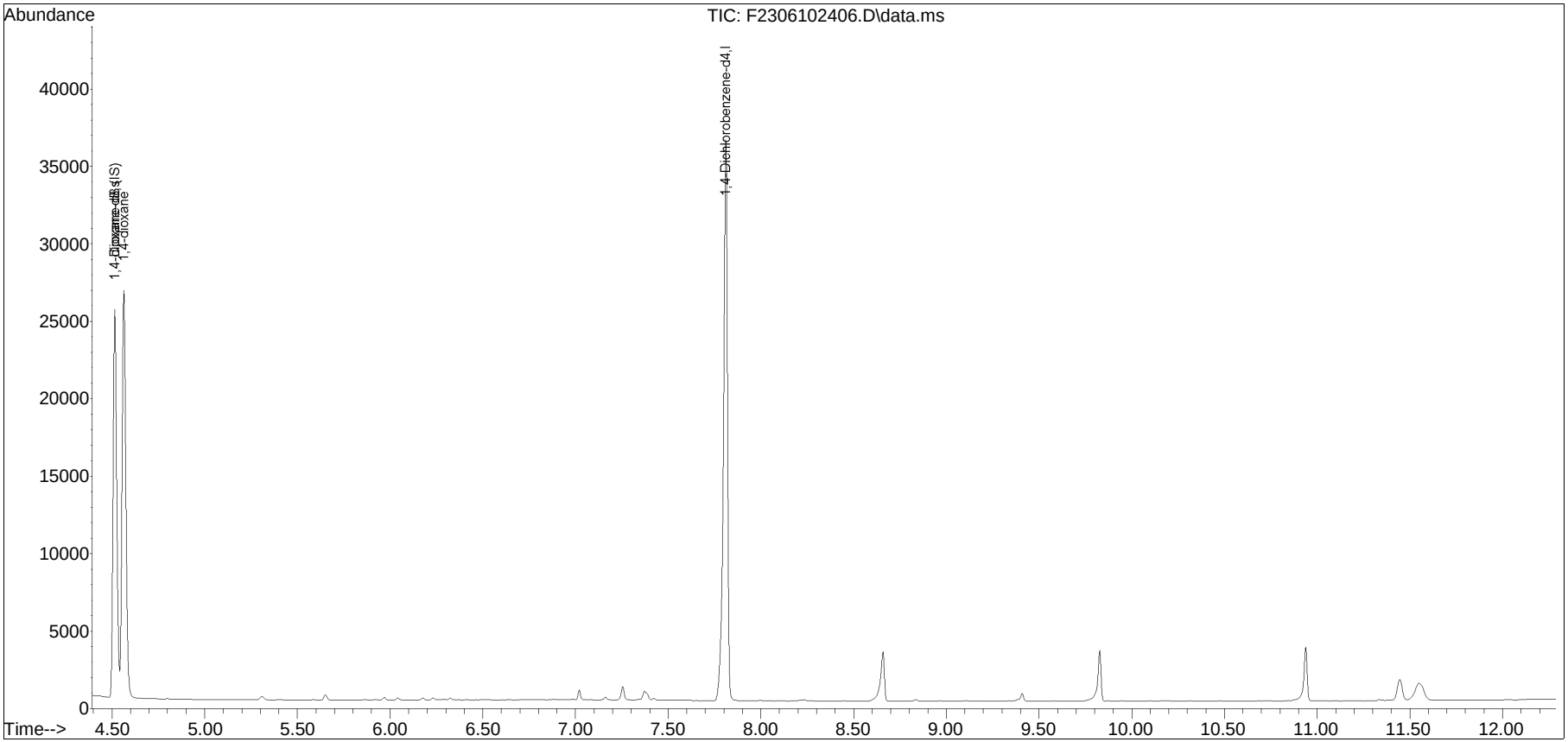
(#) = qualifier out of range (m) = manual integration (+) = signals summed

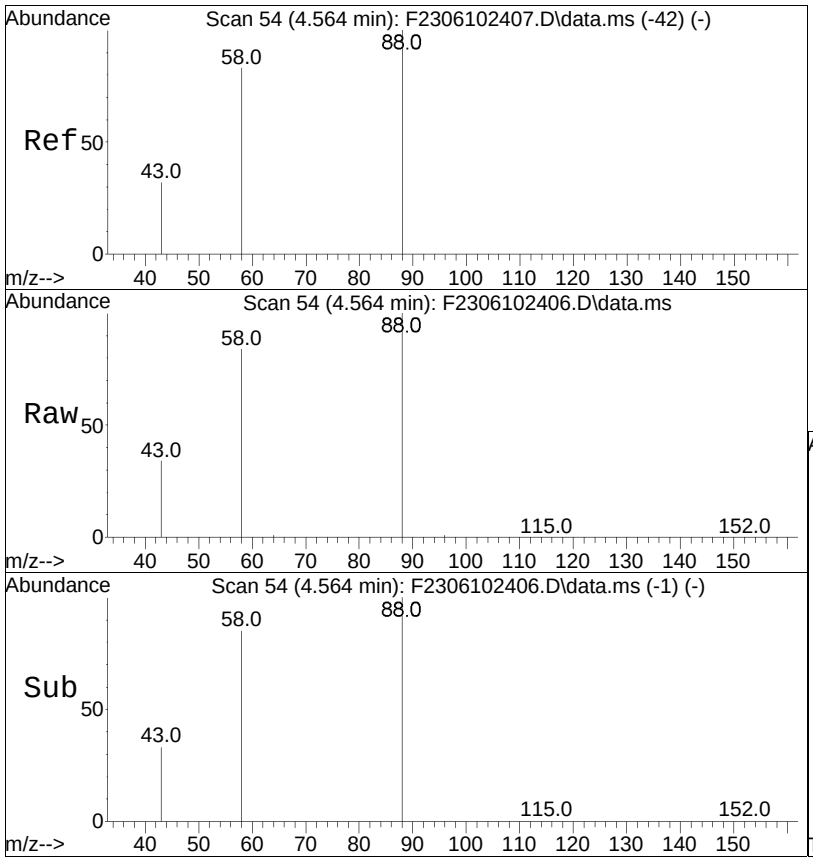
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102406.D
Acq On : 10 Jun 2024 03:49 pm
Operator : PAH23:CSP
Sample : I2306102404
Misc : WG1933297,MSBT57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 08:42:33 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

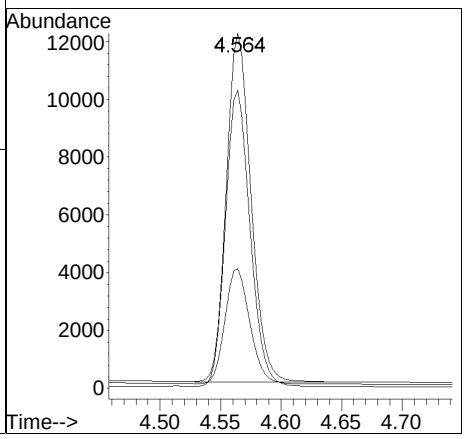




#2
1,4-dioxane
Concen: 488.85 ng/mL
RT: 4.564 min Scan# 54
Delta R.T. 0.000 min
Lab File: F2306102406.D
Acq: 10 Jun 2024 03:49 pm

Tgt Ion: 88 Resp: 17181

Ion	Ratio	Lower	Upper
88	100		
58	84.4	68.0	102.0
43	33.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102406.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 3:49 pm	Instrument	: PAH23
Sample	: I2306102404	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102407.D
Acq On : 10 Jun 2024 04:11 pm
Operator : PAH23:CSP
Sample : I2306102405
Misc : WG1933297,MSBT58
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 08:43:04 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.512	64	15027	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.813	152	33426	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.512	64	15027	492.273	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.45%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.564	88	35214	1010.414	ng/mL	99

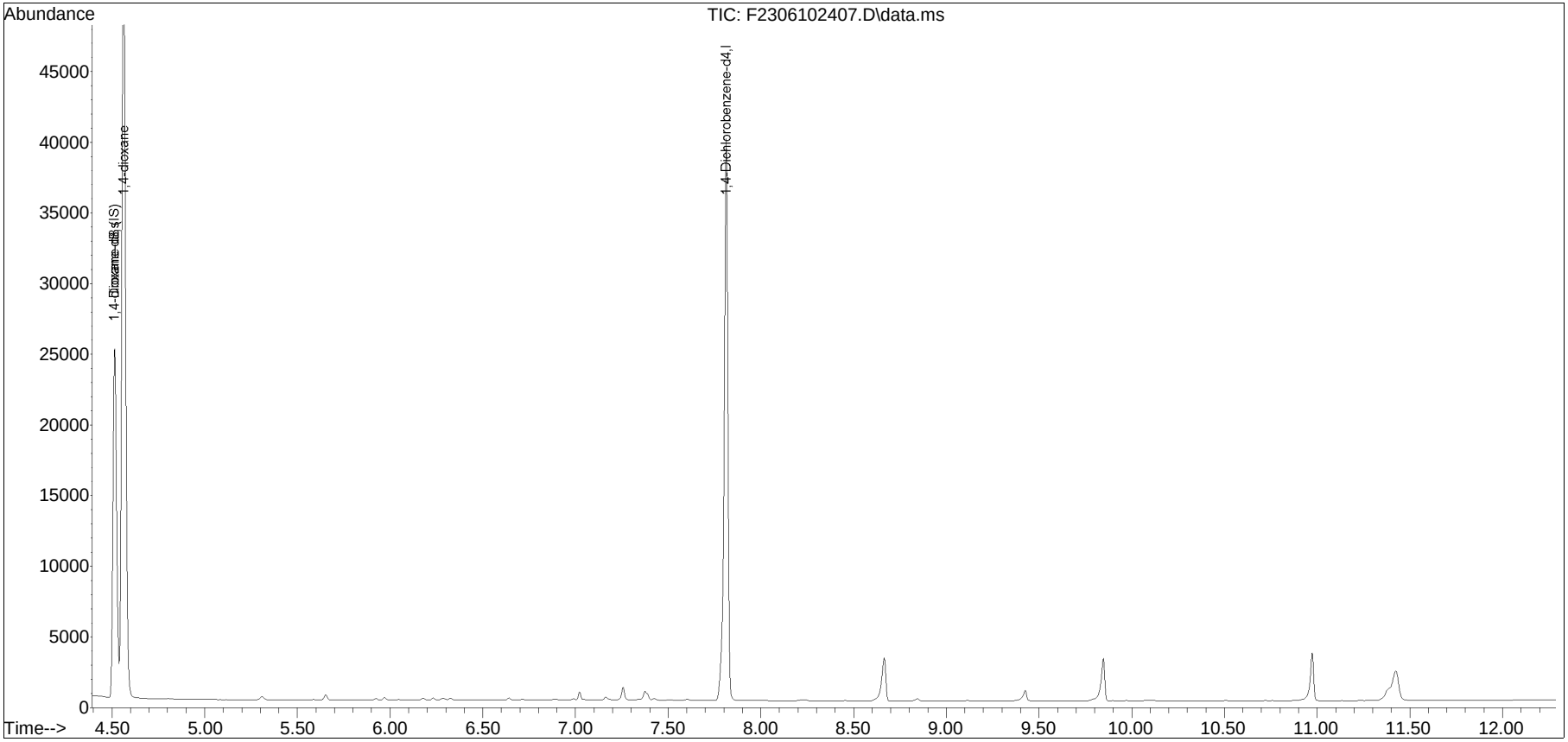
(#) = qualifier out of range (m) = manual integration (+) = signals summed

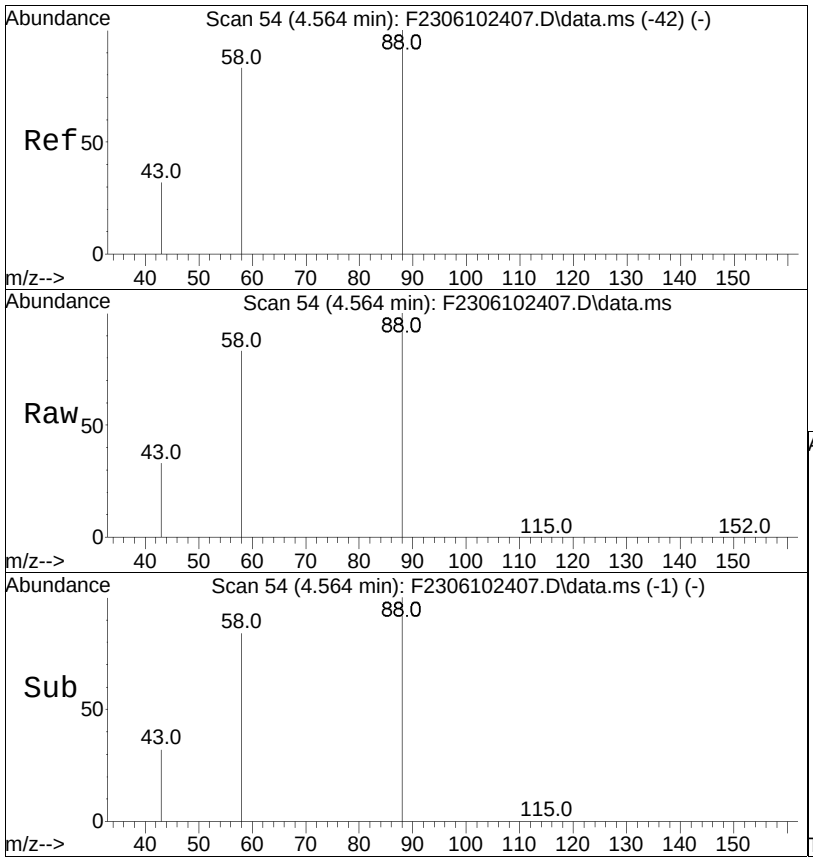
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102407.D
Acq On : 10 Jun 2024 04:11 pm
Operator : PAH23:CSP
Sample : I2306102405
Misc : WG1933297,MSBT58
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 08:43:04 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

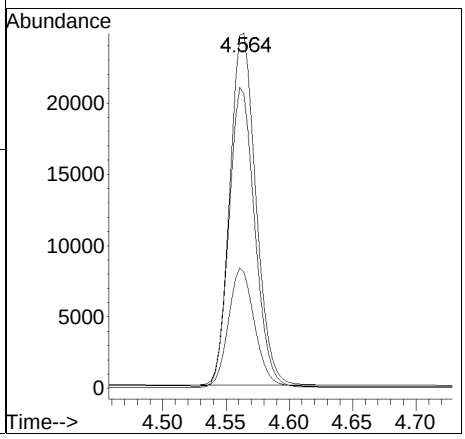




#2
1,4-dioxane
Concen: 1010.41 ng/mL
RT: 4.564 min Scan# 54
Delta R.T. 0.000 min
Lab File: F2306102407.D
Acq: 10 Jun 2024 04:11 pm

Tgt Ion: 88 Resp: 35214

Ion	Ratio	Lower	Upper
88	100		
58	84.4	68.0	102.0
43	33.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102407.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 4:11 pm	Instrument	: PAH23
Sample	: I2306102405	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102408.D
Acq On : 10 Jun 2024 04:33 pm
Operator : PAH23:CSP
Sample : I2306102406
Misc : WG1933297,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 12 08:43:26 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.513	64	14901	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.813	152	33050	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.513	64	14901	493.699	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.561	88	167048	4833.725	ng/mL	100

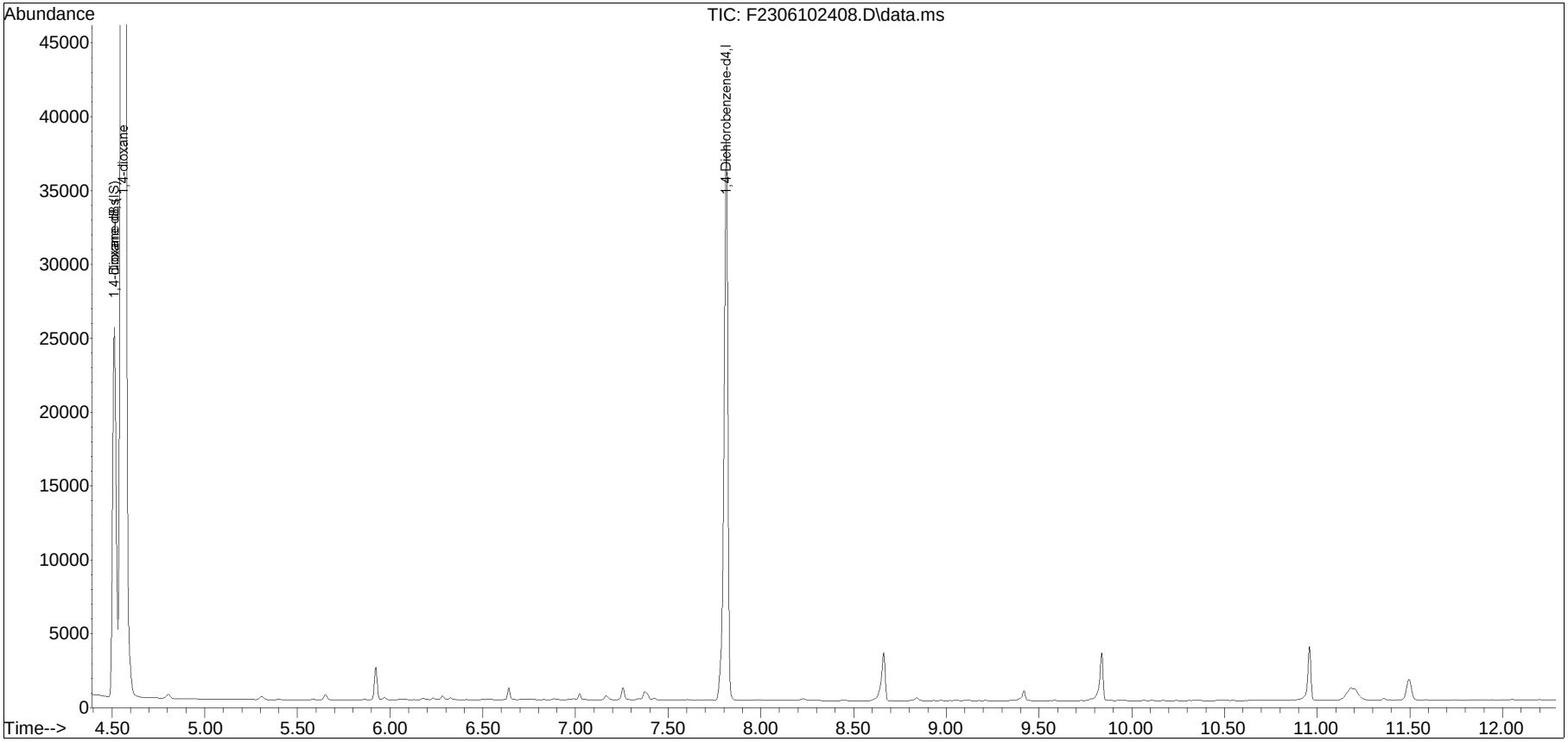
(#) = qualifier out of range (m) = manual integration (+) = signals summed

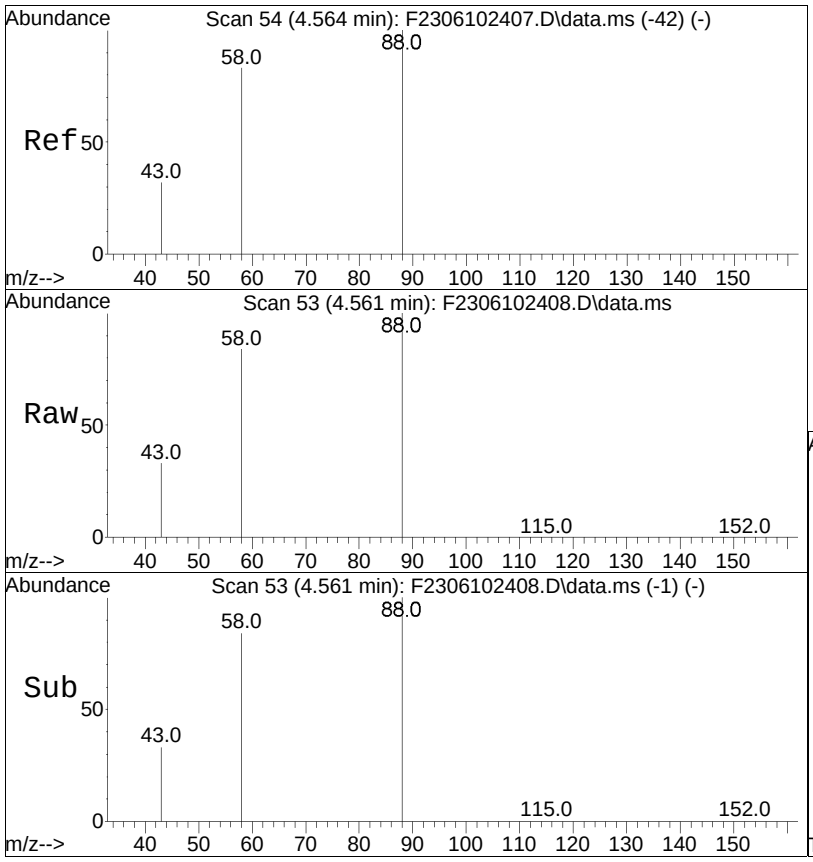
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102408.D
Acq On : 10 Jun 2024 04:33 pm
Operator : PAH23:CSP
Sample : I2306102406
Misc : WG1933297,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 12 08:43:26 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

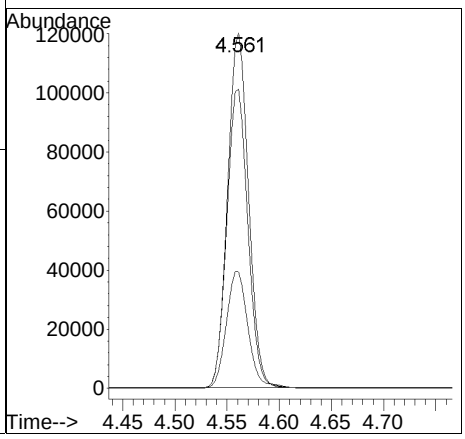




#2
1,4-dioxane
Concen: 4833.73 ng/mL
RT: 4.561 min Scan# 53
Delta R.T. -0.003 min
Lab File: F2306102408.D
Acq: 10 Jun 2024 04:33 pm

Tgt Ion: 88 Resp: 167048

Ion	Ratio	Lower	Upper
88	100		
58	85.4	68.0	102.0
43	34.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102408.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 4:33 pm	Instrument	: PAH23
Sample	: I2306102406	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102409.D
Acq On : 10 Jun 2024 04:55 pm
Operator : PAH23:CSP
Sample : I2306102407
Misc : WG1933297,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 08:43:29 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.509	64	14975	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.813	152	32523	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.509	64	14975	504.190	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.84%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.561	88	326768	9408.682	ng/mL	100

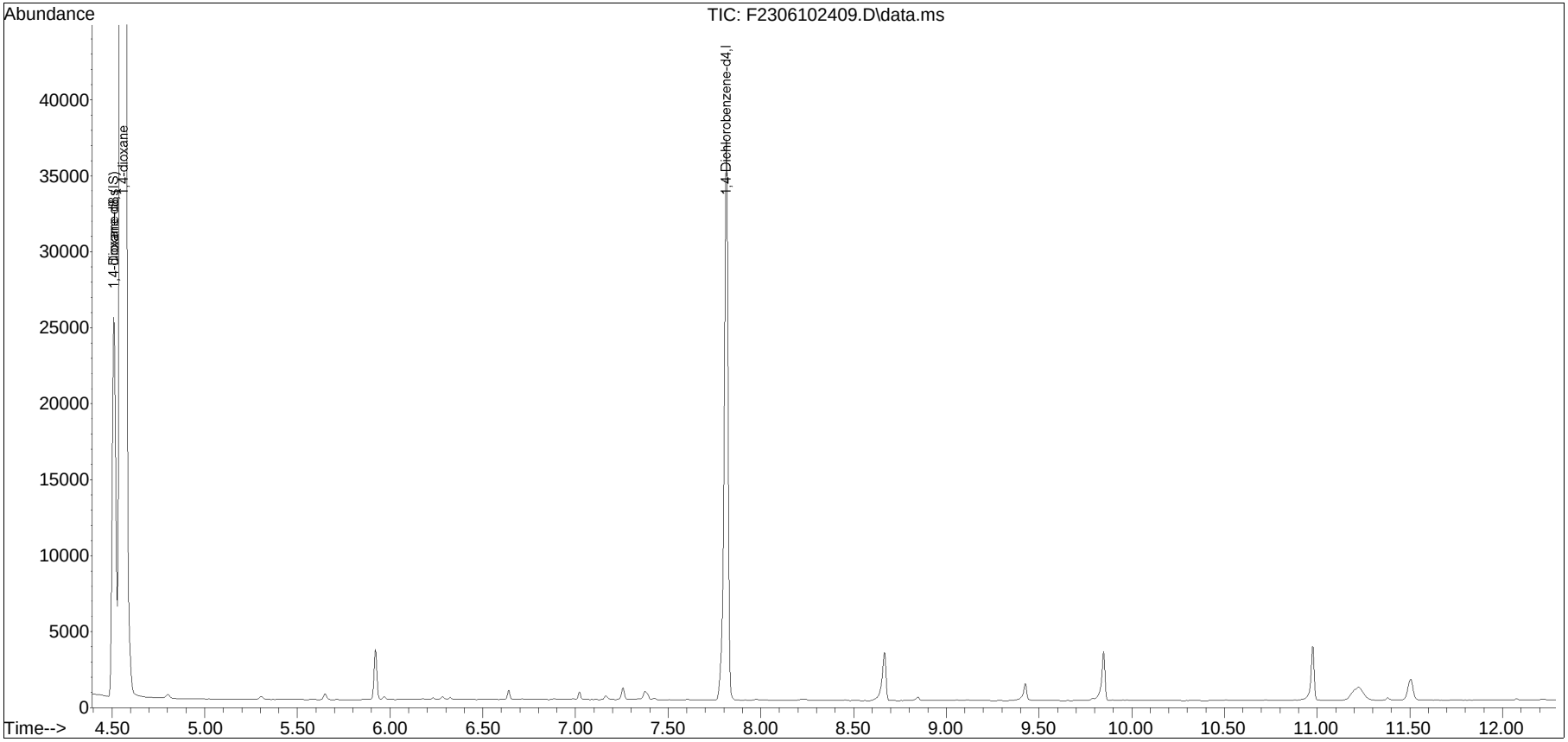
(#) = qualifier out of range (m) = manual integration (+) = signals summed

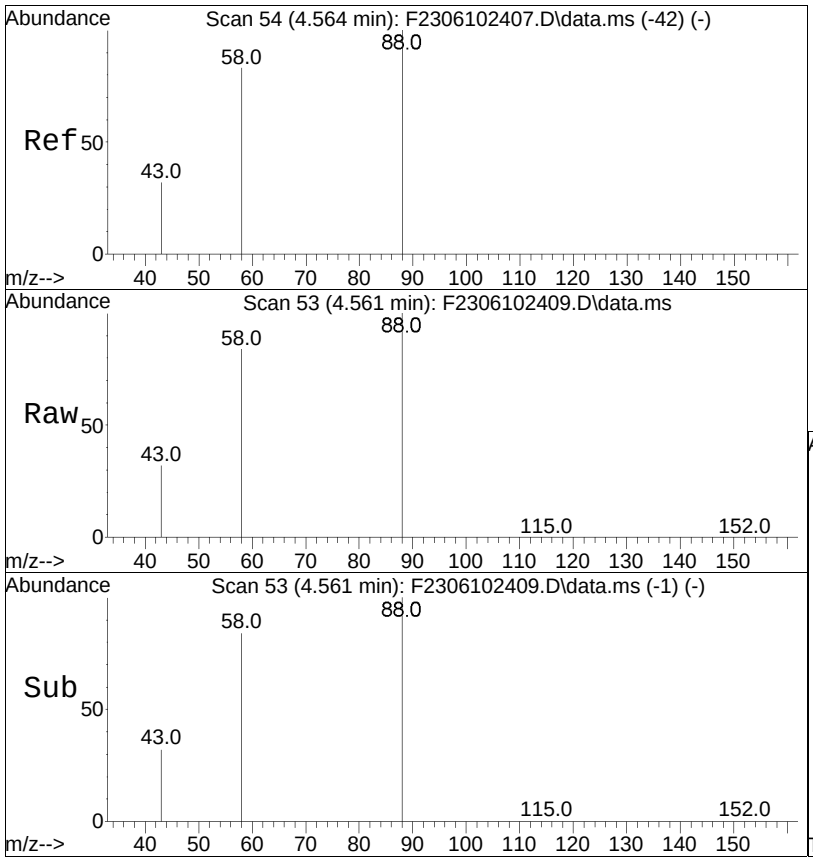
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102409.D
Acq On : 10 Jun 2024 04:55 pm
Operator : PAH23:CSP
Sample : I2306102407
Misc : WG1933297,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 08:43:29 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

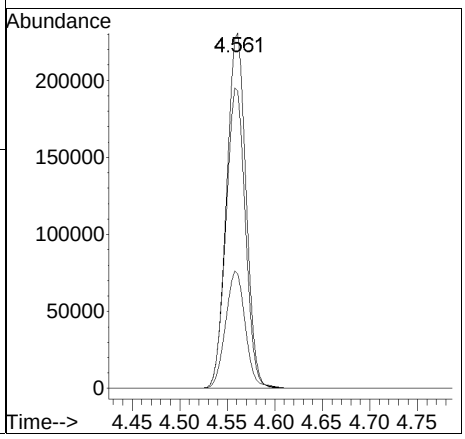




#2
1,4-dioxane
Concen: 9408.68 ng/mL
RT: 4.561 min Scan# 53
Delta R.T. -0.003 min
Lab File: F2306102409.D
Acq: 10 Jun 2024 04:55 pm

Tgt Ion: 88 Resp: 326768

Ion	Ratio	Lower	Upper
88	100		
58	85.1	68.0	102.0
43	33.8	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102409.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 4:55 pm	Instrument	: PAH23
Sample	: I2306102407	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102410.D
Acq On : 10 Jun 2024 05:17 pm
Operator : PAH23:CSP
Sample : CQ2306102401
Misc : WG1933297,MSBS19
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 08:43:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	99	0.00
2	1,4-dioxane	1.160	1.154	0.5	98	-0.01
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
4 s	1,4-dioxane-d8	0.457	0.453	0.9	98	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102410.D
Acq On : 10 Jun 2024 05:17 pm
Operator : PAH23:CSP
Sample : CQ2306102401
Misc : WG1933297,MSBS19
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 08:43:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.503	64	14909	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.807	152	32880	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.503	64	14909	496.518	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.30%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.551	88	34417	995.361	ng/mL	96

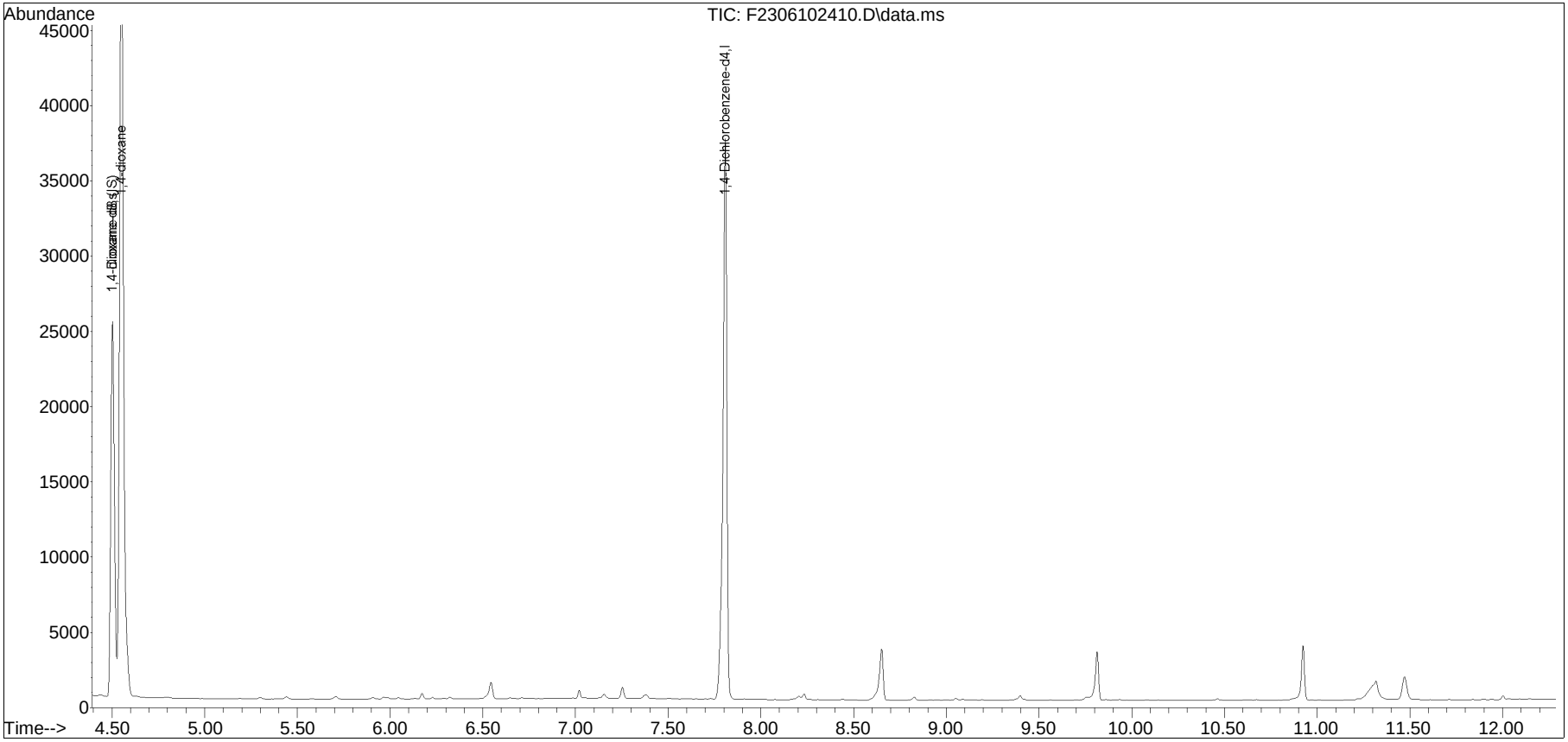
(#) = qualifier out of range (m) = manual integration (+) = signals summed

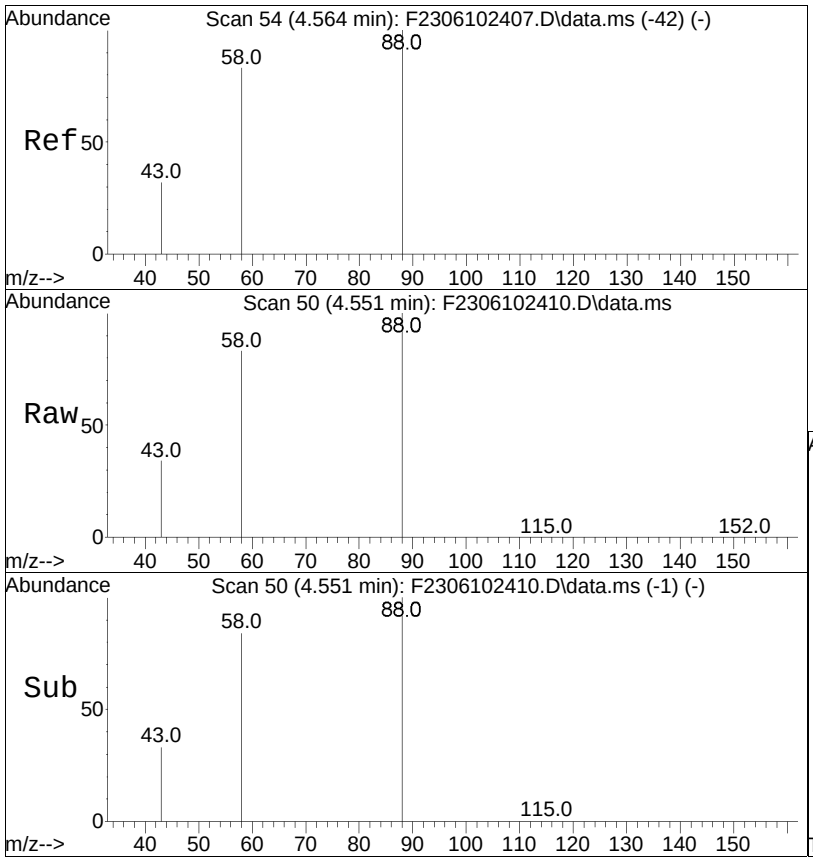
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102410.D
Acq On : 10 Jun 2024 05:17 pm
Operator : PAH23:CSP
Sample : CQ2306102401
Misc : WG1933297,MSBS19
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 08:43:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

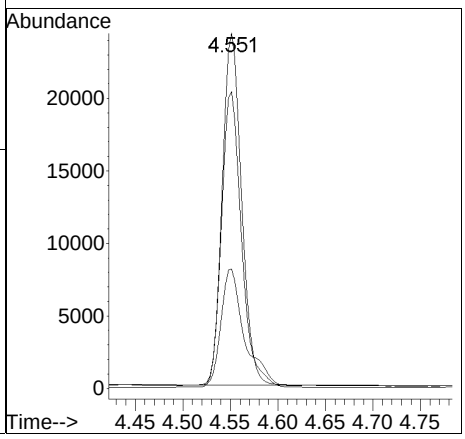




#2
1,4-dioxane
Concen: 995.36 ng/mL
RT: 4.551 min Scan# 50
Delta R.T. -0.013 min
Lab File: F2306102410.D
Acq: 10 Jun 2024 05:17 pm

Tgt Ion: 88 Resp: 34417

Ion	Ratio	Lower	Upper
88	100		
58	87.1	68.0	102.0
43	39.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102410.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 5:17 pm	Instrument	: PAH23
Sample	: CQ2306102401	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Calibration Date**	: 06/14/24 21:06
Lab File ID	: F2306142431	**Init. Calib. Date(s)**	: 06/10/24 06/10/24
Sample No	: WG1934447-4	**Init. Calib. Times**	: 11:18 16:55
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	116	-.08
1,4-dioxane	1.16	1.15	-	0.9	20	114	-.08
1,4-Dichlorobenzene-d4	1	1	-	0	20	111	-.02
1,4-dioxane-d8	0.457	0.469	-	-2.6	20	115	-.08

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142431.D
Acq On : 14 Jun 2024 09:06 pm
Operator : PAH23:CSP
Sample : WG1934447-4
Misc : WG1934447,,ICAL21187,MSBT58
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 11:46:38 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	116	-0.08
2	1,4-dioxane	1.160	1.150	0.9	114	-0.08
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	-0.02
4 s	1,4-dioxane-d8	0.457	0.469	-2.6	115	-0.08

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142431.D
Acq On : 14 Jun 2024 09:06 pm
Operator : PAH23:CSP
Sample : WG1934447-4
Misc : WG1934447,,ICAL21187,MSBT58
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 11:46:38 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.433	64	17406	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.792	152	37148	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.433	64	17406	513.076	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 102.62%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.485	88	40018	991.317	ng/mL	96

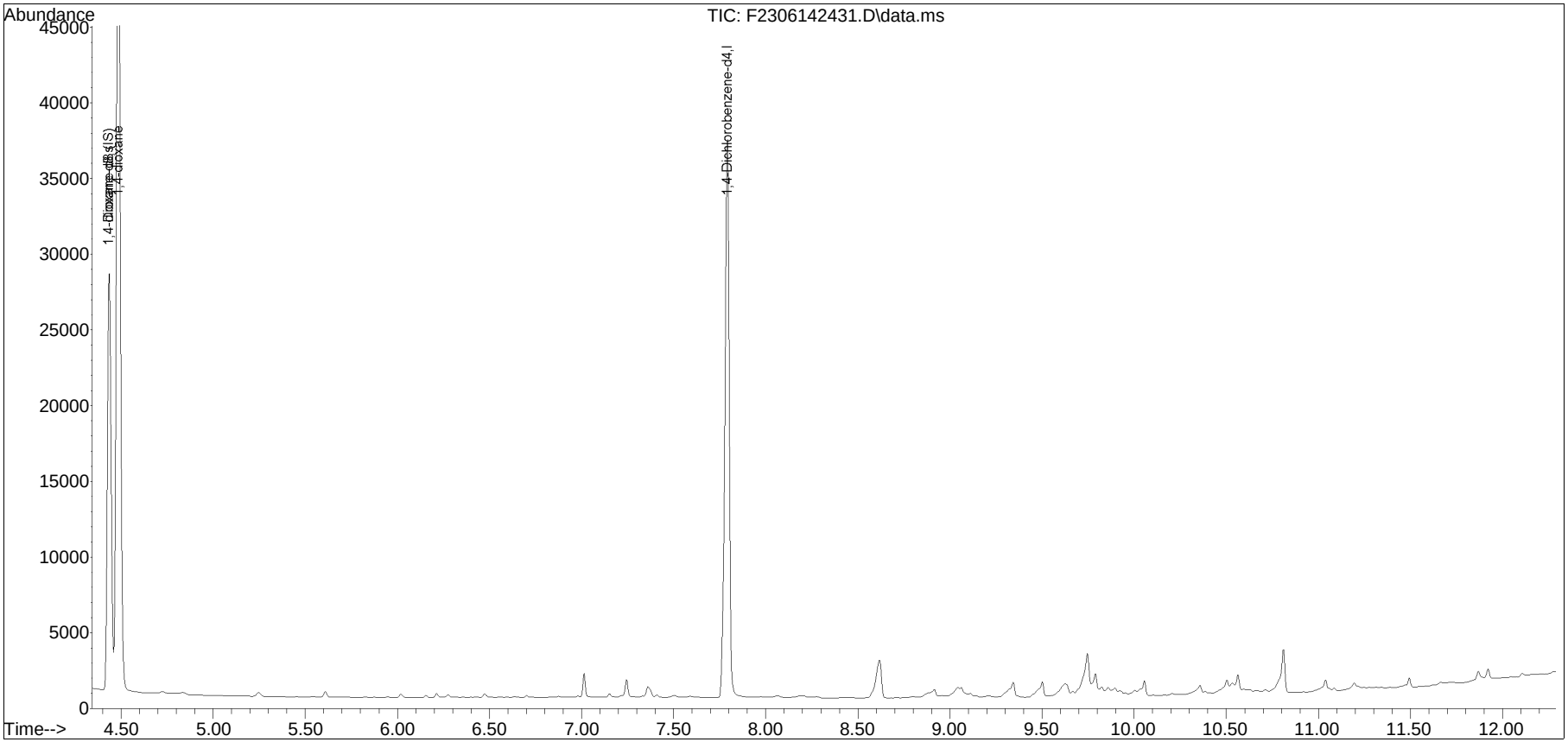
(#) = qualifier out of range (m) = manual integration (+) = signals summed

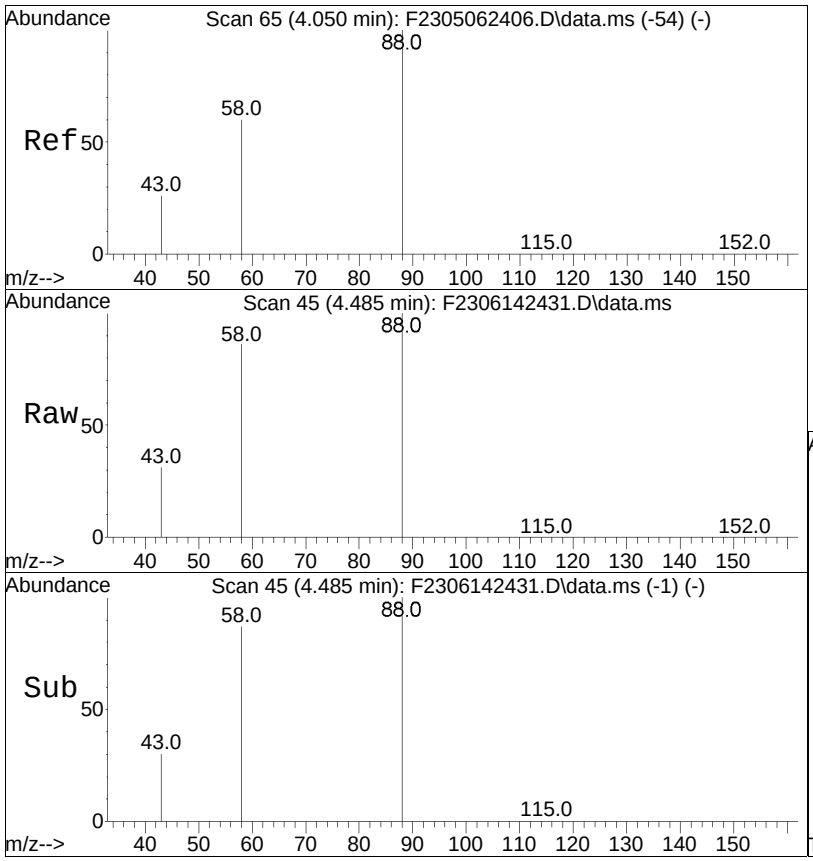
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142431.D
Acq On : 14 Jun 2024 09:06 pm
Operator : PAH23:CSP
Sample : WG1934447-4
Misc : WG1934447,,ICAL21187,MSBT58
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 11:46:38 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

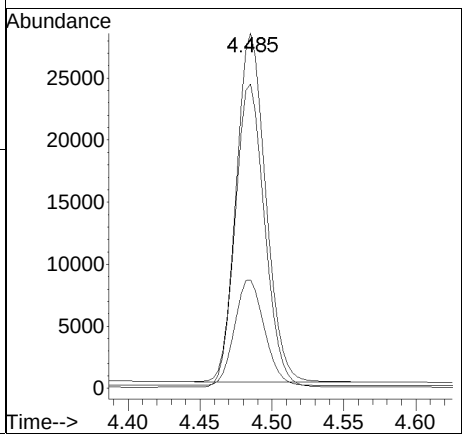




#2
1,4-dioxane
Concen: 991.32 ng/mL
RT: 4.485 min Scan# 45
Delta R.T. -0.003 min
Lab File: F2306142431.D
Acq: 14 Jun 2024 09:06 pm

Tgt Ion: 88 Resp: 40018

Ion	Ratio	Lower	Upper
88	100		
58	87.4	68.0	102.0
43	30.8	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306142431.D	Operator	: PAH23:CSP
Date Inj'd	: 6/14/2024 9:06 pm	Instrument	: PAH23
Sample	: WG1934447-4	Quant Date	: 6/17/2024 11:46 am

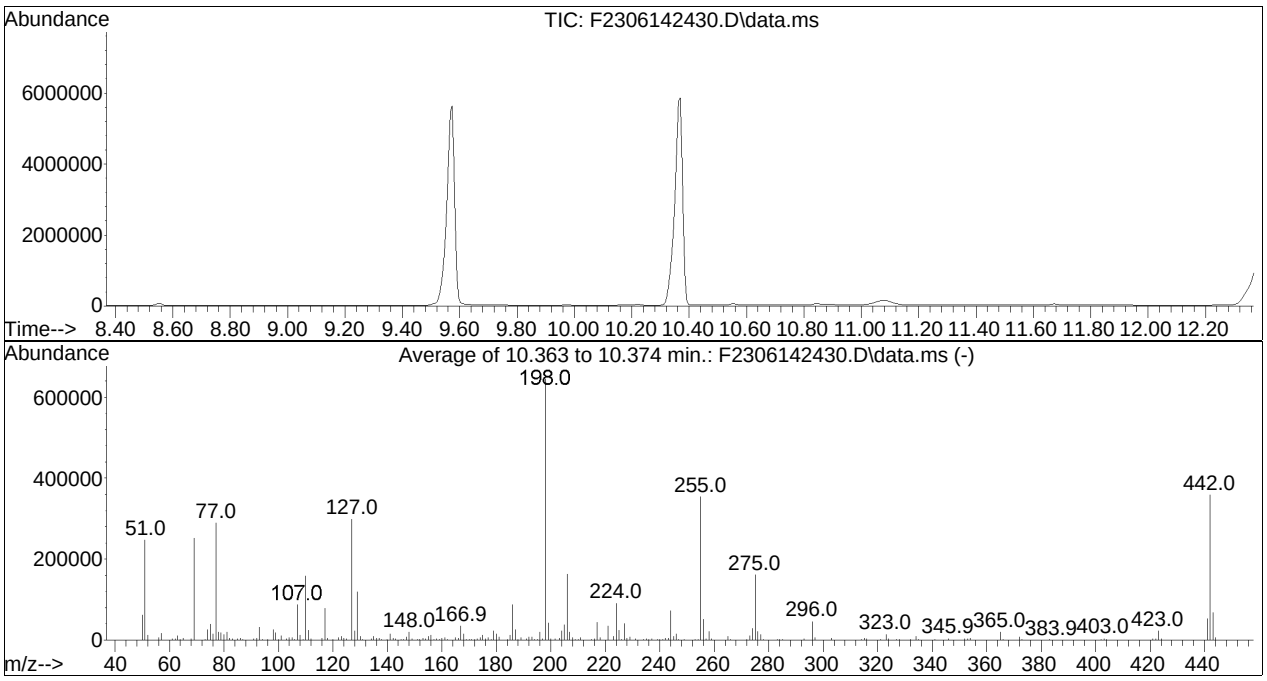
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142430.D
Acq On : 14 Jun 2024 08:31 pm
Operator : PAH23:CSP
Sample : WG1934447-3
Misc : WG1934447,,ICAL21187,MSBT75
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Title : Semivolatiles by GC/MS
Last Update : Mon Jun 17 11:45:06 2024



Spectrum Information: Average of 10.363 to 10.374 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.3	247637	PASS
68	69	0.00	2	1.7	4207	PASS
70	69	0.00	2	0.5	1157	PASS
127	198	10	80	46.3	299072	PASS
197	198	0.00	2	0.6	3780	PASS
198	198	100	100	100.0	645739	PASS
199	198	5	9	6.7	43221	PASS
275	198	10	60	25.0	161131	PASS
365	198	1	100	3.0	19621	PASS
441	442	0.01	24	14.7	52608	PASS
442	198	50	100	55.6	358997	PASS
443	442	15	24	19.0	68301	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142432.D
Acq On : 14 Jun 2024 09:28 pm
Operator : PAH23:CSP
Sample : WG1934101-1,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 17 11:46:40 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.463	64	6142	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.792	152	34256	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.463	64	6142	196.332	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 39.27%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

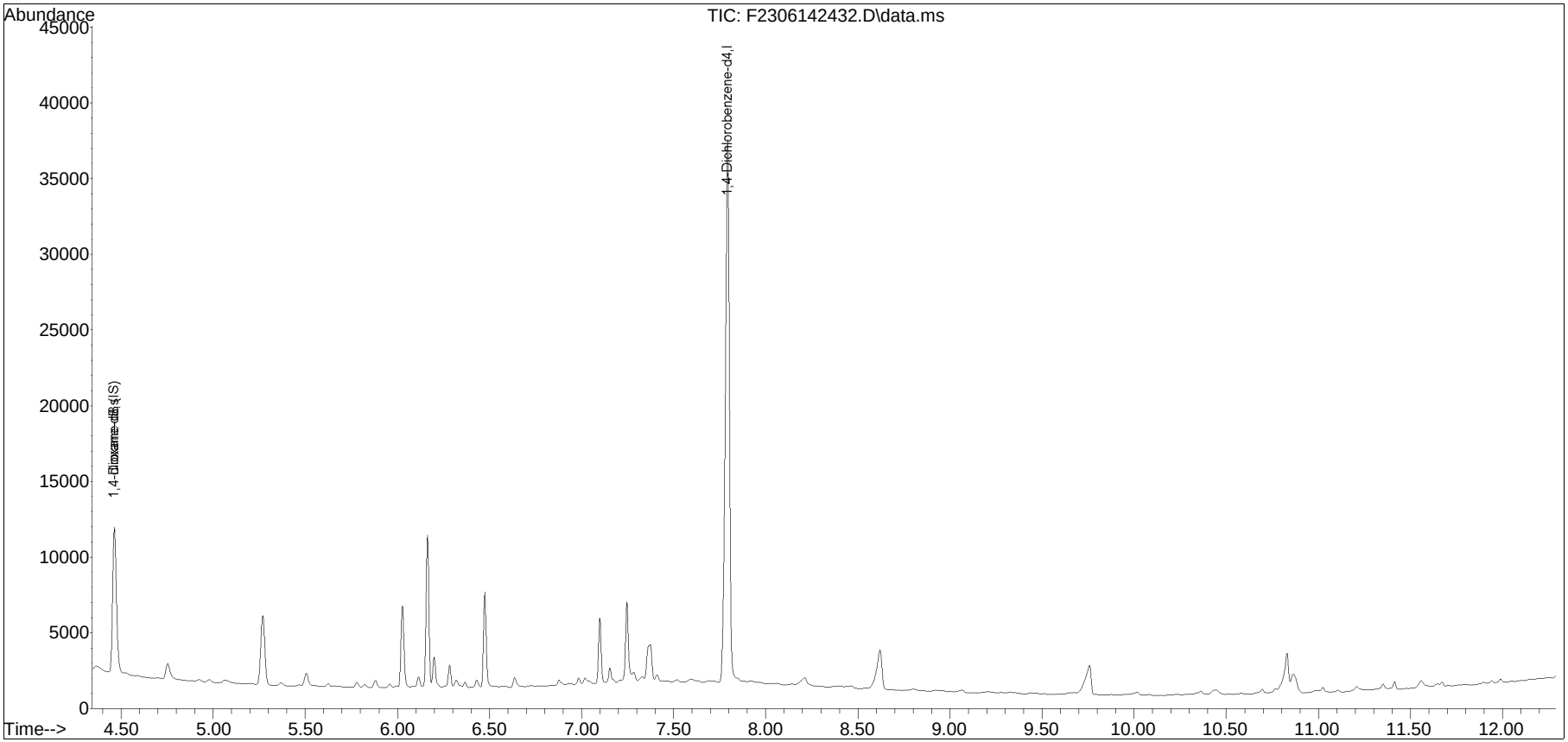
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142432.D
Acq On : 14 Jun 2024 09:28 pm
Operator : PAH23:CSP
Sample : WG1934101-1,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 17 11:46:40 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306142432.D	Operator	: PAH23:CSP
Date Inj'd	: 6/14/2024 9:28 pm	Instrument	: PAH23
Sample	: WG1934101-1,32,,	Quant Date	: 6/17/2024 11:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142433.D
Acq On : 14 Jun 2024 09:50 pm
Operator : PAH23:CSP
Sample : WG1934101-2,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 17 11:46:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.488	64	6005	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.795	152	36039	500.000	ng/mL	-0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.488	64	6005	182.456	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 36.49%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.540	88	8631	619.732	ng/mL	95

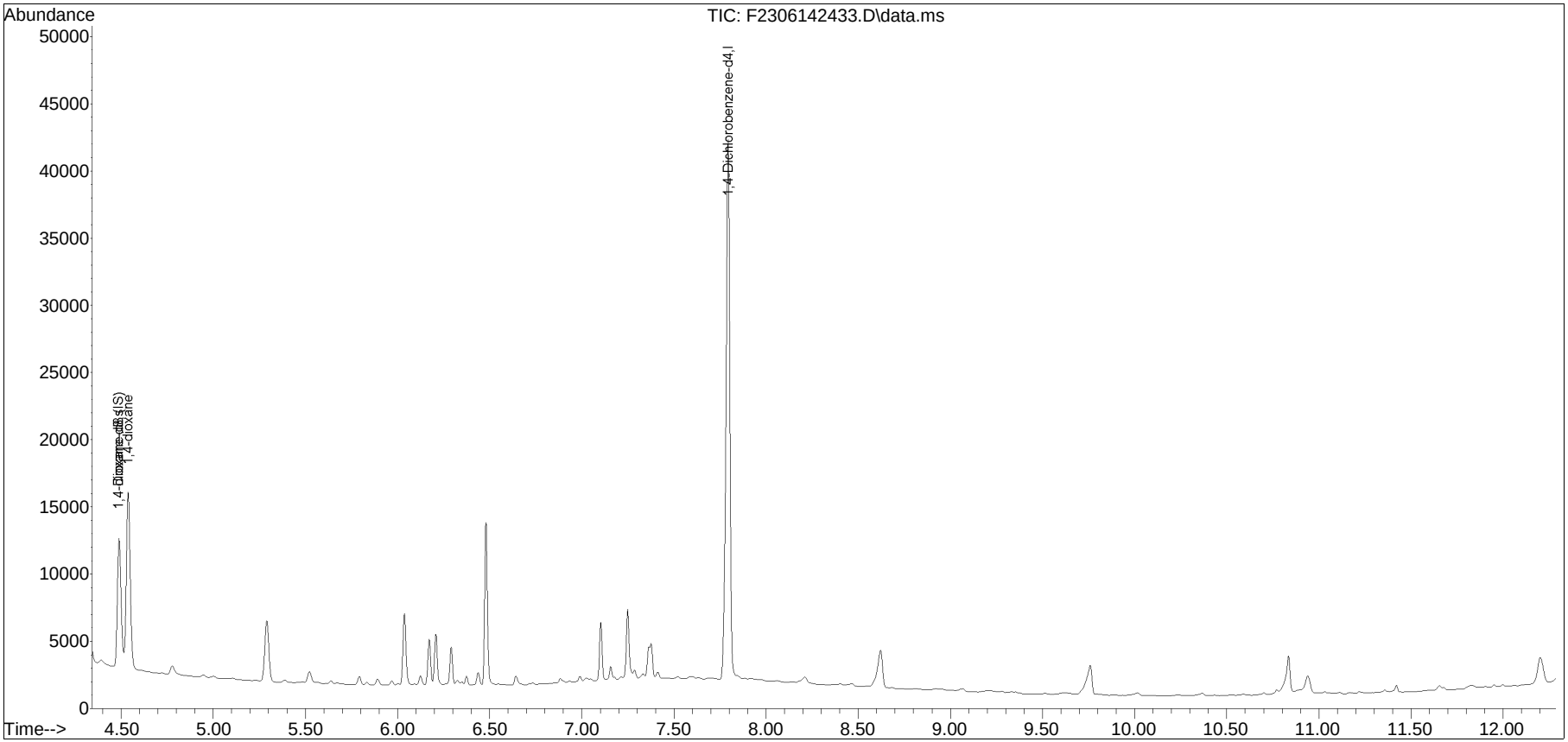
(#) = qualifier out of range (m) = manual integration (+) = signals summed

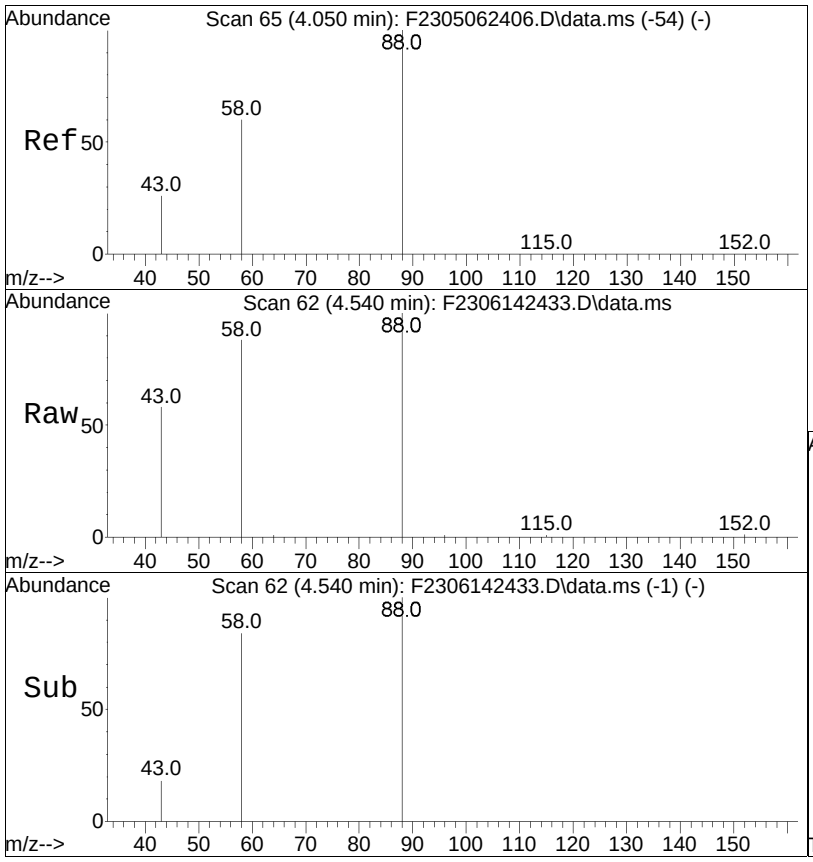
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142433.D
Acq On : 14 Jun 2024 09:50 pm
Operator : PAH23:CSP
Sample : WG1934101-2,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 17 11:46:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

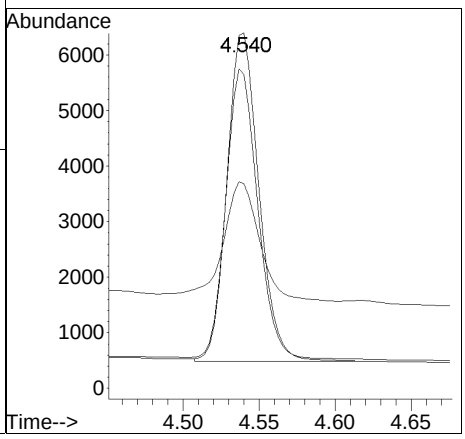




#2
1,4-dioxane
Concen: 619.73 ng/mL
RT: 4.540 min Scan# 62
Delta R.T. 0.052 min
Lab File: F2306142433.D
Acq: 14 Jun 2024 09:50 pm

Tgt Ion: 88 Resp: 8631

Ion	Ratio	Lower	Upper
88	100		
58	86.7	68.0	102.0
43	41.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306142433.D	Operator	: PAH23:CSP
Date Inj'd	: 6/14/2024 9:50 pm	Instrument	: PAH23
Sample	: WG1934101-2,32,,	Quant Date	: 6/17/2024 11:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142434.D
Acq On : 14 Jun 2024 10:12 pm
Operator : PAH23:CSP
Sample : WG1934101-3,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 17 11:46:44 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.488	64	6376	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.795	152	36174	500.000	ng/mL	-0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.488	64	6376	193.006	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.537	88	9242	624.991	ng/mL	94

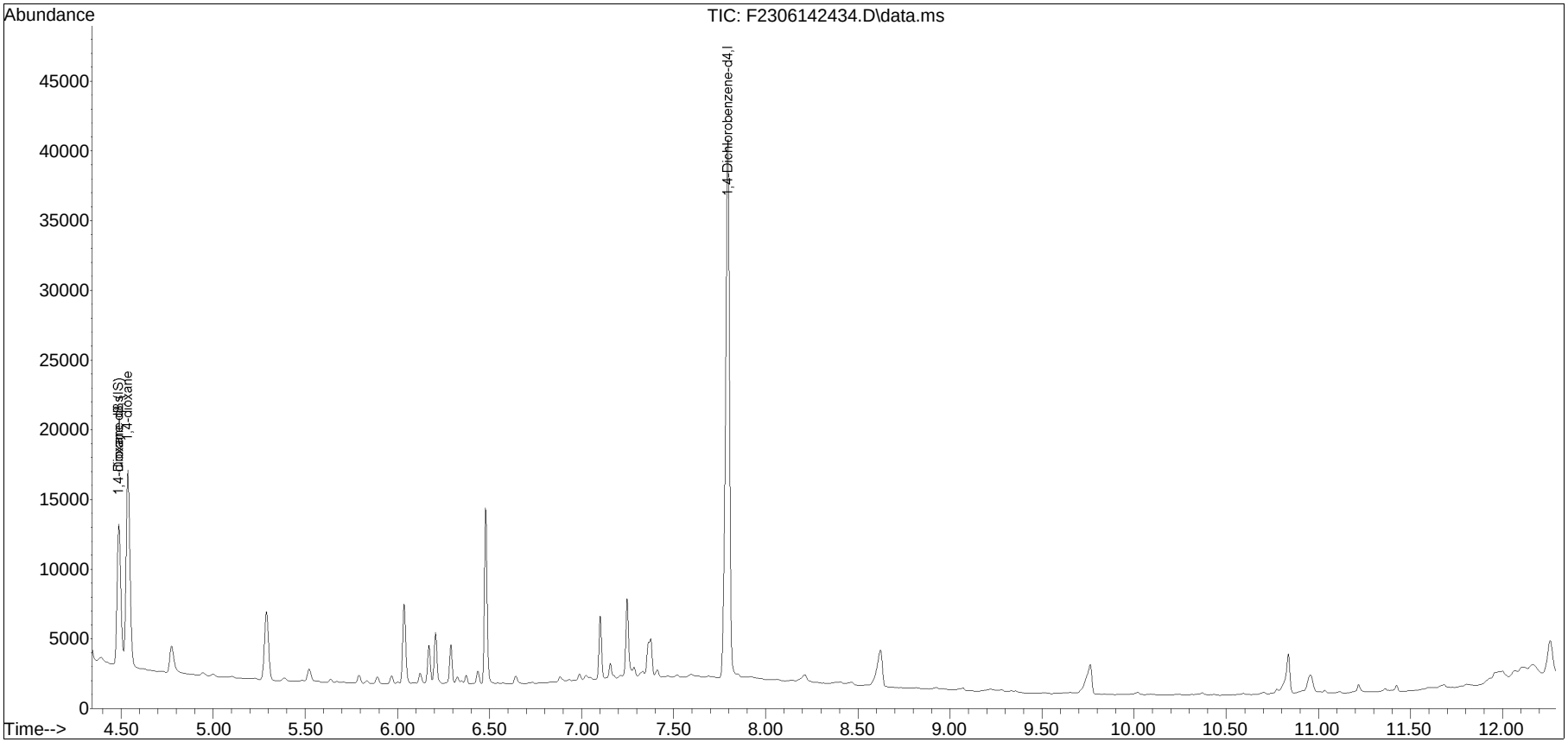
(#) = qualifier out of range (m) = manual integration (+) = signals summed

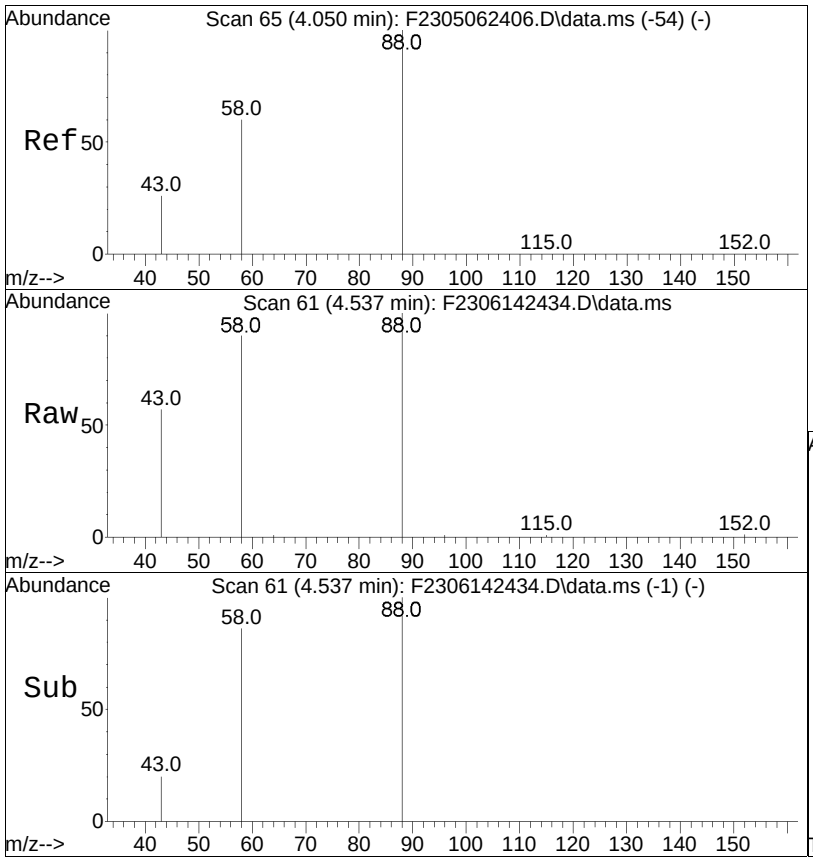
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN14\
Data File : F2306142434.D
Acq On : 14 Jun 2024 10:12 pm
Operator : PAH23:CSP
Sample : WG1934101-3,32,,
Misc : WG1934447,WG1934101,ICAL21187
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 17 11:46:44 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN14\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Jun 17 11:45:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

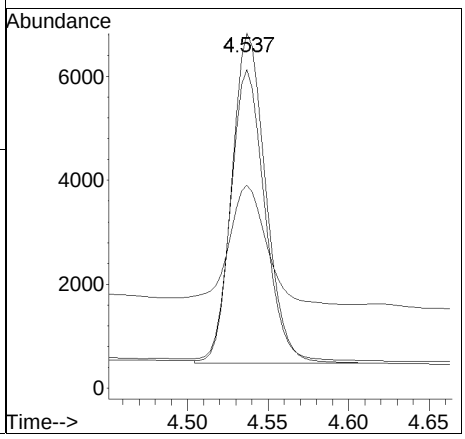




#2
1,4-dioxane
Concen: 624.99 ng/mL
RT: 4.537 min Scan# 61
Delta R.T. 0.048 min
Lab File: F2306142434.D
Acq: 14 Jun 2024 10:12 pm

Tgt Ion: 88 Resp: 9242

Ion	Ratio	Lower	Upper
88	100		
58	89.2	68.0	102.0
43	39.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306142434.D	Operator	: PAH23:CSP
Date Inj'd	: 6/14/2024 10:12 pm	Instrument	: PAH23
Sample	: WG1934101-3,32,,	Quant Date	: 6/17/2024 11:46 am

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 17 2024, 02:58 pm

Work Group: WG1934447 for Department: 32 GC/MS - Semivolatiles

Created: 14-JUN-24 Due: Operator: CSP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2431350-12	CW-6B-06062024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0613	0617	S0	Amber-A.25
L2431810-09	MW-7 (130) LOW	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0613	0619	S0	Amber-A.25
L2431998-04	MW-127C-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2431998-05	FB-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2431998-06	RB-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2431998-08	P-101B-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2431998-09	P-101C-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2431998-11	DN-3-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2431998-12	MW-903D-06072024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0614	0614	S0	Amber-A.25
L2432147-13	T-MW-5D	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0613	0614	S0	Amber-A.25
L2432319-01	MW-11-20240610	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0617	0617	S0	Amber-A.25
L2432319-02	FB-20240610	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0617	0617	S0	Amber-A.25
L2432633-01	MW-11S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0618	0620	S0	Amber-A.25
L2432633-02	MW-11D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0618	0620	S0	Amber-A.25
L2432633-03	MW-13S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0618	0620	S0	Amber-A.25
L2432633-04	MW-13D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0618	0620	S0	Amber-A.25
L2432784-01	FB-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-03	MW-16-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-04	TDMW1-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-05	TDMW2-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-06	TDMW3-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-07	MPE-804-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-08	EMW10-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-09	EMW11-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-10	EMW12-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-11	MW38-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432784-12	MW39-20240611	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0618	0618	S0	Amber-A.25
L2432917-01	EFFLUENT	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0619	0619	S0	Amber-A.25
L2432996-05	FH-GW-1	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0619	S0	Amber-A.25
L2432996-06	FH-GW-4	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0619	S0	Amber-A.25
L2433011-04	EB-128	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0619	0711	S0	Amber-A.25
L2433071-01	HRP-MW3 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-02	HRP-MW1 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-03	MW-21B 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-04	MW-21A 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-05	MW-20A 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-06	HRP-MW5A 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-07	HRP-MW5B 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-08	NMAW-2A 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433071-09	NMAW-2B 06-12-24	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0626	S0	Amber-A.25
L2433268-01	MW-1	C	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
WG1933798-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1933798-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1933798-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1933802-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1933802-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1933802-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1933802-4	Matrix Spike	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1933802-5	Matrix Spike Duplica	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1933806-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1933806-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1933806-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934098-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934098-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934098-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934098-4	Matrix Spike	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934098-5	Matrix Spike Duplica	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934101-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934101-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934101-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934102-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1934102-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 17 2024, 02:58 pm

Work Group: WG1934447 for Department: 32 GC/MS - Semivolatiles

Created: 14-JUN-24 Due: Operator: CSP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1934102-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1934447-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1934447-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934447-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934447-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934447-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934447-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1934447-3	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934447-3	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1934447-3	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934447-4	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1934447-4	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1934447-4	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				

Comments:

WG1933798-3	WG1933798-2
WG1933802-3	WG1933802-2
WG1933802-4	L2432319-01
WG1933802-5	L2432319-01
WG1933806-3	WG1933806-2
WG1934098-3	WG1934098-2
WG1934098-4	L2432784-03
WG1934098-5	L2432784-03
WG1934101-3	WG1934101-2
WG1934102-3	WG1934102-2

Analysis log File

Total Files Reported in Log : 10
Log Generated From Directory: O:\Organics\DATA\PAH23\2024\JUN\JUN10\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F2306102401.D	DFTPP.M	T2306102401	WG1933297,MSBT75	6/10/2024 9:51 am
2	F2306102402.D	14DIOX.M	L1	SOLVENT DELAY ADJUSTED	6/10/2024 10:26 am
3	F2306102403.D	14DIOX.M	I2306102401	WG1933297,MSBT54	6/10/2024 11:18 am
4	F2306102404.D	14DIOX.M	I2306102402	WG1933297,MSBT55	6/10/2024 3:06 pm
5	F2306102405.D	14DIOX.M	I2306102403	WG1933297,MSBT56	6/10/2024 3:27 pm
6	F2306102406.D	14DIOX.M	I2306102404	WG1933297,MSBT57	6/10/2024 3:49 pm
7	F2306102407.D	14DIOX.M	I2306102405	WG1933297,MSBT58	6/10/2024 4:11 pm
8	F2306102408.D	14DIOX.M	I2306102406	WG1933297,MSBT59	6/10/2024 4:33 pm
9	F2306102409.D	14DIOX.M	I2306102407	WG1933297,MSBT53	6/10/2024 4:55 pm
10	F2306102410.D	14DIOX.M	CQ2306102401	WG1933297,MSBS19	6/10/2024 5:17 pm

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Analysis log File

Total Files Reported in Log : 56
Log Generated From Directory: O:\Organics\DATA\PAH23\2024\JUN\JUN14\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F2306142401.D	DFTPP.M	WG1934447-1	WG1934447,,ICAL21187,MS..	6/14/2024 9:15 am
2	F2306142402.D	14DIOX.M	CCV	ADJUSTED SOLVENT DELAY	6/14/2024 9:52 am
3	F2306142403.D	14DIOX.M	WG1934447-2	WG1934447,,ICAL21187,MS..	6/14/2024 10:31 am
4	F2306142404.D	14DIOX.M	WG1933798-1,32,,	WG1934447,WG1933798,ICA..	6/14/2024 10:53 am
5	F2306142405.D	14DIOX.M	WG1933798-2,32,,	WG1934447,WG1933798,ICA..	6/14/2024 11:15 am
6	F2306142406.D	14DIOX.M	WG1933798-3,32,,	WG1934447,WG1933798,ICA..	6/14/2024 11:38 am
7	F2306142407.D	14DIOX.M	l2431350-12d,32,5	WG1934447,WG1933464,ICA..	6/14/2024 12:00 pm
8	F2306142408.D	14DIOX.M	L2432147-13,32,,	WG1934447,WG1933802,ICA..	6/14/2024 12:23 pm
9	F2306142409.D	14DIOX.M	L2431998-04,32,,	WG1934447,WG1933798,ICA..	6/14/2024 12:45 pm
10	F2306142410.D	14DIOX.M	L2431998-05,32,,	WG1934447,WG1933798,ICA..	6/14/2024 1:08 pm
11	F2306142411.D	14DIOX.M	L2431998-06,32,,	WG1934447,WG1933798,ICA..	6/14/2024 1:30 pm
12	F2306142412.D	14DIOX.M	L2431998-08,32,,	WG1934447,WG1933798,ICA..	6/14/2024 1:53 pm
13	F2306142413.D	14DIOX.M	L2431998-09,32,,	WG1934447,WG1933798,ICA..	6/14/2024 2:15 pm
14	F2306142414.D	14DIOX.M	L2431998-11,32,,	WG1934447,WG1933798,ICA..	6/14/2024 2:38 pm
15	F2306142415.D	14DIOX.M	L2431998-12,32,,	WG1934447,WG1933798,ICA..	6/14/2024 3:00 pm
16	F2306142416.D	14DIOX.M	L2433071-01,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 3:22 pm
17	F2306142417.D	14DIOX.M	L2433071-02,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 3:44 pm
18	F2306142418.D	14DIOX.M	L2433071-03,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 4:07 pm
19	F2306142419.D	14DIOX.M	L2433071-04,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 4:29 pm
20	F2306142420.D	14DIOX.M	L2433071-05,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 4:51 pm
21	F2306142421.D	14DIOX.M	L2433071-06,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 5:14 pm
22	F2306142422.D	14DIOX.M	L2433071-07,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 5:36 pm
23	F2306142423.D	14DIOX.M	L2433071-08,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 5:58 pm
24	F2306142424.D	14DIOX.M	L2433071-09,32,,,R3A	WG1934447,WG1933806,ICA..	6/14/2024 6:20 pm
25	F2306142425.D	14DIOX.M	L2432319-01,32,,	WG1934447,WG1933802,ICA..	6/14/2024 6:42 pm
26	F2306142426.D	14DIOX.M	WG1933802-4,32,,	WG1934447,WG1933802,ICA..	6/14/2024 7:04 pm
27	F2306142427.D	14DIOX.M	WG1933802-5,32,,	WG1934447,WG1933802,ICA..	6/14/2024 7:26 pm
28	F2306142428.D	14DIOX.M	L2432319-02,32,,	WG1934447,WG1933802,ICA..	6/14/2024 7:48 pm
29	F2306142429.D	14DIOX.M	L2431810-09,32,,	WG1934447,WG1933802,ICA..	6/14/2024 8:10 pm
30	F2306142430.D	DFTPP.M	WG1934447-3	WG1934447,,ICAL21187,MS..	6/14/2024 8:31 pm
31	F2306142431.D	14DIOX.M	WG1934447-4	WG1934447,,ICAL21187,MS..	6/14/2024 9:06 pm
32	F2306142432.D	14DIOX.M	WG1934102-1,32,,	WG1934447,WG1934102,ICA..	6/14/2024 9:28 pm
33	F2306142433.D	14DIOX.M	WG1934102-2,32,,	WG1934447,WG1934102,ICA..	6/14/2024 9:50 pm
34	F2306142434.D	14DIOX.M	WG1934102-3,32,,	WG1934447,WG1934102,ICA..	6/14/2024 10:12 pm
35	F2306142435.D	14DIOX.M	L2432784-01,32,,	WG1934447,WG1934098,ICA..	6/14/2024 10:34 pm
36	F2306142436.D	14DIOX.M	L2432784-03,32,,	WG1934447,WG1934098,ICA..	6/14/2024 10:56 pm
37	F2306142437.D	14DIOX.M	WG1934098-4,32,,	WG1934447,WG1934098,ICA..	6/14/2024 11:18 pm
38	F2306142438.D	14DIOX.M	WG1934098-5,32,,	WG1934447,WG1934098,ICA..	6/14/2024 11:40 pm
39	F2306142439.D	14DIOX.M	L2432784-04,32,,	WG1934447,WG1934098,ICA..	6/15/2024 12:02 am
40	F2306142440.D	14DIOX.M	L2432784-05,32,,	WG1934447,WG1934098,ICA..	6/15/2024 12:23 am
41	F2306142441.D	14DIOX.M	L2432784-06,32,,	WG1934447,WG1934098,ICA..	6/15/2024 12:45 am
42	F2306142442.D	14DIOX.M	L2432784-07,32,,	WG1934447,WG1934098,ICA..	6/15/2024 1:07 am
43	F2306142443.D	14DIOX.M	L2432784-08,32,,	WG1934447,WG1934098,ICA..	6/15/2024 1:29 am
44	F2306142444.D	14DIOX.M	L2432784-09,32,,	WG1934447,WG1934098,ICA..	6/15/2024 1:50 am
45	F2306142445.D	14DIOX.M	L2432784-10,32,,	WG1934447,WG1934098,ICA..	6/15/2024 2:12 am
46	F2306142446.D	14DIOX.M	L2432784-11,32,,	WG1934447,WG1934098,ICA..	6/15/2024 2:33 am
47	F2306142447.D	14DIOX.M	L2432784-12,32,,	WG1934447,WG1934098,ICA..	6/15/2024 2:55 am
48	F2306142448.D	14DIOX.M	L2432917-01,32,,	WG1934447,WG1934098,ICA..	6/15/2024 3:17 am
49	F2306142449.D	14DIOX.M	L2432996-05,32,,	WG1934447,WG1934101,ICA..	6/15/2024 3:38 am
50	F2306142450.D	14DIOX.M	L2432996-06,32,,	WG1934447,WG1934101,ICA..	6/15/2024 4:00 am
51	F2306142451.D	14DIOX.M	L2433268-01,32,,	WG1934447,WG1934101,ICA..	6/15/2024 4:21 am
52	F2306142452.D	14DIOX.M	L2432633-03,32,,	WG1934447,WG1934101,ICA..	6/15/2024 4:42 am
53	F2306142453.D	14DIOX.M	L2432633-01,32,,	WG1934447,WG1934101,ICA..	6/15/2024 5:04 am
54	F2306142454.D	14DIOX.M	L2432633-02,32,,	WG1934447,WG1934101,ICA..	6/15/2024 5:25 am
55	F2306142455.D	14DIOX.M	L2432633-04,32,,	WG1934447,WG1934101,ICA..	6/15/2024 5:47 am
56	F2306142456.D	14DIOX.M	L2433011-04,32,,	WG1934447,WG1934102,ICA..	6/15/2024 6:08 am

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ORGANIC ELN REPORT

Workgroup: WG1934101

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI524-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBT34
Spike Type: 1,4-DIOXANE **Lot #:** MSBT35
Spike Verify by: GMF
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Na2SO4	ON0601224E
Glass Wool	06323999

Conc.Method: S-EVAP
Solvent Type: DCM
Lot #: EI524-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432633-01 SAMP	06/13/24 20:00	Alannah Corcoran	255	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
L2432633-02 SAMP	06/13/24 20:00	Alannah Corcoran	255	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
L2432633-03 SAMP	06/13/24 20:00	Alannah Corcoran	255	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
L2432633-04 SAMP	06/13/24 20:00	Alannah Corcoran	255	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
L2432996-05 SAMP	06/13/24 20:00	Alannah Corcoran	255	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
L2432996-06 SAMP	06/13/24 20:00	Alannah Corcoran	230	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
L2433268-01 SAMP	06/13/24 20:00	Alannah Corcoran	265	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A

Reported: 17-JUN-24 02:58 PM

ORGANIC ELN REPORT

Workgroup: WG1934101

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1934101-1 BLANK	06/13/24 20:00	Alannah Corcoran	250	7	.25		06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
	QCs shared between WG1934102_1_98 GMF 6/13/24									
WG1934101-2 LCS	06/13/24 20:00	Alannah Corcoran	250	7	.25	.25	06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A
WG1934101-3 LCSD	06/13/24 20:00	Alannah Corcoran	250	7	.25	.25	06/13/24 21:30	Mcginnis Brannon	2.5	SEVAP 1A

Reported: 17-JUN-24 02:58 PM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-11S (L2432633-01)	103	95	--	--			0
MW-11D (L2432633-02)	109	101	--	--			0
MW-13S (L2432633-03)	93	85	--	--			0
MW-13D (L2432633-04)	103	95	--	--			0
WG1933705-1BLANK	105	93	--	--			0
WG1933705-2LCS	108	117	--	--			0
WG1933705-3LCSD	105	115	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1933705-2 **Analysis Date** : 06/14/24 06:51	**File ID**	: 22240614a-03
LCSD Sample ID	: WG1933705-3 **Analysis Date** : 06/14/24 07:09	**File ID**	: 22240614a-04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	931P	186 Q	500	852P	170 Q	9	30-150	25
MCPA	500	712	142	500	659	132	7	30-150	25
Dalapon	5	5.11	102	5	4.32	86	17	30-150	25
Dicamba	5	5.92	118	5	5.50	110	7	30-150	25
Dichloroprop	5	5.49	110	5	5.12	102	8	30-150	25
2,4-D	5	5.54	111	5	5.17	103	7	30-150	25
2,4-DB	5	5.96	119	5	5.78	116	3	30-150	25
2,4,5-T	5	6.05	121	5	5.51	110	10	30-150	25
2,4,5-TP (Silvex)	5	5.57	111	5	5.28	106	5	30-150	25
Dinoseb	5	4.61	92	5	4.43	89	3	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1933705-1	**Lab File ID**	: 22240614a-02
Matrix	: WATER	**Extraction Date**	: 06/13/24
Analysis Date (1)	: 06/14/24 06:32	**Analysis Date (2)**	: 06/14/24 06:32
Instrument ID (1)	: PEST22	**Instrument ID (2)**	: PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1933705-2LCS	WG1933705-2	06/14/24 06:51	06/14/24 06:51
WG1933705-3LCSD	WG1933705-3	06/14/24 07:09	06/14/24 07:09
MW-11D	L2432633-02	06/14/24 13:58	06/14/24 13:58
MW-13S	L2432633-03	06/14/24 14:16	06/14/24 14:16
MW-13D	L2432633-04	06/14/24 14:35	06/14/24 14:35
MW-11S	L2432633-01	06/14/24 18:55	06/14/24 18:55

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 04/12/24 04/12/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1816363-1	04/12/24 06:35
Herbicides L2	R1816363-2	04/12/24 06:54
Herbicides L3	R1816363-3	04/12/24 07:12
Herbicides L4	R1816363-4	04/12/24 07:31
Herbicides L5	R1816363-5	04/12/24 07:49
Herbicides L6	R1816363-6	04/12/24 08:08
R1816363-7 ICV	R1816363-7	04/12/24 08:26
WG1934262-1 CCAL	WG1934262-1	06/14/24 06:04
WG1933705-1 BLANK	WG1933705-1	06/14/24 06:32
WG1933705-2 LCS	WG1933705-2	06/14/24 06:51
WG1933705-3 LCSD	WG1933705-3	06/14/24 07:09
WG1934262-3 CCAL	WG1934262-3	06/14/24 13:39
MW-11D	L2432633-02	06/14/24 13:58
MW-13S	L2432633-03	06/14/24 14:16
MW-13D	L2432633-04	06/14/24 14:35
WG1934262-4 CCAL	WG1934262-4	06/14/24 17:59
MW-11S	L2432633-01	06/14/24 18:55

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 18:55
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240614a-42	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 13:58
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240614a-26	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 14:16
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240614a-27	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/14/24 14:35
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240614a-28	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933705-1	**Date Collected**	: NA
Client ID	: WG1933705-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/14/24 06:32
Sample Matrix	: WATER	**Date Extracted**	: 06/13/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240614a-02	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 01:58 pm
Operator : pest22:ejl
Sample : L2432633-02,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:03:27 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-25.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.530	8.525	654.4E6	678.8E6	0.250	0.250M3
Standard Area 1 : #1 = 737812212				Recovery =	88.70%	
Standard Area 1 : #2 = 768132909				Recovery =	88.37%	
System Monitoring Compounds						
3) s DCAA (surrog	6.985	7.455	292.8E6	277.7E6	0.544M4	0.505
Spiked Amount	0.500	Range 30 - 150		Recovery =	108.80%	101.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D.
12) t Dinoseb	0.000	0.000	0	0	N.D.	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

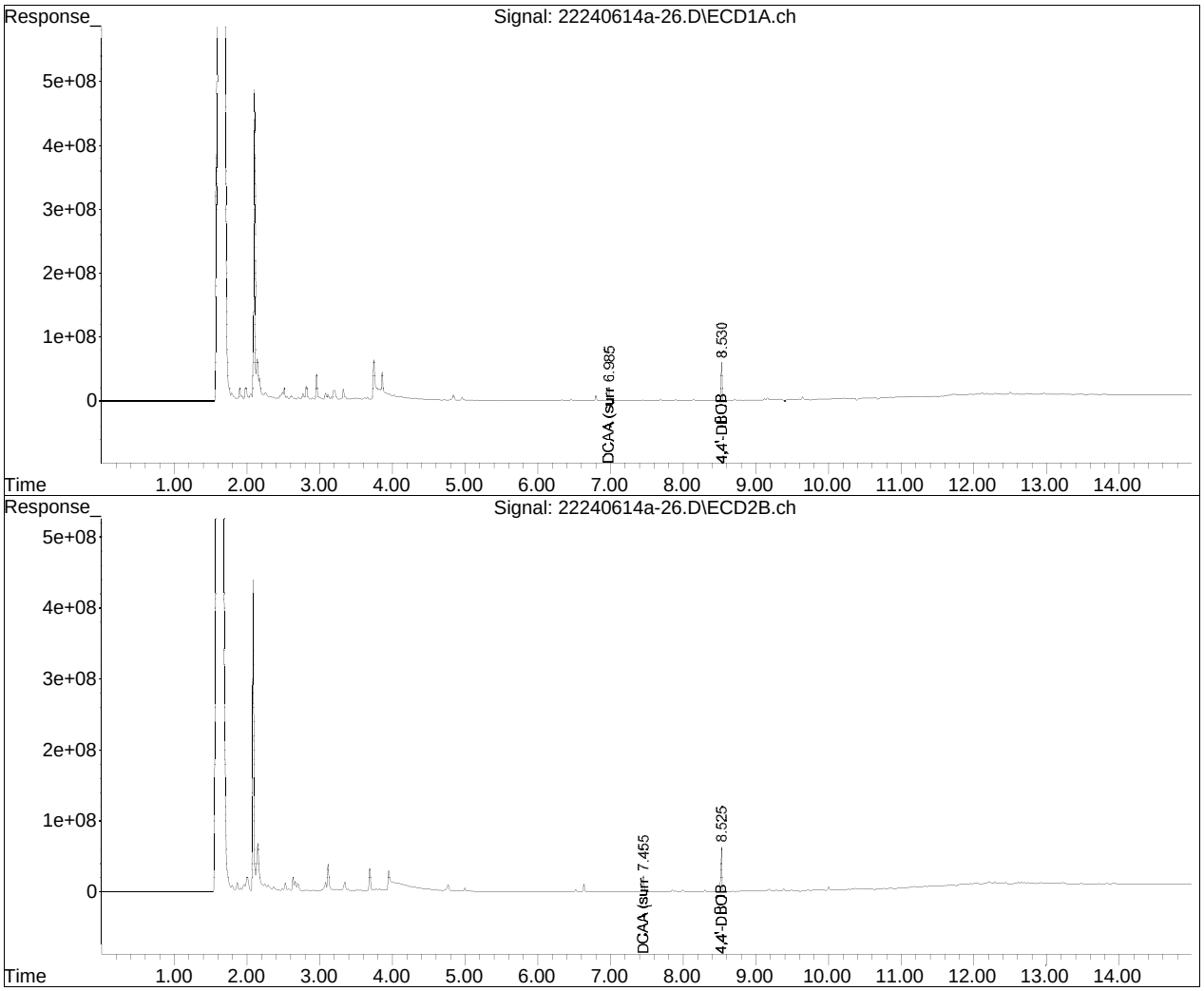
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-25.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 01:58 pm
Operator : pest22:ejl
Sample : L2432633-02,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:03:27 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

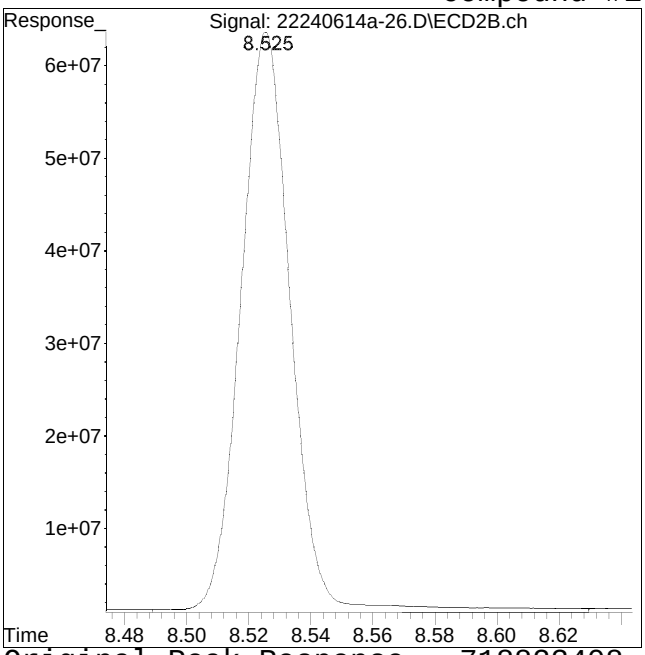
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

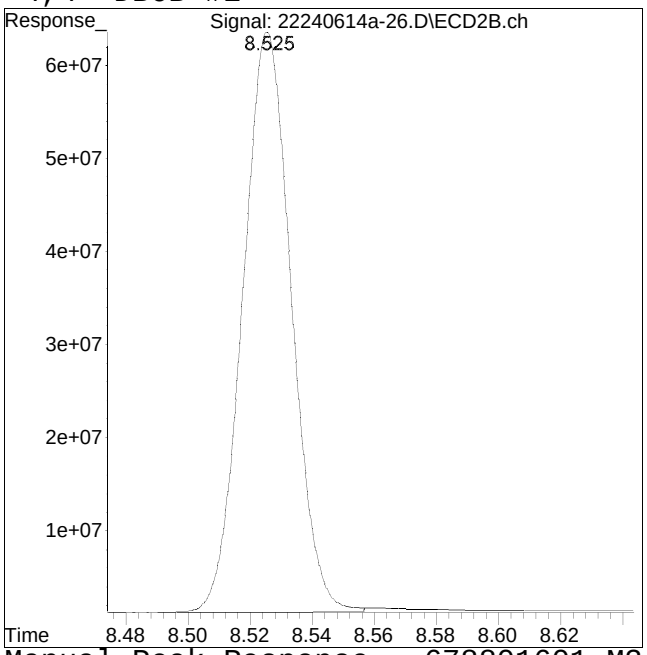


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-26.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:58 pm Instrument : Pest22
Sample : L2432633-02,42,, Quant Date : 6/14/2024 6:03 pm

Compound #14: 4,4'-DBOB #2



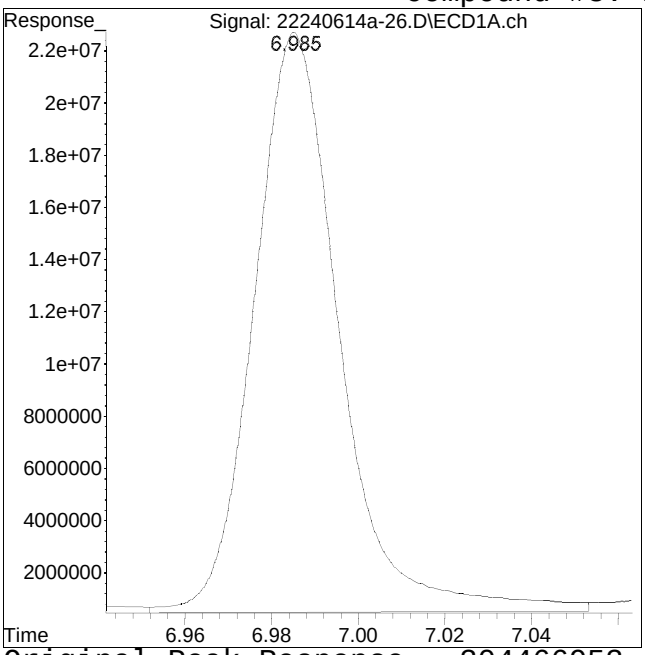


Original Peak Response = 718823408 Manual Peak Response = 678801601 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

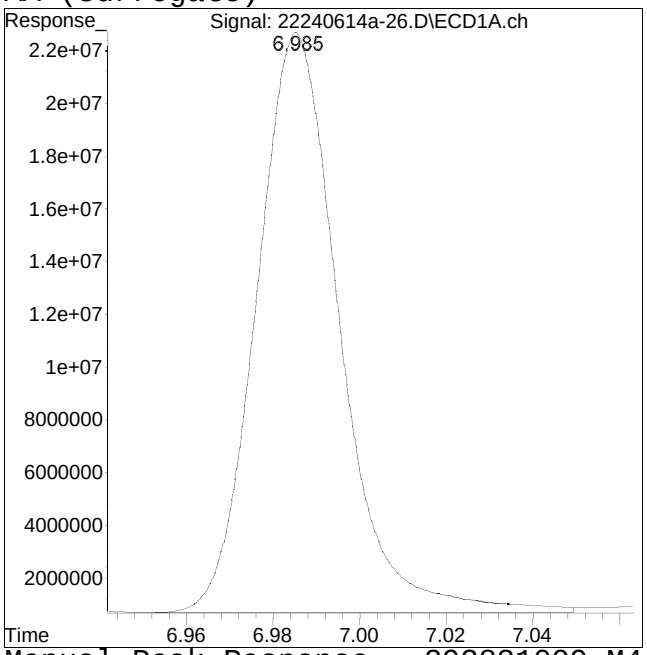
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-26.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:58 pm Instrument : Pest22
Sample : L2432633-02,42,, Quant Date : 6/14/2024 6:03 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 304466953



Manual Peak Response = 292831099 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 02:16 pm
Operator : pest22:ejl
Sample : L2432633-03,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:03:28 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-25.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.530	8.525	750.0E6	786.4E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 737812212				Recovery = 101.66%		
	Standard Area 1 : #2 = 768132909				Recovery = 102.38%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.985	7.455	288.2E6	270.1E6	0.467M4	0.424
	Spiked Amount	0.500	Range 30 - 150		Recovery =	93.40%	84.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D.	N.D.
6) t	MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D.	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

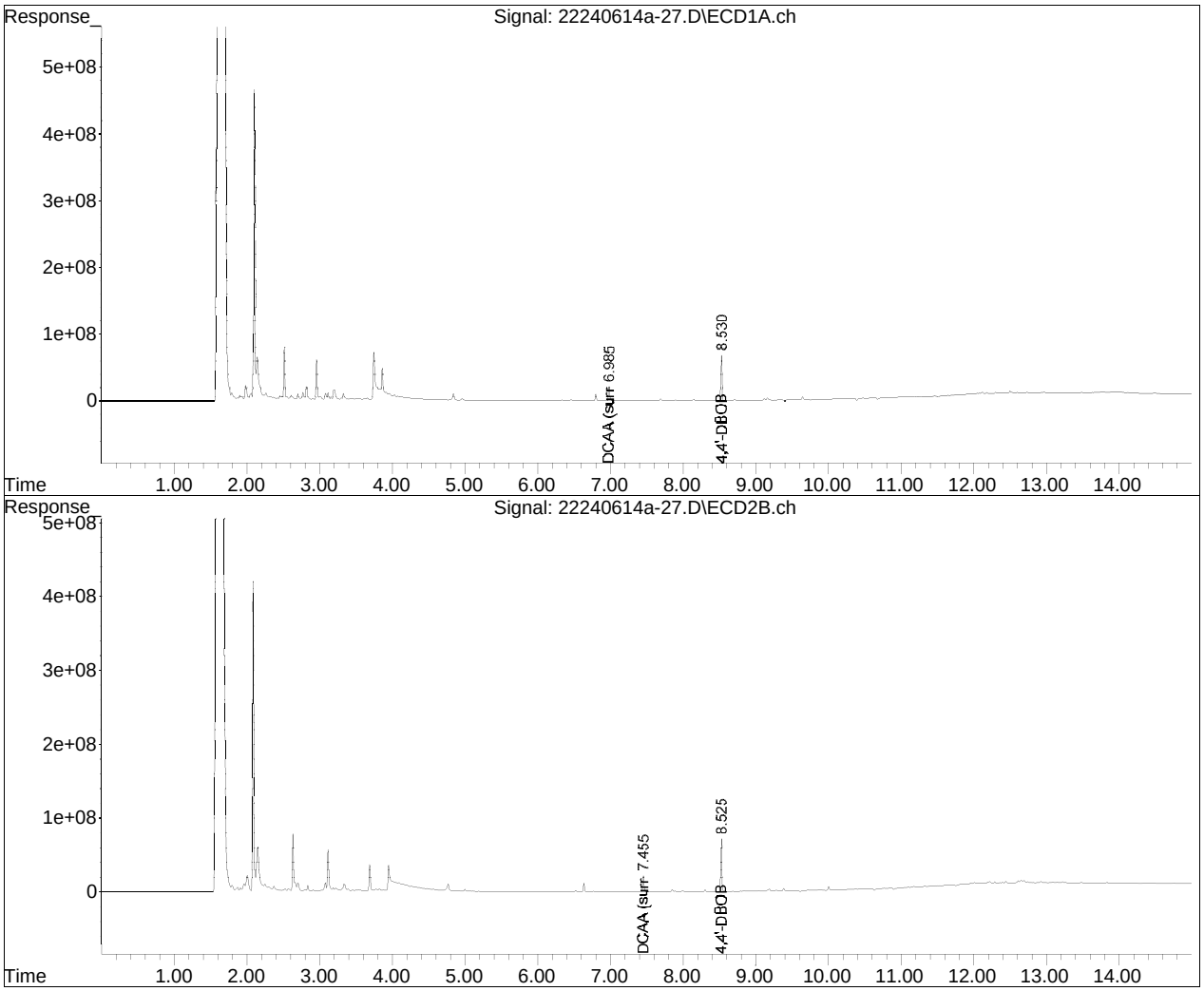
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-25.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 02:16 pm
Operator : pest22:ejl
Sample : L2432633-03,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:03:28 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

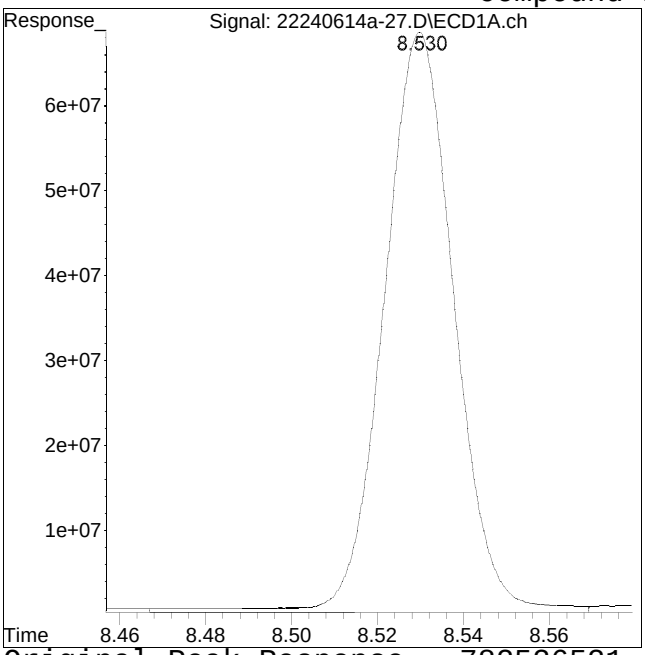
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

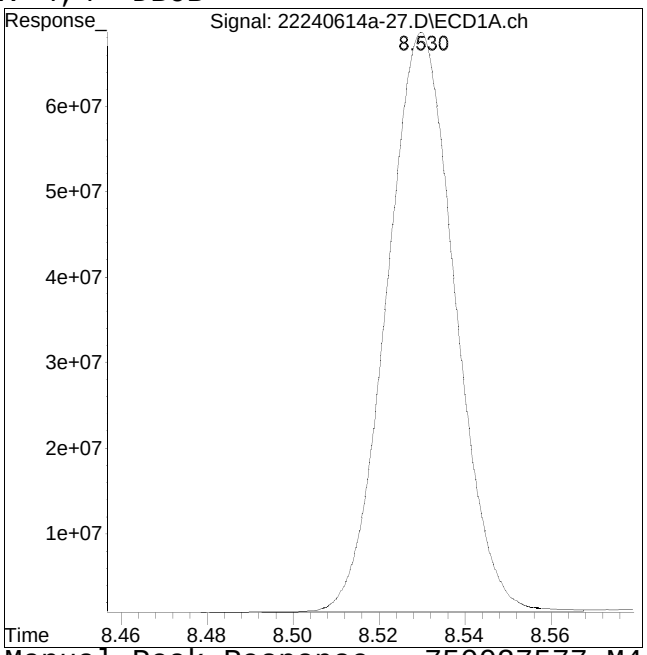


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-27.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 2:16 pm Instrument : Pest22
Sample : L2432633-03,42,, Quant Date : 6/14/2024 6:03 pm

Compound #1: 4,4'-DBOB



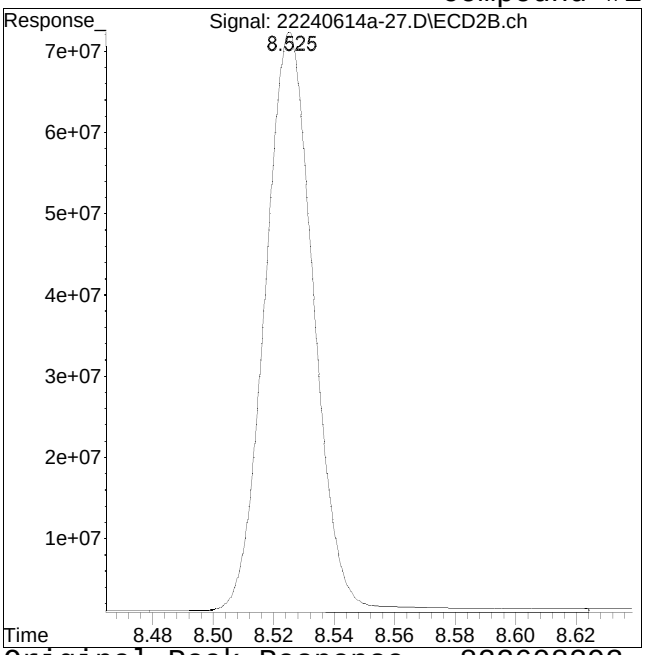


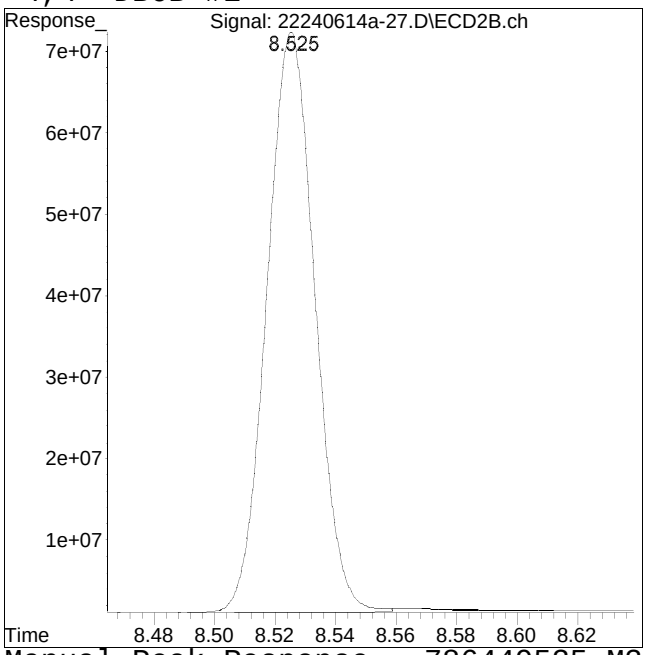
Original Peak Response = 782526521 Manual Peak Response = 750027577 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-27.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 2:16 pm Instrument : Pest22
Sample : L2432633-03,42,, Quant Date : 6/14/2024 6:03 pm

Compound #14: 4,4'-DBOB #2



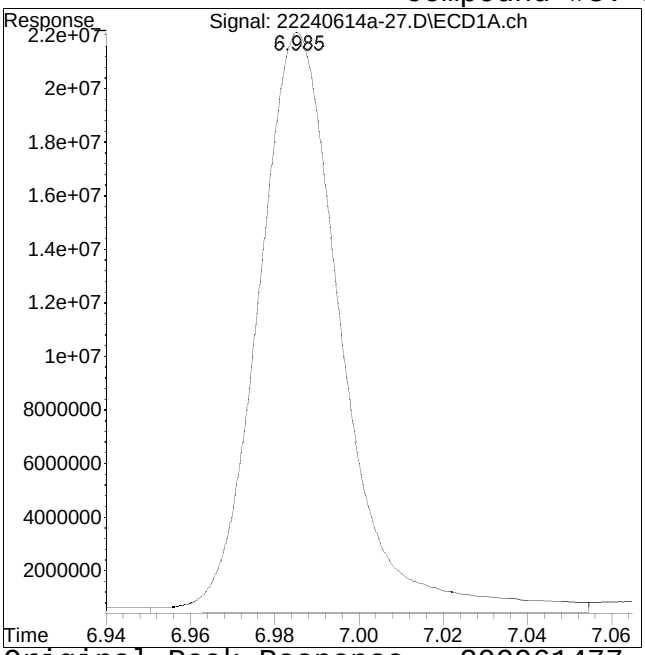


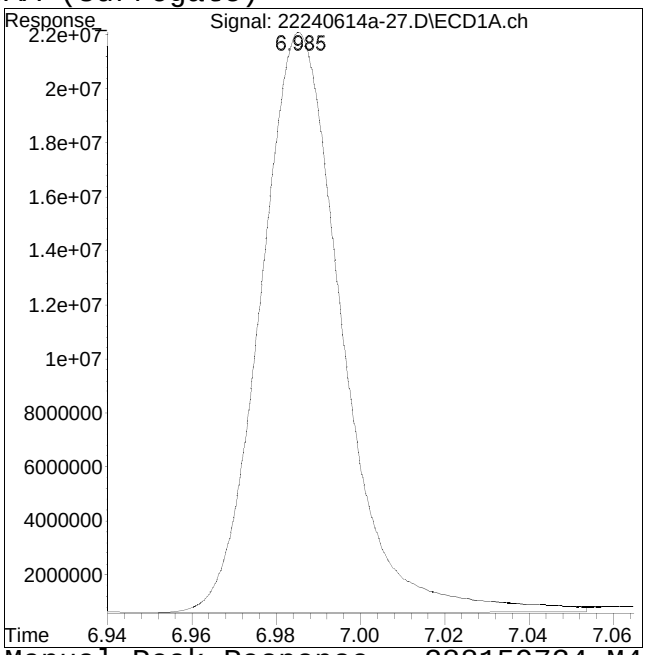
Original Peak Response = 822608393 Manual Peak Response = 786449535 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-27.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 2:16 pm Instrument : Pest22
Sample : L2432633-03,42,, Quant Date : 6/14/2024 6:03 pm

Compound #3: DCAA (surrogate)





Original Peak Response = 299961477 Manual Peak Response = 288159734 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 02:35 pm
Operator : pest22:ejl
Sample : L2432633-04,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:03:30 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-25.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.530	8.525	714.2E6	746.5E6	0.250M3	0.250M3
	Standard Area 1 : #1 = 737812212				Recovery =	96.80%	
	Standard Area 1 : #2 = 768132909				Recovery =	97.19%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.985	7.456	301.8E6	285.9E6	0.514M4	0.473
	Spiked Amount	0.500	Range 30 - 150		Recovery =	102.80%	94.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D.	N.D.
6) t	MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D.
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D.
12) t	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

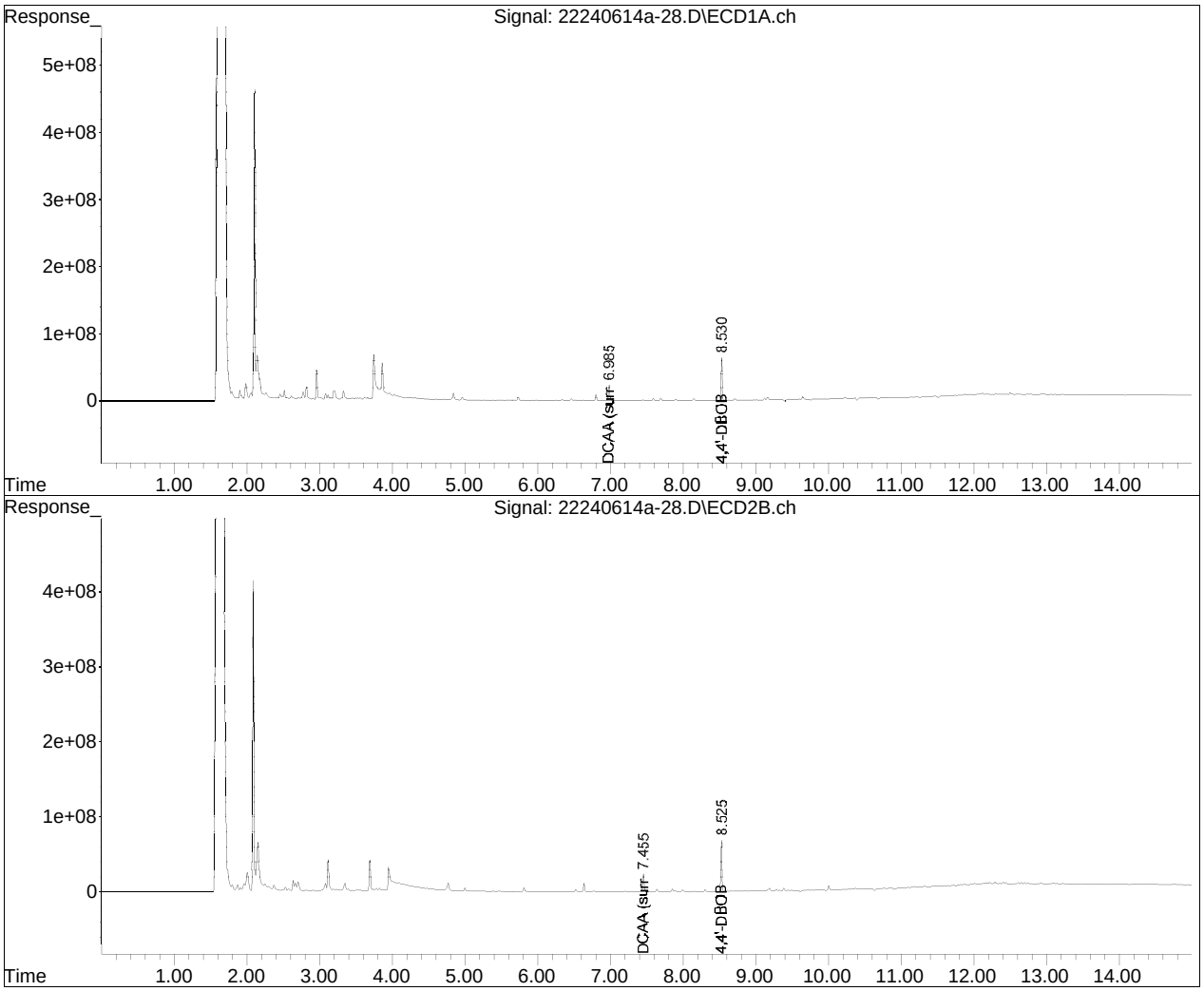
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-25.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 02:35 pm
Operator : pest22:ejl
Sample : L2432633-04,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:03:30 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

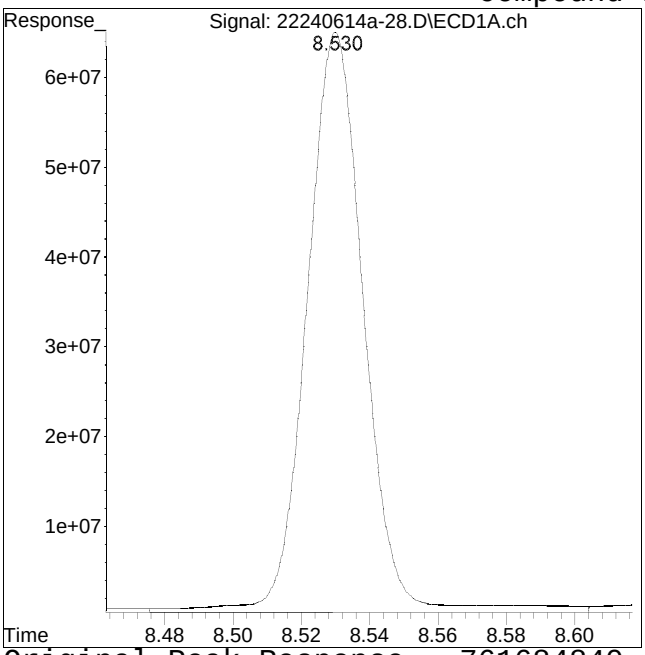
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

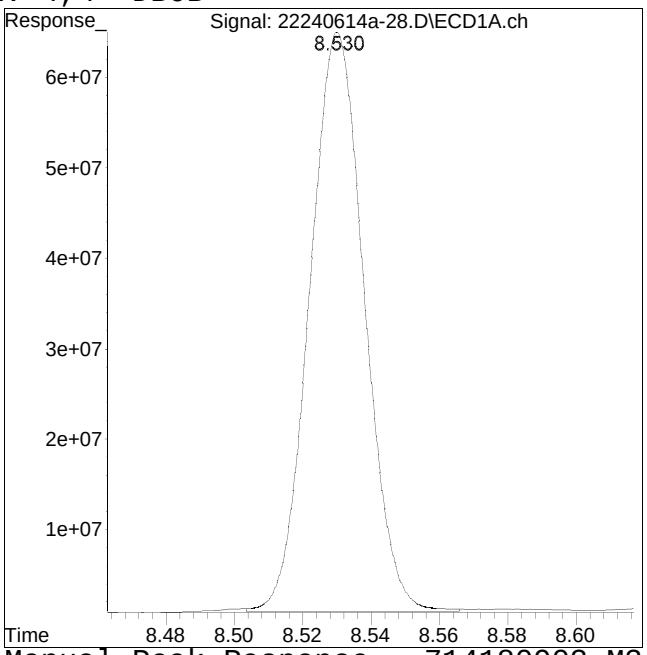


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-28.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 2:35 pm Instrument : Pest22
Sample : L2432633-04,42,, Quant Date : 6/14/2024 6:03 pm

Compound #1: 4,4'-DBOB



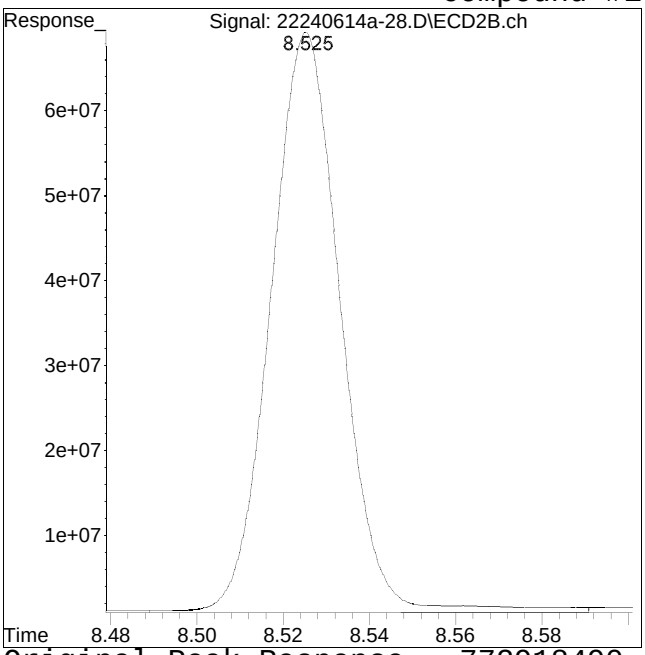


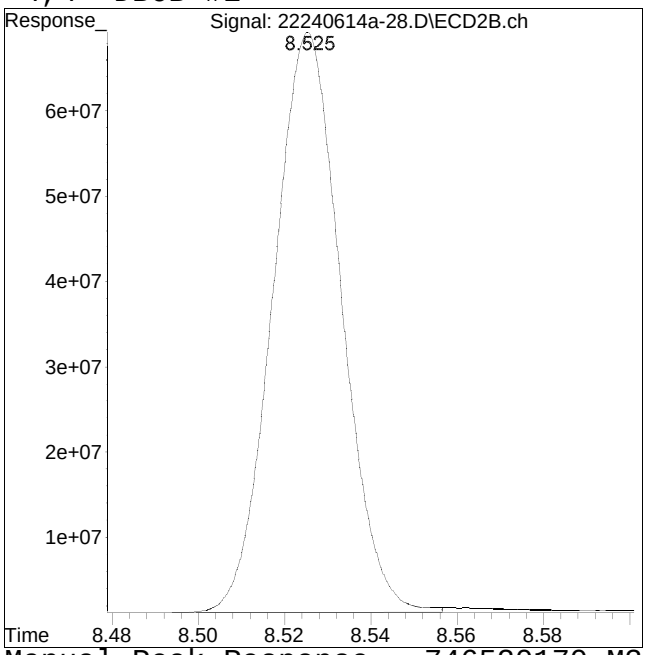
Original Peak Response = 761684840 Manual Peak Response = 714180903 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-28.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 2:35 pm Instrument : Pest22
Sample : L2432633-04,42,, Quant Date : 6/14/2024 6:03 pm

Compound #14: 4,4'-DBOB #2



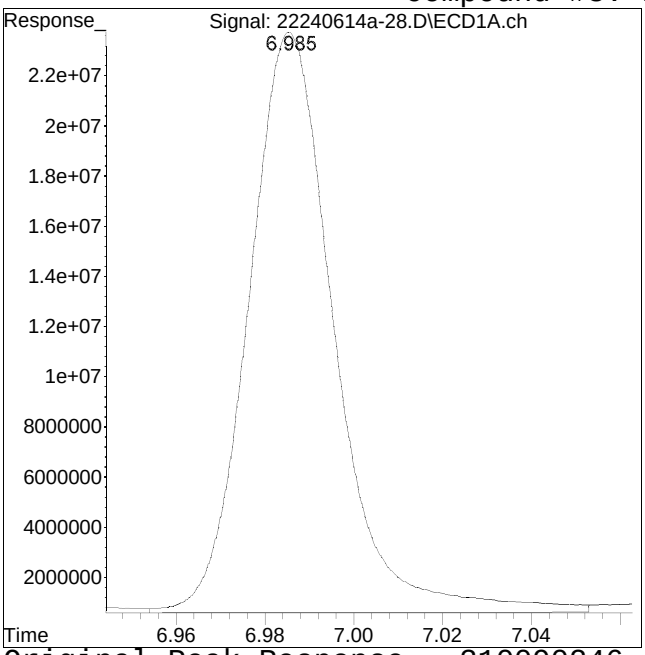


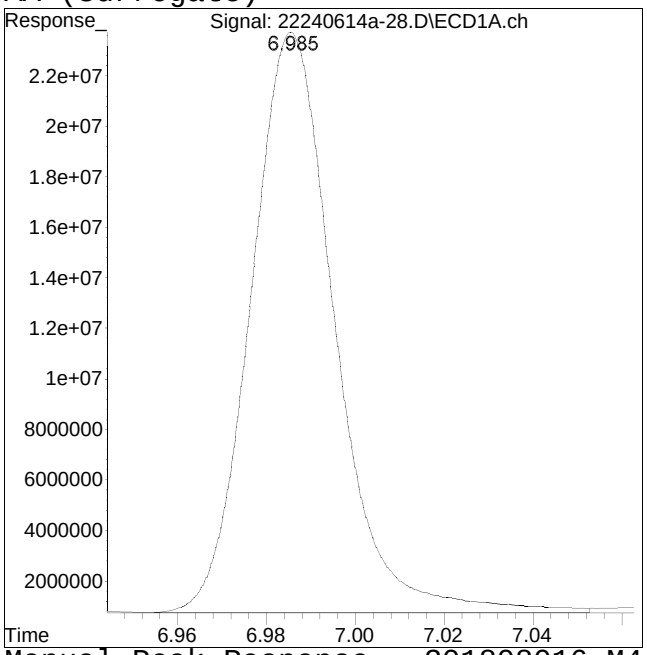
Original Peak Response = 772918490 Manual Peak Response = 746520170 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-28.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 2:35 pm Instrument : Pest22
Sample : L2432633-04,42,, Quant Date : 6/14/2024 6:03 pm

Compound #3: DCAA (surrogate)





Original Peak Response = 310090246 Manual Peak Response = 301808016 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-42.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:55 pm
Operator : pest22:ejl
Sample : L2432633-01,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 06:36:02 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-39.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.530	8.525	779.1E6	809.4E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 894368085				Recovery =	87.11%	
	Standard Area 1 : #2 = 919408208				Recovery =	88.04%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.986	7.455	330.2E6	311.0E6	0.515M4	0.474
	Spiked Amount	0.500	Range 30 - 150		Recovery =	103.00%	94.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t	MCPP	0.000	0.000	0	0	N.D.	N.D.
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
12) t	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

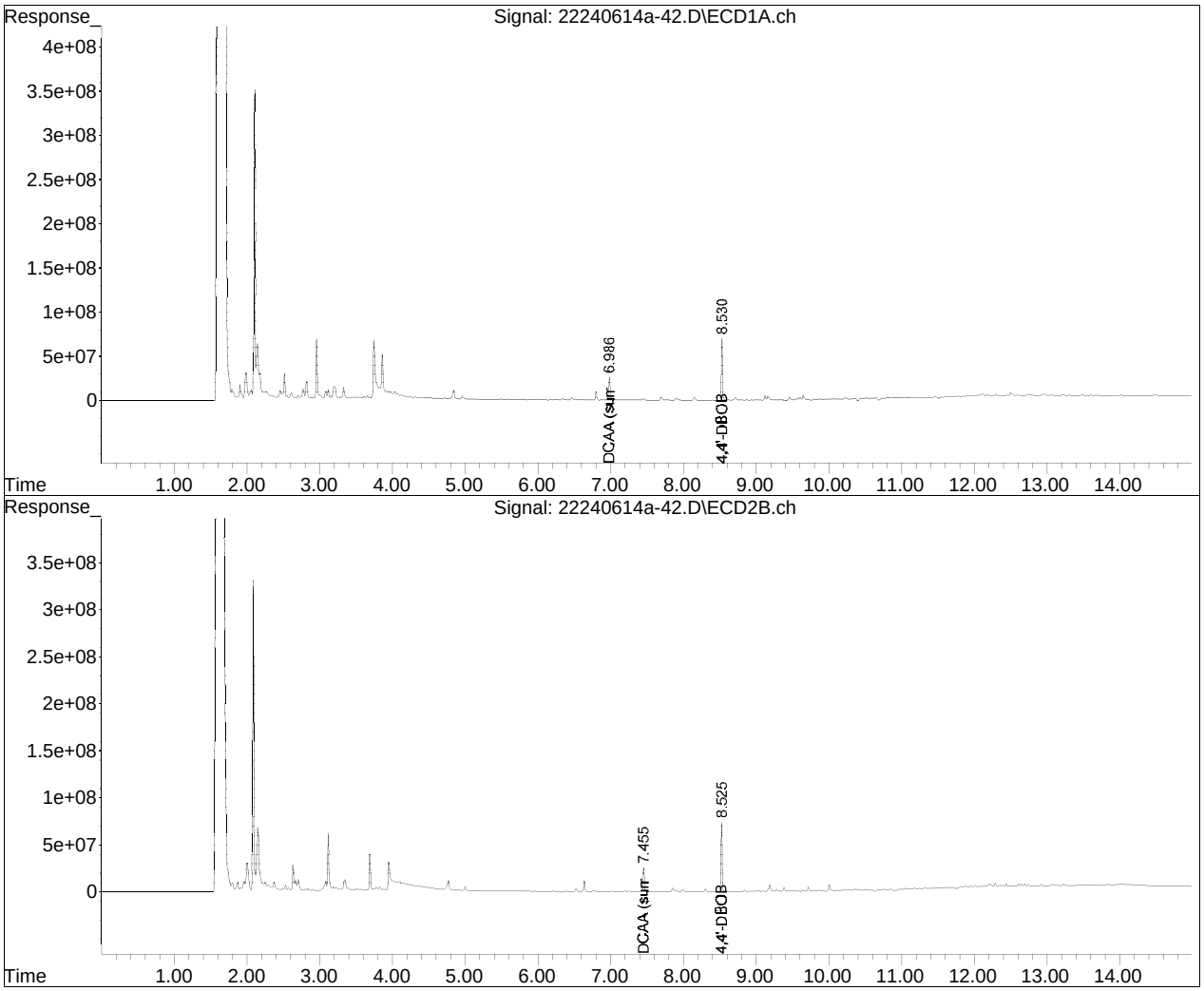
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-39.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-42.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:55 pm
Operator : pest22:ejl
Sample : L2432633-01,42,,
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 06:36:02 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

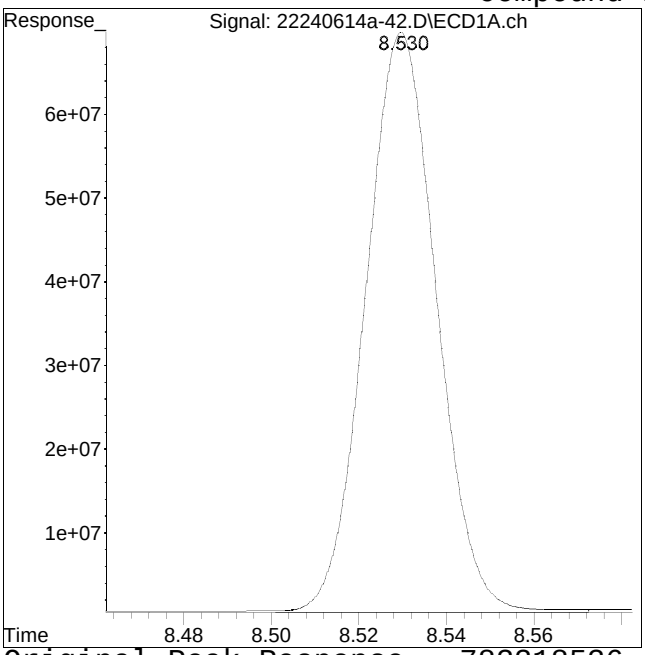
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

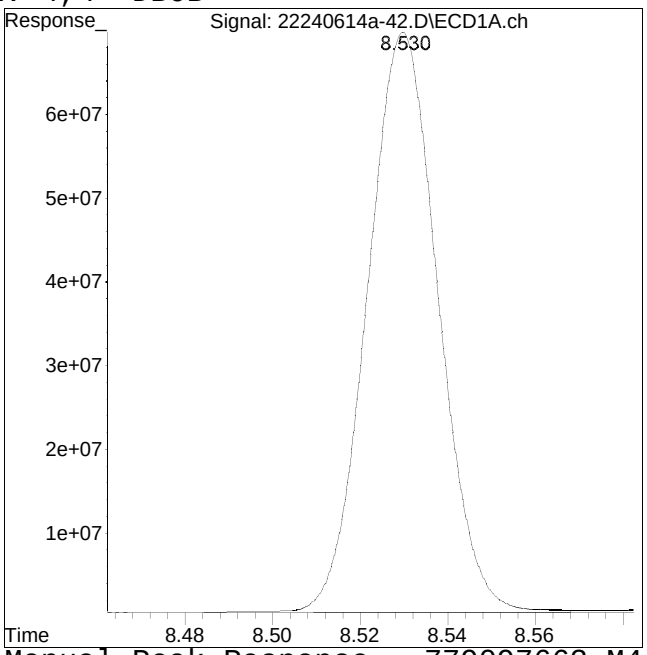


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-42.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 6:55 pm Instrument : Pest22
Sample : L2432633-01,42,, Quant Date : 6/15/2024 6:36 am

Compound #1: 4,4'-DBOB



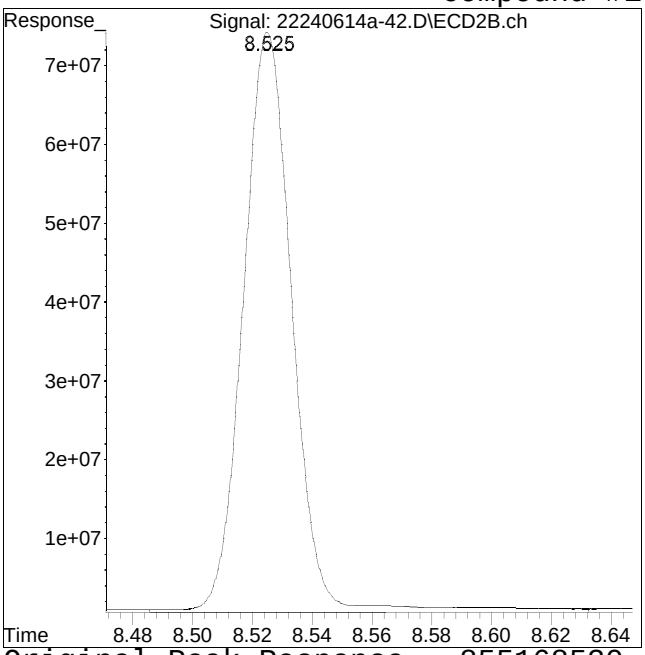


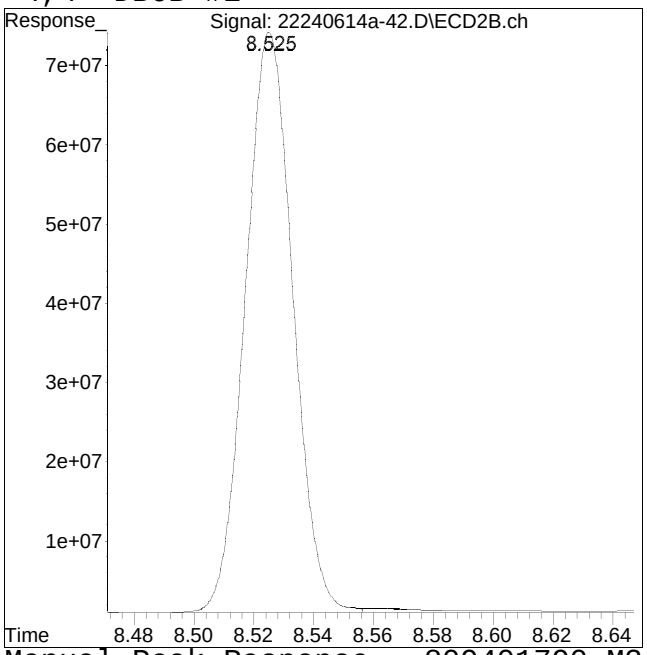
Original Peak Response = 783318536 Manual Peak Response = 779097663 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-42.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 6:55 pm Instrument : Pest22
Sample : L2432633-01,42,, Quant Date : 6/15/2024 6:36 am

Compound #14: 4,4'-DBOB #2



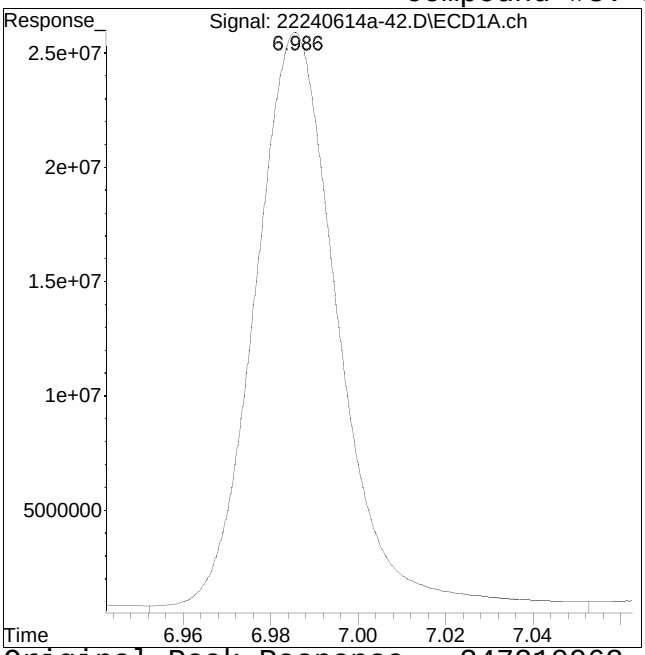


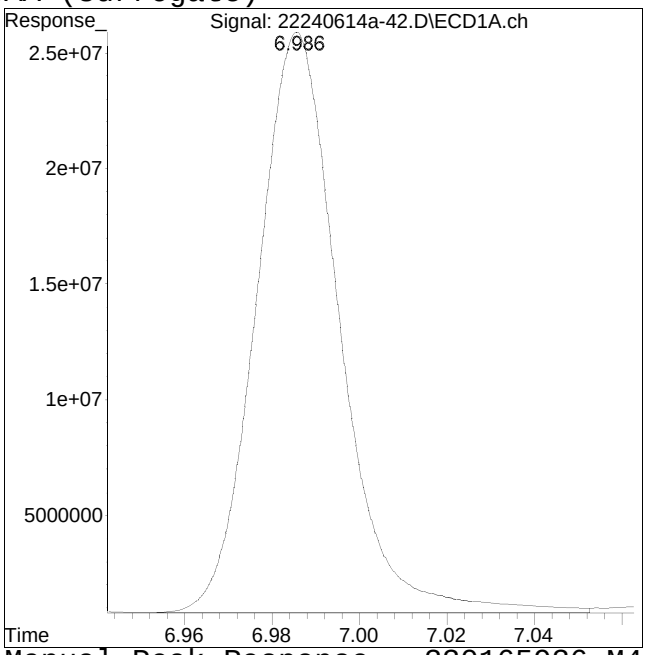
Original Peak Response = 855168530 Manual Peak Response = 809401790 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-42.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 6:55 pm Instrument : Pest22
Sample : L2432633-01,42,, Quant Date : 6/15/2024 6:36 am

Compound #3: DCAA (surrogate)





Original Peak Response = 347210963 Manual Peak Response = 330165936 M4
M4 = Poor automated baseline construction.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	ISTD							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Silvex)	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Signal #2 Calibration Files

1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D

6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41
12)	t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Sil...	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Signal #2 Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil...	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.574	8.565	756.9E6	704.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.029	7.496	35328399	32431372	0.059M4	0.059M4
		Spiked Amount	0.500	Range 30 - 150	Recovery =		11.80%#	11.80%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	30900834	24425609	0.049M4	0.044M4
4)	t	Dicamba	7.214	7.677	100.2E6	89031745	0.058M4	0.055M4
5)	t	MCPP	7.415	7.788	6799605	10777388	4.240M4	5.312M4
6)	t	MCPA	7.560	8.014	16578581	20607835	5.923M3	6.238M4
7)	t	Dichloroprop	7.916	8.331	34063325	30623615	0.061M4	0.059M4
8)	t	2,4-D	8.125	8.603	40438671	36965903	0.058M4	0.057M4
9)	t	2,4,5-TP (Si	8.842	9.260	143.0E6	129.6E6	0.056M4	0.055M4
10)	t	2,4,5-T	9.057	9.547	138.4E6	124.5E6	0.055M4	0.055M4
11)	t	2,4-DB	9.465	9.908	23445909	22049037	0.061M4	0.057M4
12)	t	Dinoseb	10.217	10.131	79147594	72789265	0.054M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

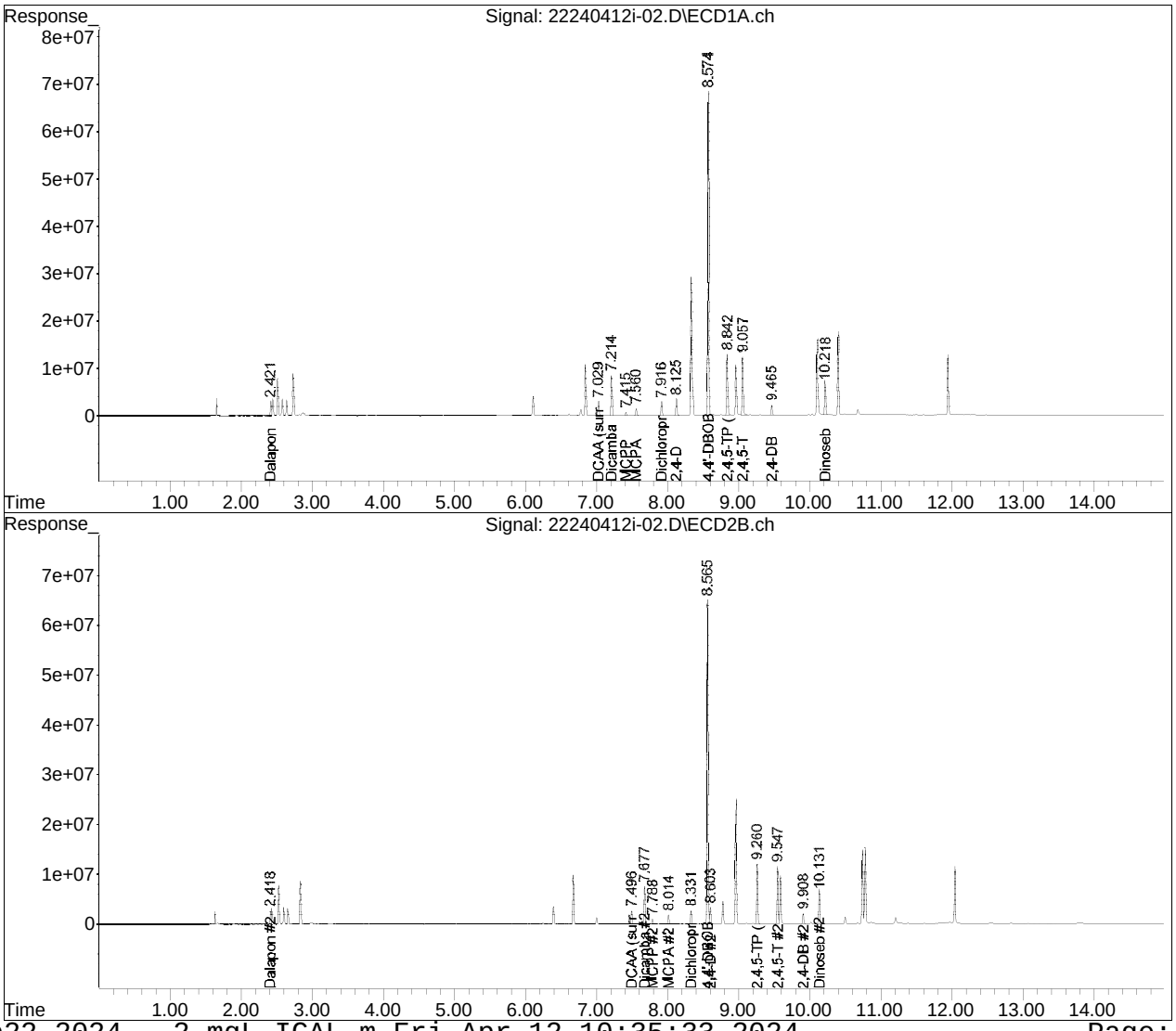
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

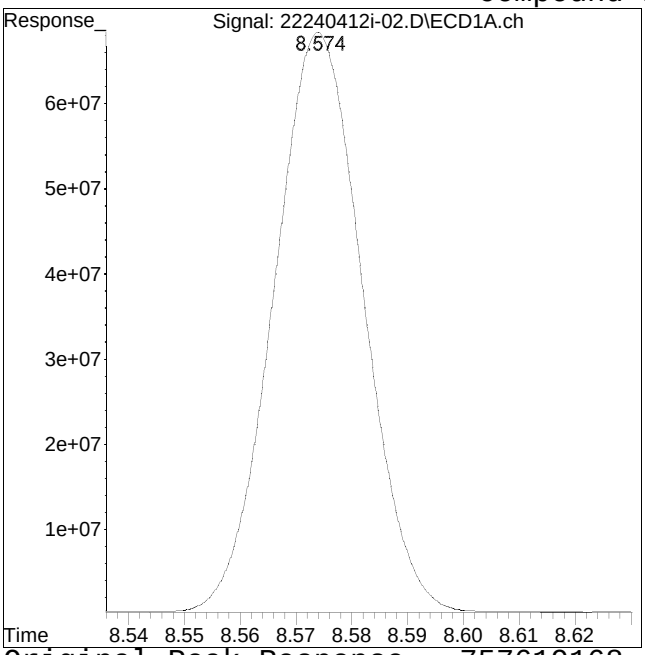
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



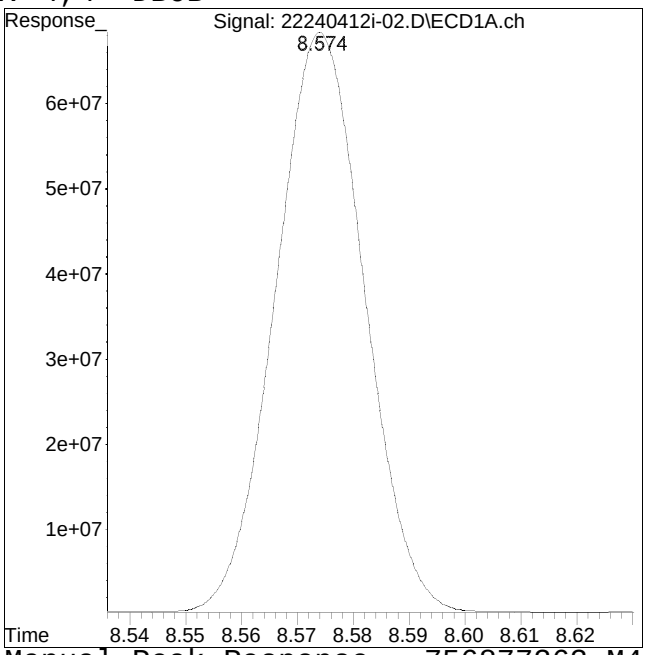
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #1: 4,4'-DBOB



Original Peak Response = 757619168

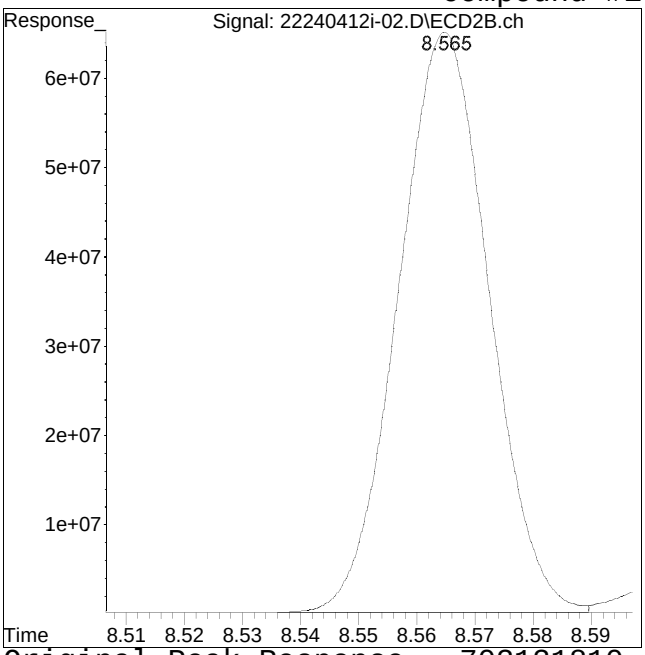


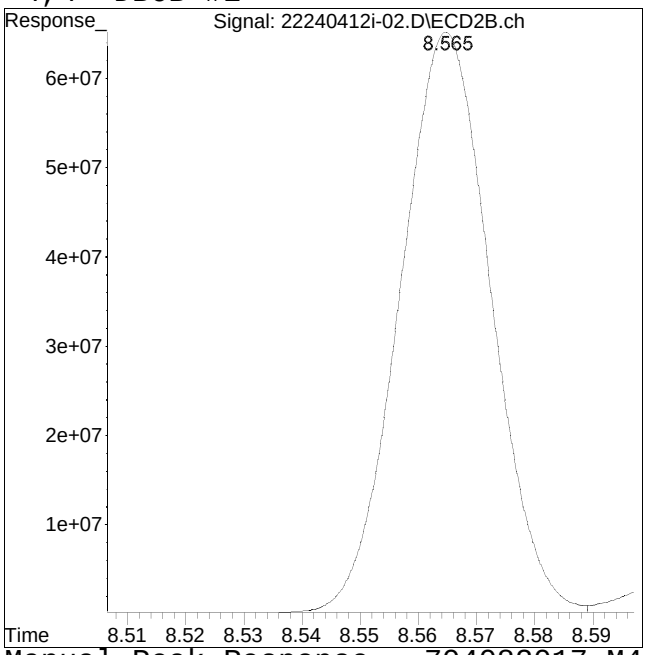
Manual Peak Response = 756877363 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #14: 4,4'-DBOB #2



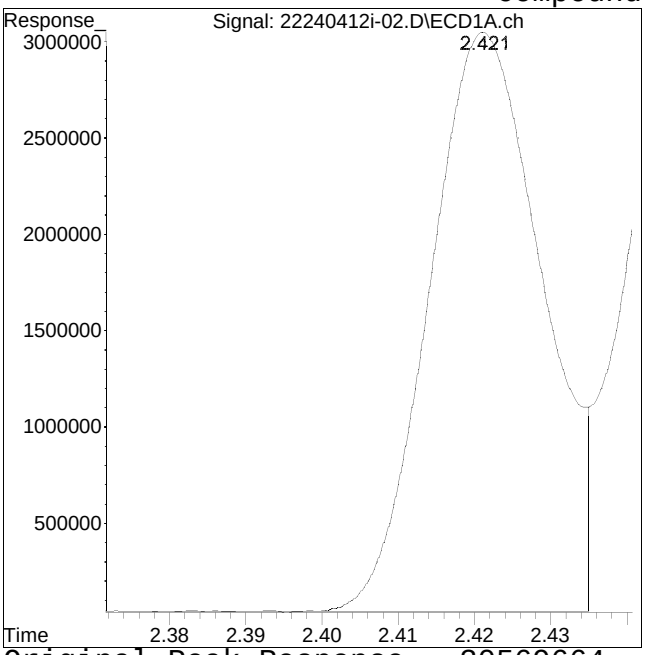


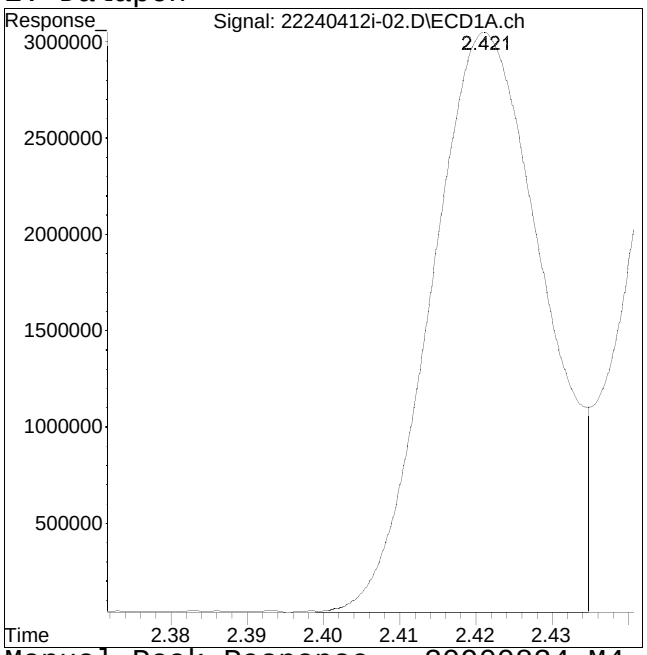
Original Peak Response = 703131810 Manual Peak Response = 704082017 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #2: Dalapon



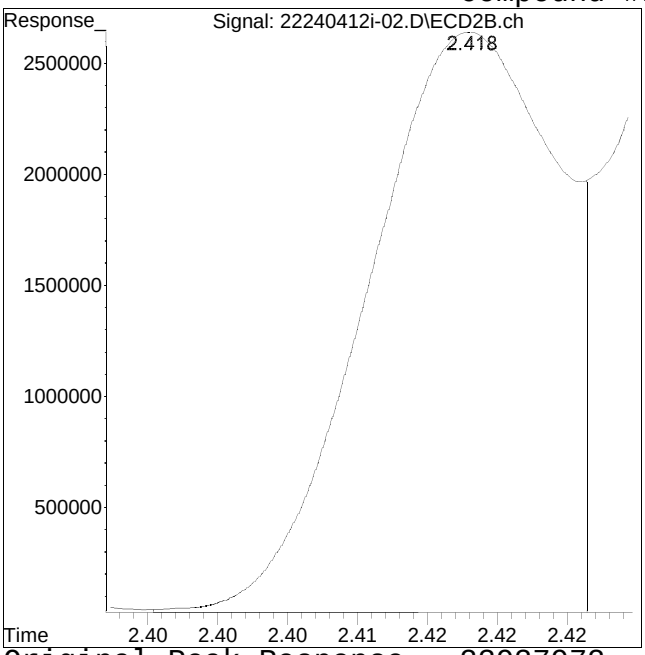


Original Peak Response = 30569664 Manual Peak Response = 30900834 M4
M4 = Poor automated baseline construction.

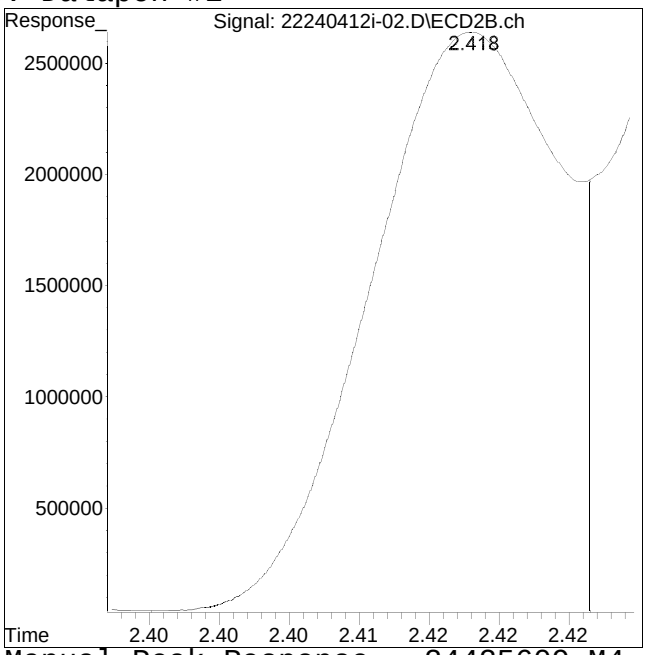
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #15: Dalapon #2



Original Peak Response = 23937972



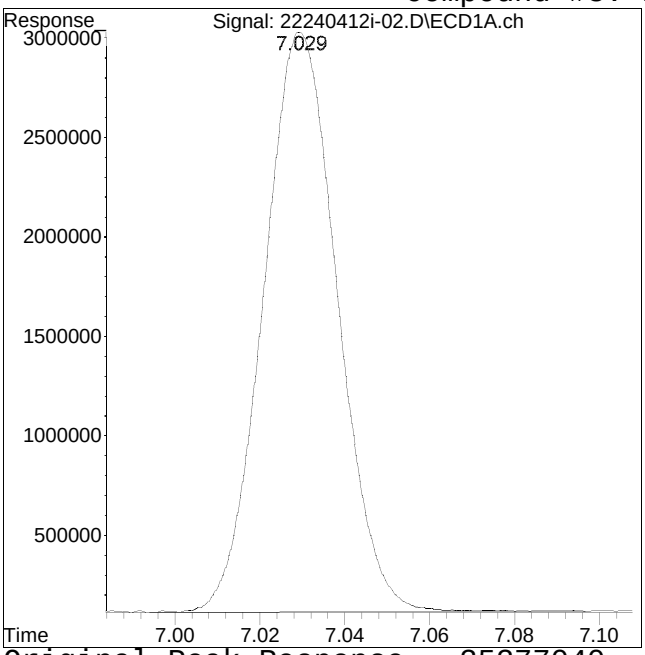
Manual Peak Response = 24425609 M4

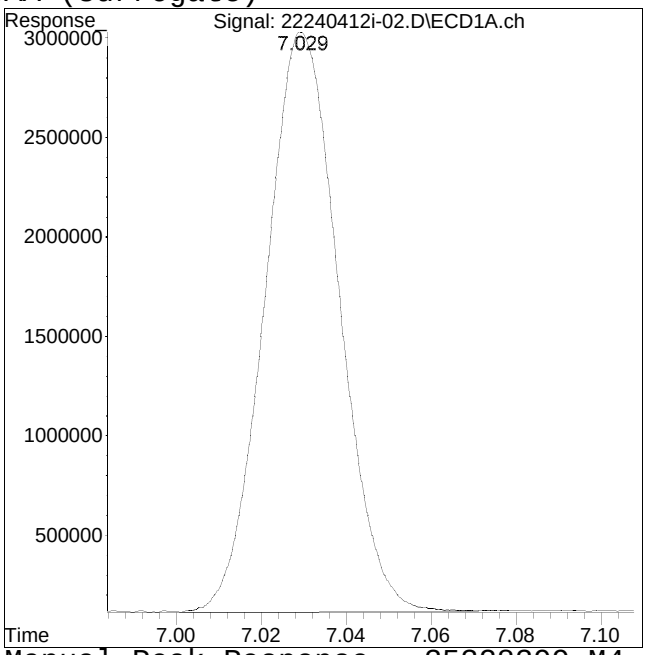
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #3: DCAA (surrogate)



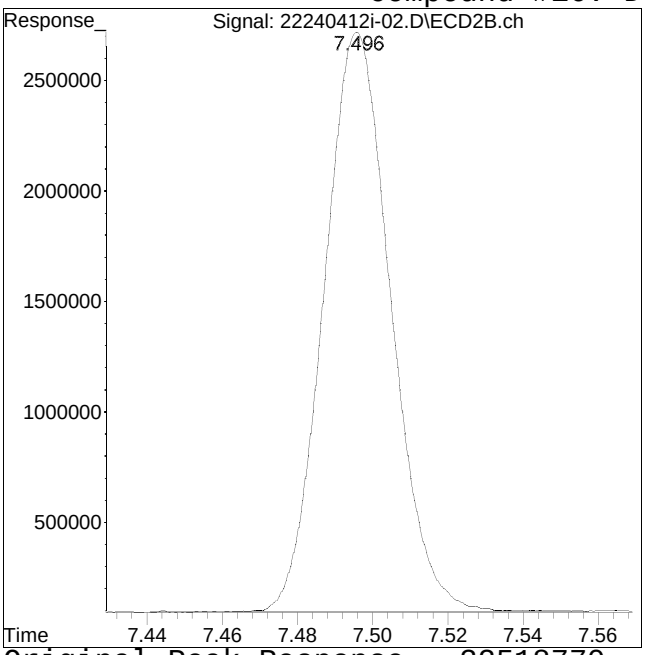


Original Peak Response = 35377040 Manual Peak Response = 35328399 M4
M4 = Poor automated baseline construction.

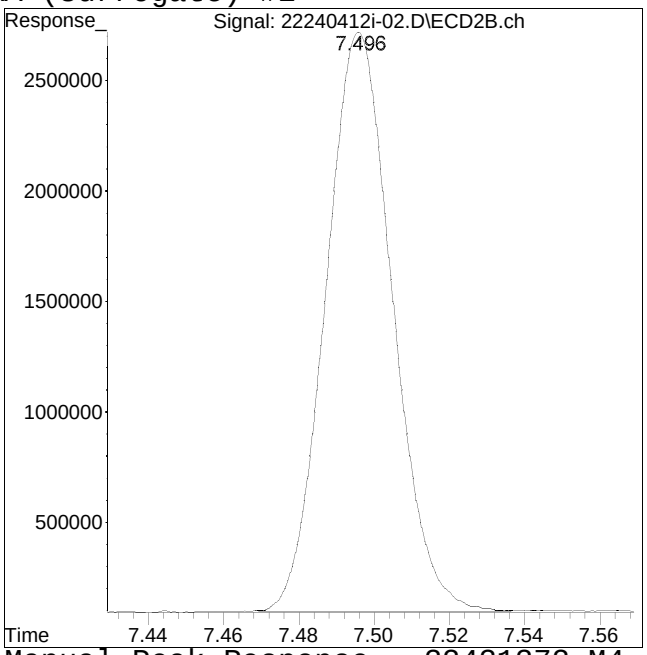
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 32518770

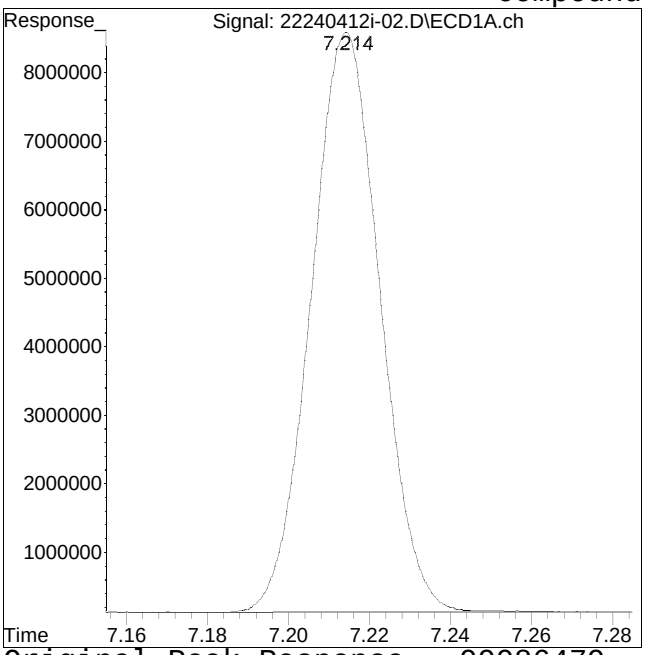


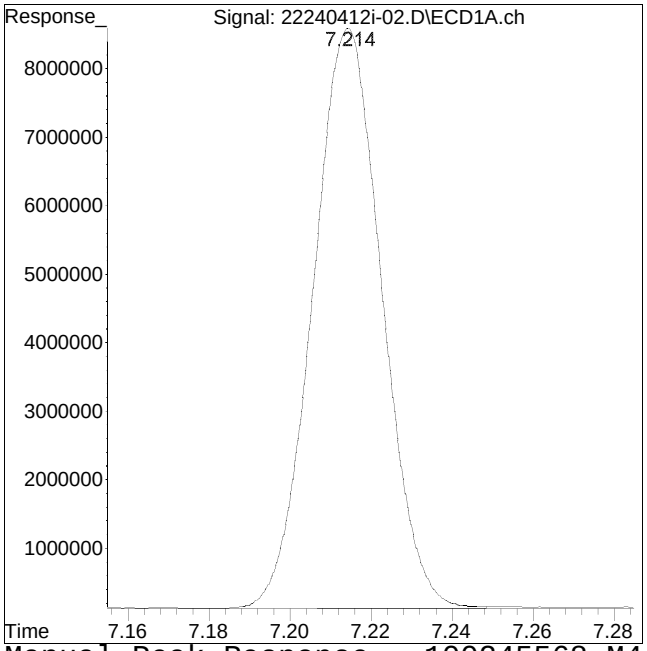
Manual Peak Response = 32431372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #4: Dicamba



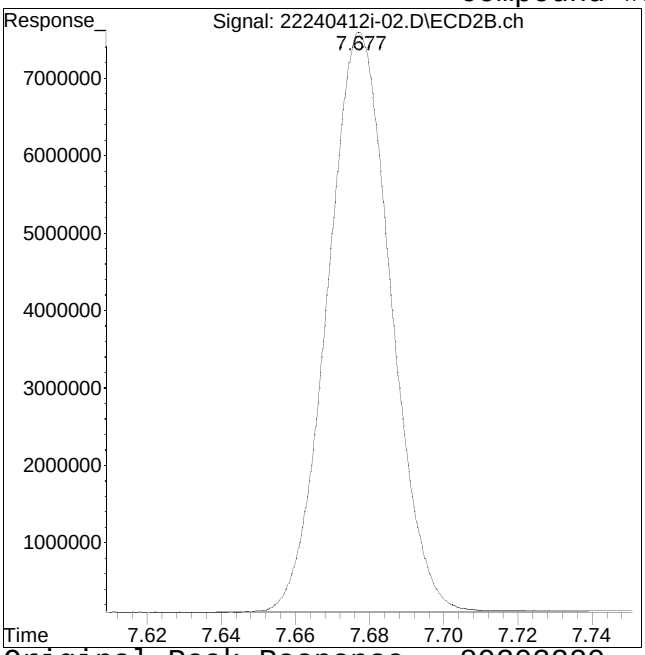


Original Peak Response = 99986479 Manual Peak Response = 100245568 M4
M4 = Poor automated baseline construction.

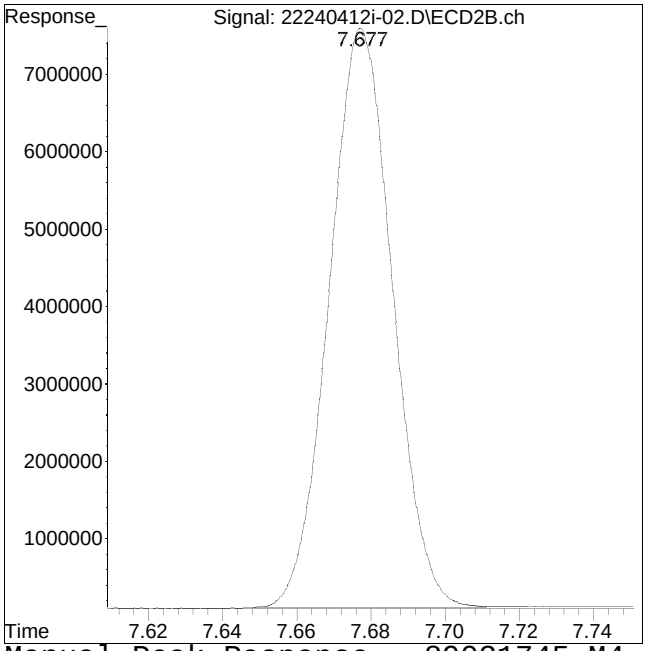
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #17: Dicamba #2



Original Peak Response = 89303220



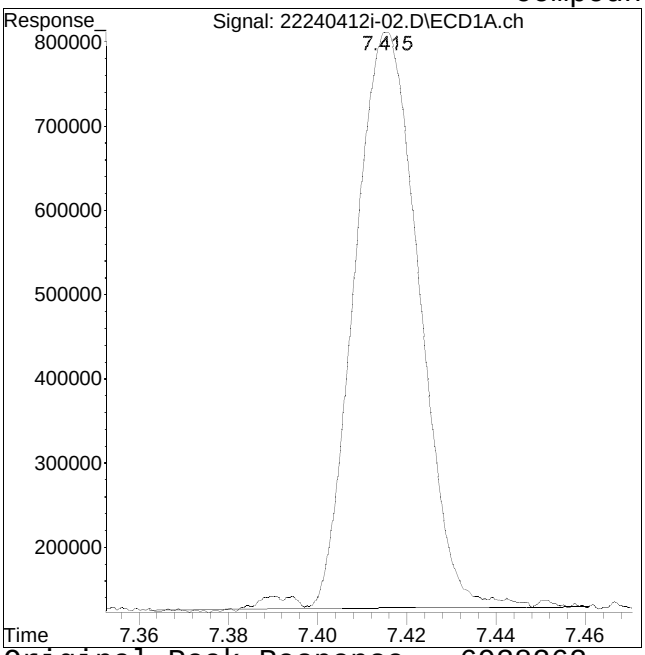
Manual Peak Response = 89031745 M4

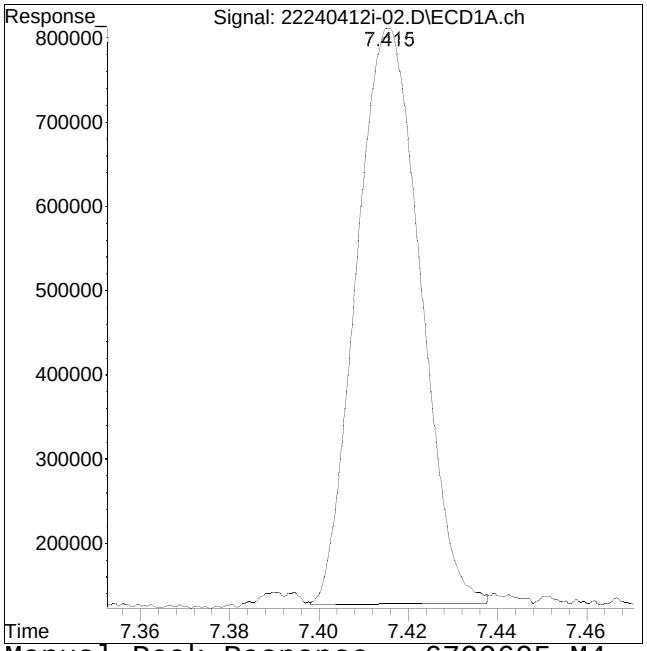
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #5: MCPP



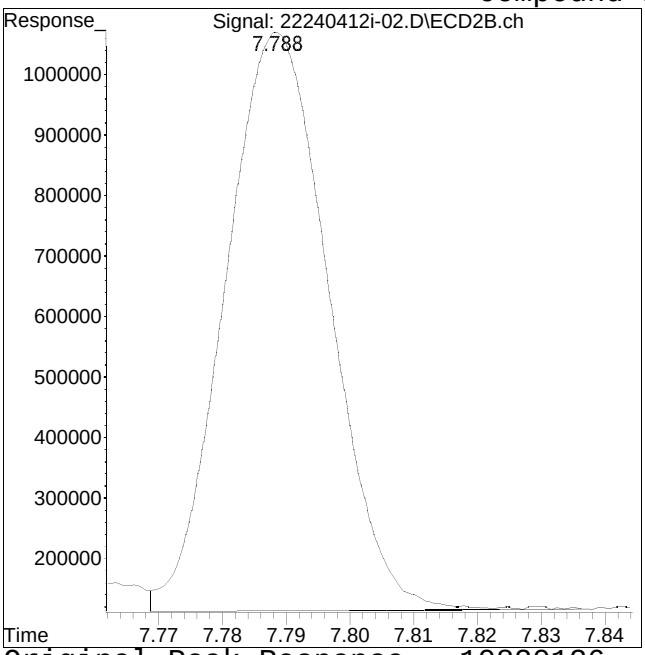


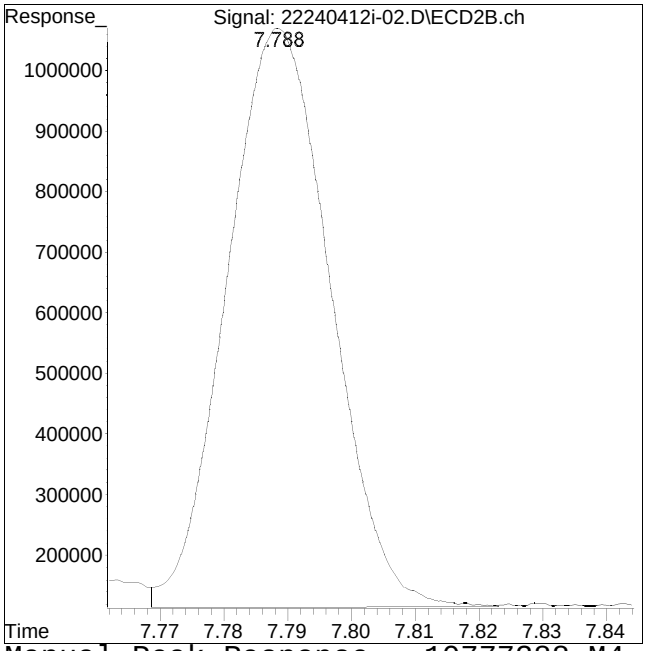
Original Peak Response = 6938262 Manual Peak Response = 6799605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #18: MCPP #2



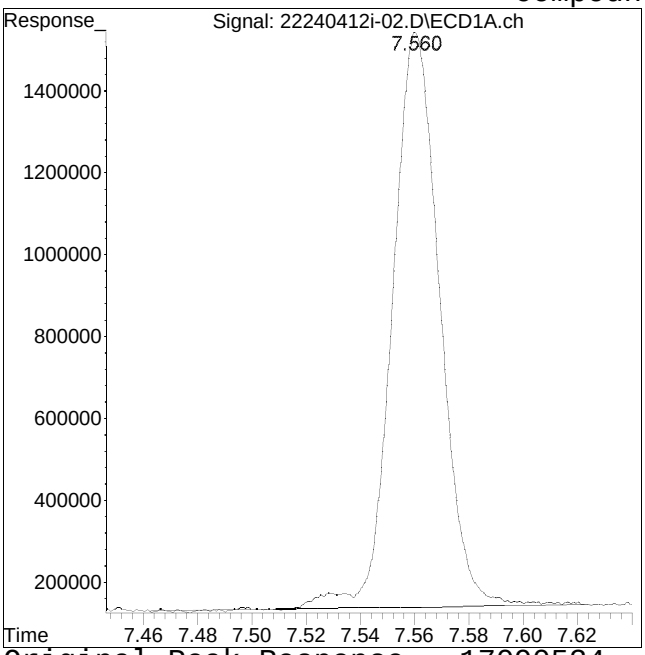


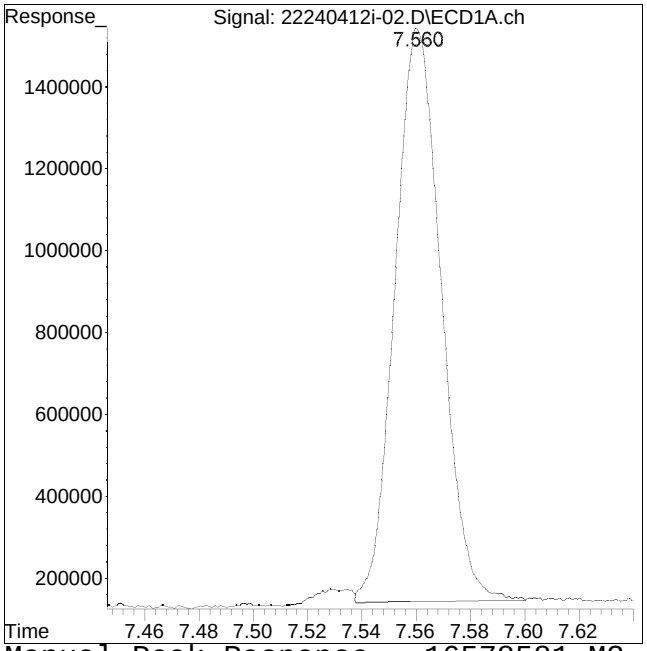
Original Peak Response = 10820126 Manual Peak Response = 10777388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #6: MCPA



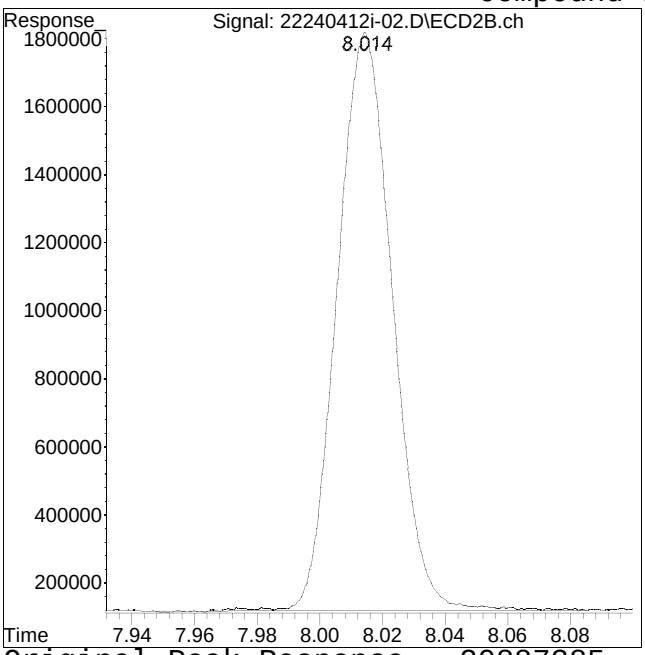


Original Peak Response = 17090534 Manual Peak Response = 16578581 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

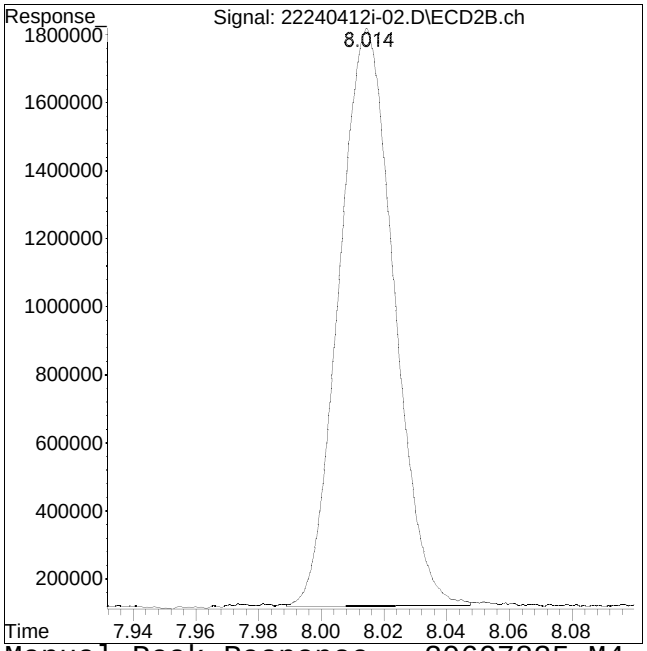
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #19: MCPA #2



Original Peak Response = 20887385



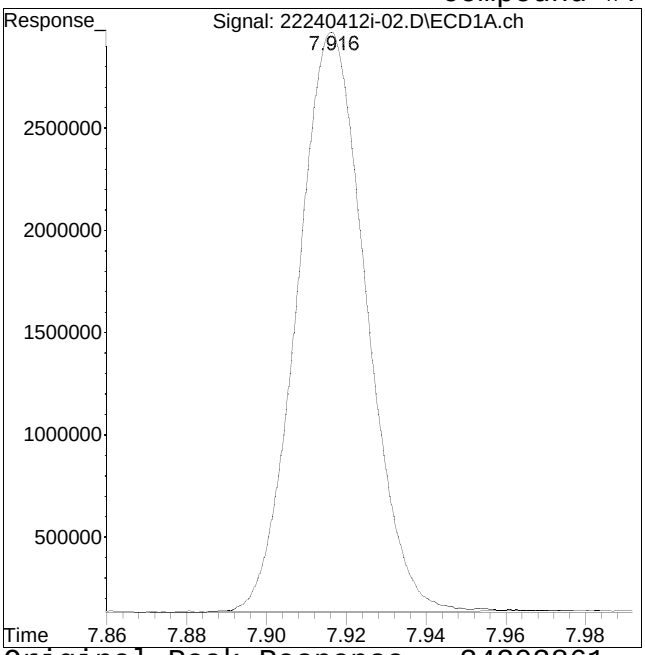
Manual Peak Response = 20607835 M4

M4 = Poor automated baseline construction.

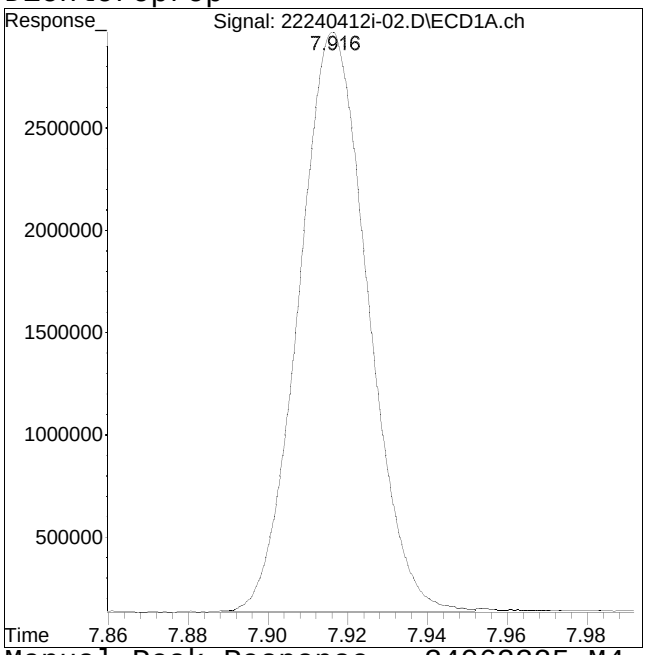
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #7: Dichloroprop



Original Peak Response = 34203861



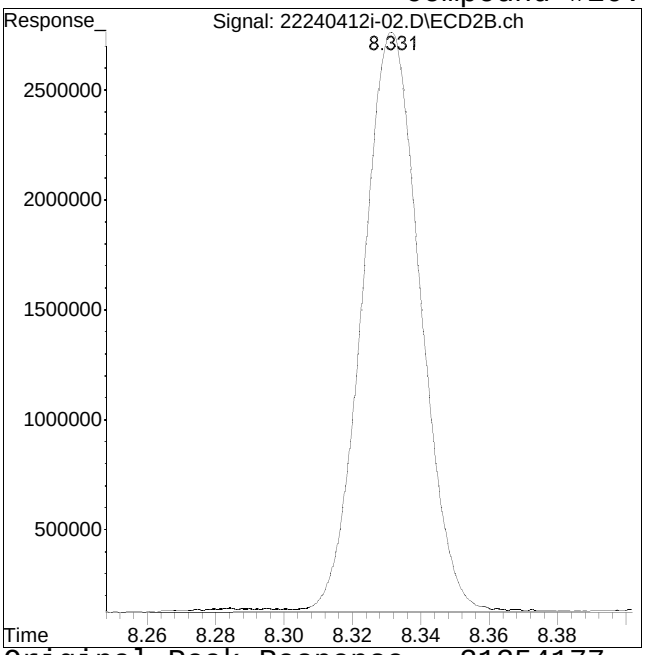
Manual Peak Response = 34063325 M4

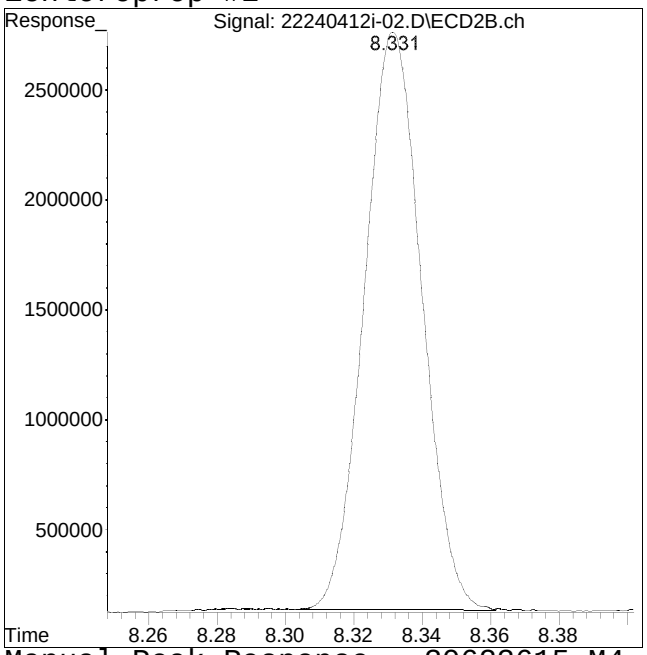
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #20: Dichloroprop #2



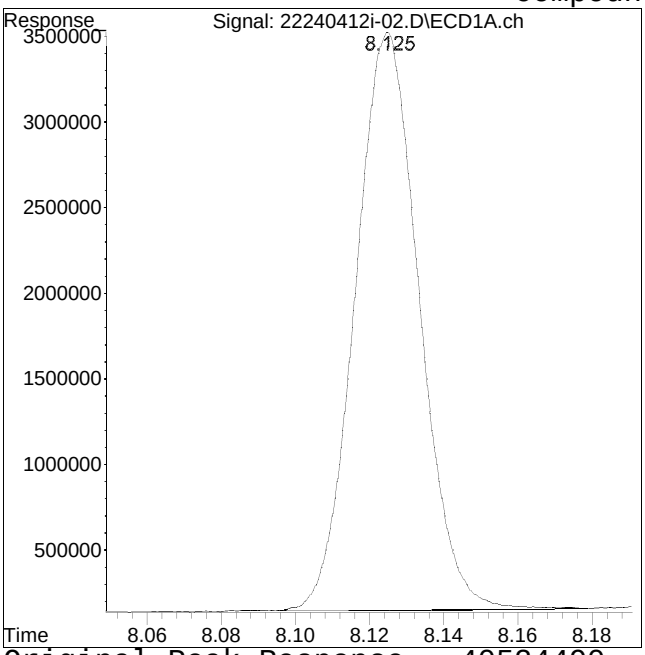


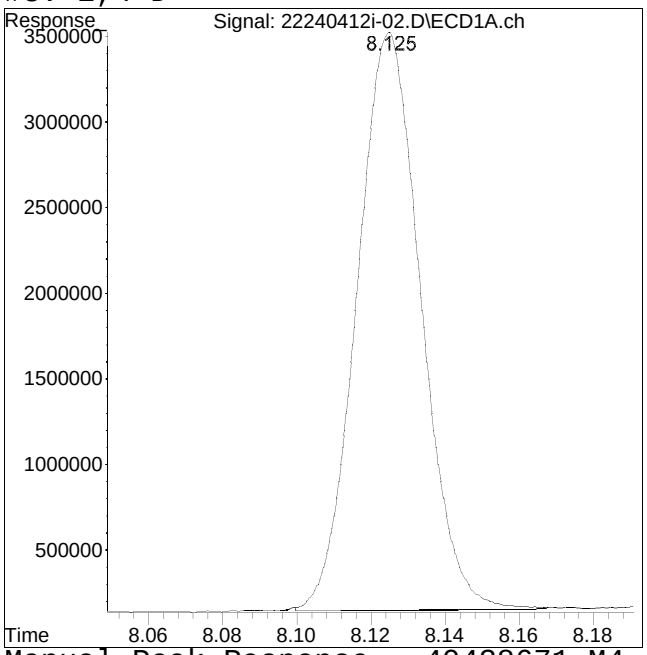
Original Peak Response = 31354177 Manual Peak Response = 30623615 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #8: 2,4-D



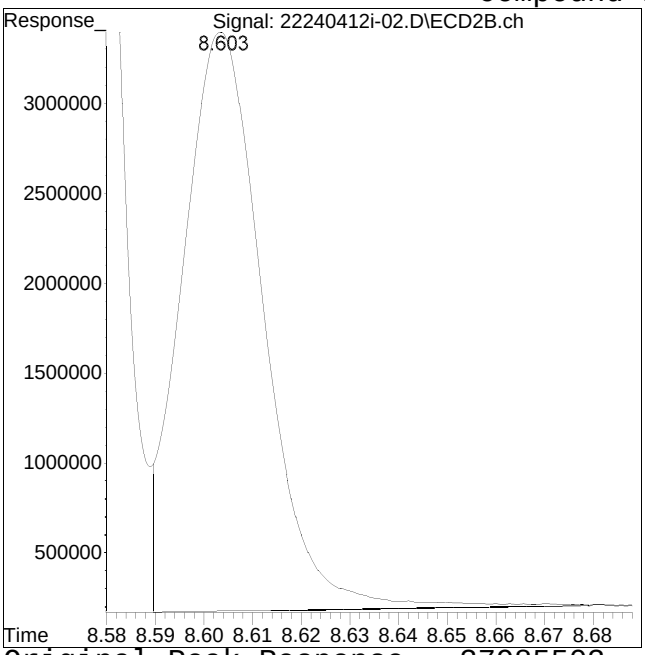


Original Peak Response = 40524490 Manual Peak Response = 40438671 M4
M4 = Poor automated baseline construction.

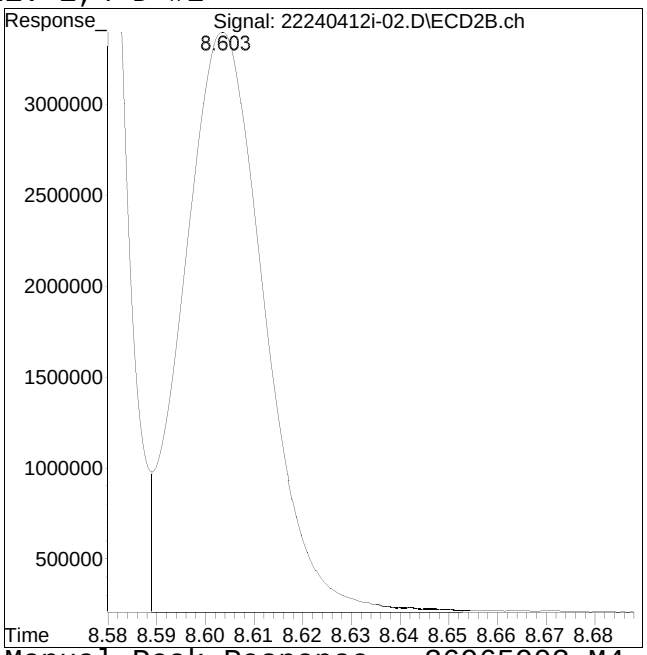
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #21: 2,4-D #2



Original Peak Response = 37985503



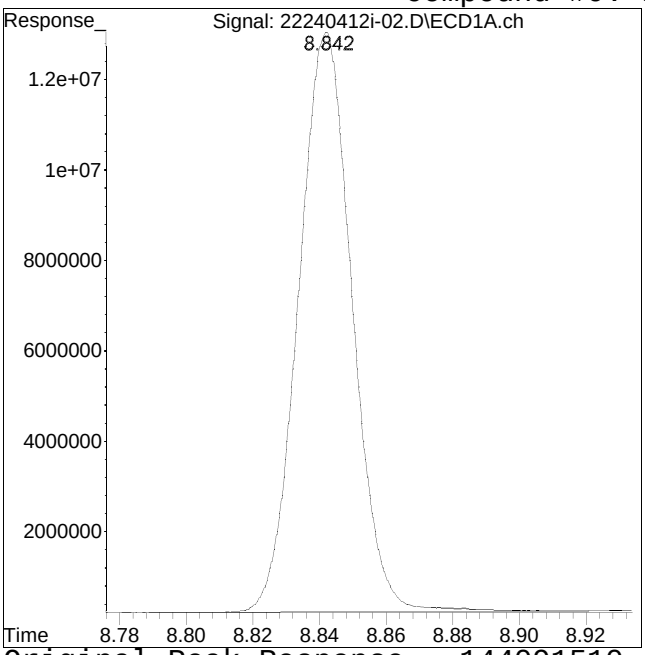
Manual Peak Response = 36965903 M4

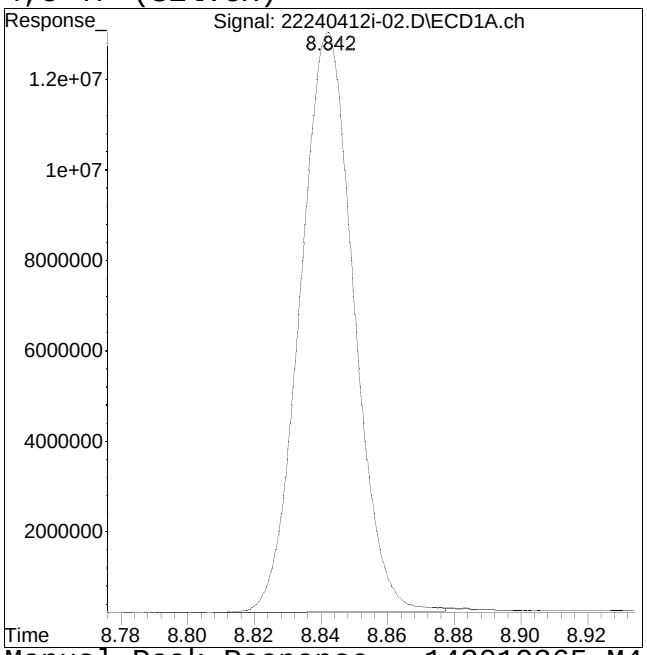
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #9: 2,4,5-TP (Silvex)



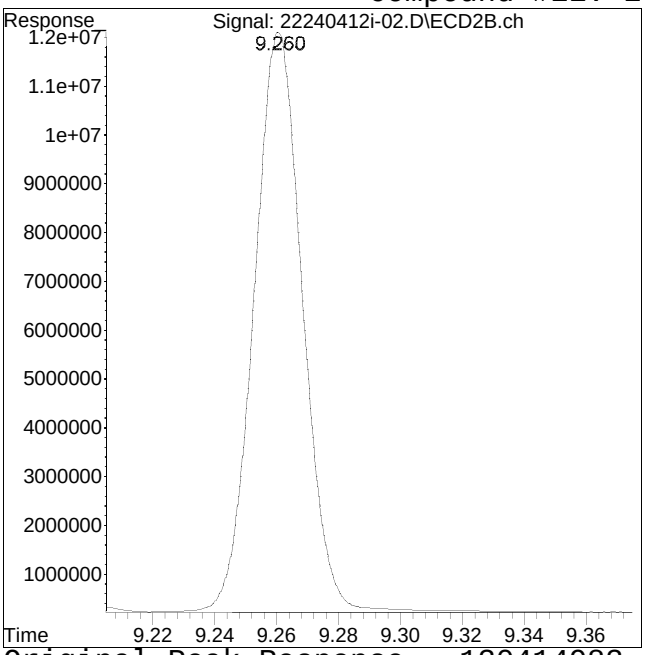


Original Peak Response = 144091510 Manual Peak Response = 143010365 M4
M4 = Poor automated baseline construction.

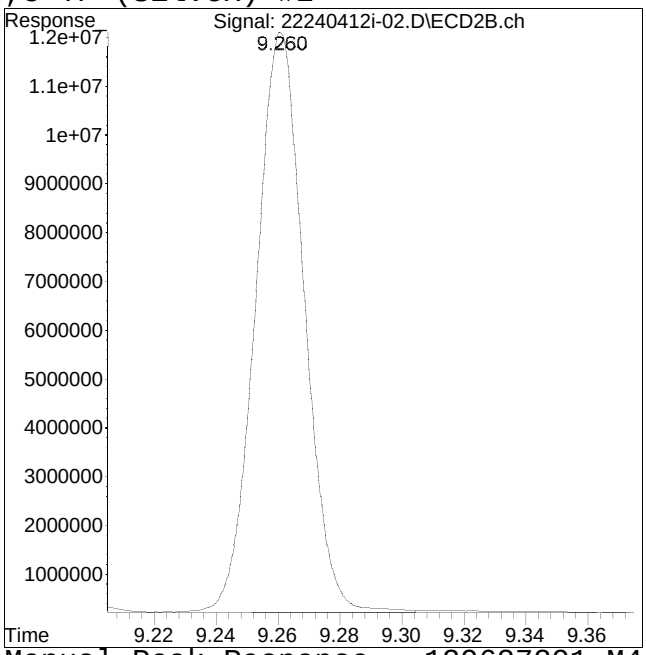
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 130414983



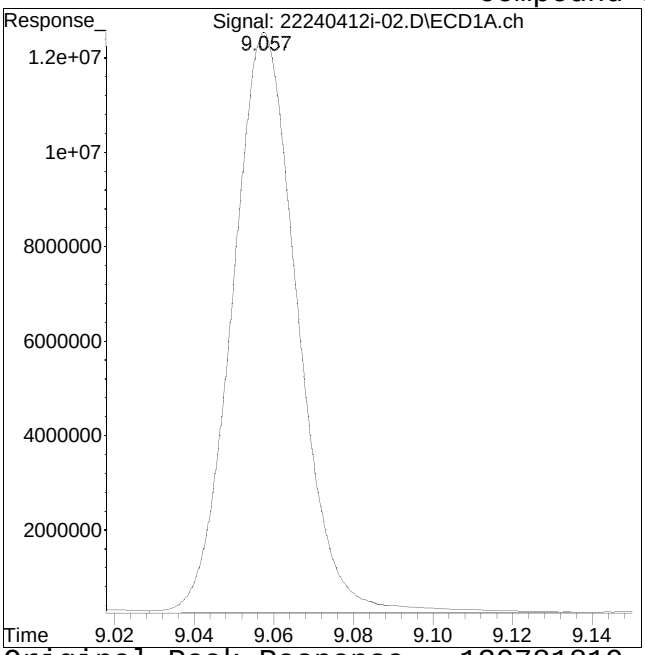
Manual Peak Response = 129627291 M4

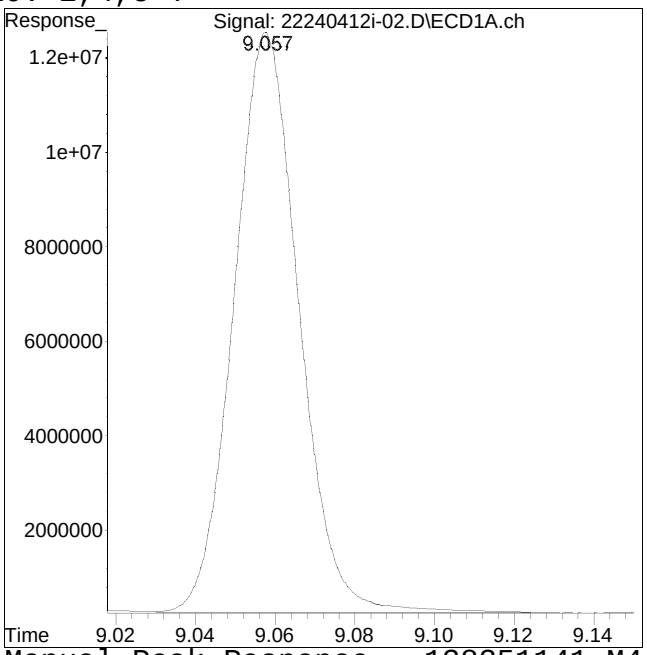
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #10: 2,4,5-T



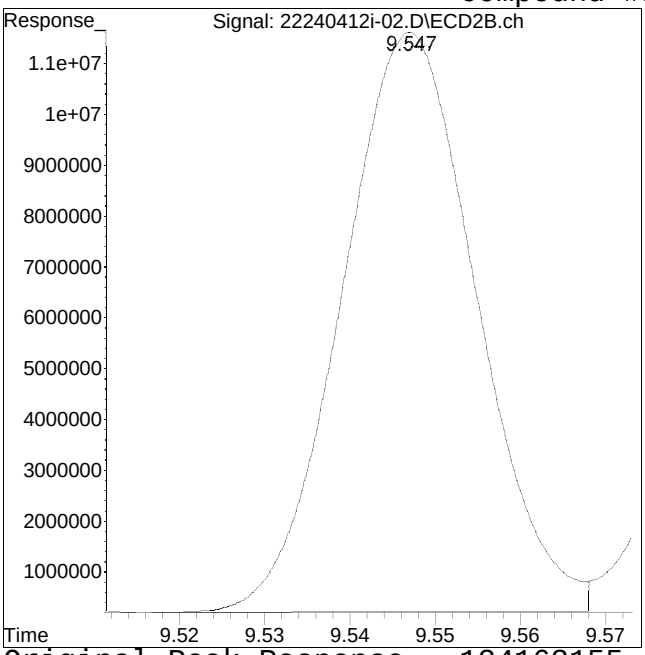


Original Peak Response = 139781819 Manual Peak Response = 138351141 M4
M4 = Poor automated baseline construction.

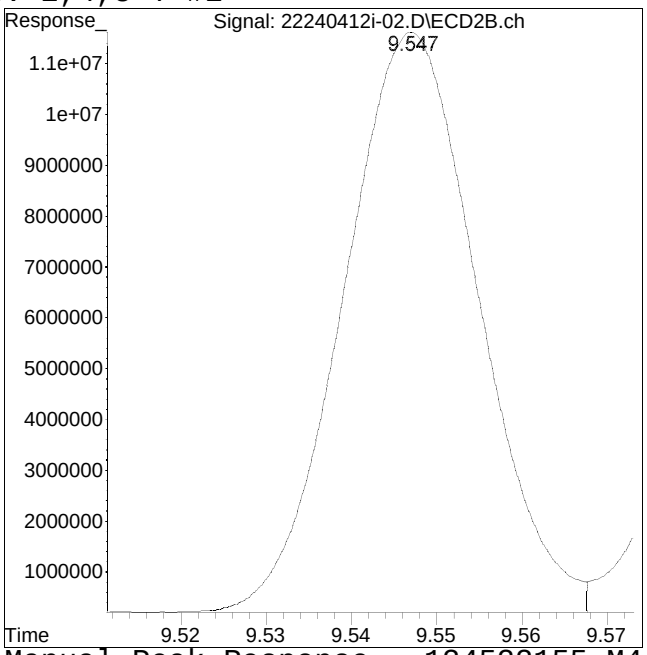
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #23: 2,4,5-T #2



Original Peak Response = 124163155

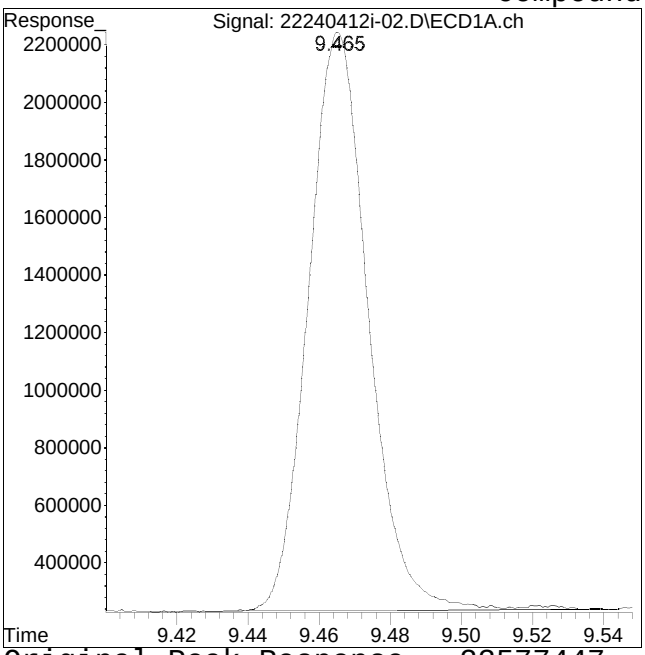


Manual Peak Response = 124522155 M4
M4 = Poor automated baseline construction.

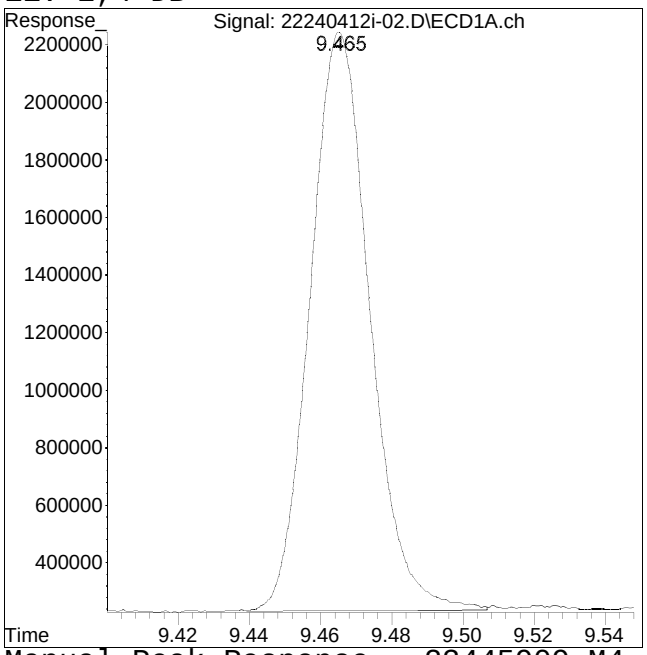
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #11: 2,4-DB



Original Peak Response = 23577447



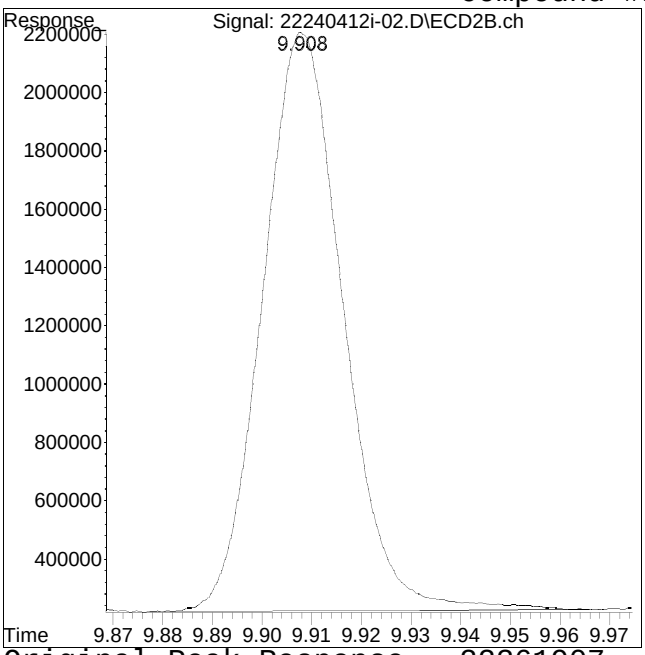
Manual Peak Response = 23445909 M4

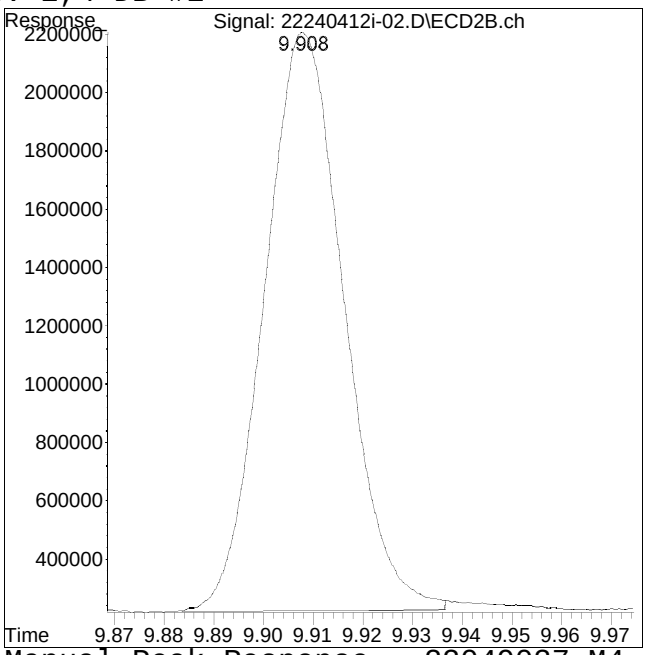
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #24: 2,4-DB #2



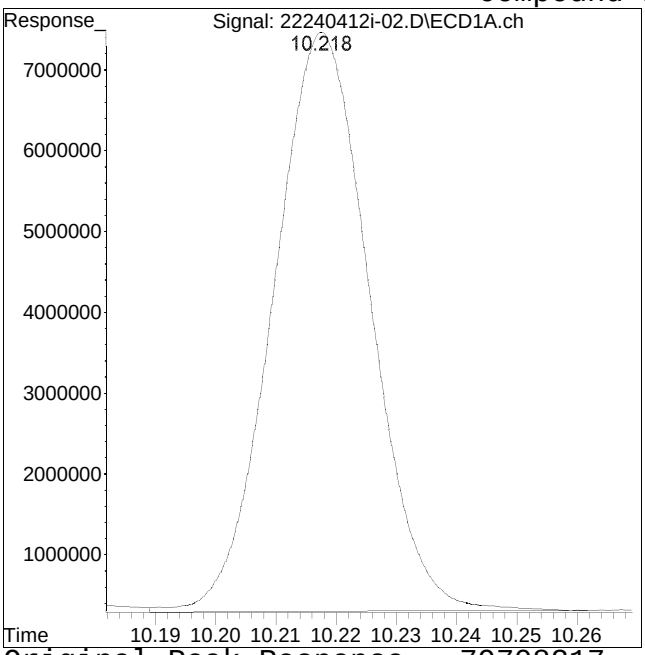


Original Peak Response = 22361907 Manual Peak Response = 22049037 M4
M4 = Poor automated baseline construction.

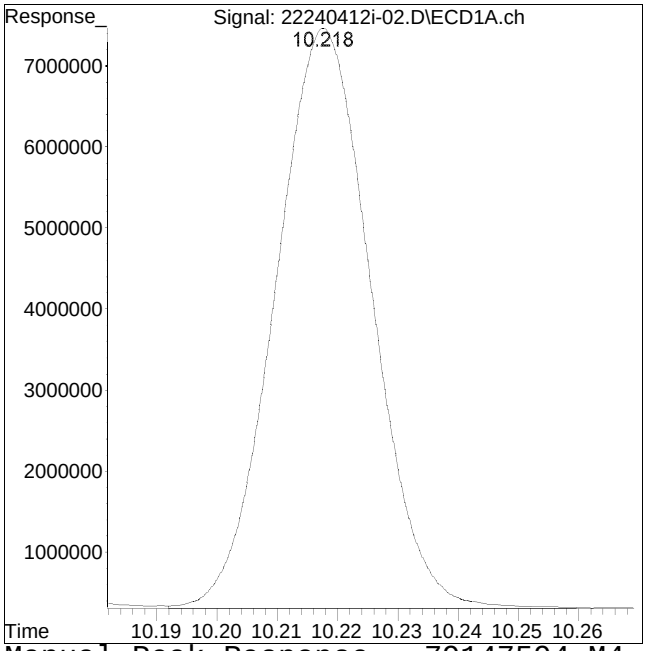
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #12: Dinoseb



Original Peak Response = 79708217



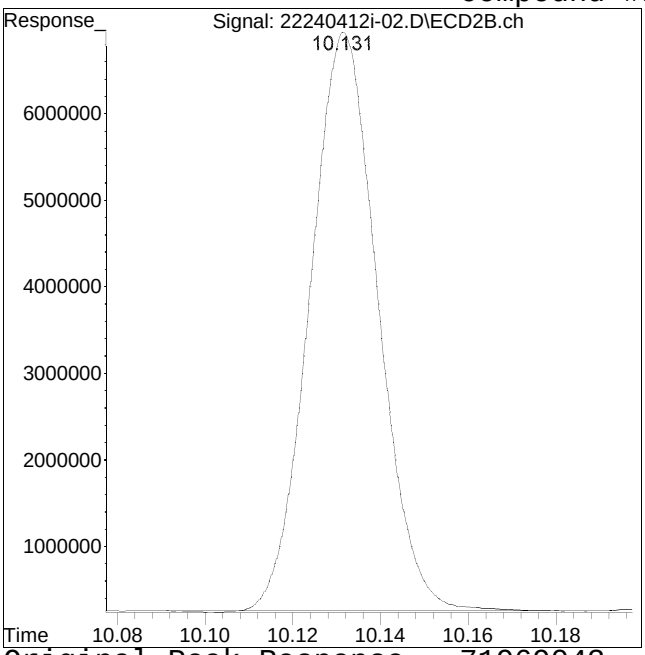
Manual Peak Response = 79147594 M4

M4 = Poor automated baseline construction.

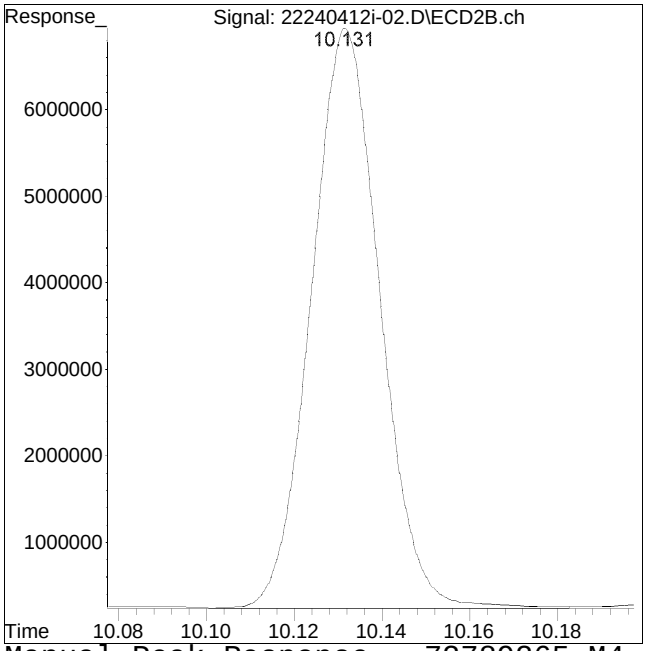
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #25: Dinoseb #2



Original Peak Response = 71969043



Manual Peak Response = 72789265 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	766.6E6	713.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	65965180	60068272	0.114M4	0.113M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	22.80%#	22.60%#
		Target Compounds						
2)	t	Dalapon	2.424	2.420	63862421	54348641	0.102M4	0.097M3
4)	t	Dicamba	7.213	7.677	190.1E6	170.6E6	0.114M4	0.106M4
5)	t	MCPP	7.414	7.788	14933212	20689286	9.144M4	10.250M4
6)	t	MCPA	7.559	8.013	30631672	36896219	11.261M4	11.563M4
7)	t	Dichloroprop	7.915	8.330	63381649	57364341	0.118M4	0.114M4
8)	t	2,4-D	8.123	8.602	77300208	68835400	0.114M4	0.109M4
9)	t	2,4,5-TP (Si	8.840	9.260	278.1E6	251.0E6	0.111M3	0.109M4
10)	t	2,4,5-T	9.056	9.546	271.4E6	240.4E6	0.110M4	0.106
11)	t	2,4-DB	9.463	9.907	43677635	41468808	0.118M4	0.110M4
12)	t	Dinoseb	10.216	10.131	155.1E6	140.9E6	0.108M4	0.105

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

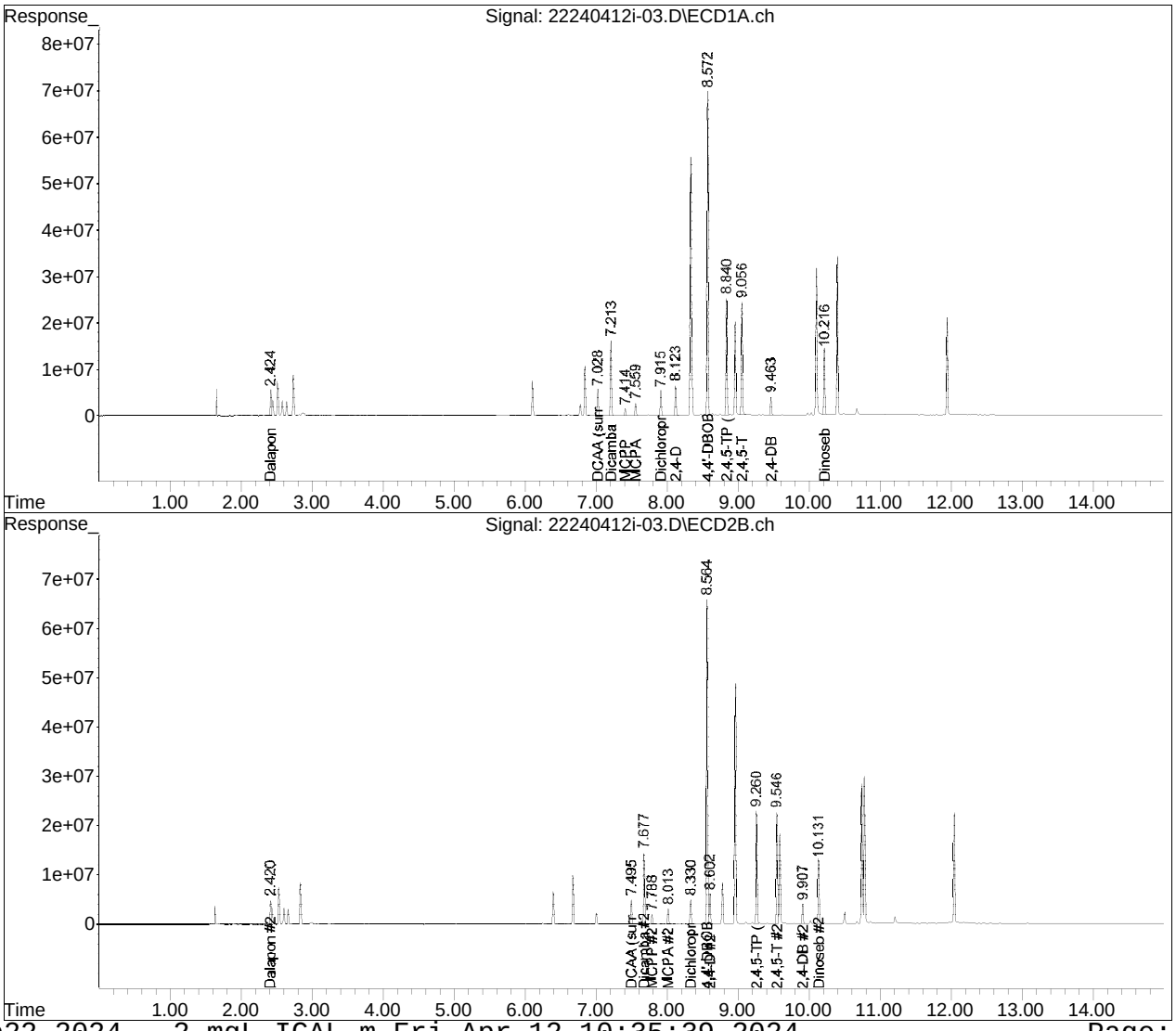
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

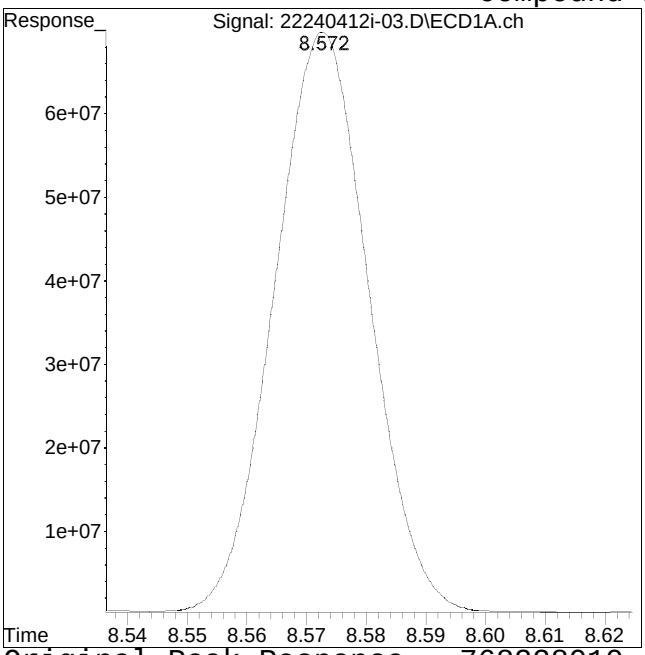
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

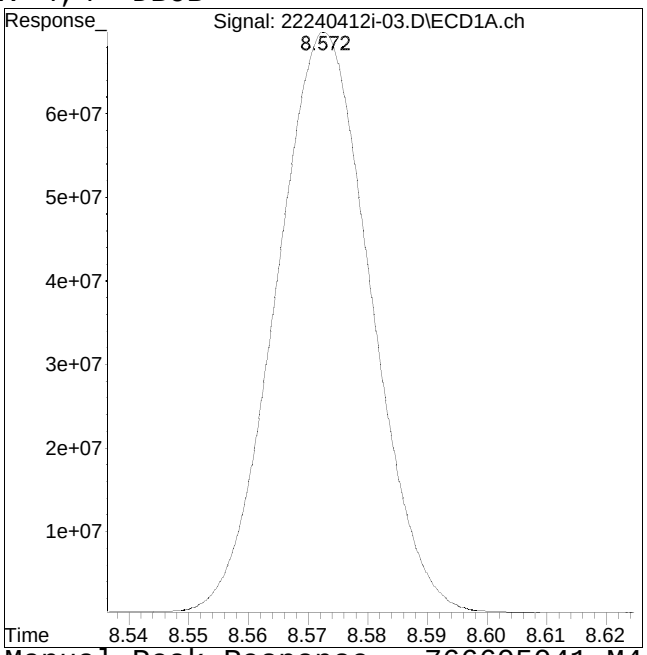


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #1: 4,4'-DBOB



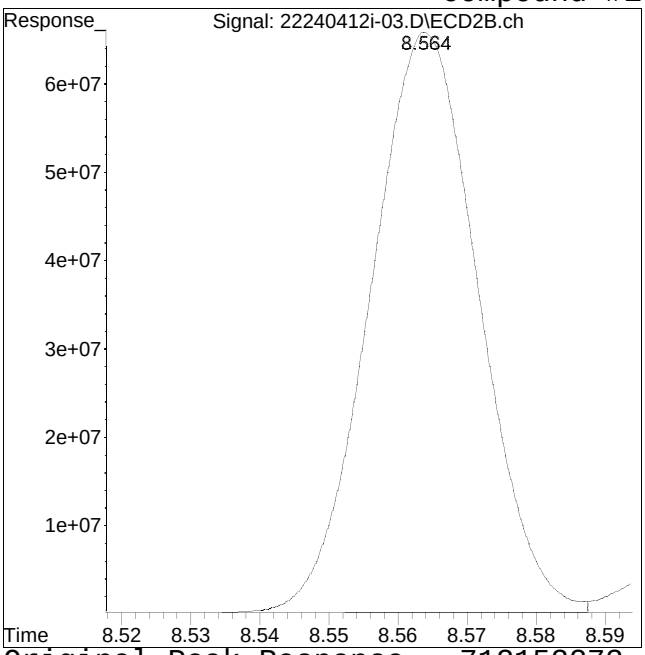


Original Peak Response = 768228910 Manual Peak Response = 766605041 M4
M4 = Poor automated baseline construction.

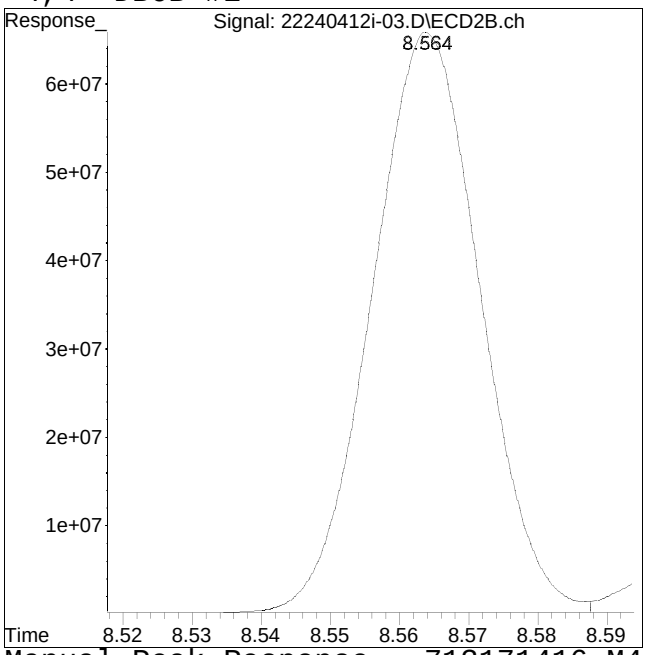
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 712152273

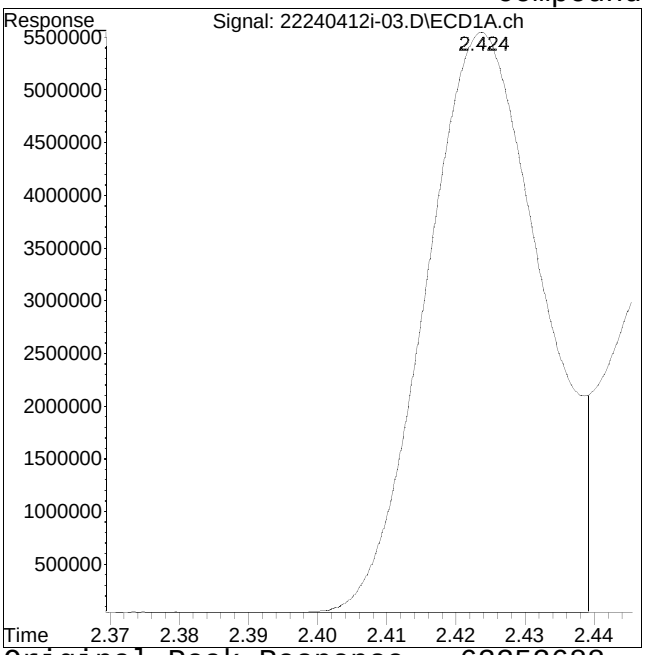


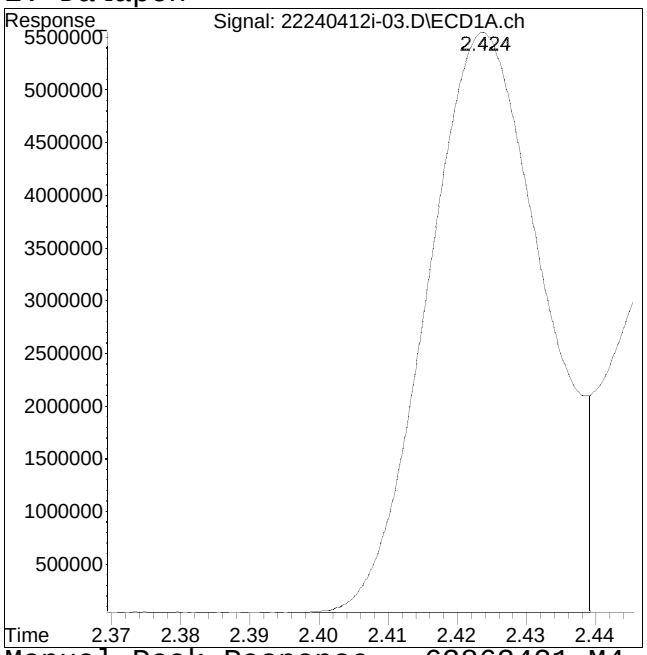
Manual Peak Response = 713171416 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #2: Dalapon



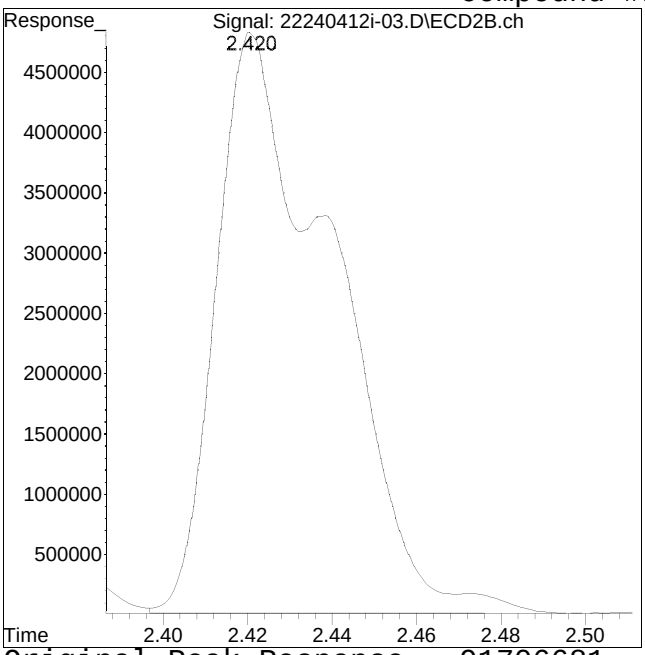


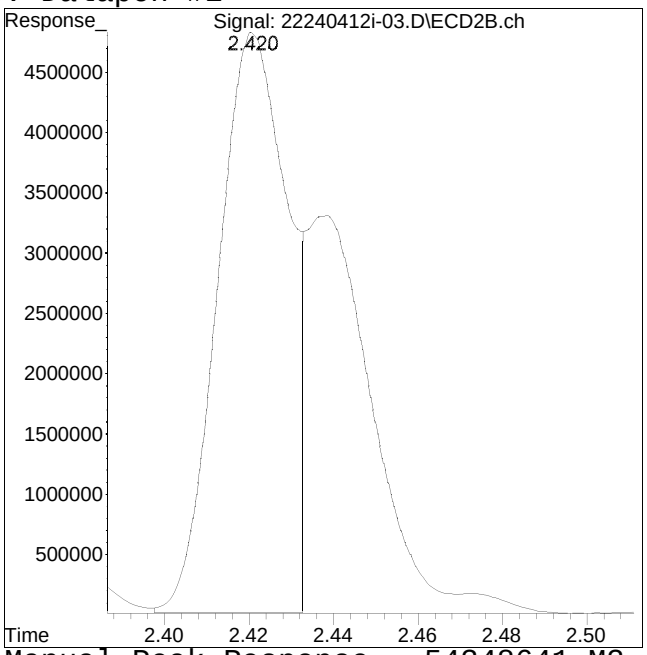
Original Peak Response = 63353688 Manual Peak Response = 63862421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #15: Dalapon #2



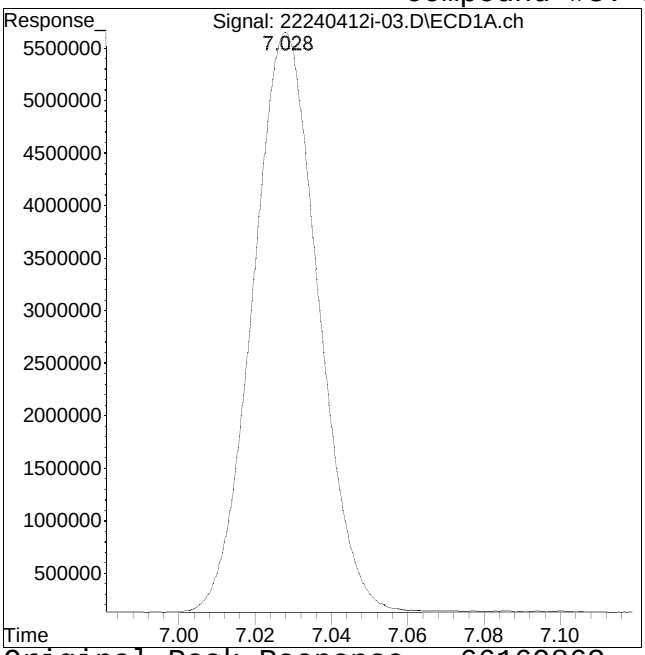


Original Peak Response = 91706681 Manual Peak Response = 54348641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

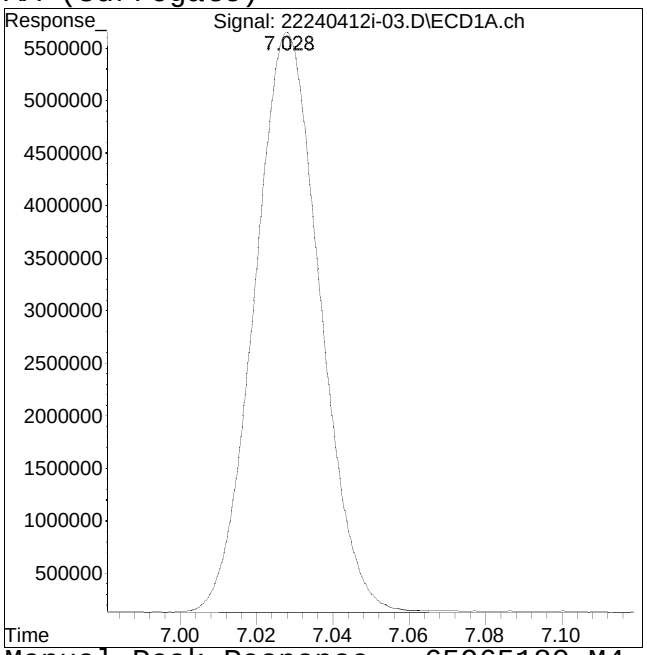
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #3: DCAA (surrogate)



Original Peak Response = 66169863

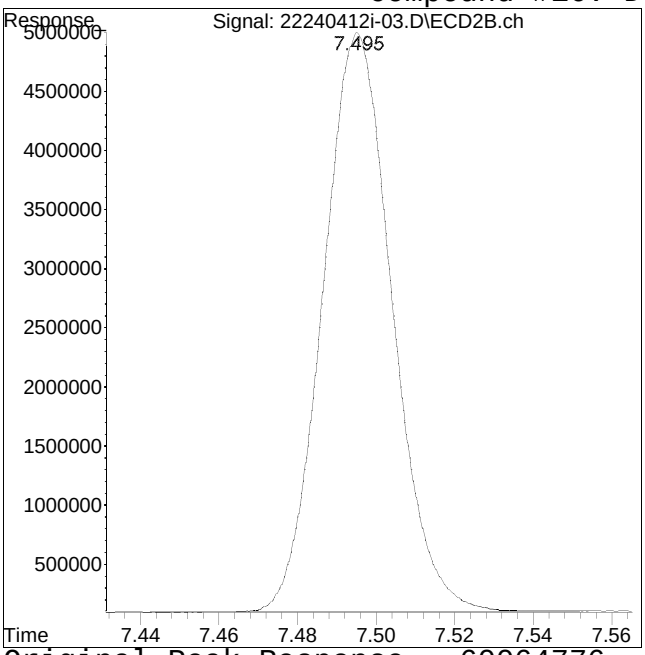


Manual Peak Response = 65965180 M4
M4 = Poor automated baseline construction.

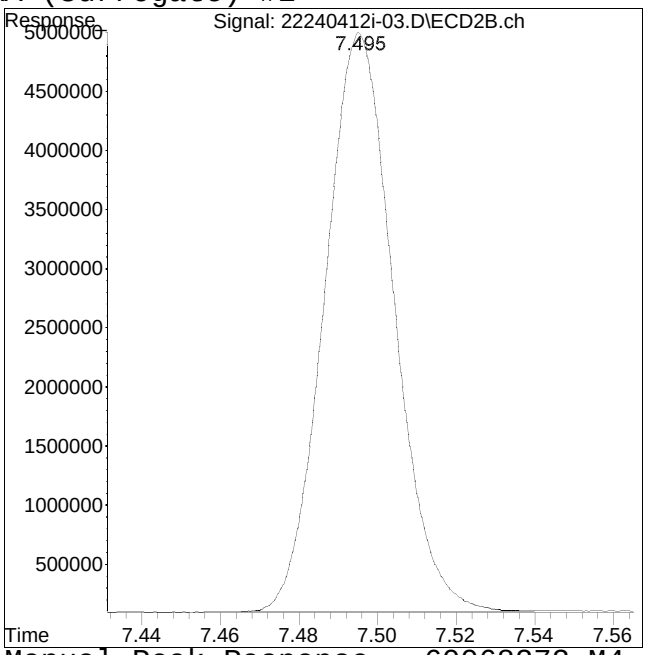
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 60064776



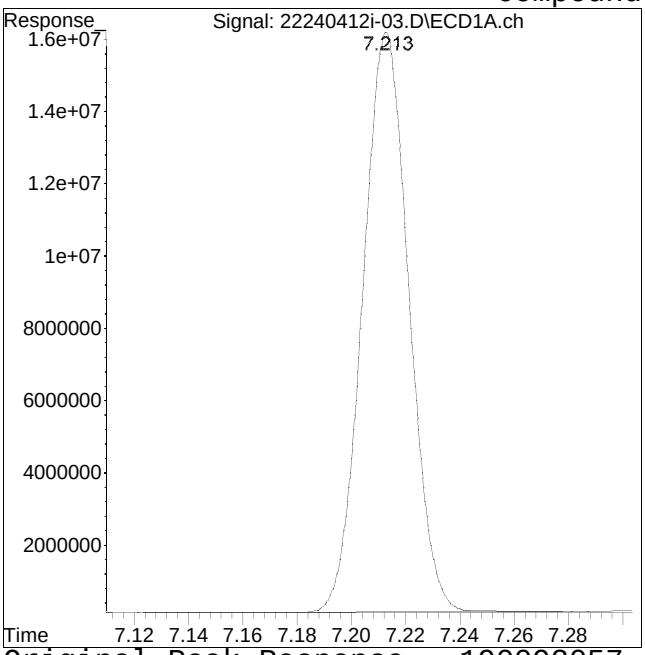
Manual Peak Response = 60068272 M4

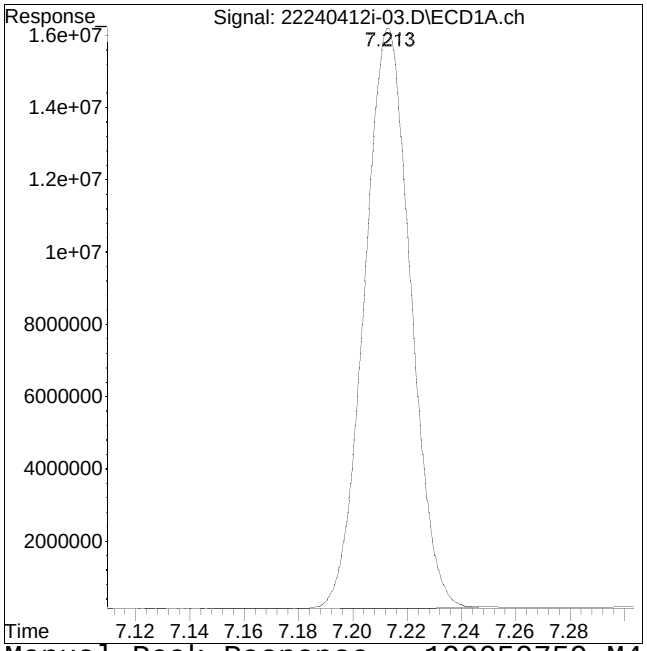
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #4: Dicamba



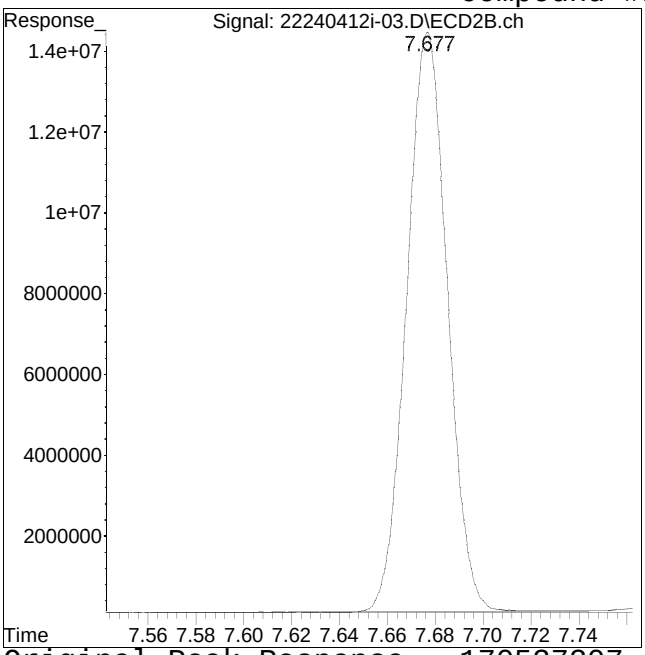


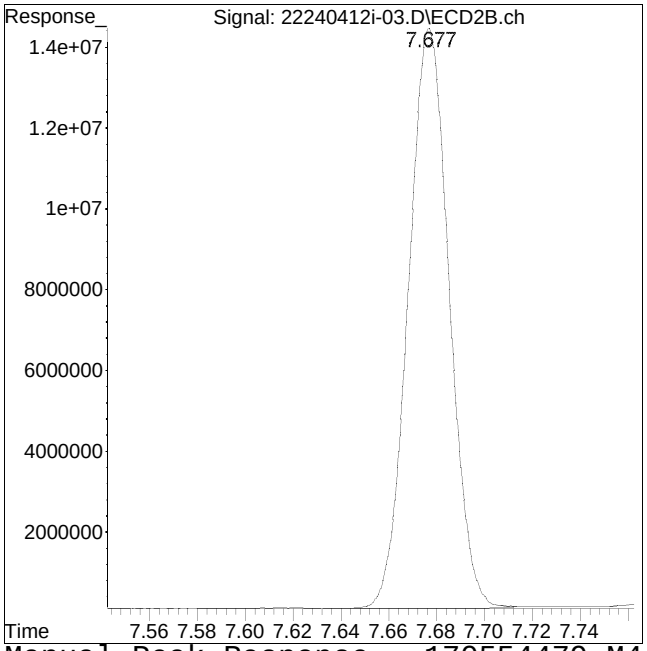
Original Peak Response = 190092057 Manual Peak Response = 190050759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #17: Dicamba #2



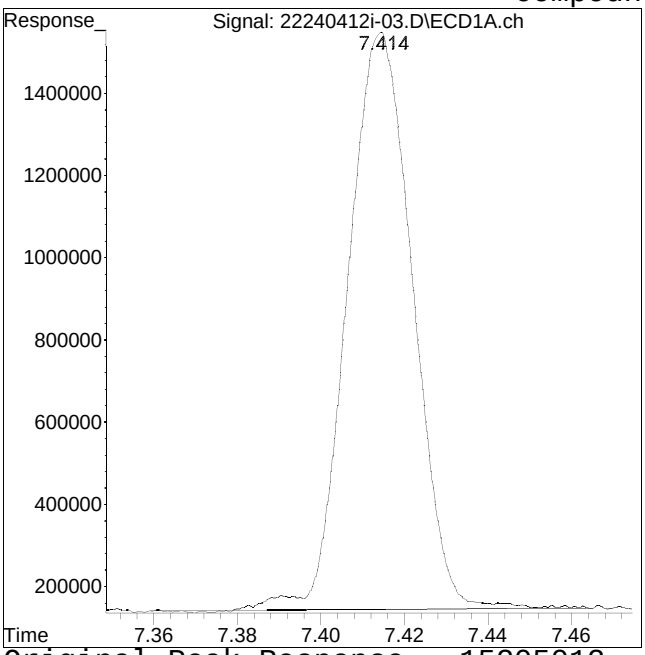


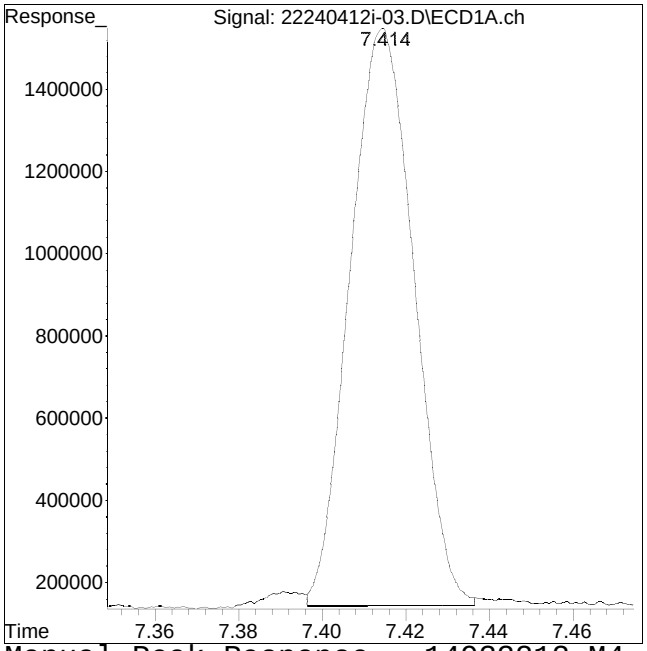
Original Peak Response = 170537307 Manual Peak Response = 170554479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #5: MCPP



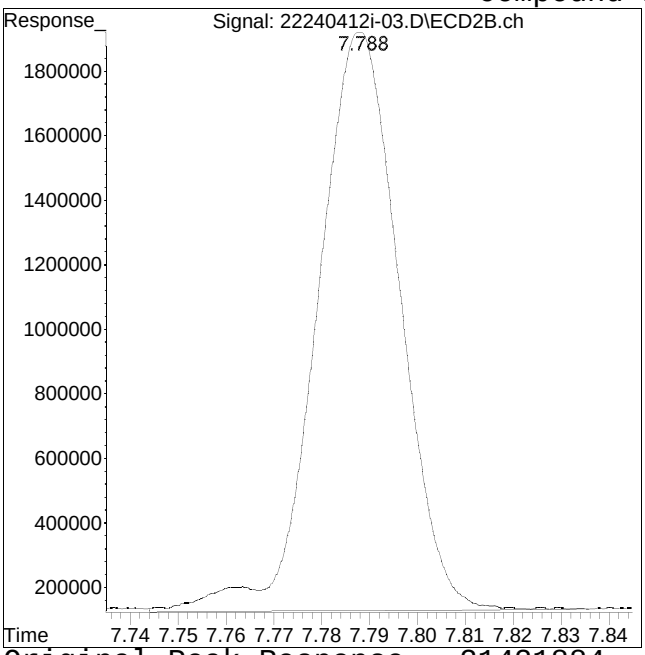


Original Peak Response = 15205012 Manual Peak Response = 14933212 M4
M4 = Poor automated baseline construction.

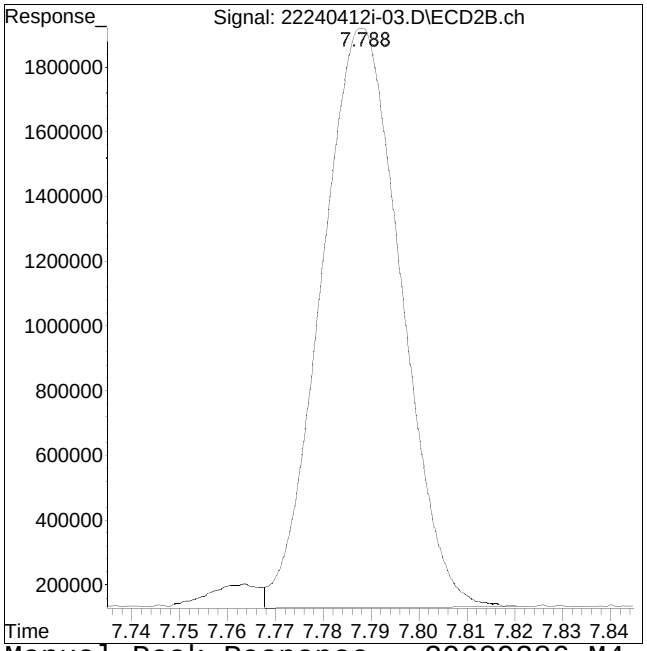
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #18: MCPP #2



Original Peak Response = 21421884



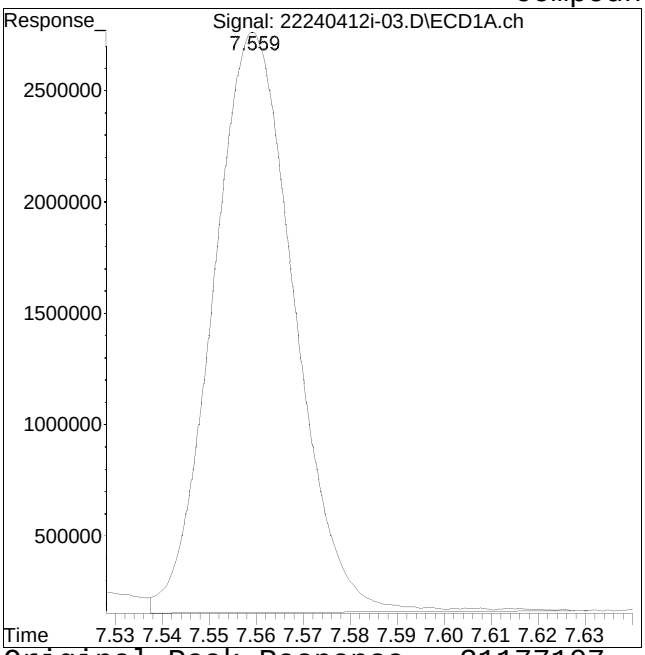
Manual Peak Response = 20689286 M4

M4 = Poor automated baseline construction.

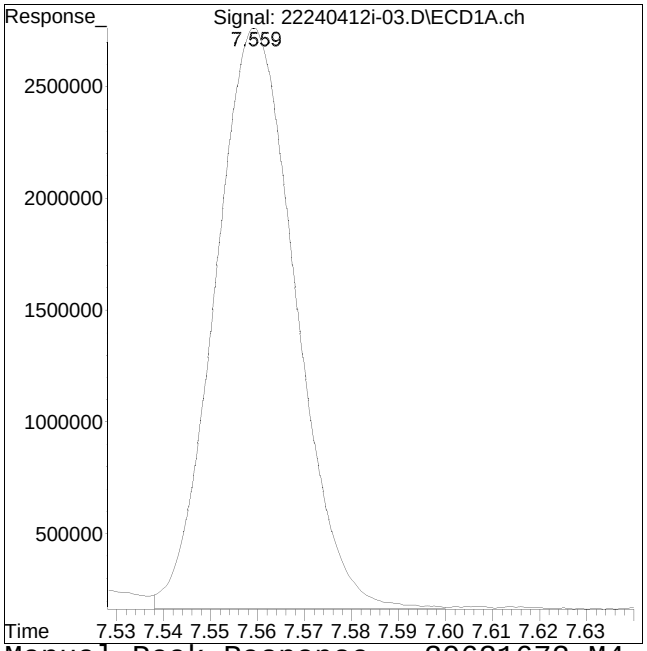
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #6: MCPA



Original Peak Response = 31177107



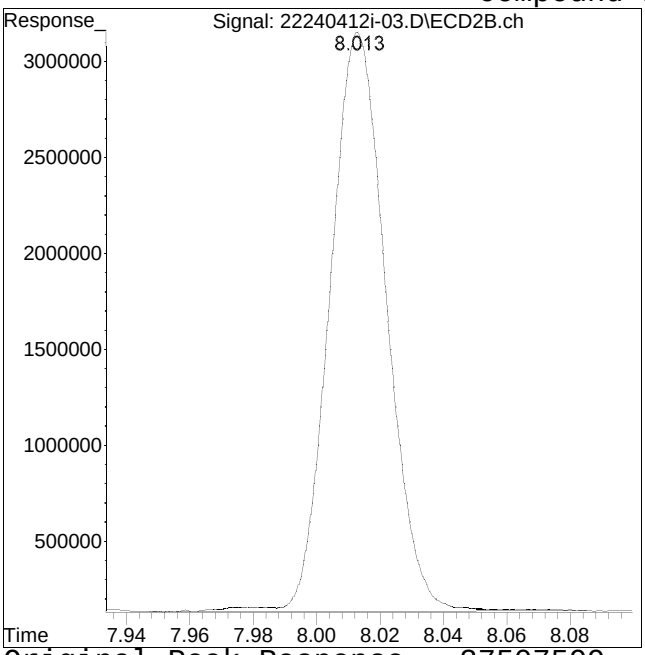
Manual Peak Response = 30631672 M4

M4 = Poor automated baseline construction.

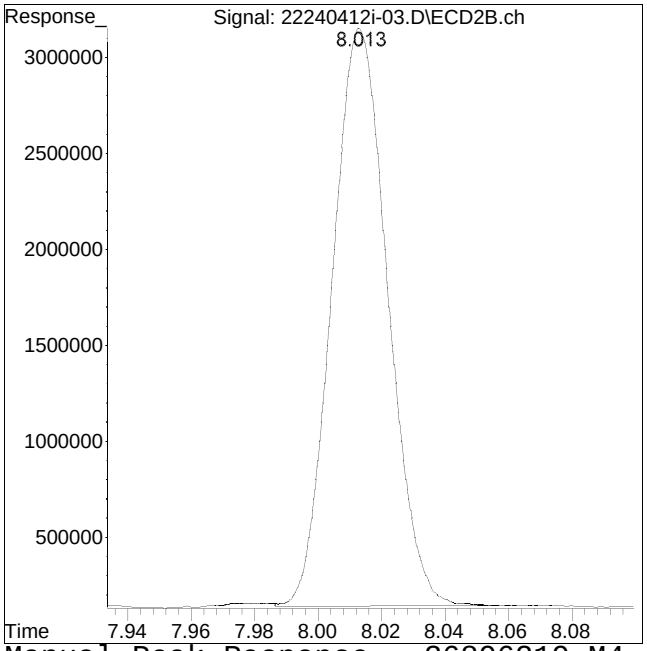
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #19: MCPA #2



Original Peak Response = 37507599



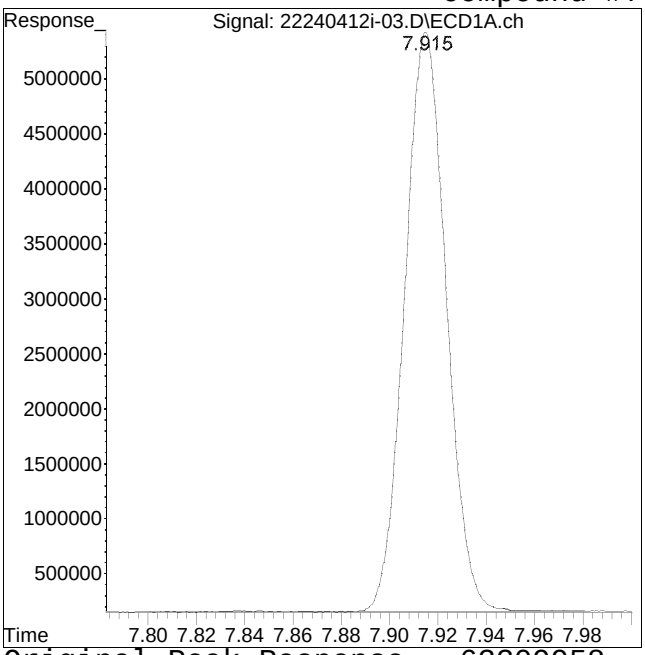
Manual Peak Response = 36896219 M4

M4 = Poor automated baseline construction.

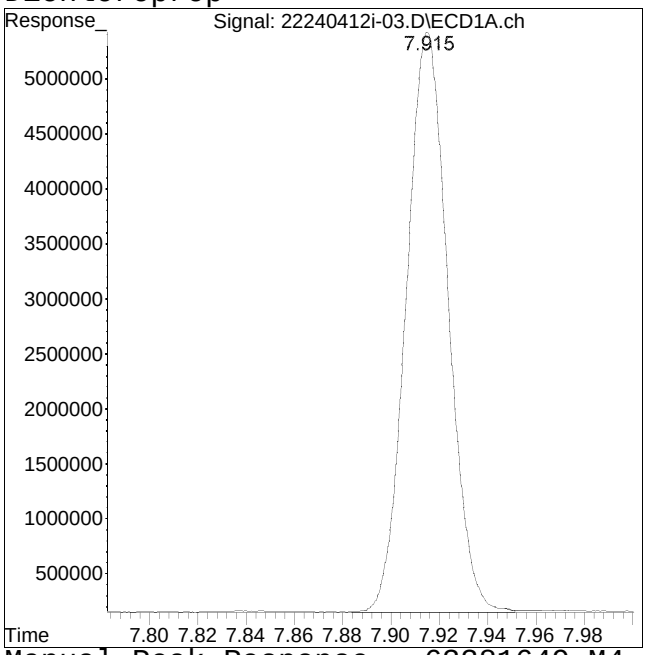
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #7: Dichloroprop



Original Peak Response = 63309958



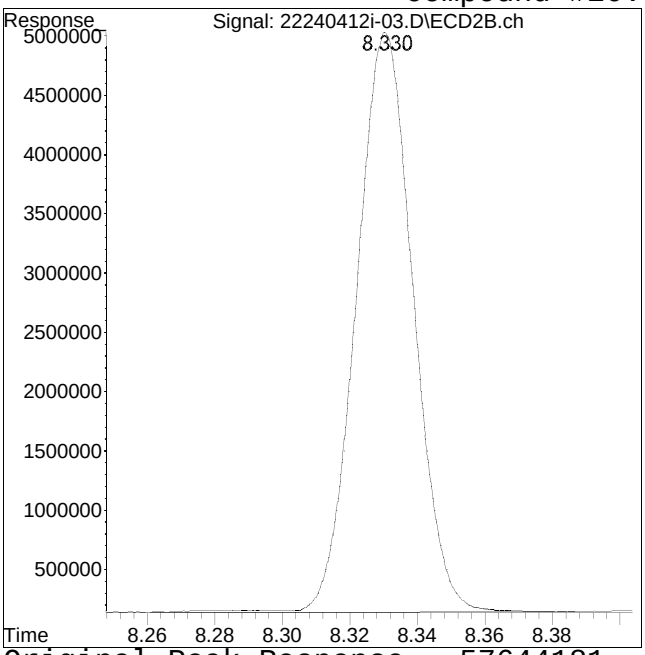
Manual Peak Response = 63381649 M4

M4 = Poor automated baseline construction.

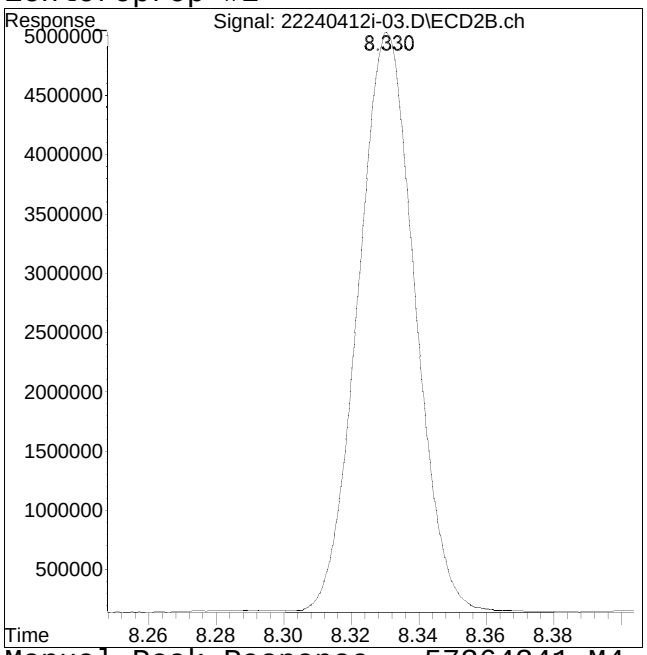
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #20: Dichloroprop #2



Original Peak Response = 57644181



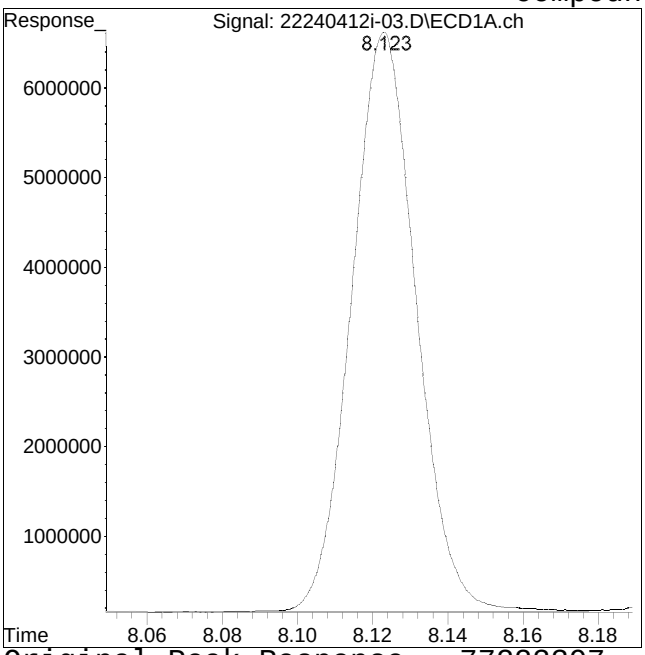
Manual Peak Response = 57364341 M4

M4 = Poor automated baseline construction.

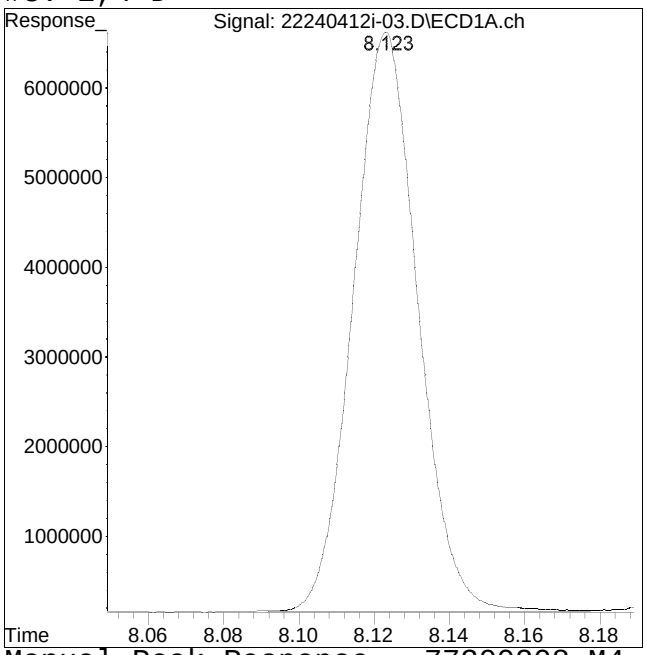
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #8: 2,4-D



Original Peak Response = 77223397



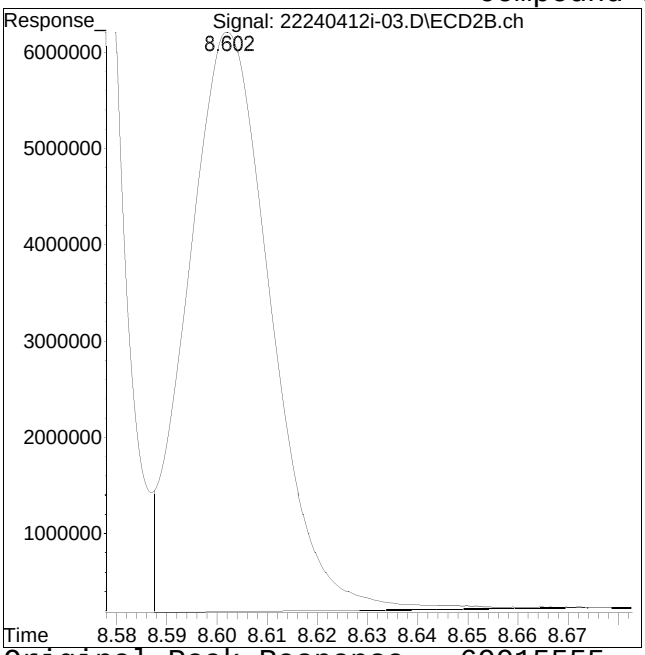
Manual Peak Response = 77300208 M4

M4 = Poor automated baseline construction.

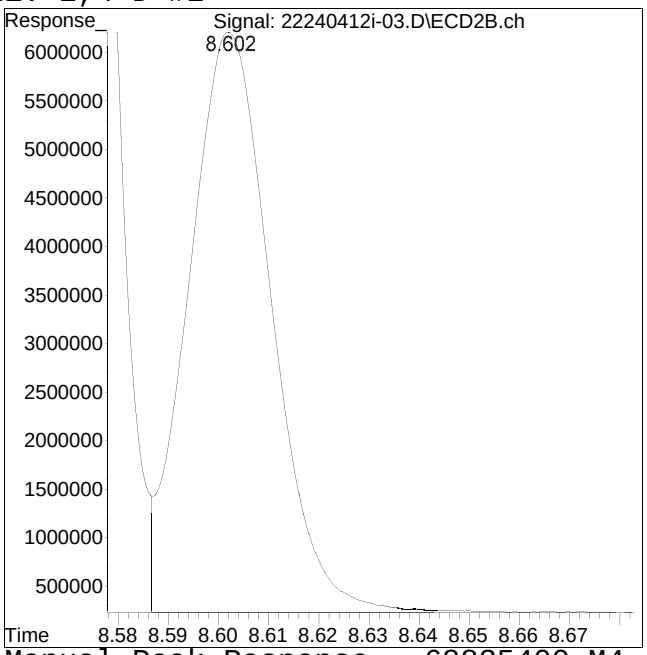
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #21: 2,4-D #2



Original Peak Response = 69915555



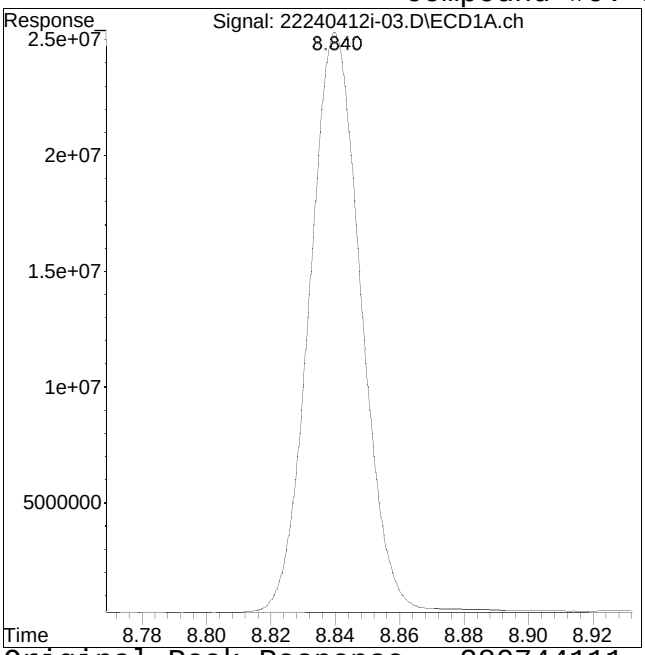
Manual Peak Response = 68835400 M4

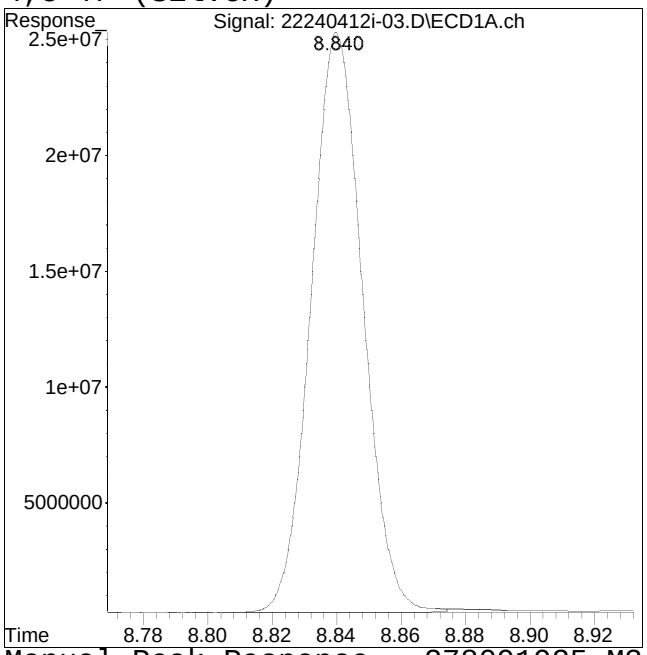
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #9: 2,4,5-TP (Silvex)



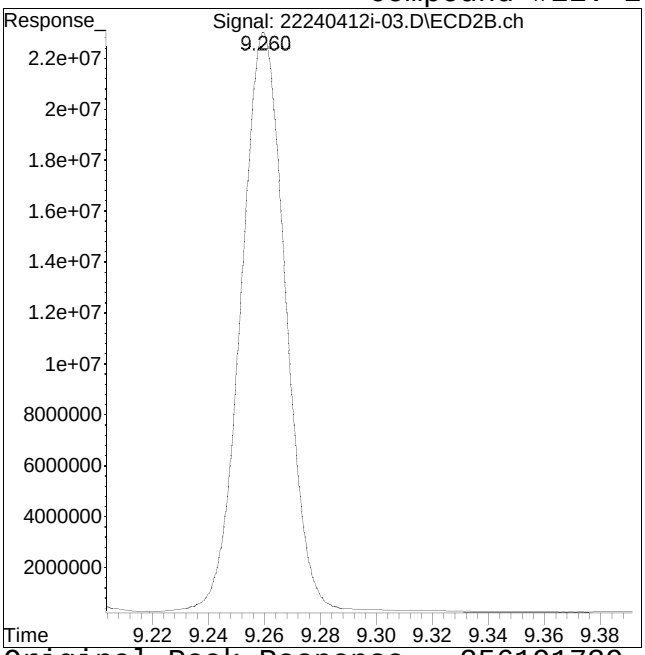


Original Peak Response = 280744111 Manual Peak Response = 278091925 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

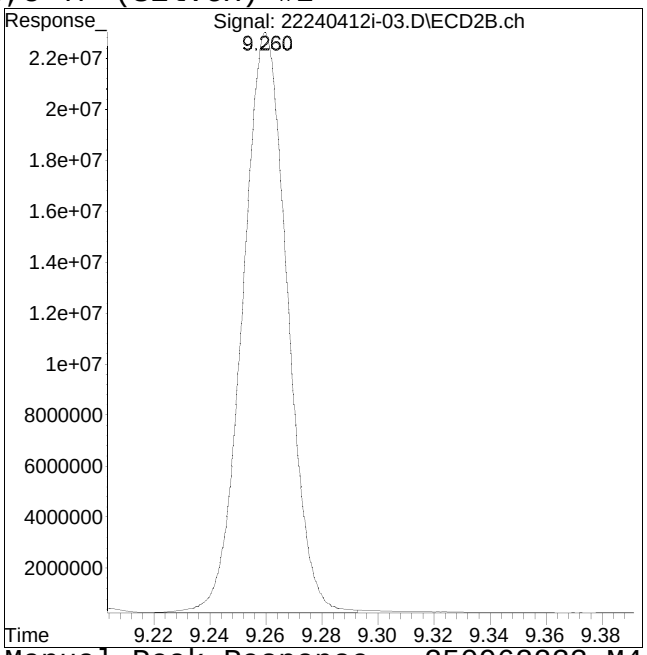
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 256191739

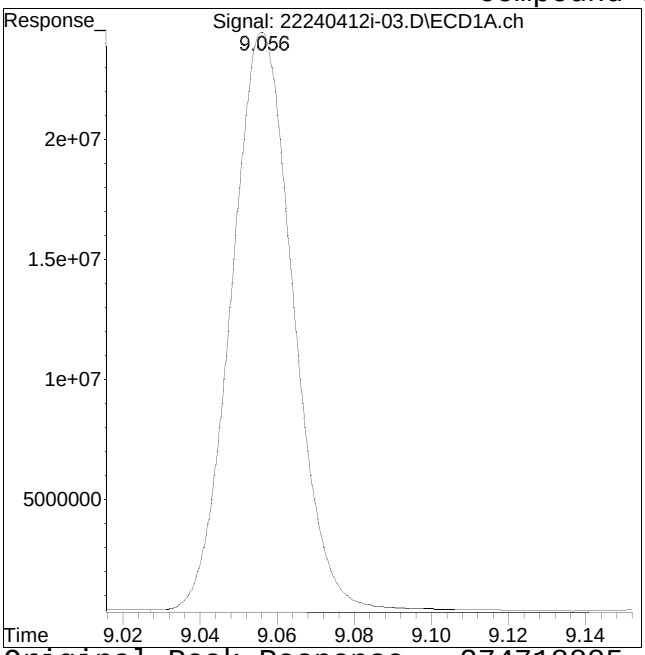


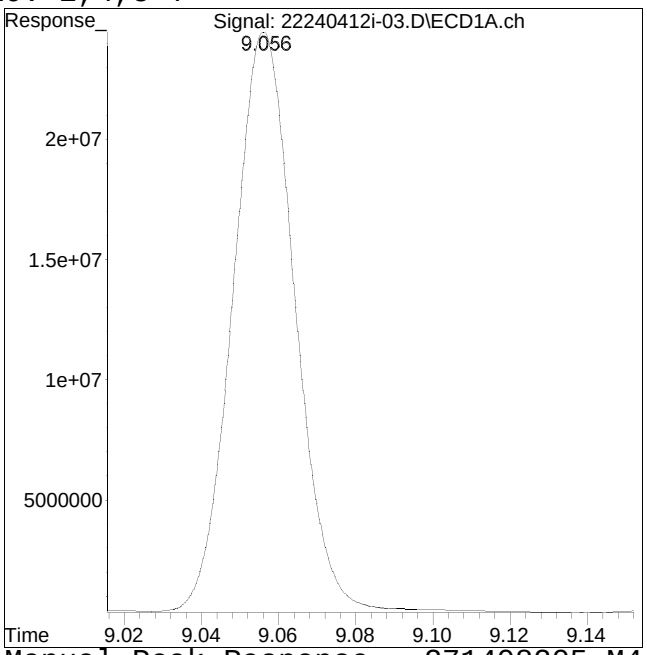
Manual Peak Response = 250962233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #10: 2,4,5-T



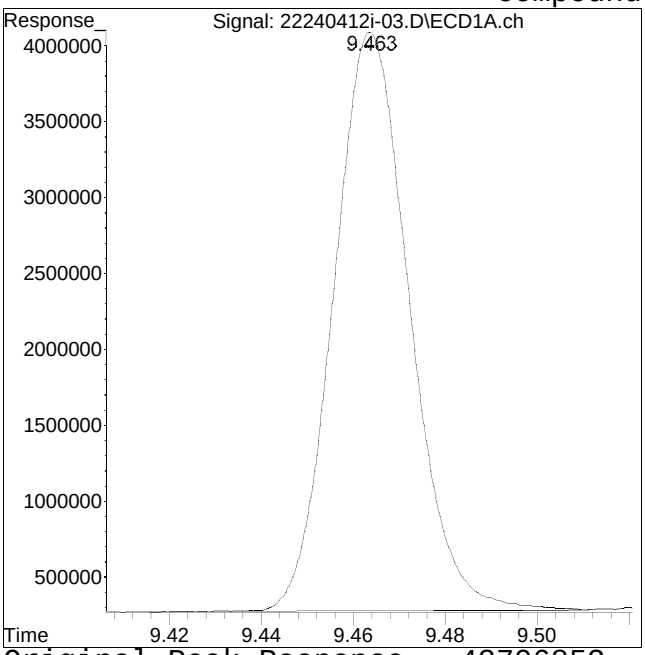


Original Peak Response = 274718885 Manual Peak Response = 271408205 M4
M4 = Poor automated baseline construction.

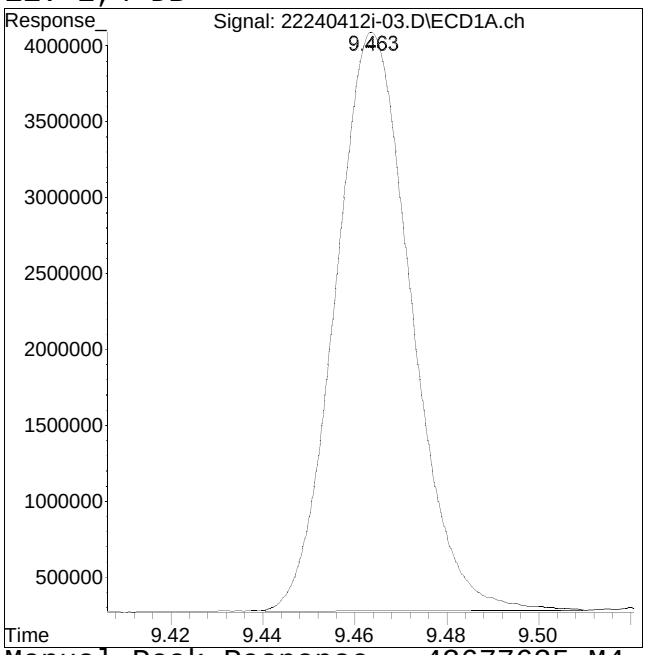
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #11: 2,4-DB



Original Peak Response = 43706853



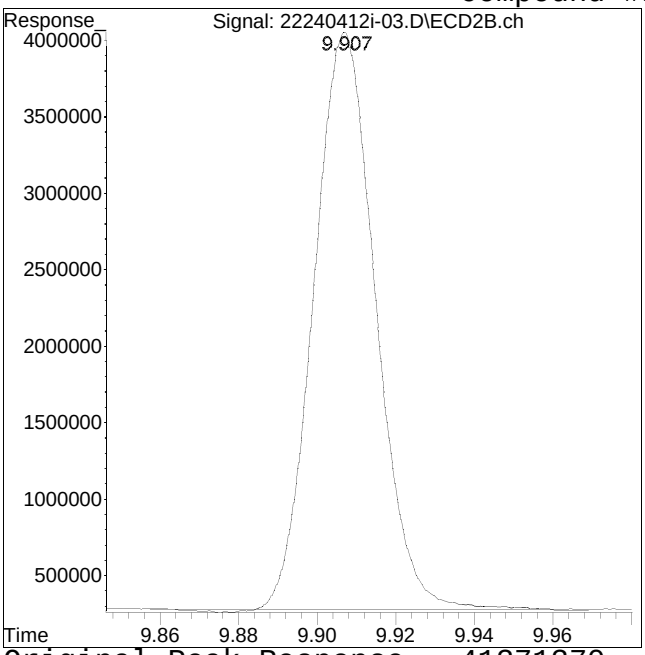
Manual Peak Response = 43677635 M4

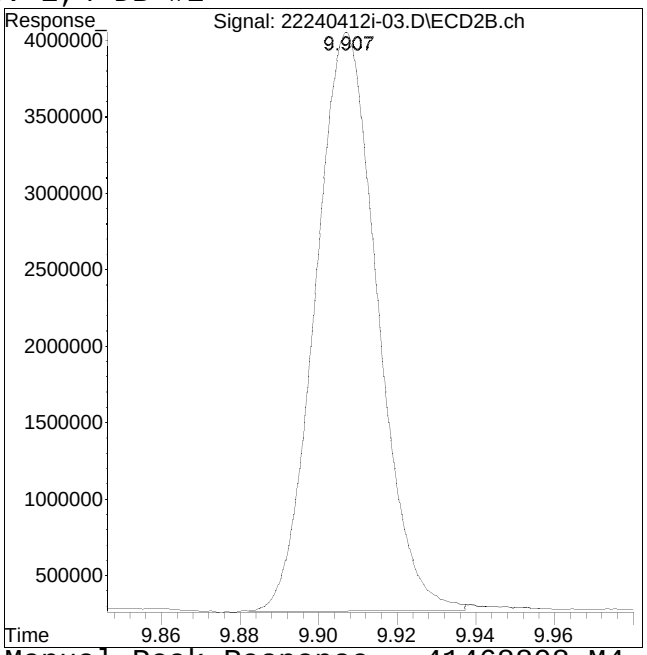
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #24: 2,4-DB #2



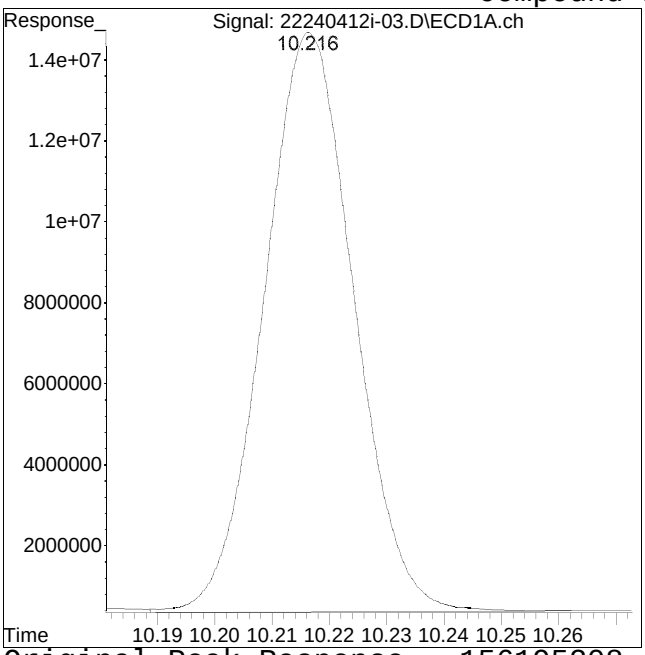


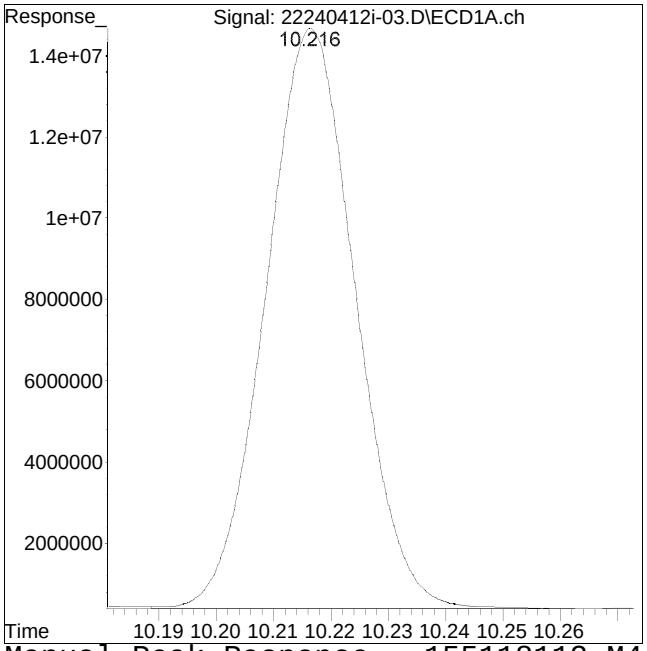
Original Peak Response = 41371370 Manual Peak Response = 41468808 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #12: Dinoseb





Original Peak Response = 156195208 Manual Peak Response = 155118112 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	756.3E6	703.2E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	123.2E6	111.1E6	NoCal	NoCal M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
2)	t	Dalapon	2.422	2.419	119.9E6	102.9E6	NoCal	NoCal M3
4)	t	Dicamba	7.212	7.677	355.2E6	323.0E6	NoCal M4	NoCal M4
5)	t	MCPP	7.413	7.787	31114458	39358453	NoCal M4	NoCal M3
6)	t	MCPA	7.559	8.013	57229158	66517204	NoCal	NoCal M4
7)	t	Dichloroprop	7.914	8.330	117.1E6	105.4E6	NoCal M4	NoCal M4
8)	t	2,4-D	8.123	8.602	144.4E6	127.9E6	NoCal M4	NoCal M4
9)	t	2,4,5-TP (Si	8.840	9.260	531.6E6	472.3E6	NoCal M4	NoCal M4
10)	t	2,4,5-T	9.056	9.546	515.7E6	455.2E6	NoCal M4	NoCal
11)	t	2,4-DB	9.463	9.907	81317538	77337034	NoCal	NoCal
12)	t	Dinoseb	10.216	10.131	298.6E6	267.3E6	NoCal M4	NoCal
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

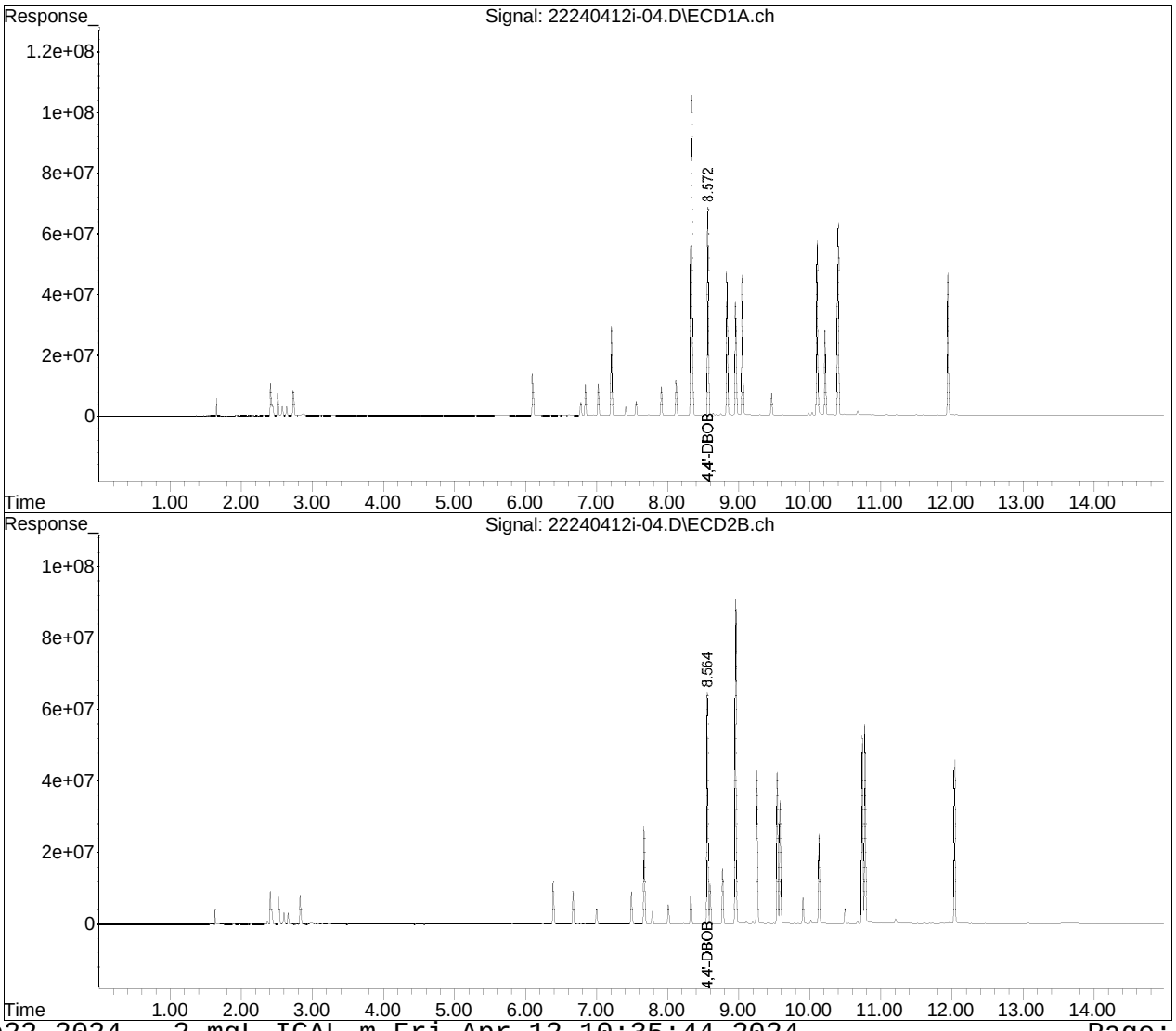
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

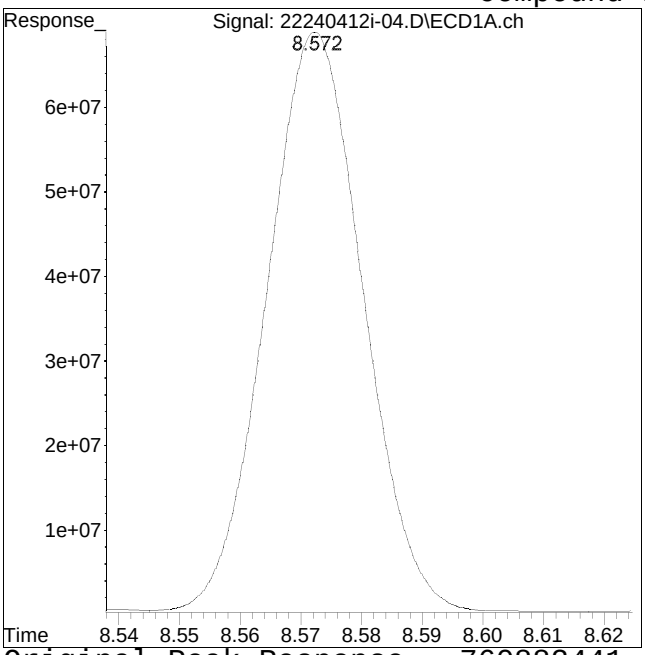
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

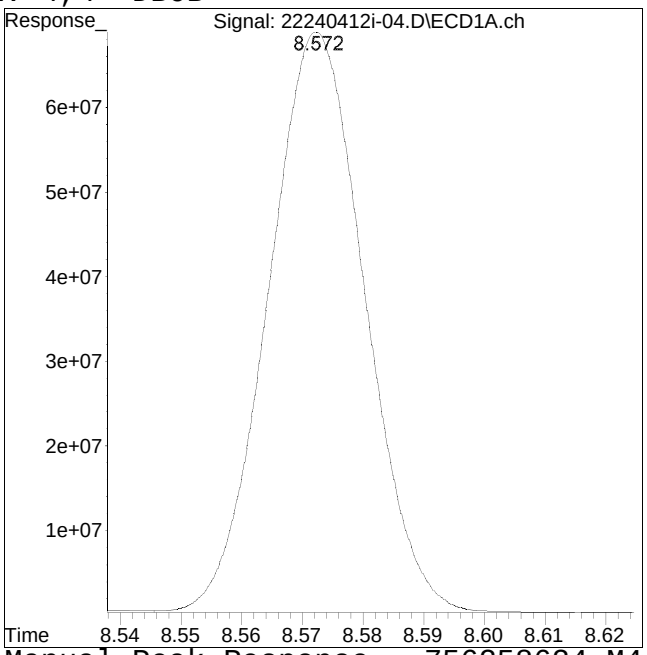


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #1: 4,4'-DBOB



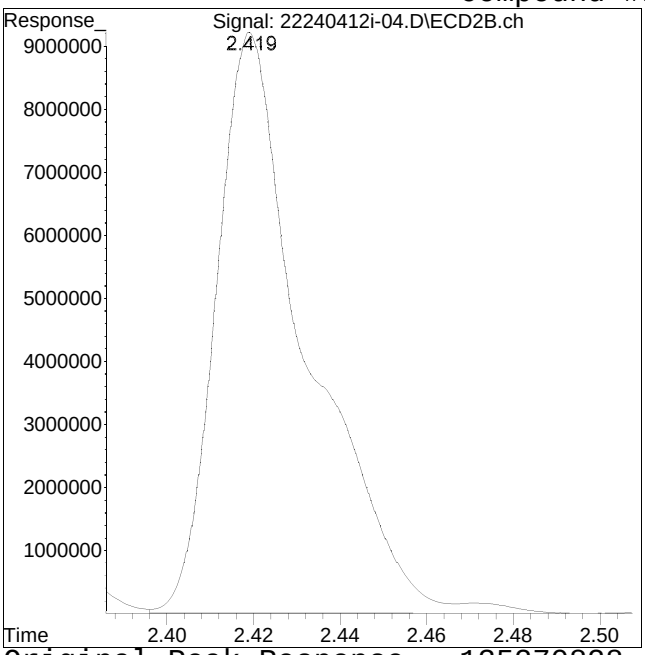


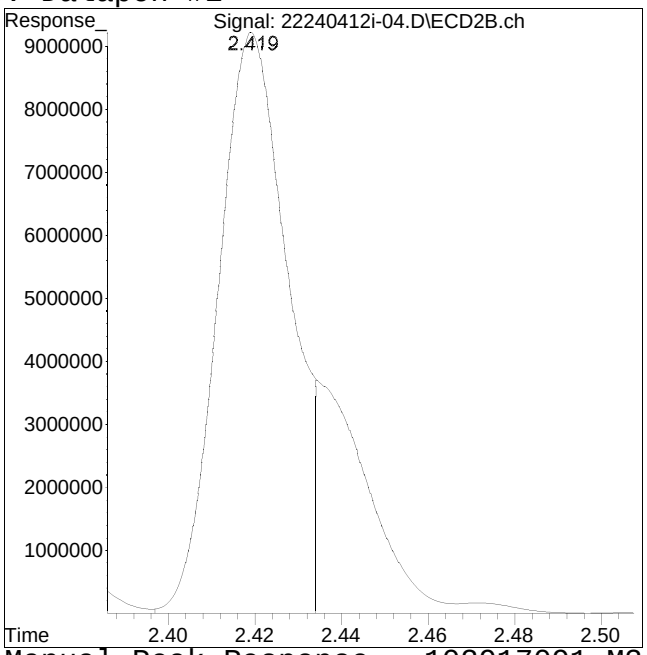
Original Peak Response = 760882441 Manual Peak Response = 756258624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #15: Dalapon #2



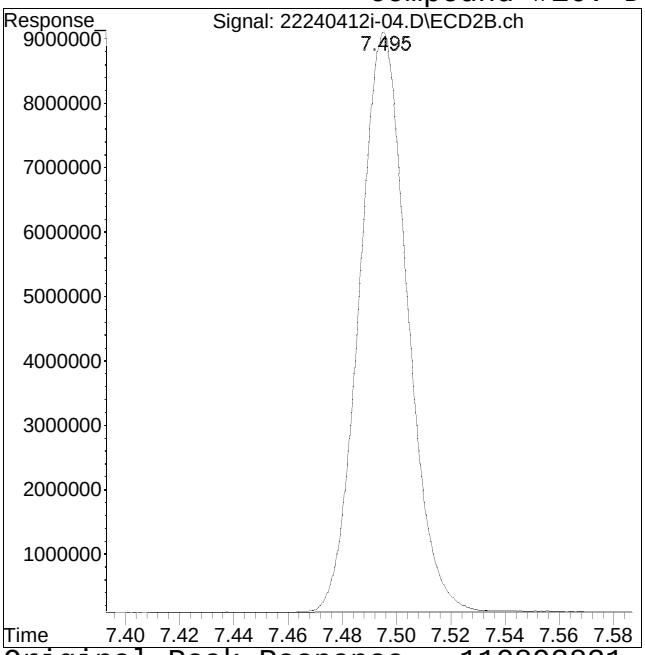


Original Peak Response = 135270828 Manual Peak Response = 102917091 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

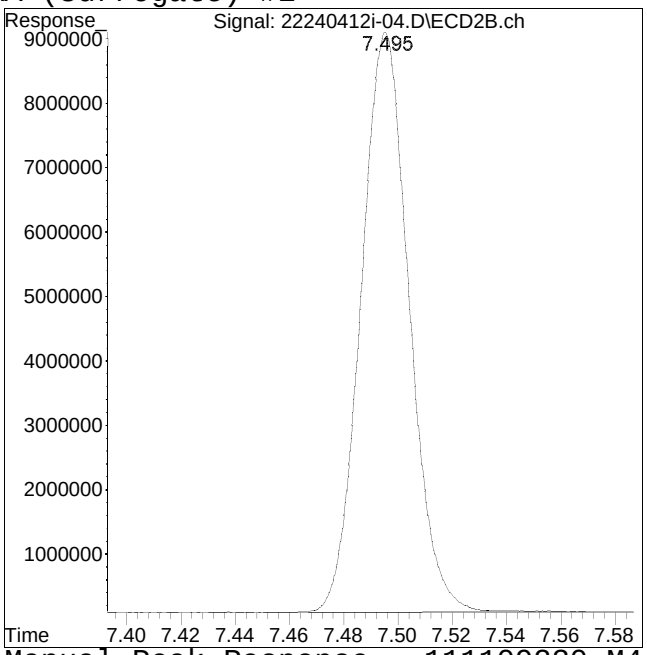
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 110893831



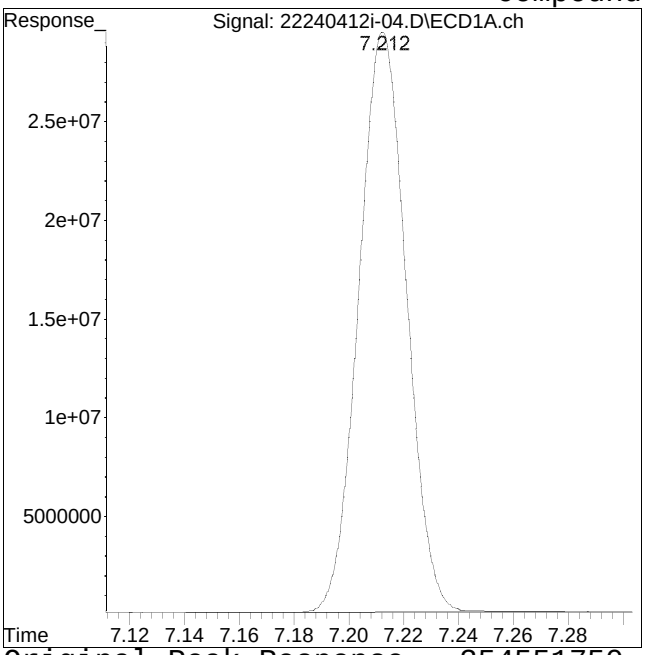
Manual Peak Response = 111109230 M4

M4 = Poor automated baseline construction.

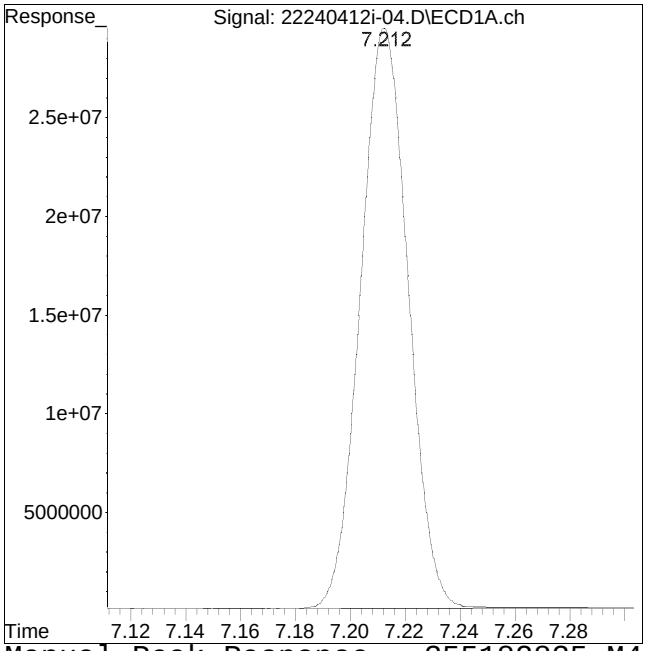
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #4: Dicamba



Original Peak Response = 354551750



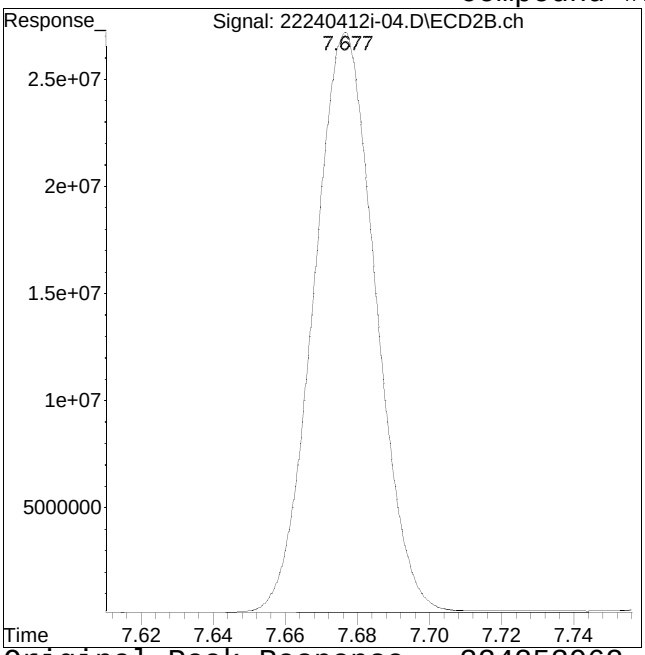
Manual Peak Response = 355182835 M4

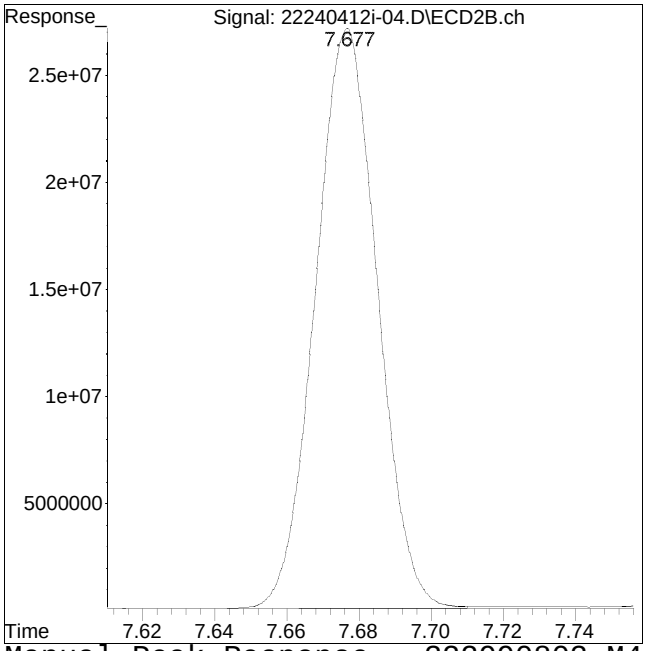
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #17: Dicamba #2



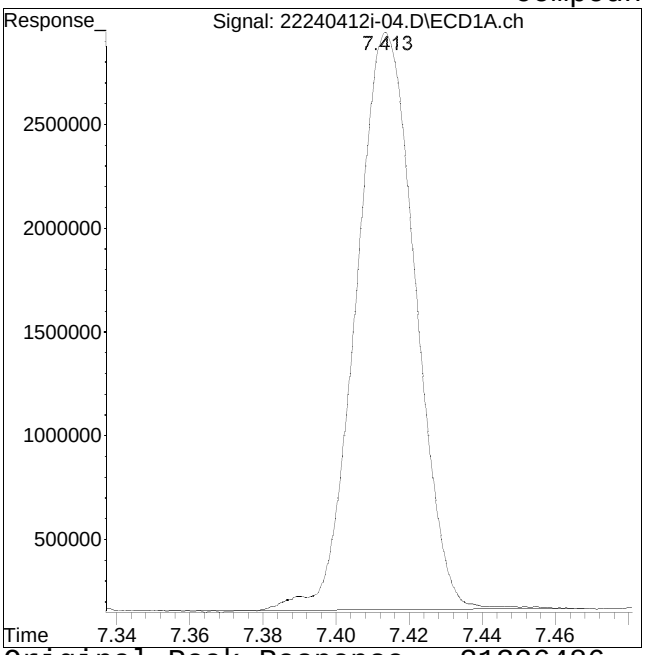


Original Peak Response = 324253962 Manual Peak Response = 322990803 M4
M4 = Poor automated baseline construction.

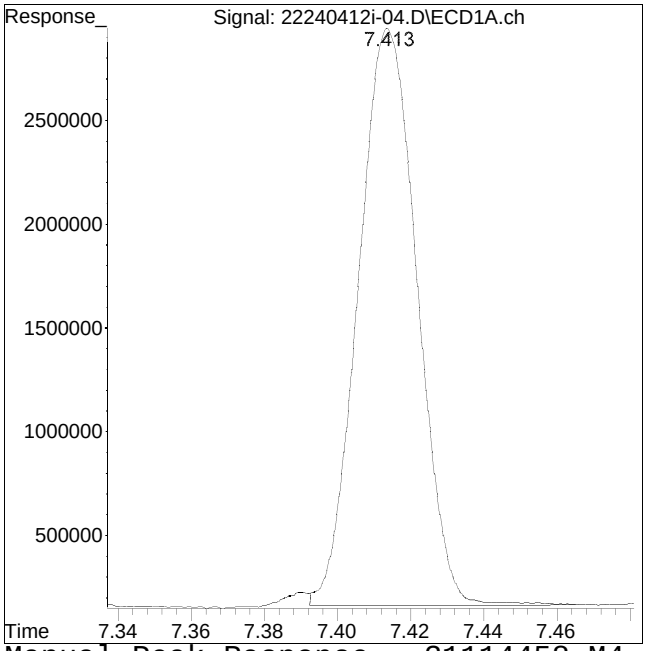
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #5: MCPP



Original Peak Response = 31326486



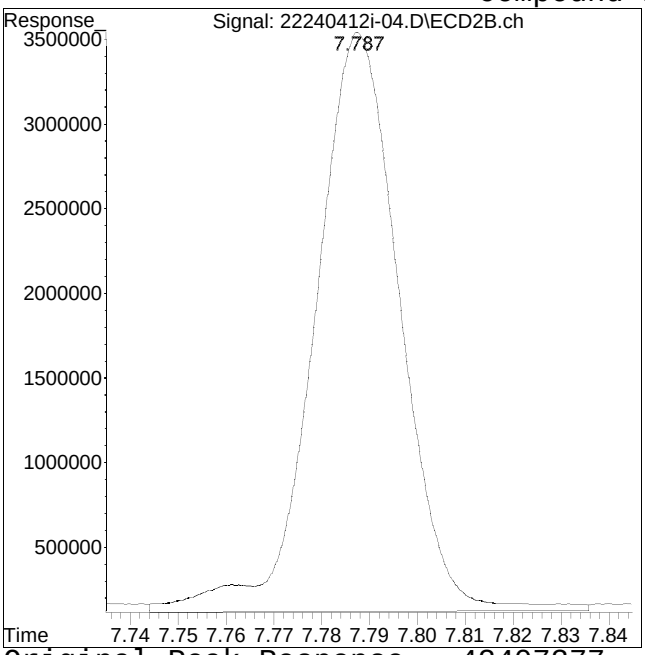
Manual Peak Response = 31114458 M4

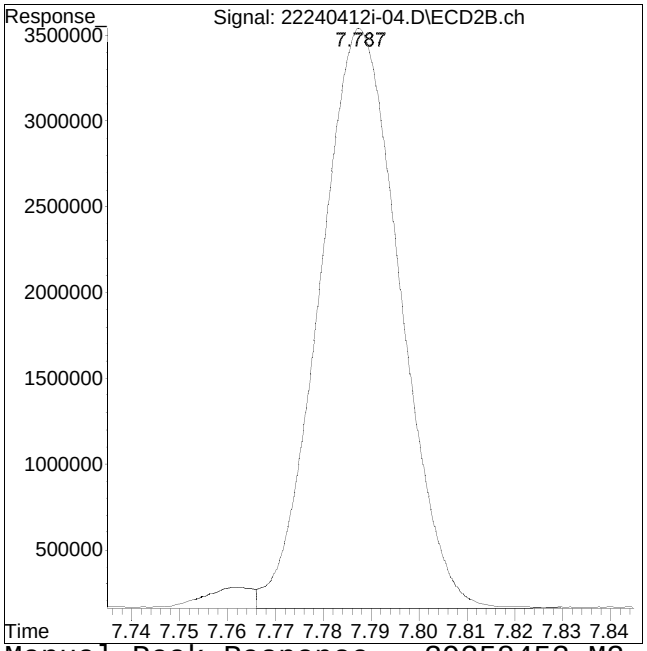
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #18: MCPP #2



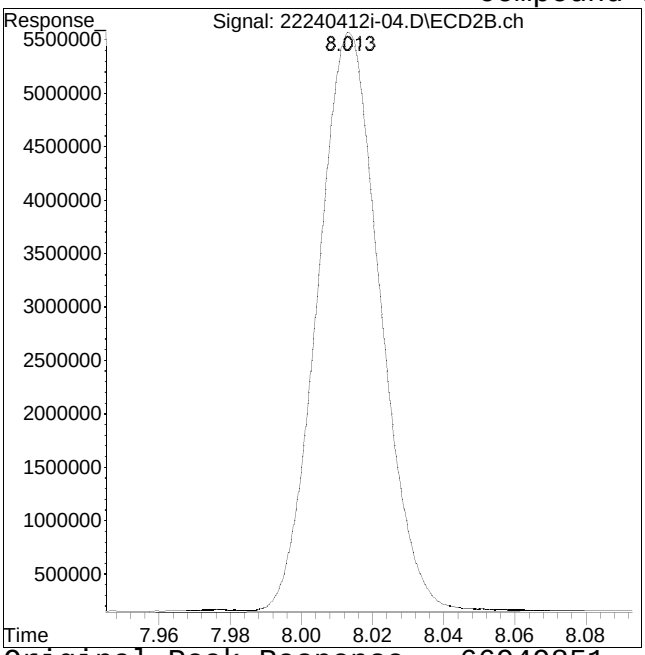


Original Peak Response = 42407377 Manual Peak Response = 39358453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

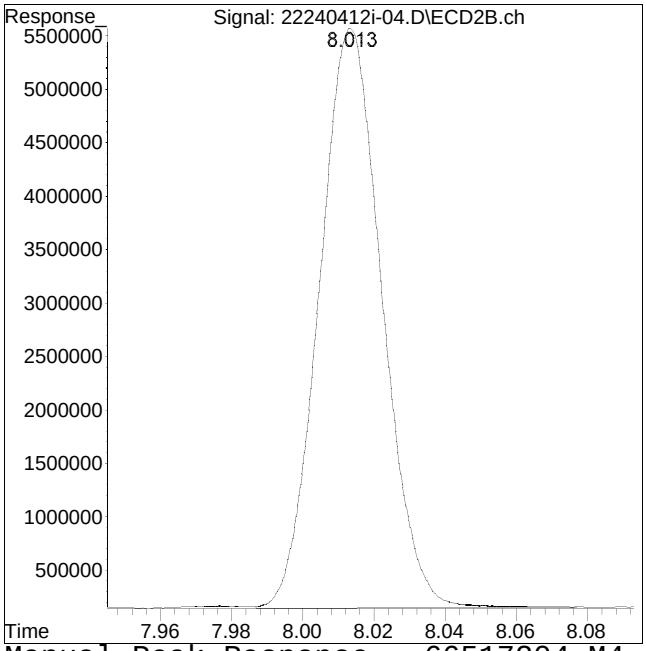
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #19: MCPA #2



Original Peak Response = 66949851



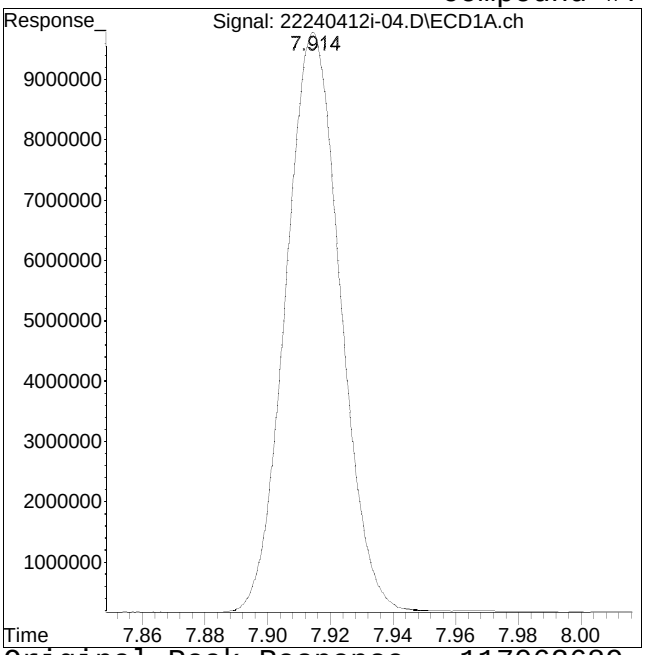
Manual Peak Response = 66517204 M4

M4 = Poor automated baseline construction.

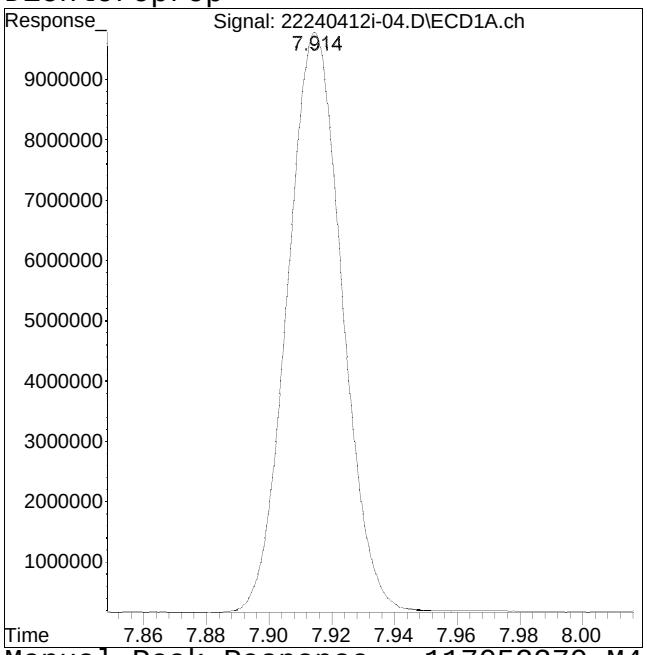
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #7: Dichloroprop



Original Peak Response = 117062689

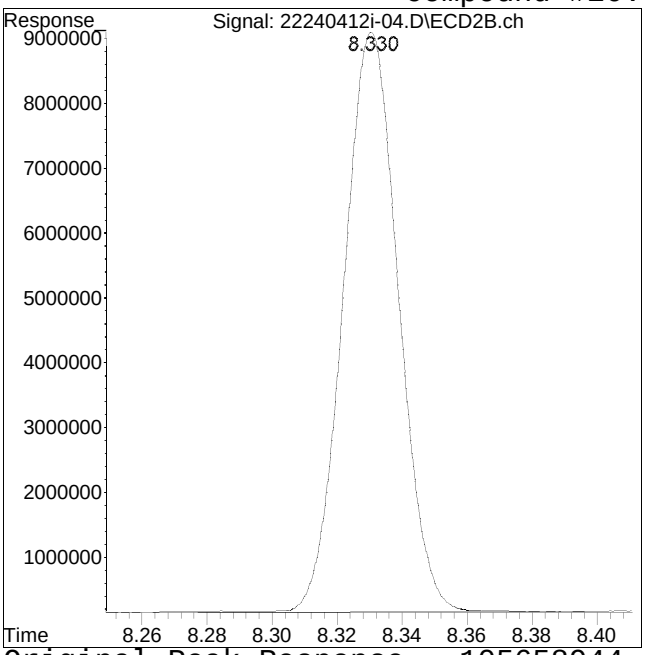


Manual Peak Response = 117052370 M4
M4 = Poor automated baseline construction.

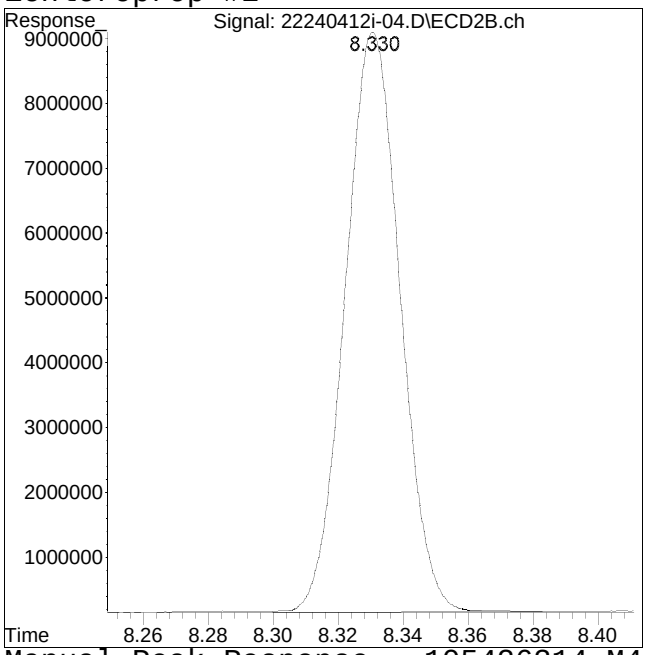
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #20: Dichloroprop #2



Original Peak Response = 105658944



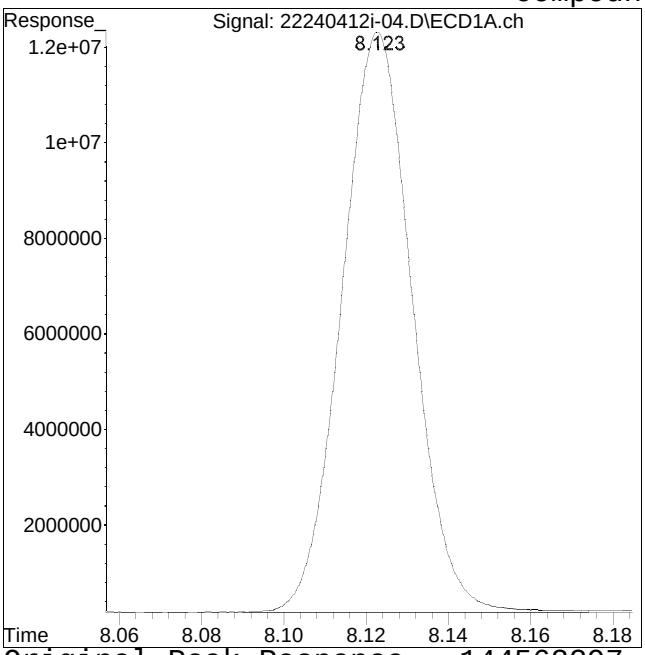
Manual Peak Response = 105426314 M4

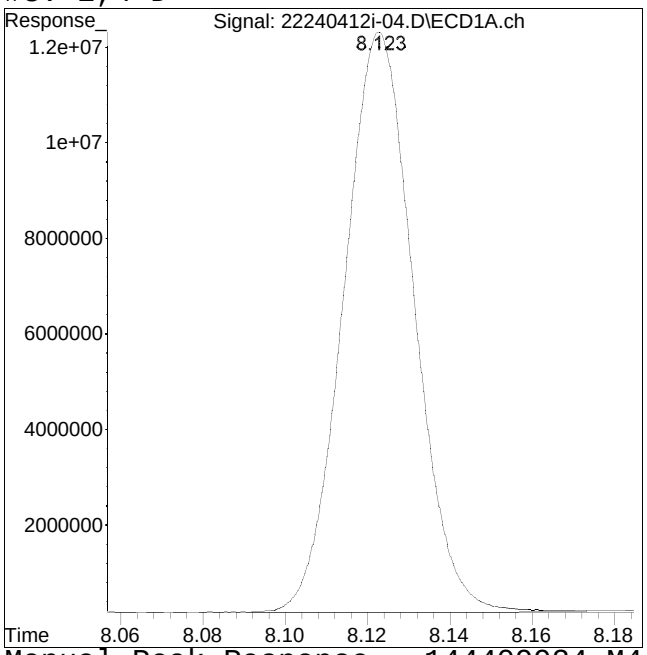
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #8: 2,4-D



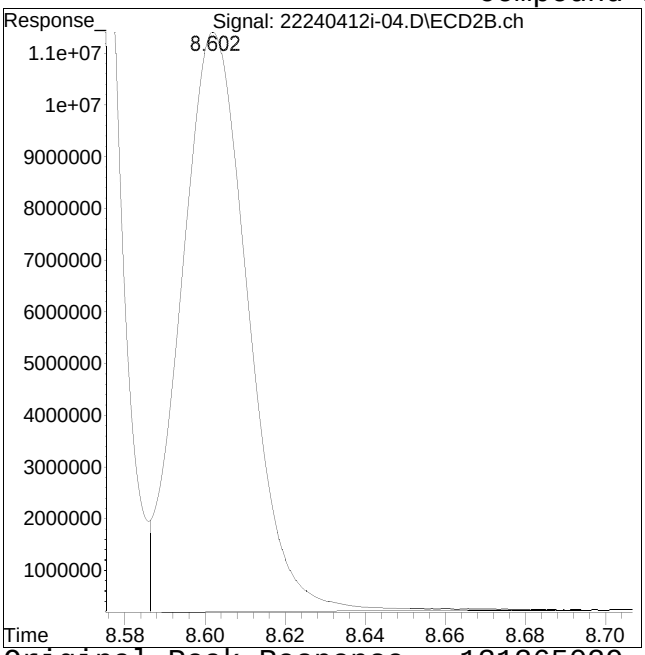


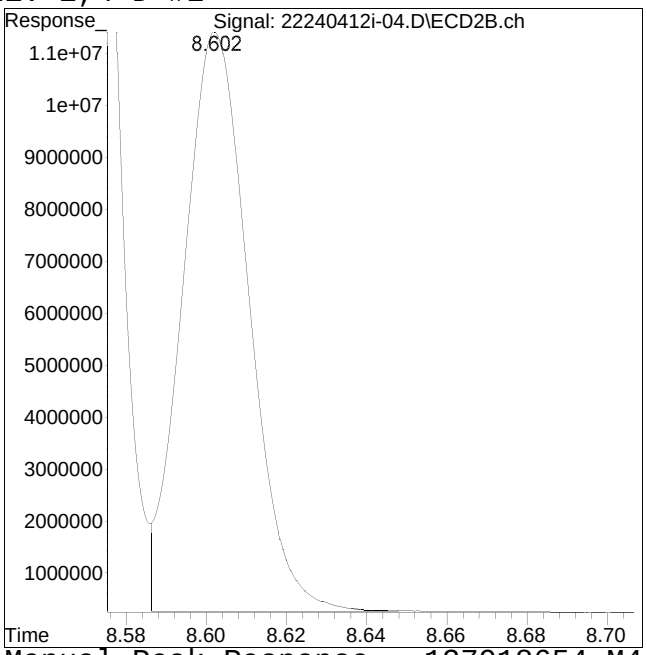
Original Peak Response = 144562297 Manual Peak Response = 144409924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #21: 2,4-D #2



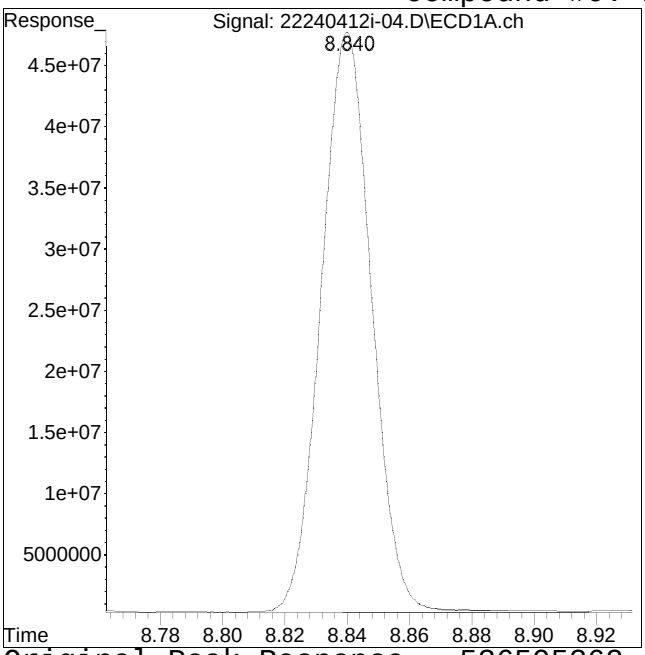


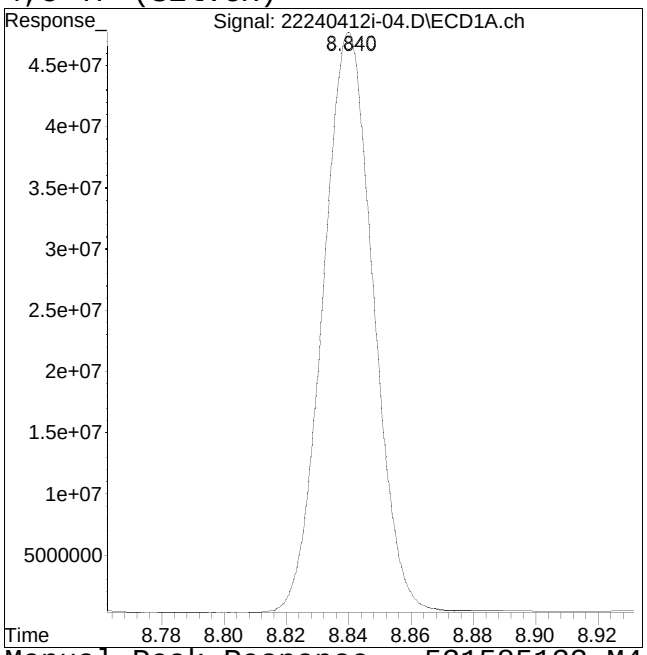
Original Peak Response = 131365029 Manual Peak Response = 127918654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #9: 2,4,5-TP (Silvex)



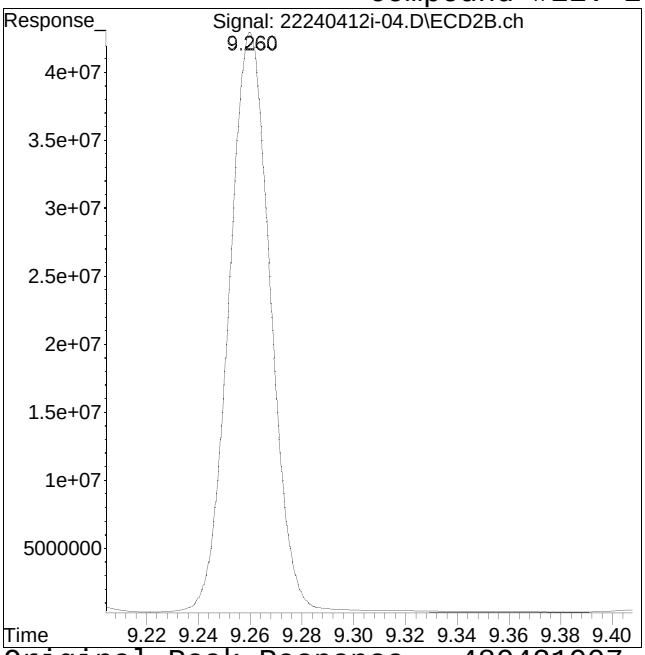


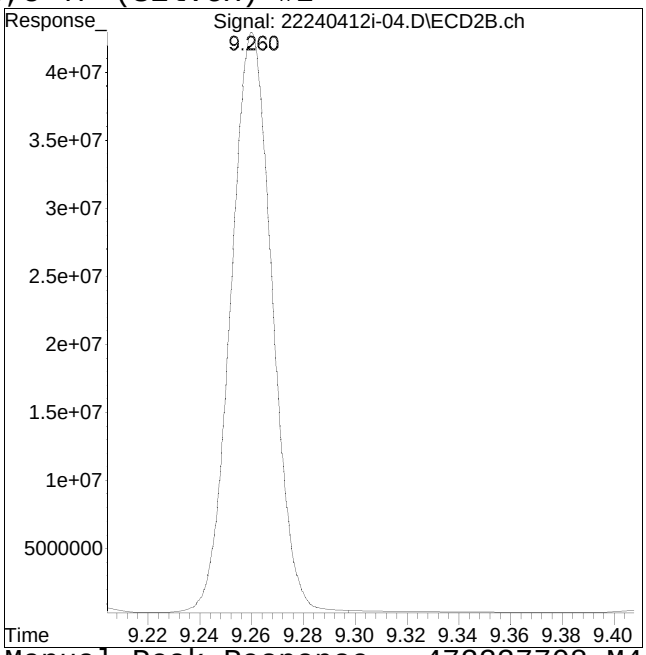
Original Peak Response = 536595362 Manual Peak Response = 531585133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #22: 2,4,5-TP (Silvex) #2



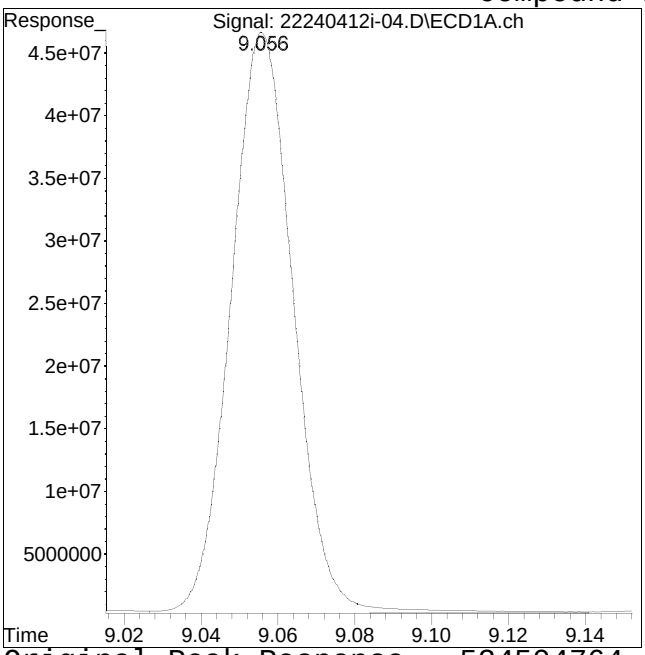


Original Peak Response = 480421907 Manual Peak Response = 472337708 M4
M4 = Poor automated baseline construction.

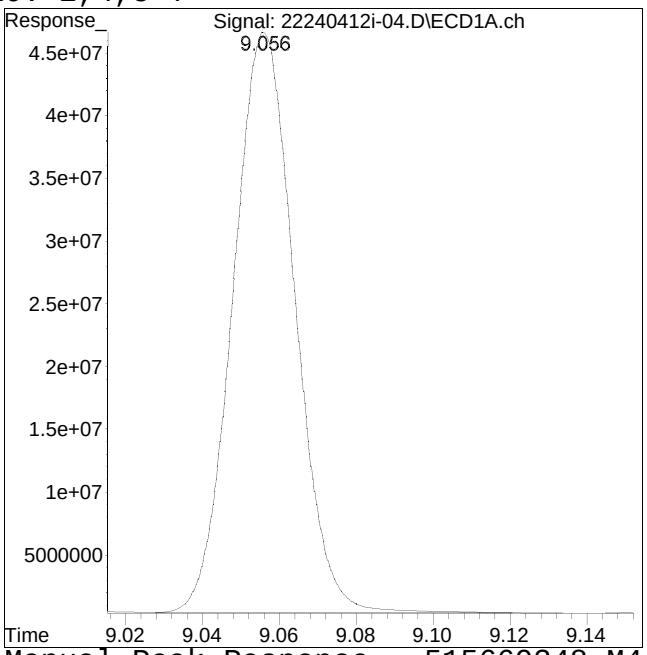
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #10: 2,4,5-T



Original Peak Response = 524504764



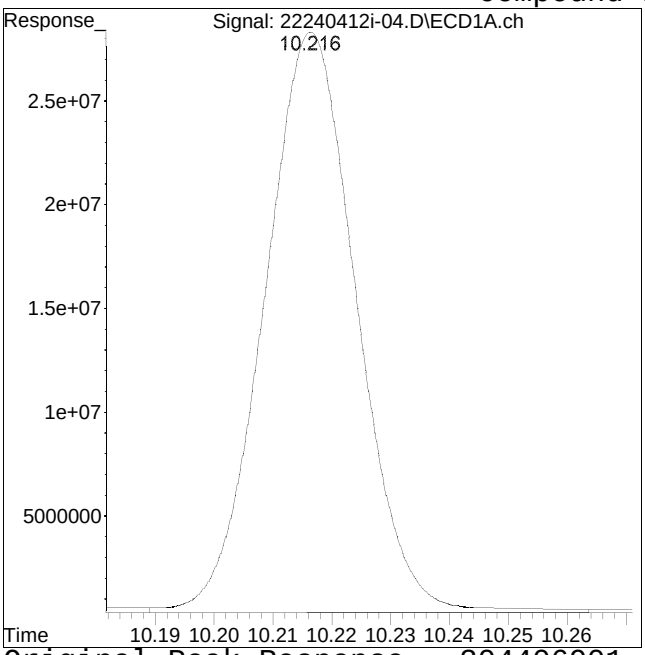
Manual Peak Response = 515669348 M4

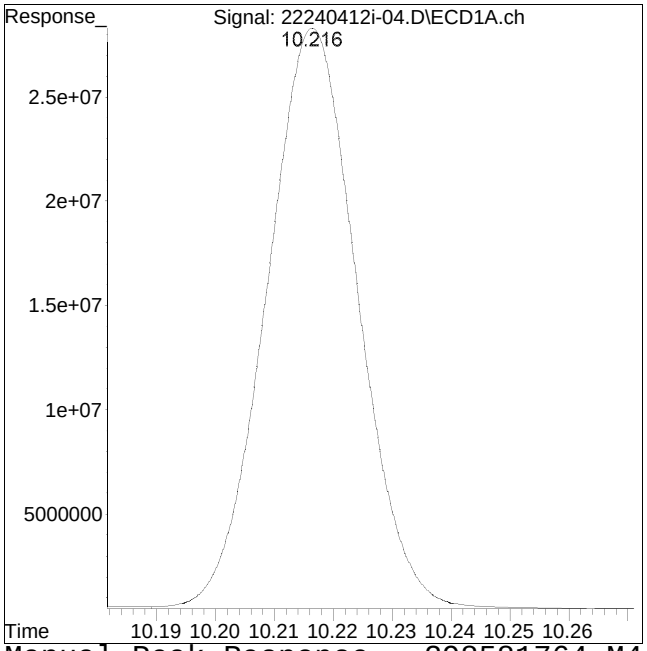
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #12: Dinoseb





Original Peak Response = 304406901 Manual Peak Response = 298581764 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	728.9E6	672.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	269.9E6	239.5E6	0.427M4	0.424M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	85.40%	84.80%
		Target Compounds						
2)	t	Dalapon	2.421	2.418	271.5E6	257.3E6	0.428M3	0.476M4
4)	t	Dicamba	7.213	7.677	765.6E6	720.1E6	0.420	0.439
5)	t	MCPP	7.415	7.788	73199826	88785274	45.887M4	44.375M4
6)	t	MCPA	7.560	8.013	121.5E6	140.2E6	40.968M4	41.021M4
7)	t	Dichloroprop	7.915	8.331	249.3E6	225.9E6	0.415M4	0.422M4
8)	t	2,4-D	8.123	8.602	315.8E6	282.1E6	0.427	0.434M4
9)	t	2,4,5-TP (Si	8.840	9.260	1166.2E6	1040.4E6	0.432M3	0.438M4
10)	t	2,4,5-T	9.056	9.546	1153.0E6	1012.2E6	0.441M4	0.442
11)	t	2,4-DB	9.463	9.907	173.1E6	171.9E6	0.424M4	0.447
12)	t	Dinoseb	10.216	10.130	670.6E6	603.6E6	0.443M4	0.449M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

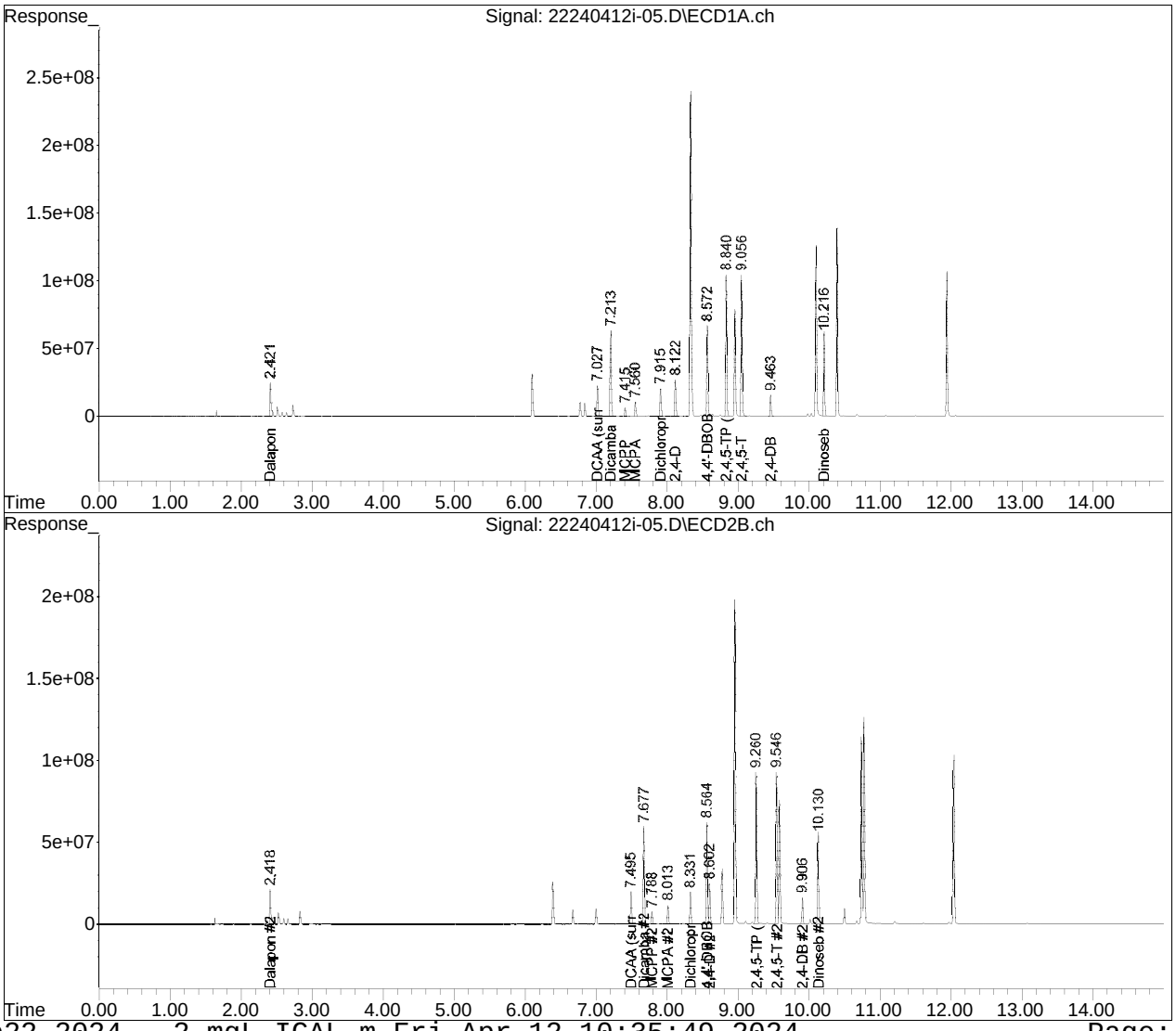
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

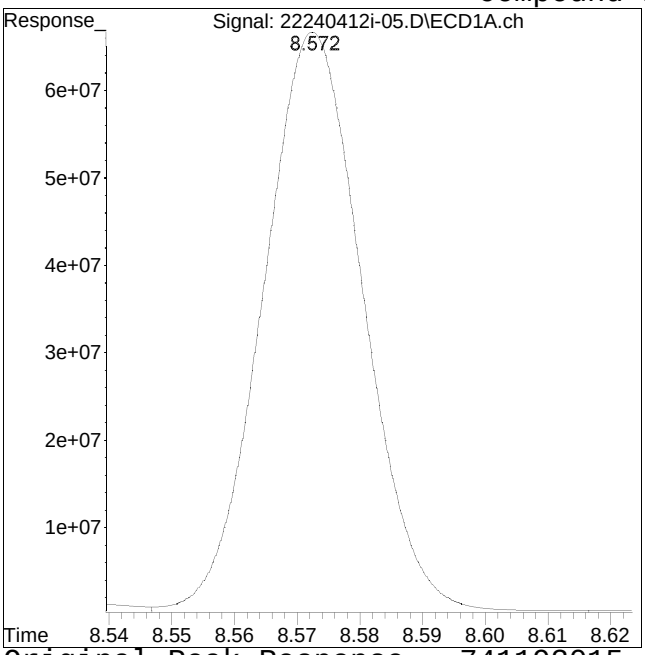
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



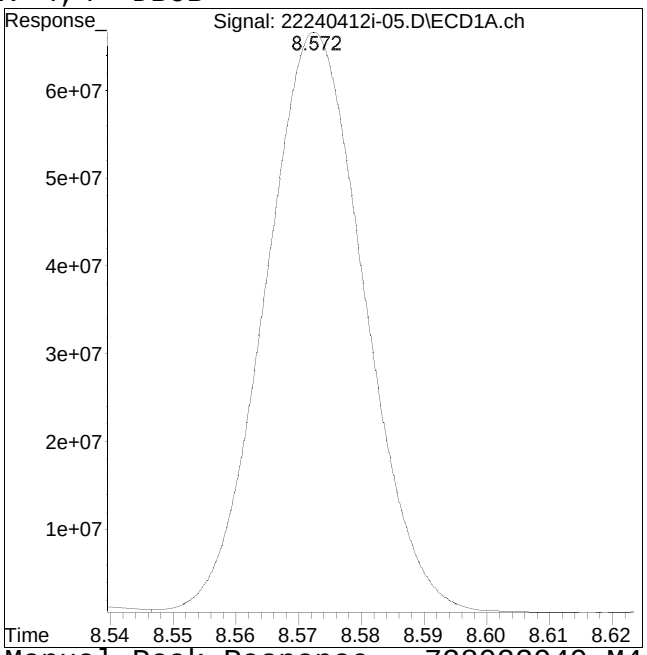
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #1: 4,4'-DBOB



Original Peak Response = 741193015

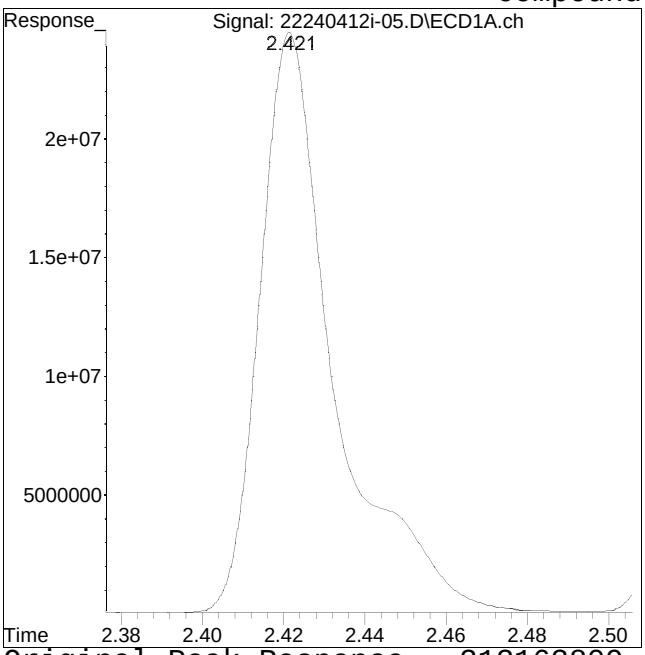


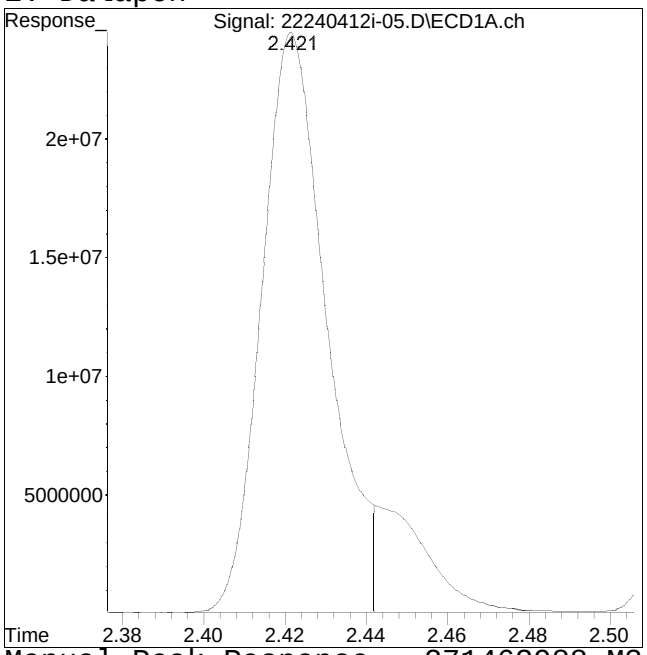
Manual Peak Response = 728923949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #2: Dalapon



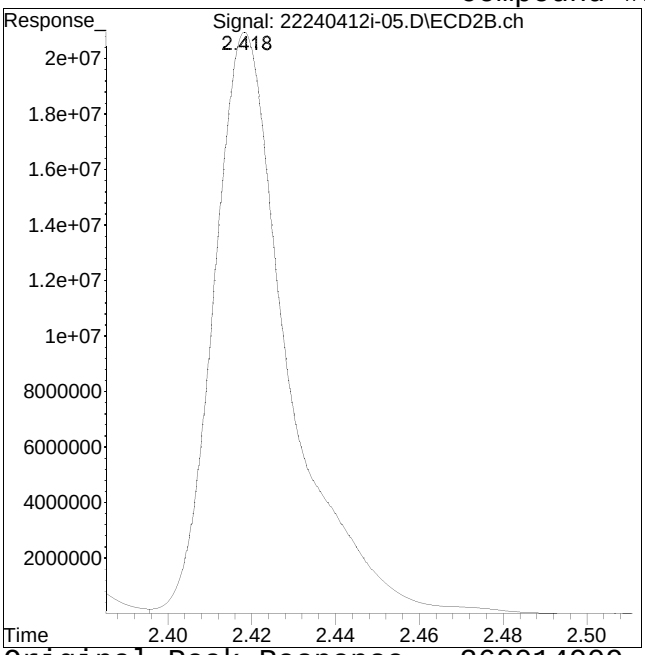


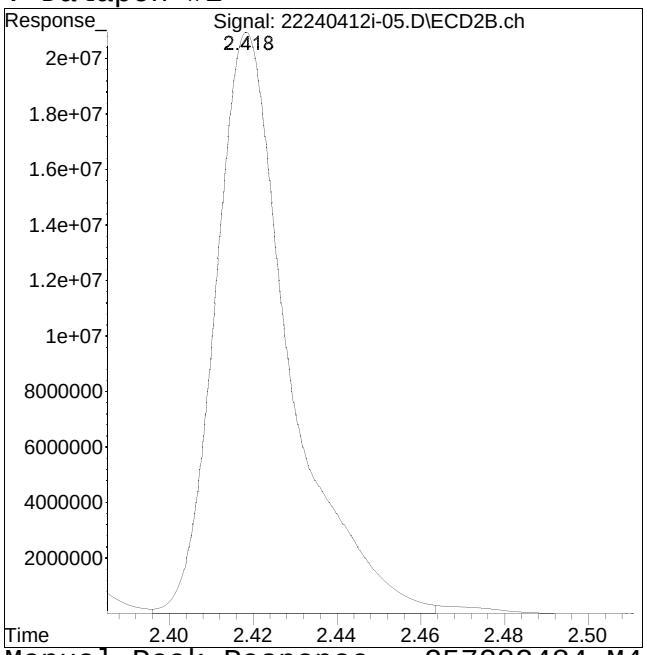
Original Peak Response = 313163809 Manual Peak Response = 271463988 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #15: Dalapon #2



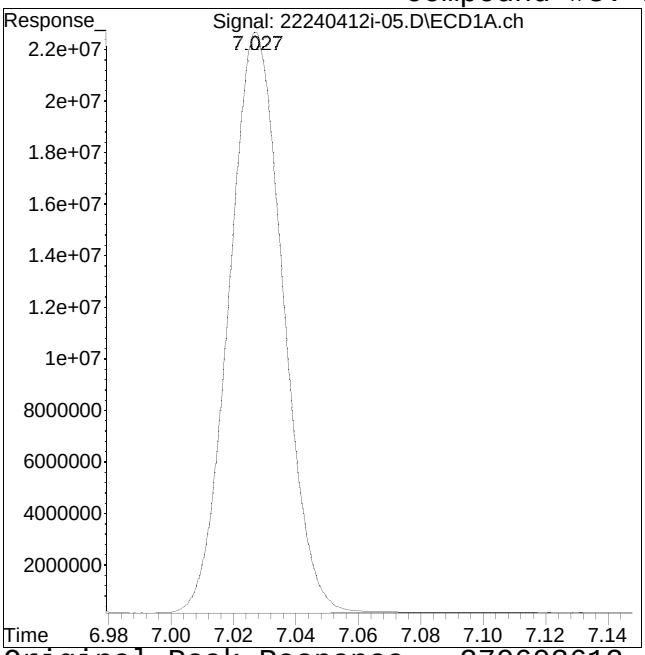


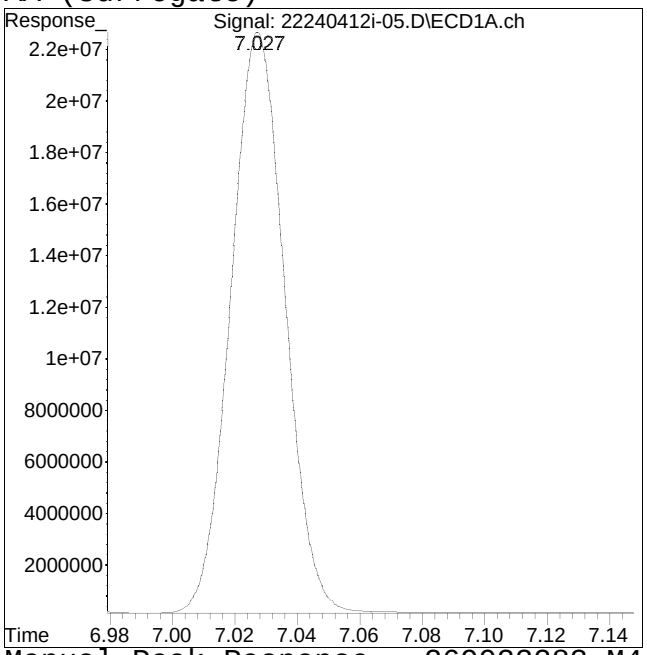
Original Peak Response = 260014909 Manual Peak Response = 257282484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #3: DCAA (surrogate)



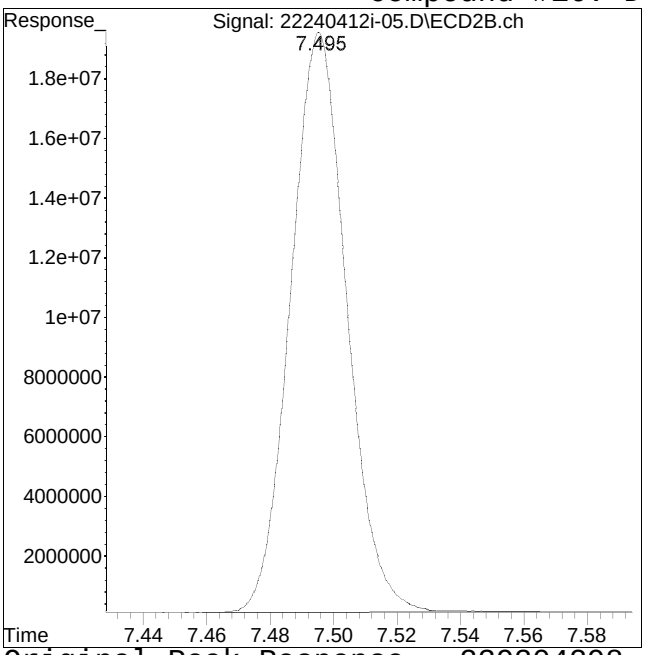


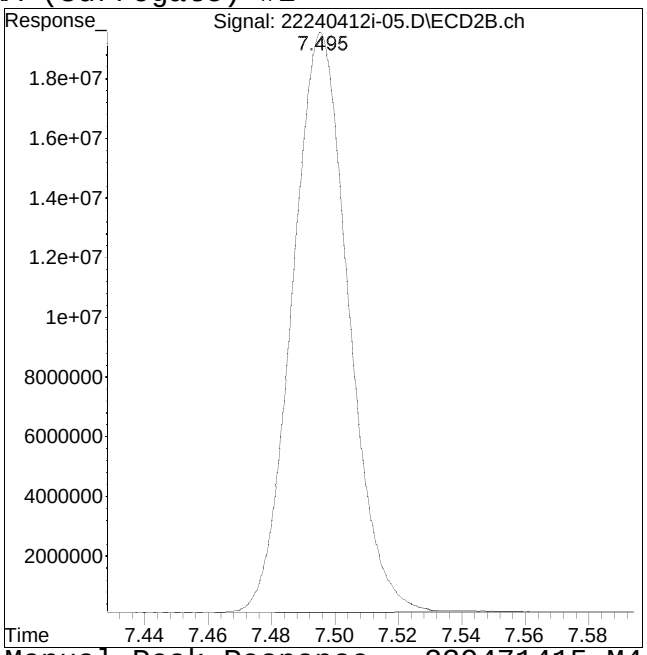
Original Peak Response = 270603612 Manual Peak Response = 269923283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #16: DCAA (surrogate) #2



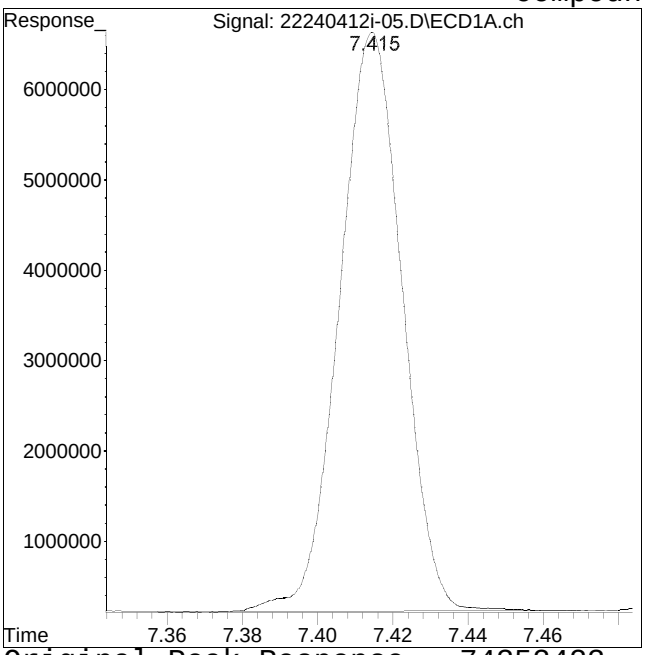


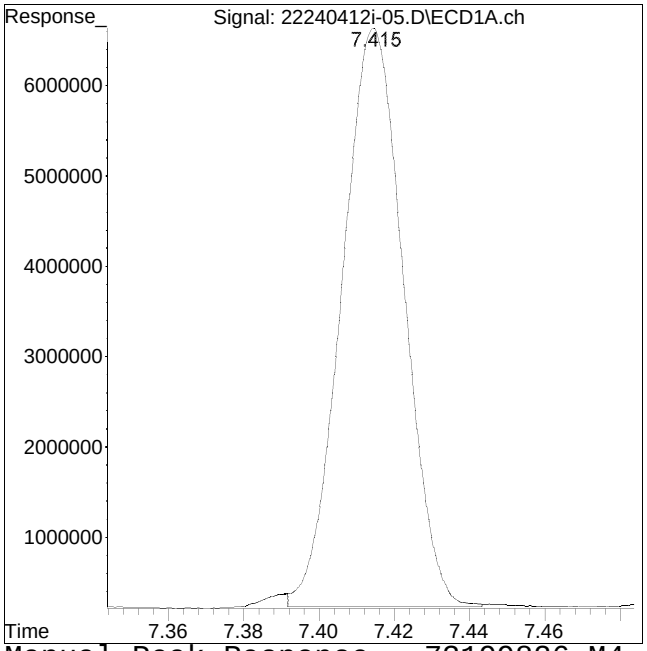
Original Peak Response = 239304298 Manual Peak Response = 239471415 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #5: MCPP



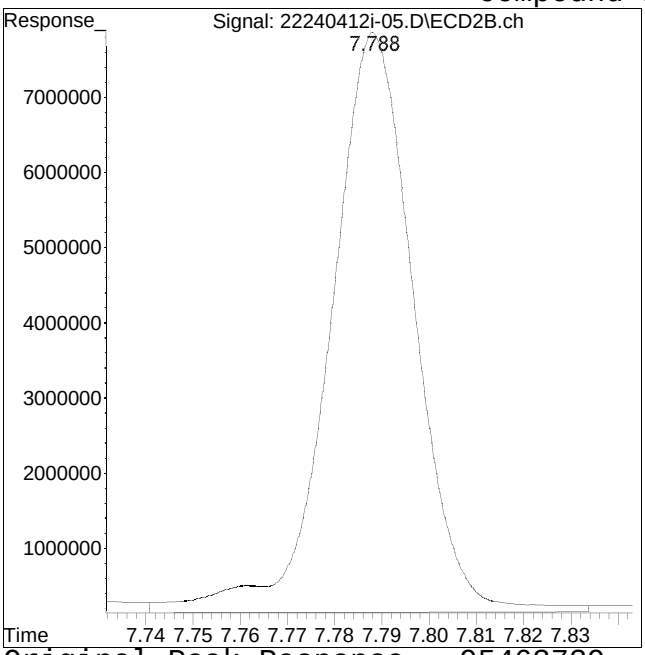


Original Peak Response = 74352423 Manual Peak Response = 73199826 M4
M4 = Poor automated baseline construction.

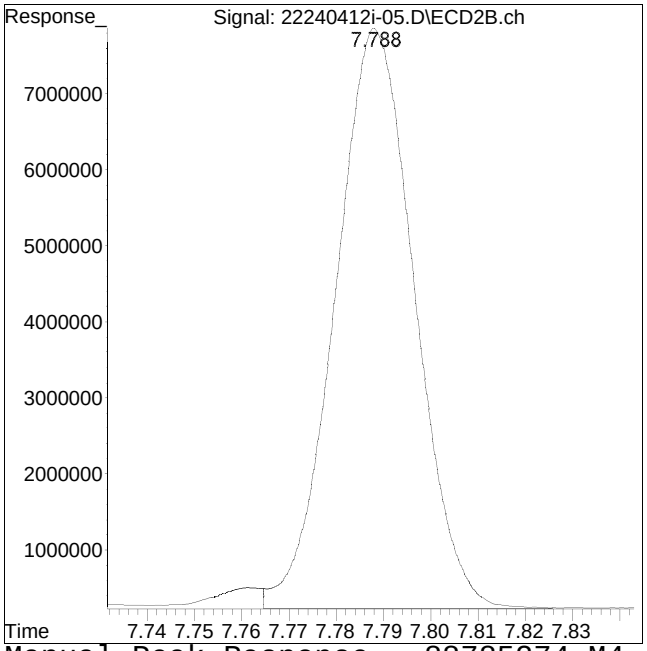
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #18: MCPP #2



Original Peak Response = 95463739



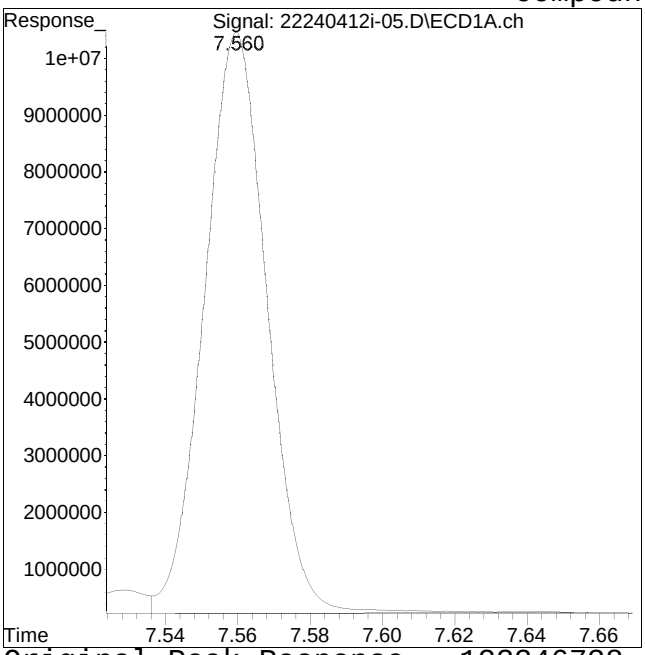
Manual Peak Response = 88785274 M4

M4 = Poor automated baseline construction.

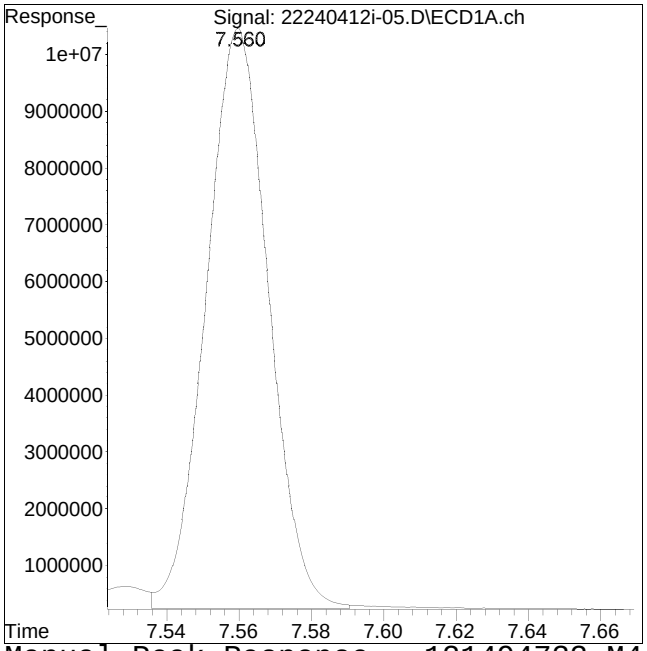
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #6: MCPA



Original Peak Response = 123346738

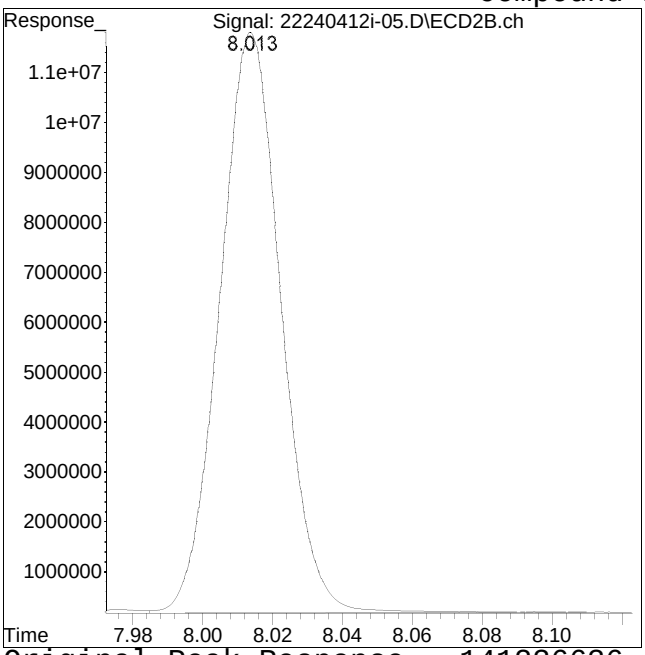


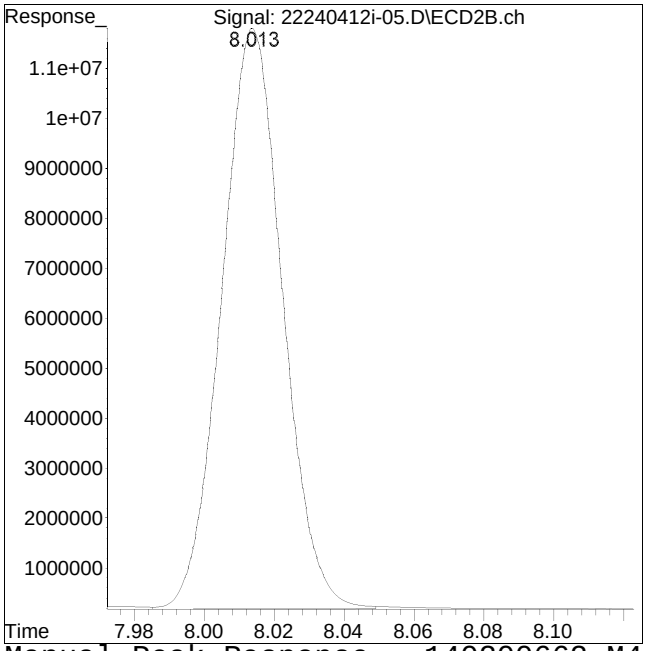
Manual Peak Response = 121494733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #19: MCPA #2



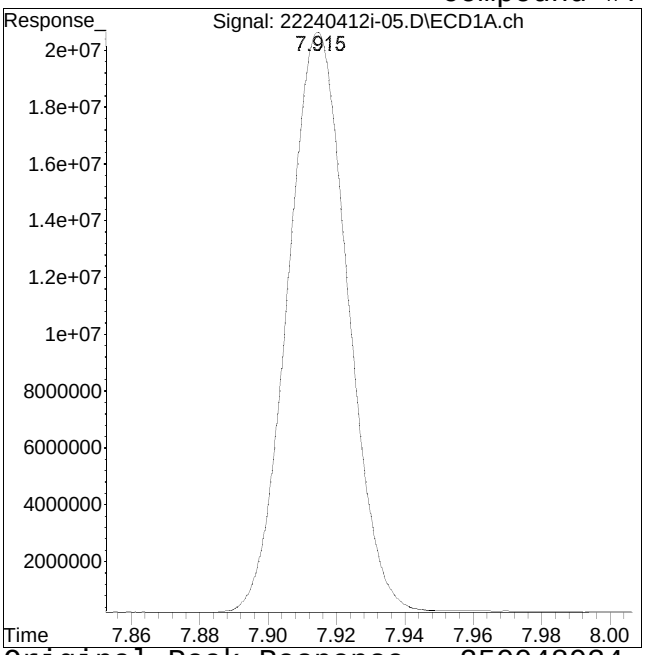


Original Peak Response = 141236636 Manual Peak Response = 140200662 M4
M4 = Poor automated baseline construction.

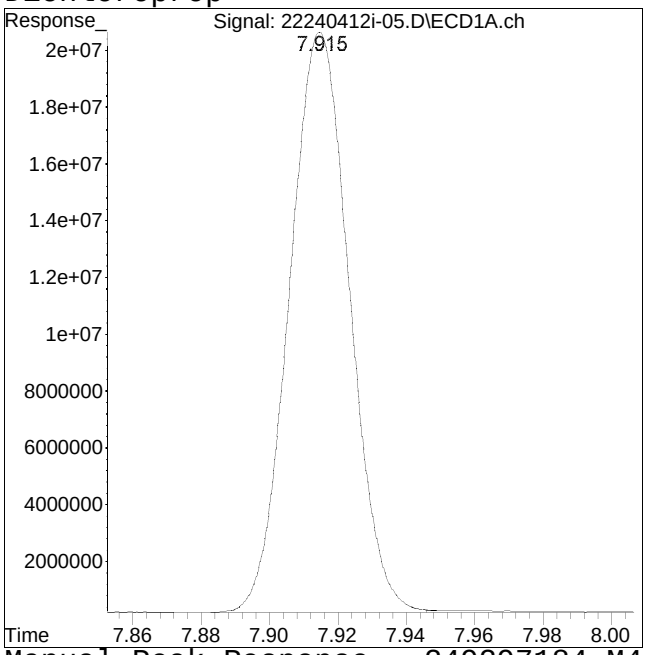
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #7: Dichloroprop



Original Peak Response = 250048934



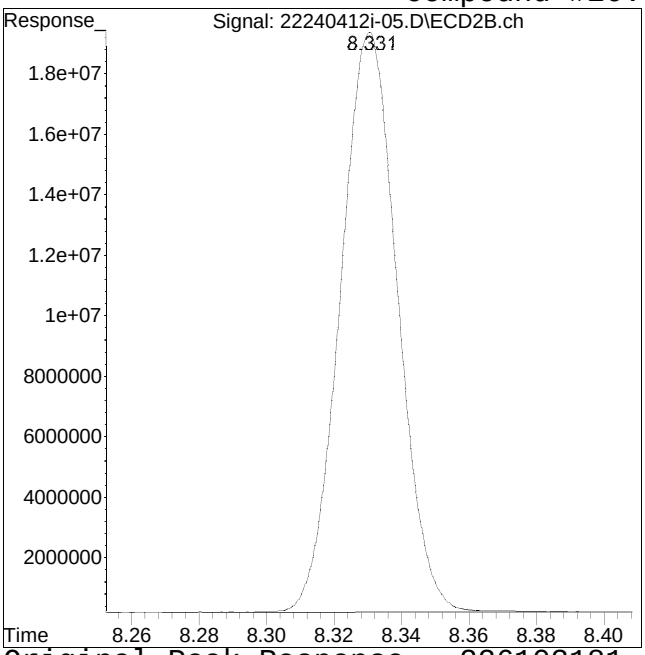
Manual Peak Response = 249297184 M4

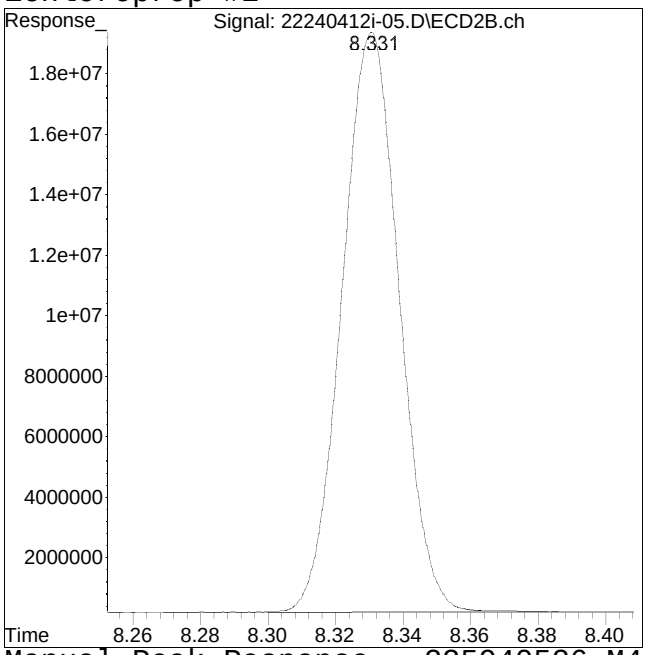
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #20: Dichloroprop #2



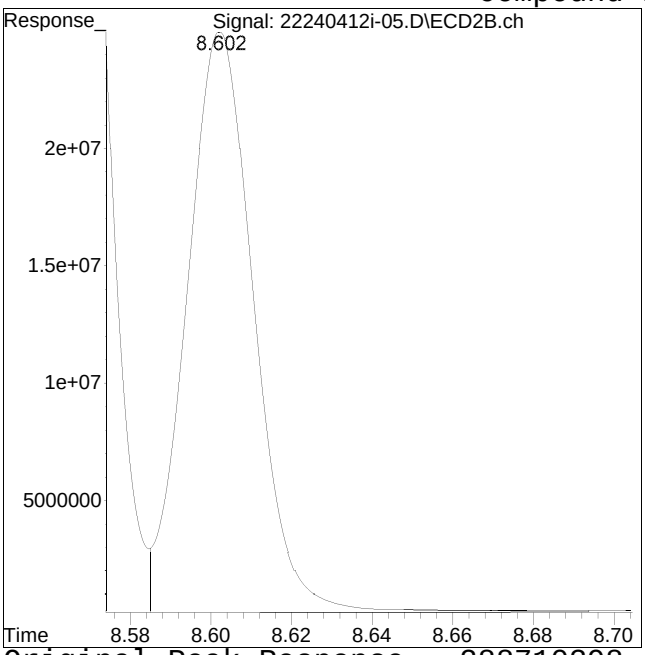


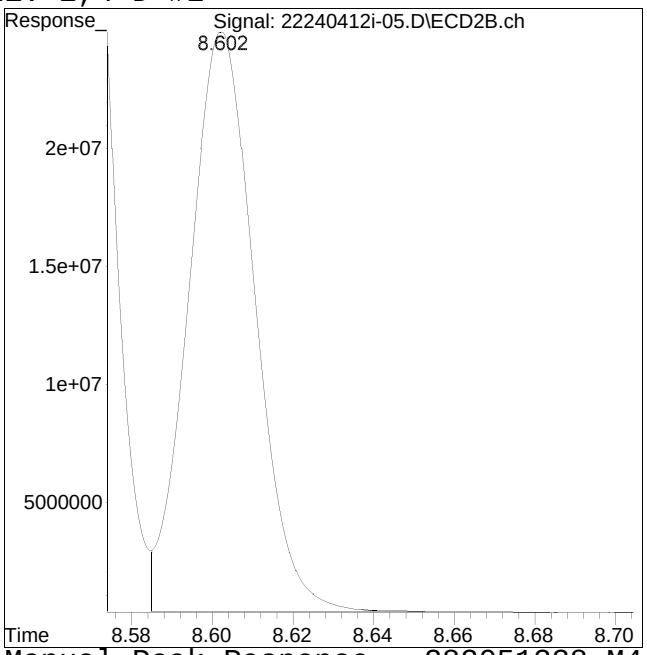
Original Peak Response = 226103181 Manual Peak Response = 225940526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #21: 2,4-D #2



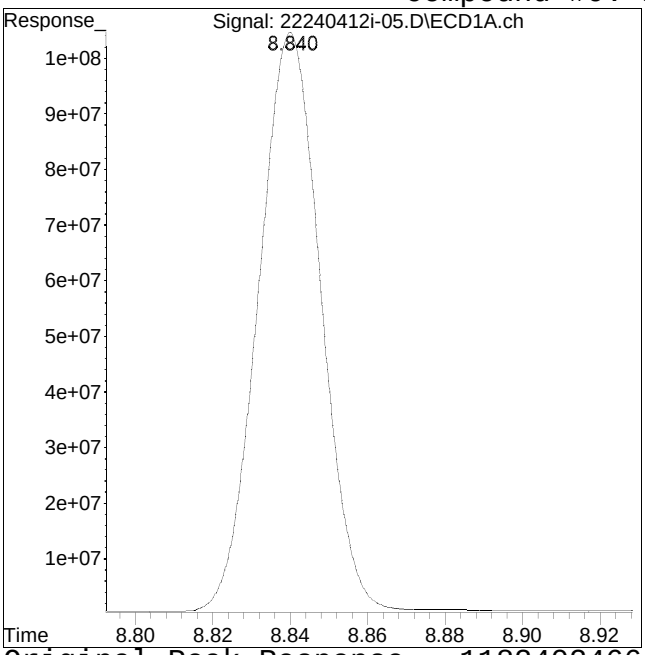


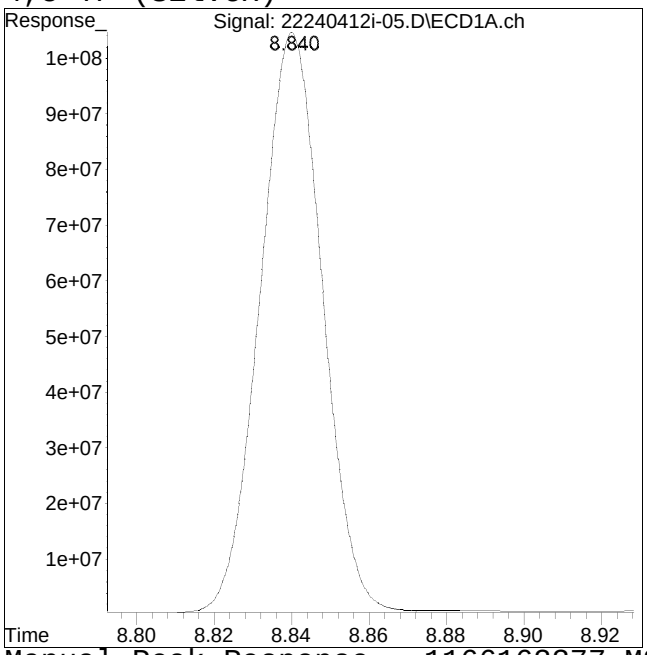
Original Peak Response = 288710398 Manual Peak Response = 282051338 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #9: 2,4,5-TP (Silvex)



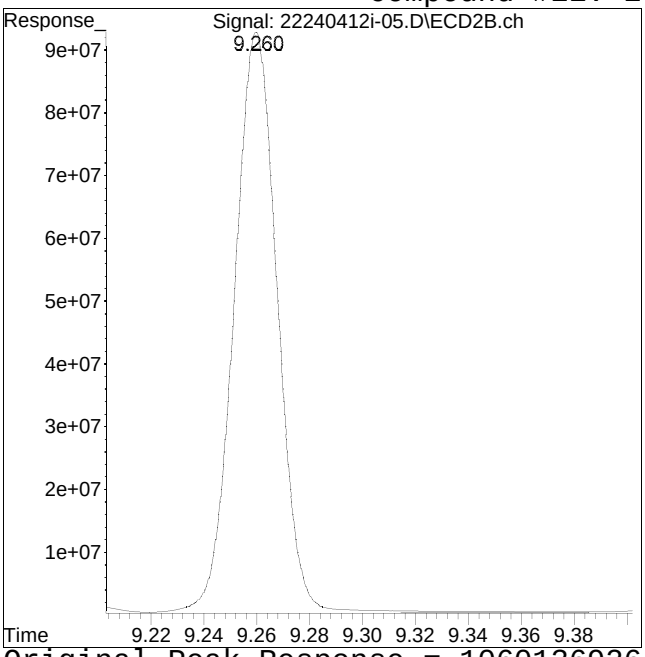


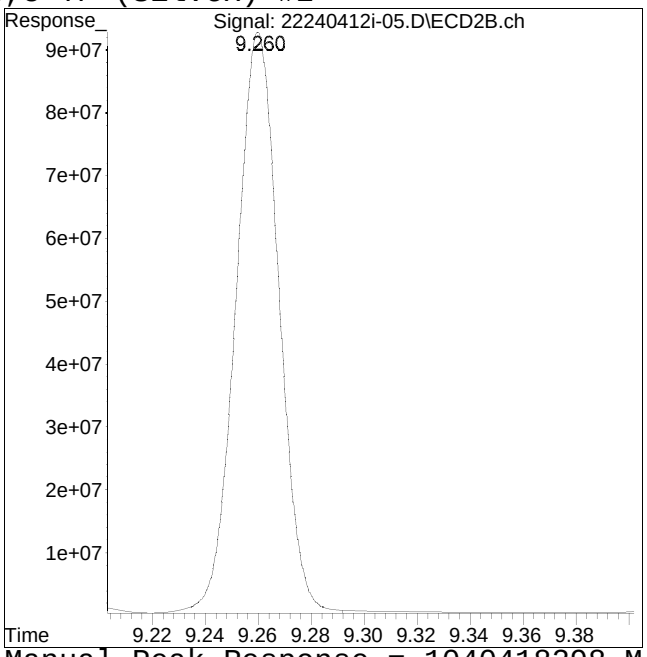
Original Peak Response = 1182402466 Manual Peak Response = 1166163377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #22: 2,4,5-TP (Silvex) #2



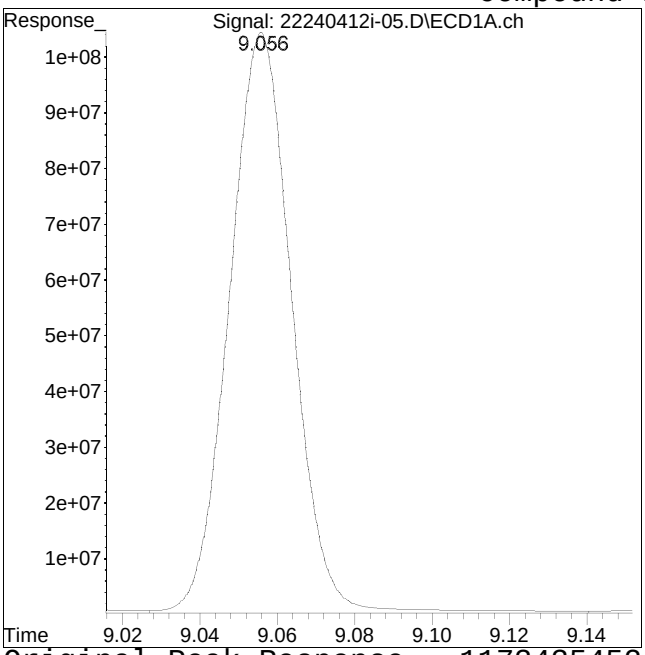


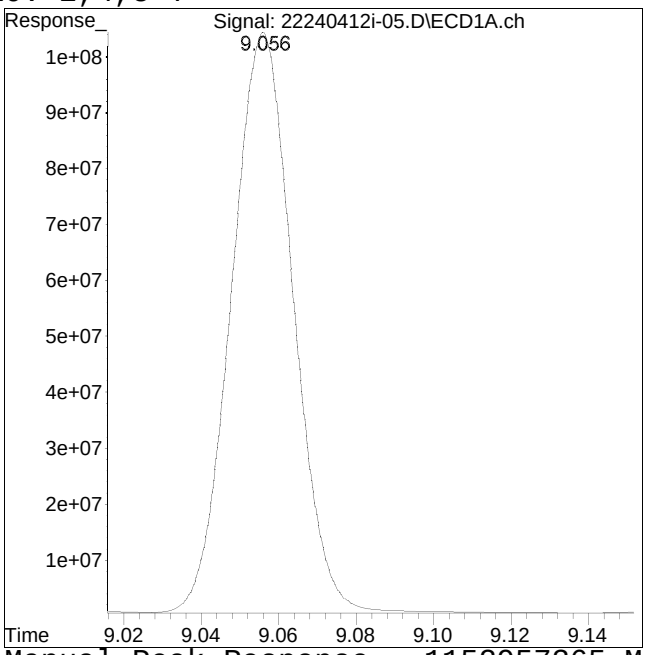
Original Peak Response = 1060136926 Manual Peak Response = 1040418298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #10: 2,4,5-T



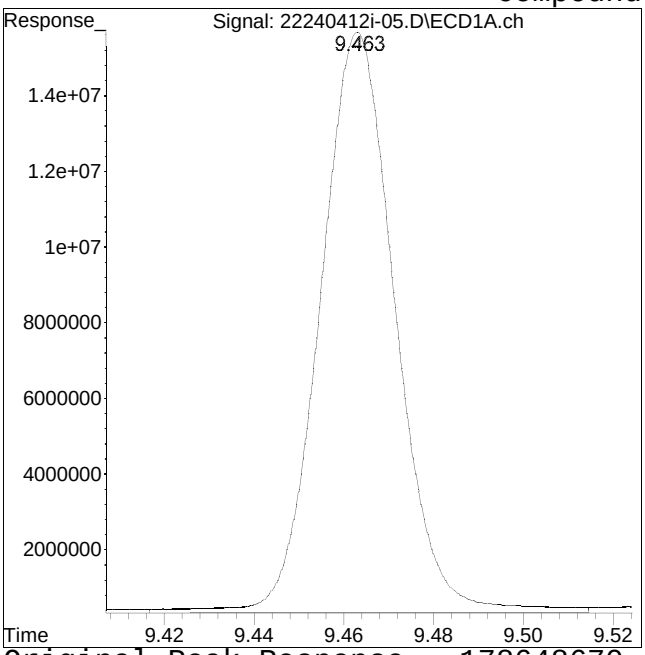


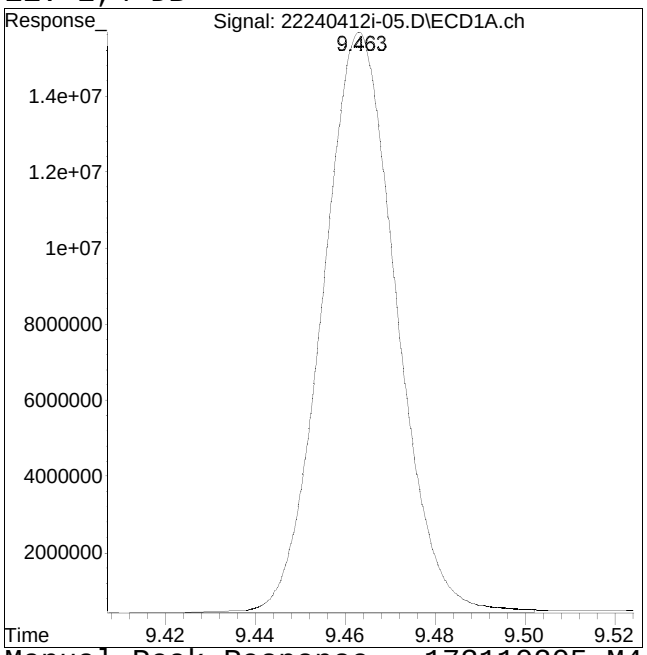
Original Peak Response = 1173435452 Manual Peak Response = 1152957365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #11: 2,4-DB



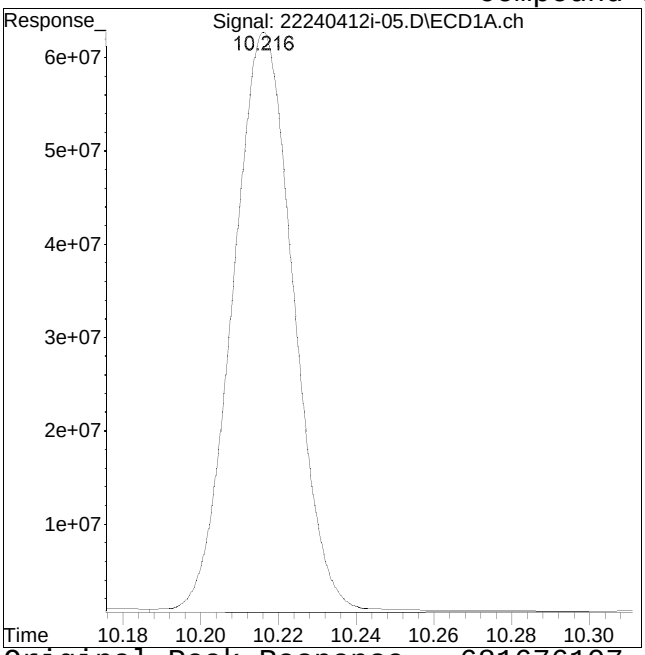


Original Peak Response = 178648670 Manual Peak Response = 173110205 M4
M4 = Poor automated baseline construction.

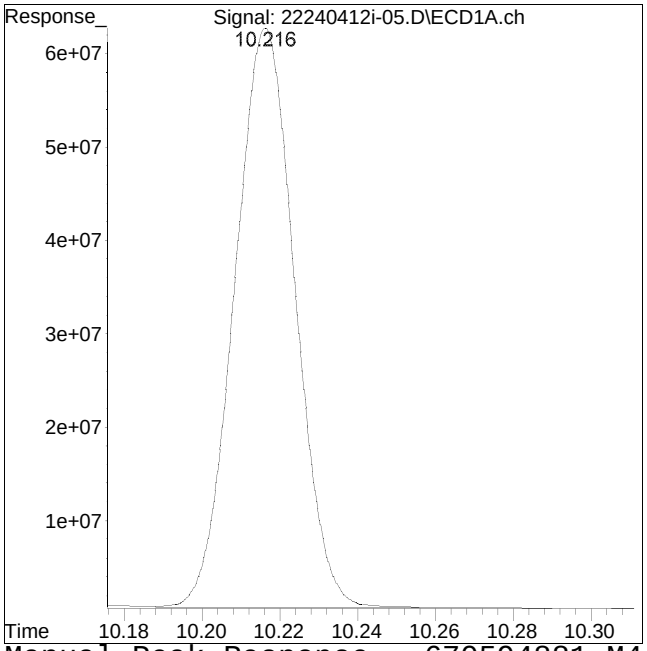
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #12: Dinoseb



Original Peak Response = 681676107

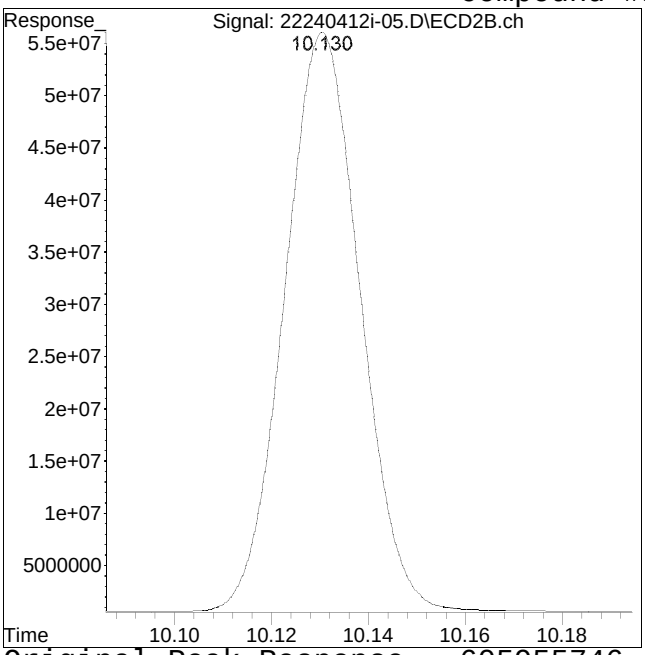


Manual Peak Response = 670594881 M4
M4 = Poor automated baseline construction.

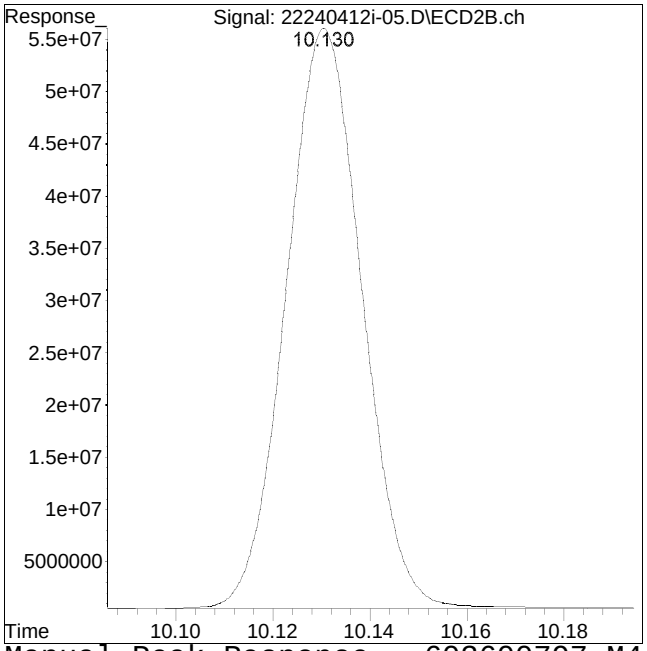
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #25: Dinoseb #2



Original Peak Response = 605955746



Manual Peak Response = 603600797 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	717.1E6	655.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.494	487.7E6	437.6E6	0.822M4	0.836M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	164.40%#	167.20%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	537.5E6	451.2E6	0.887	0.837M4
4)	t	Dicamba	7.212	7.676	1383.9E6	1339.4E6	0.815M4	0.866M4
5)	t	MCPP	7.414	7.788	143.4E6	169.9E6	92.464M4	89.596M3
6)	t	MCPA	7.560	8.014	224.2E6	257.1E6	81.702M4	82.003M4
7)	t	Dichloroprop	7.913	8.329	442.2E6	413.6E6	0.795M4	0.835M4
8)	t	2,4-D	8.121	8.601	567.4E6	527.6E6	0.817M4	0.866M4
9)	t	2,4,5-TP (Si	8.839	9.259	2103.9E6	1931.5E6	0.830M3	0.868M4
10)	t	2,4,5-T	9.055	9.545	2091.7E6	1898.4E6	0.845M4	0.881M4
11)	t	2,4-DB	9.462	9.906	312.1E6	320.4E6	0.825M4	0.885M4
12)	t	Dinoseb	10.216	10.130	1217.6E6	1131.0E6	0.846M4	0.887M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

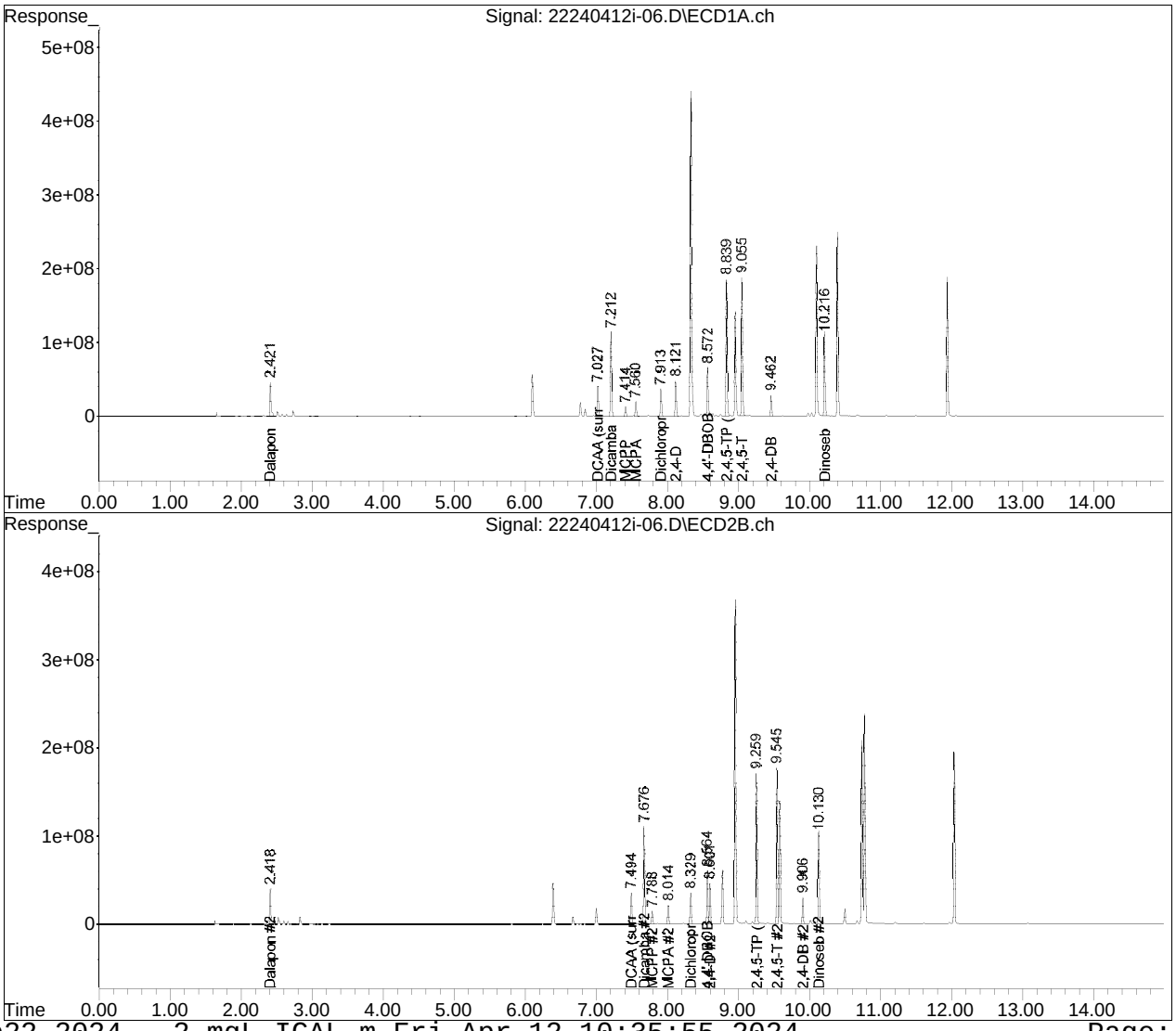
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

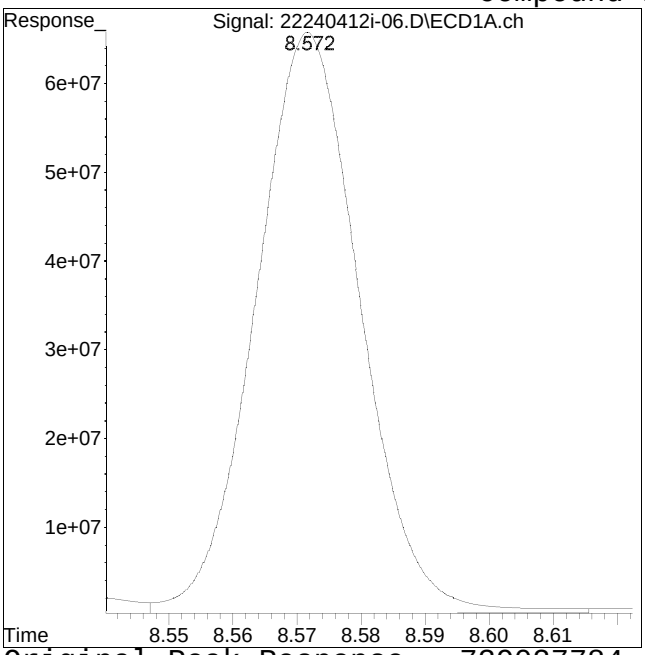
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

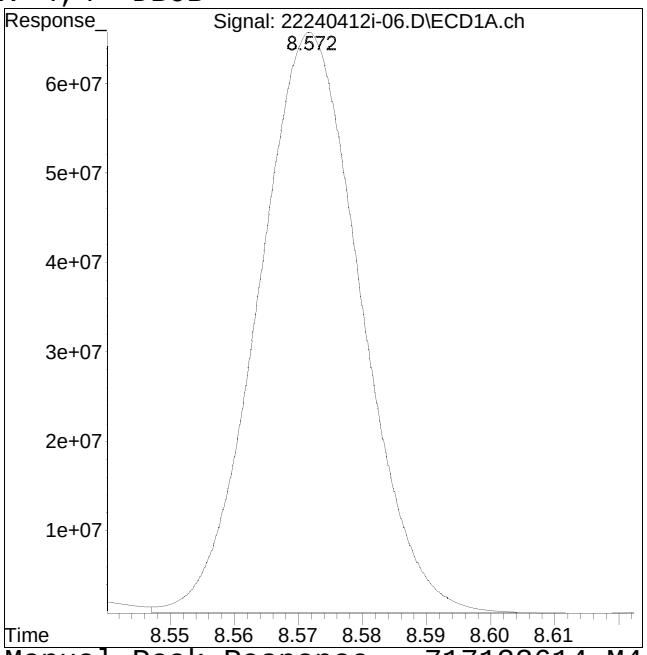


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #1: 4,4'-DBOB



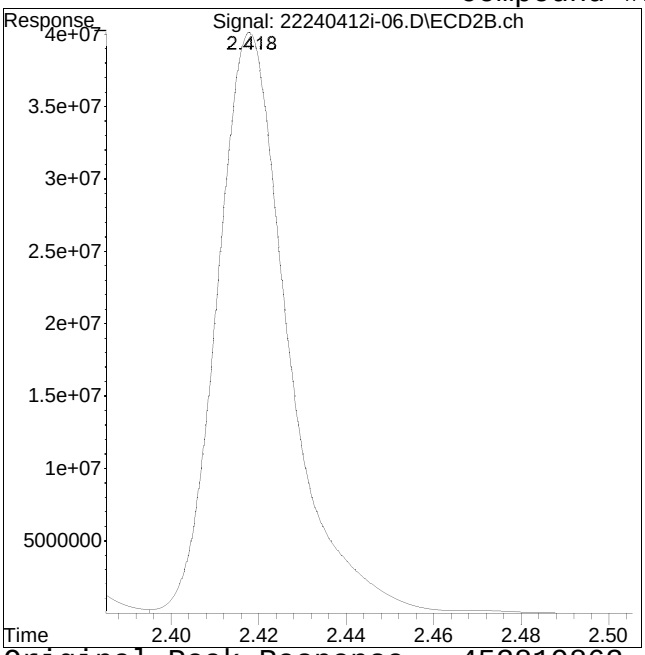


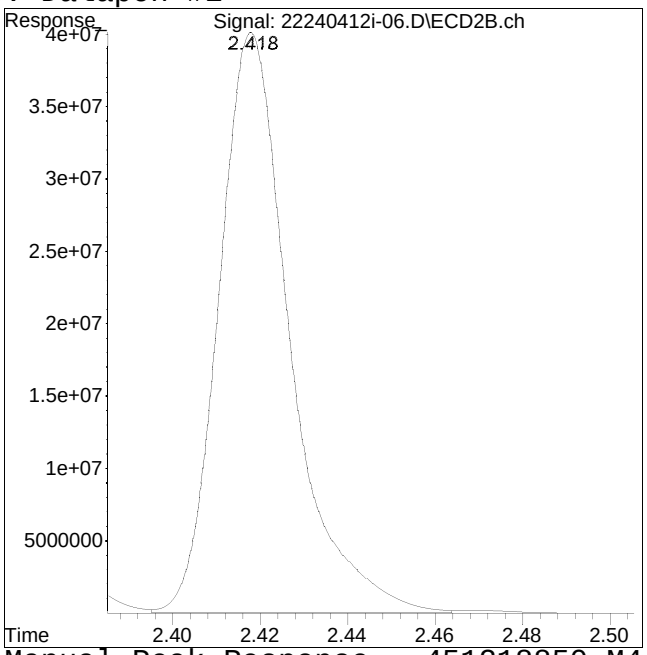
Original Peak Response = 739027784 Manual Peak Response = 717123614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #15: Dalapon #2



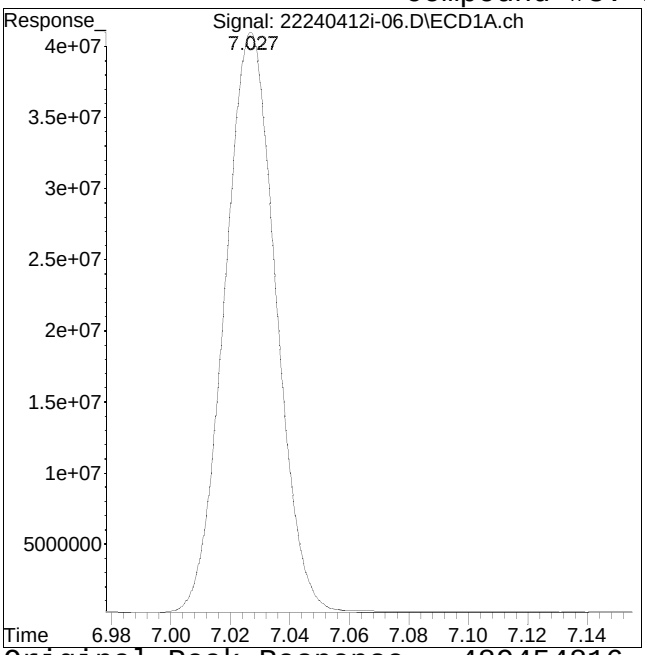


Original Peak Response = 453819863 Manual Peak Response = 451218850 M4
M4 = Poor automated baseline construction.

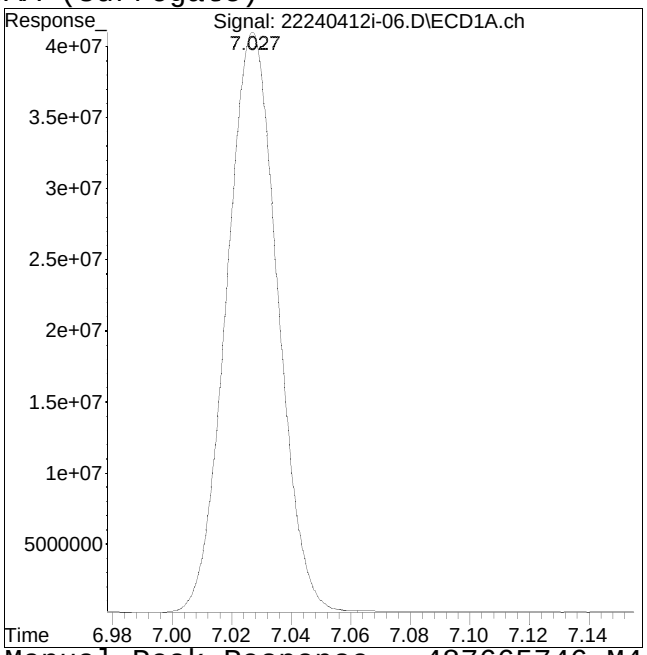
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #3: DCAA (surrogate)



Original Peak Response = 489454816



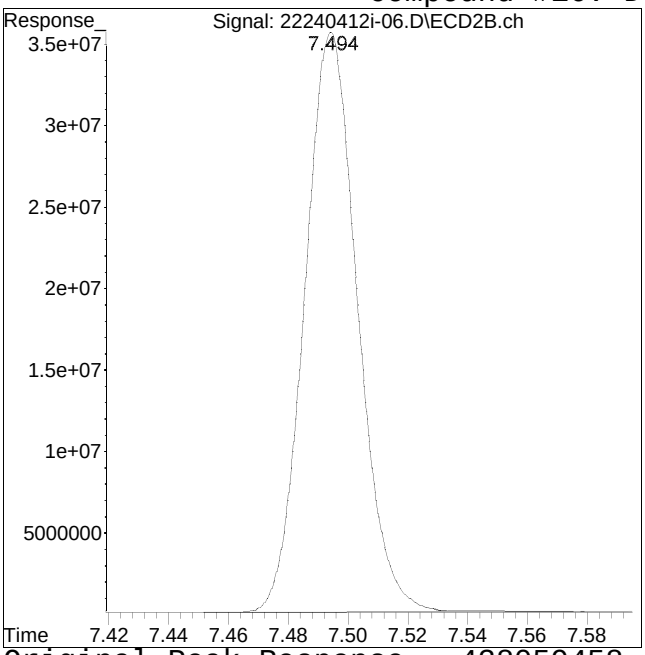
Manual Peak Response = 487665746 M4

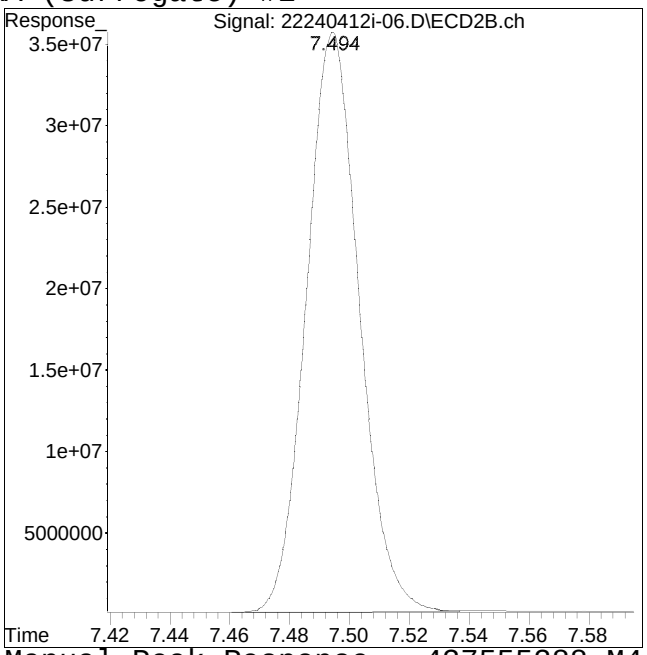
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #16: DCAA (surrogate) #2



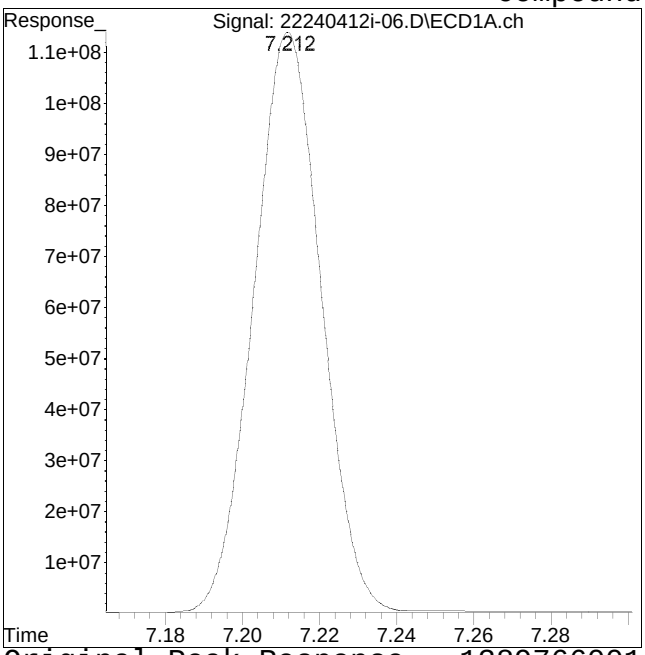


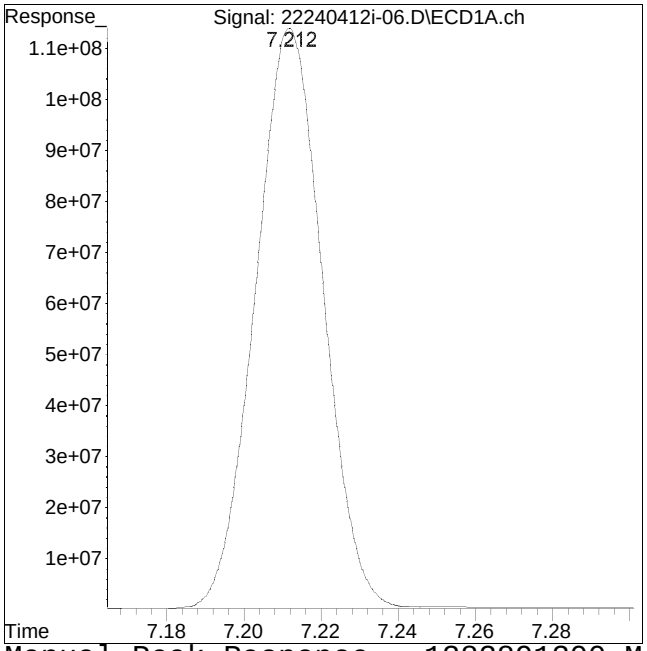
Original Peak Response = 438059458 Manual Peak Response = 437555388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #4: Dicamba



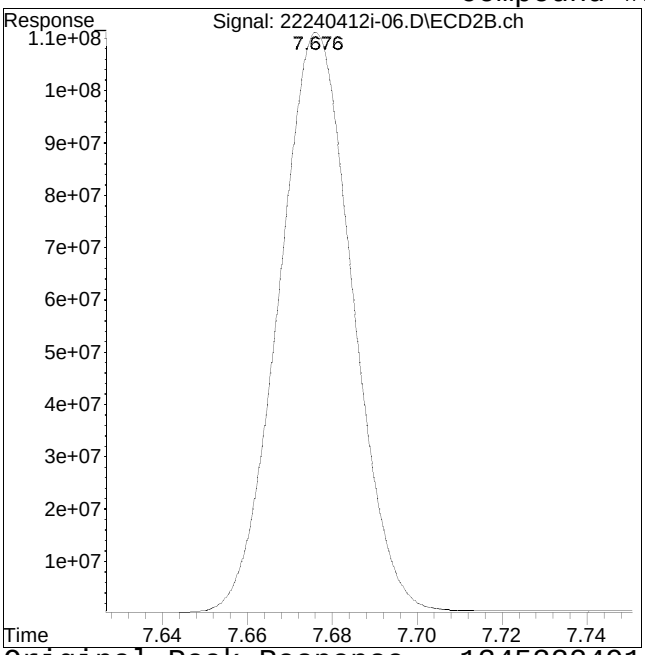


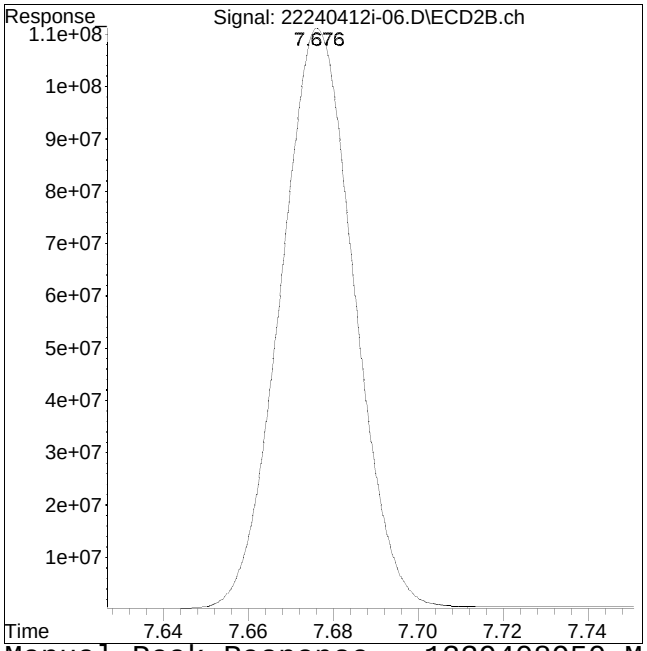
Original Peak Response = 1389766001 Manual Peak Response = 1383891300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #17: Dicamba #2



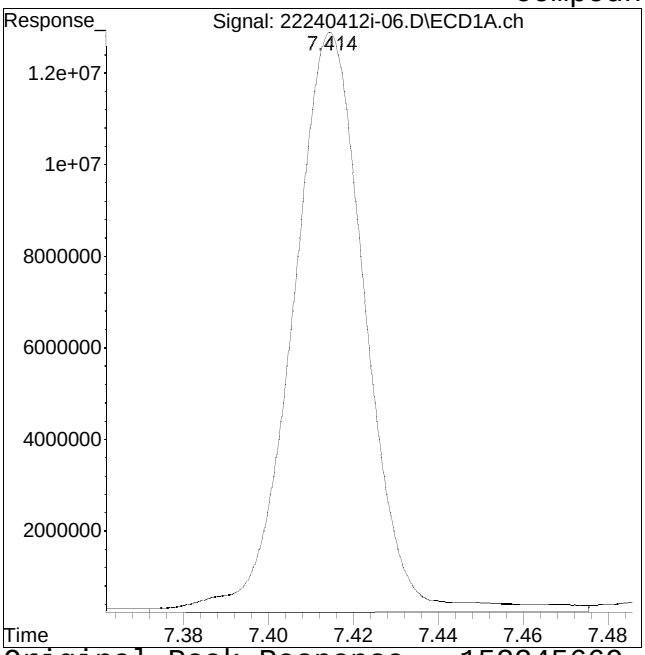


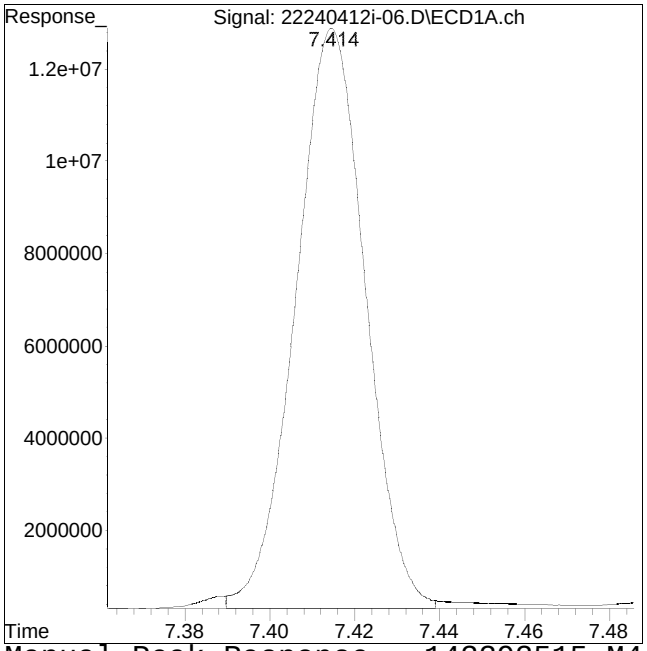
Original Peak Response = 1345322491 Manual Peak Response = 1339408950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #5: MCPP



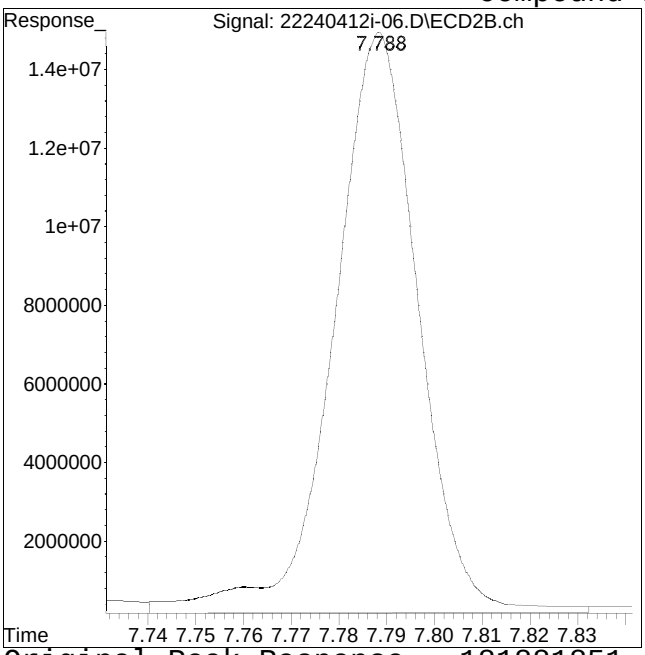


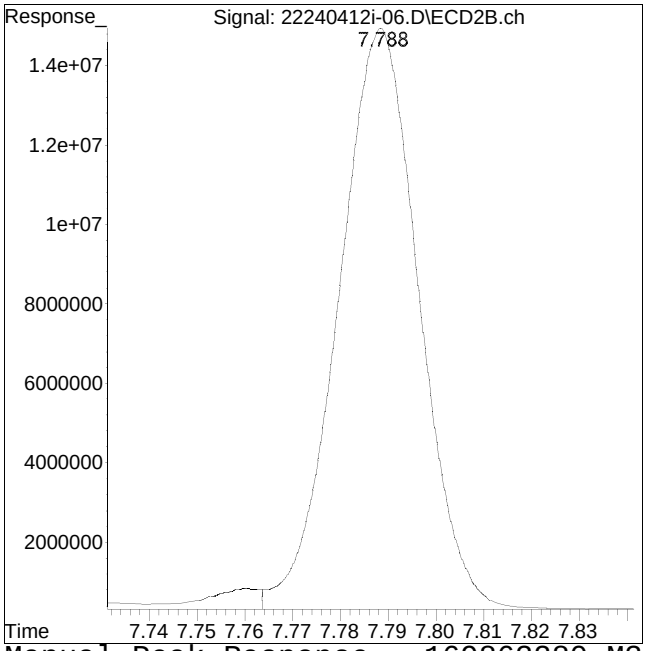
Original Peak Response = 152245669 Manual Peak Response = 143393515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #18: MCPP #2



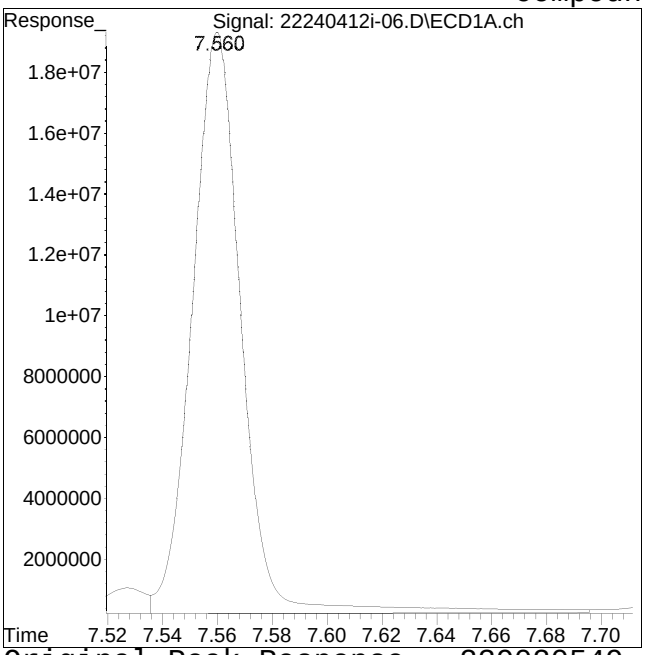


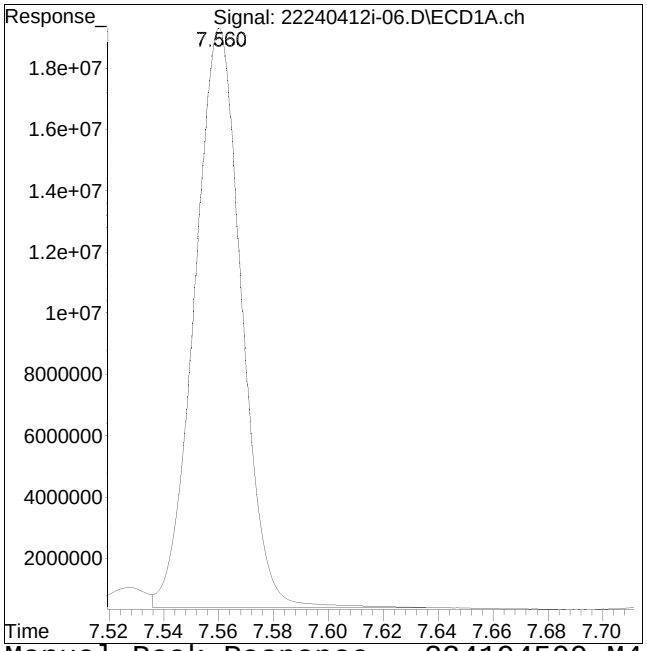
Original Peak Response = 181881851 Manual Peak Response = 169863280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #6: MCPA



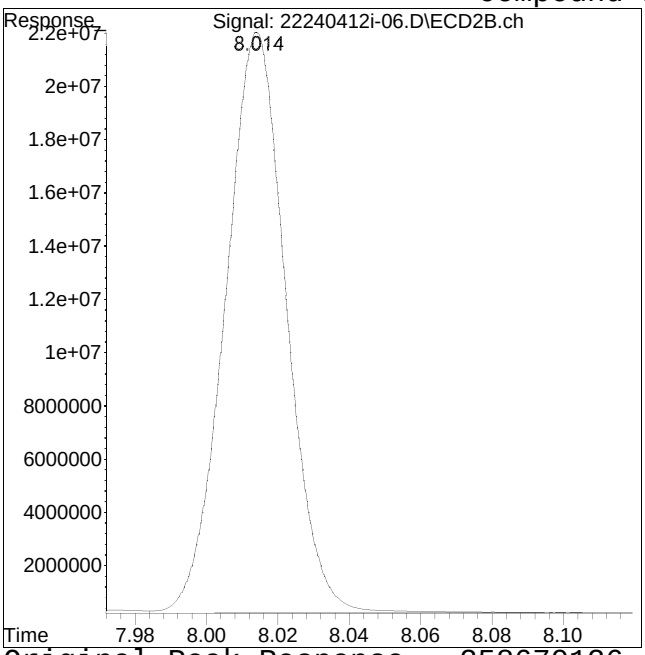


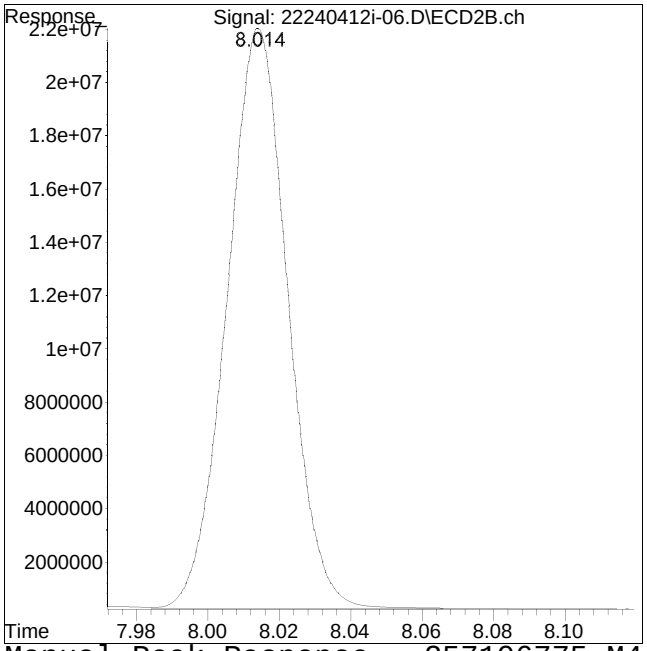
Original Peak Response = 239020549 Manual Peak Response = 224194500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #19: MCPA #2



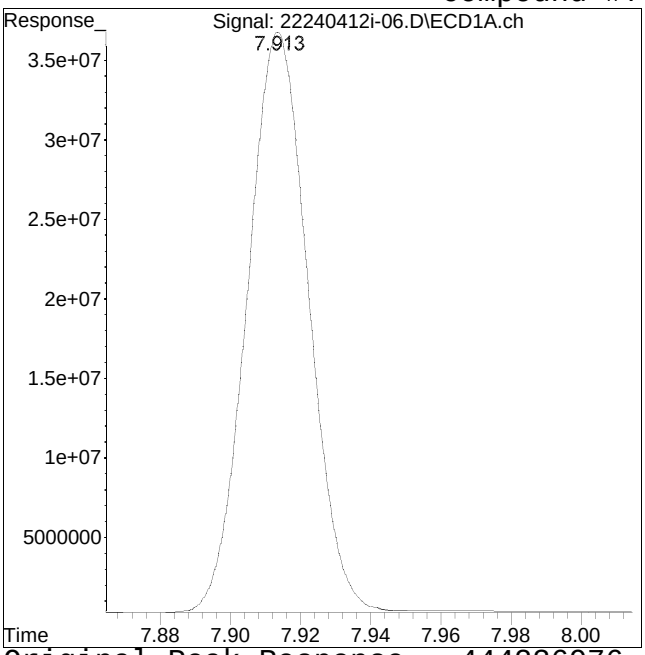


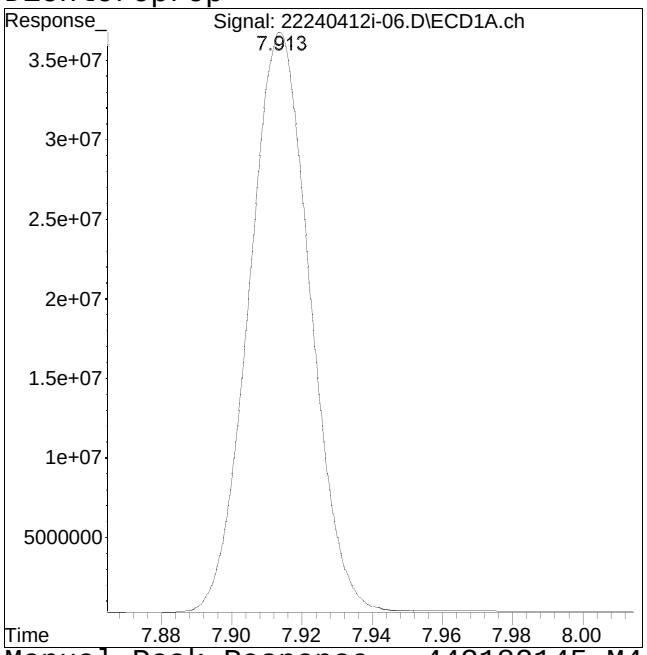
Original Peak Response = 258670126 Manual Peak Response = 257106775 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #7: Dichloroprop



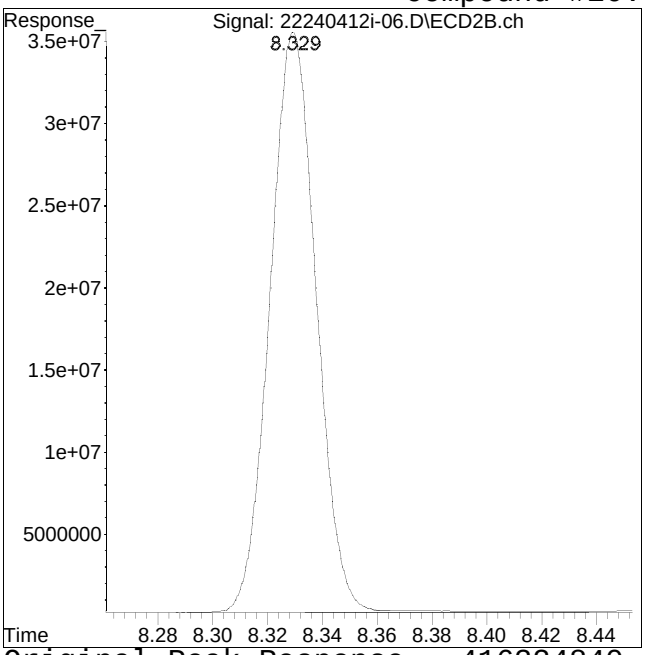


Original Peak Response = 444236976 Manual Peak Response = 442182145 M4
M4 = Poor automated baseline construction.

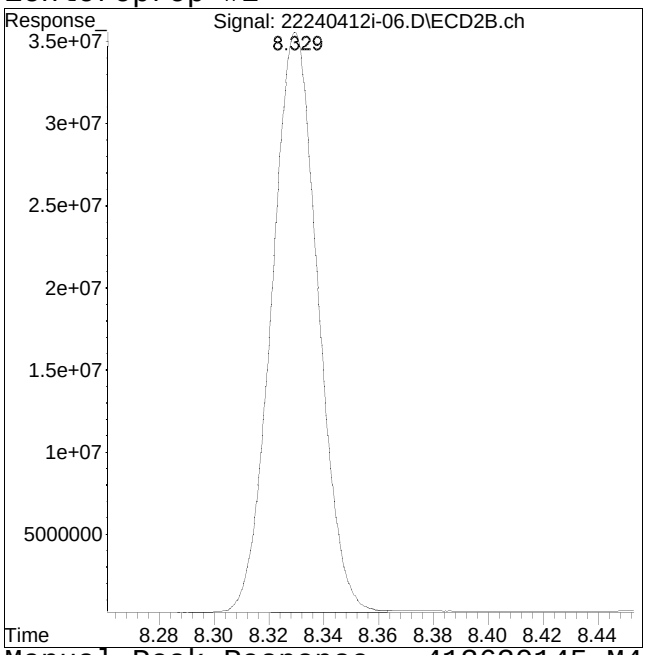
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #20: Dichloroprop #2



Original Peak Response = 416324840

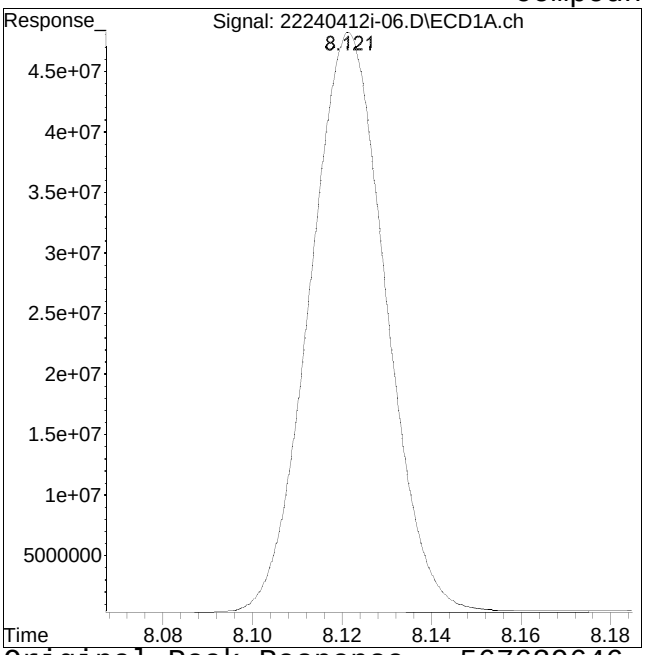


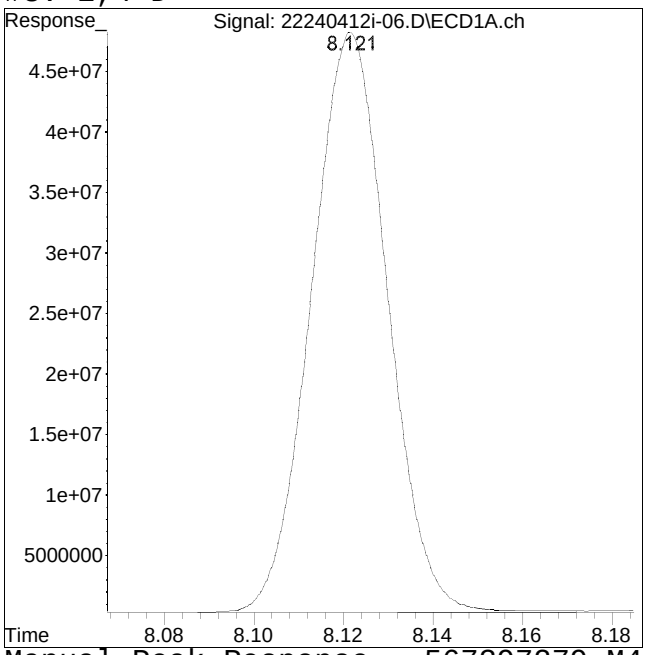
Manual Peak Response = 413630145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #8: 2,4-D



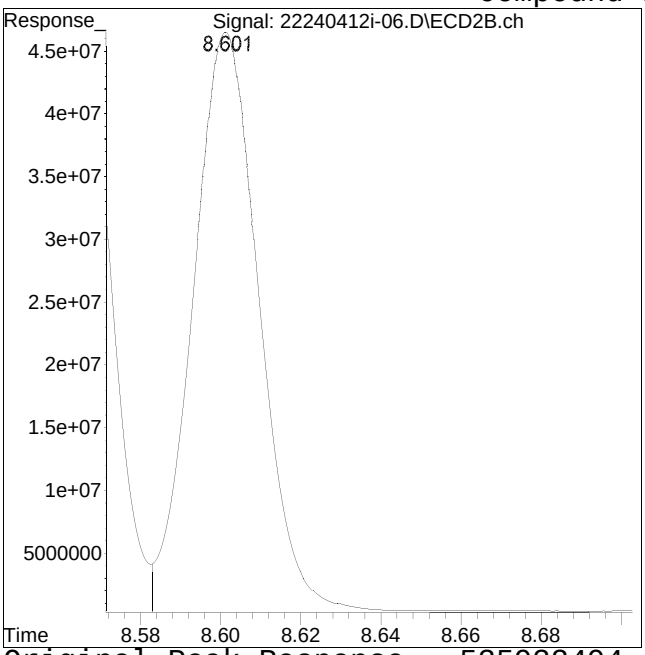


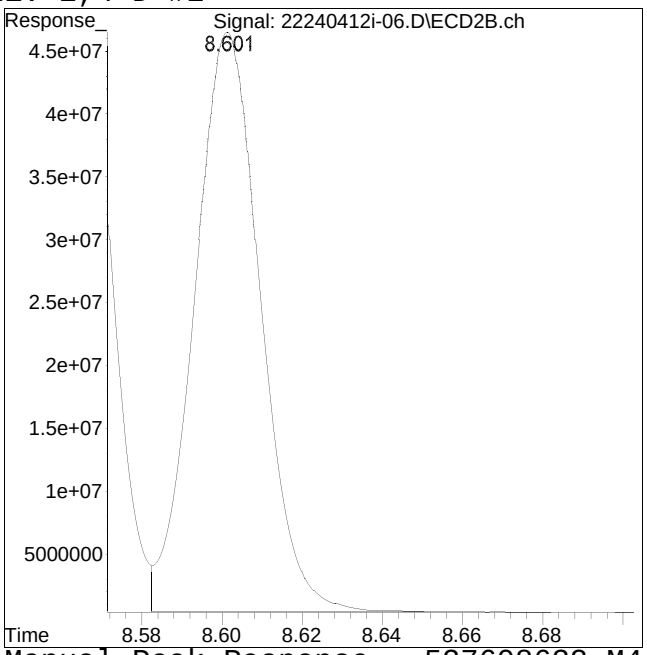
Original Peak Response = 567639646 Manual Peak Response = 567397279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #21: 2,4-D #2



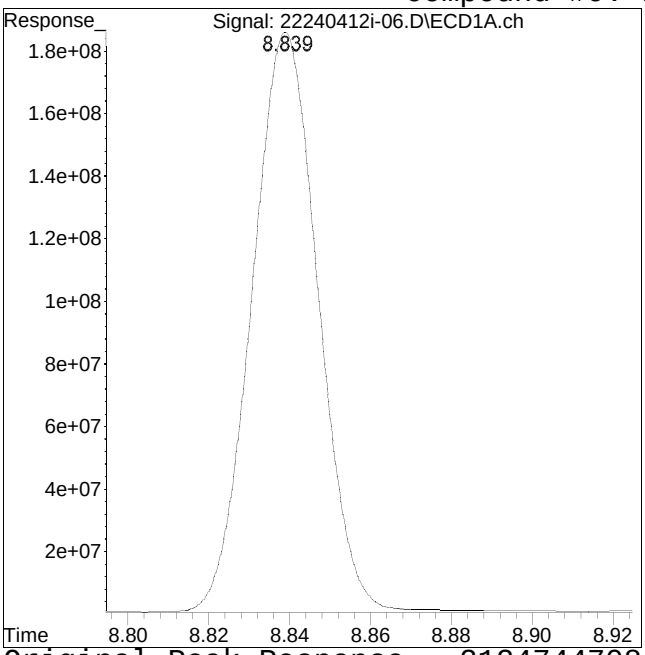


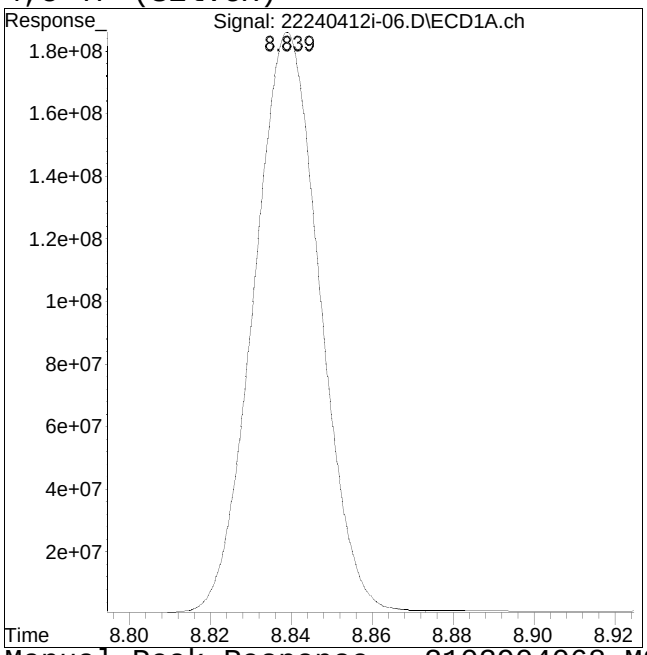
Original Peak Response = 535932494 Manual Peak Response = 527608632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #9: 2,4,5-TP (Silvex)



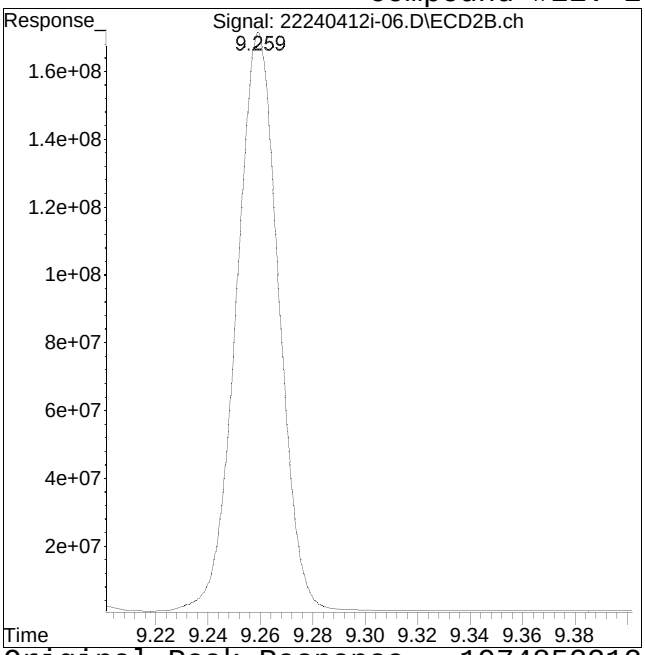


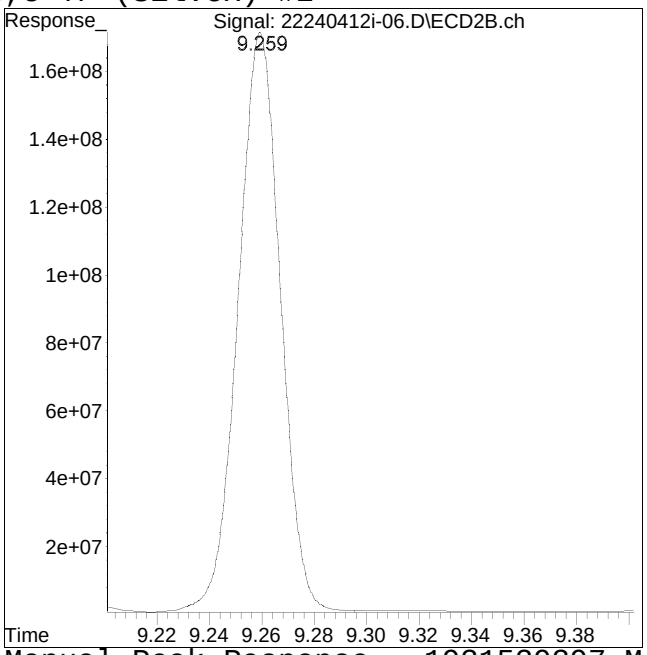
Original Peak Response = 2124744708 Manual Peak Response = 2103904068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #22: 2,4,5-TP (Silvex) #2



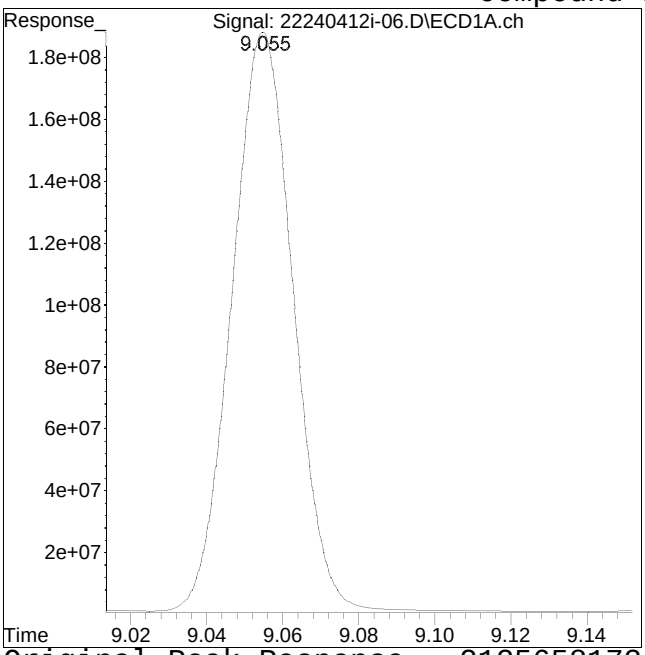


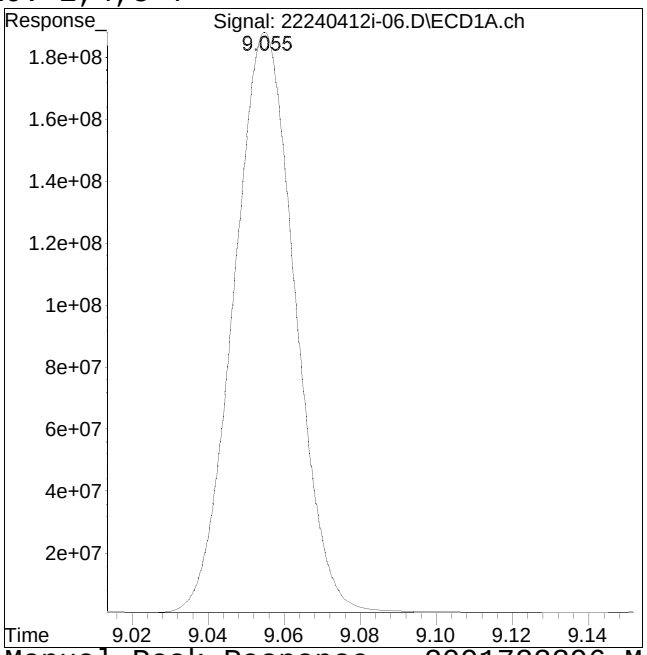
Original Peak Response = 1974852212 Manual Peak Response = 1931539397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #10: 2,4,5-T



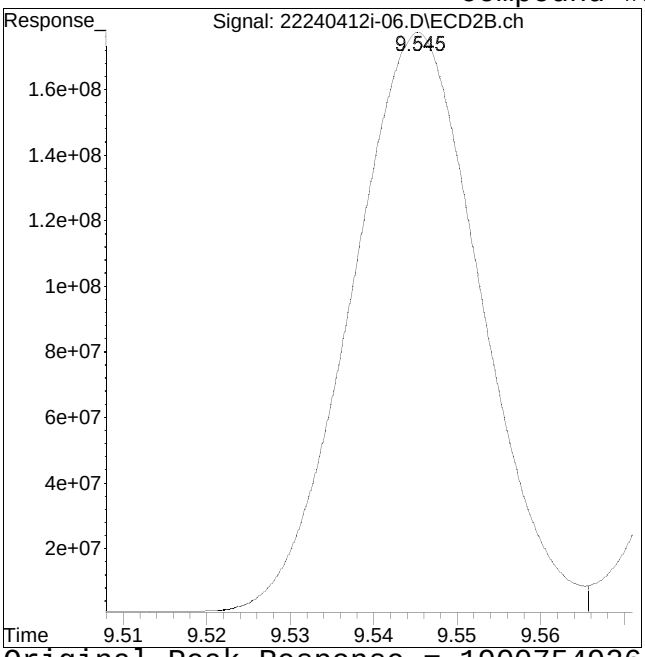


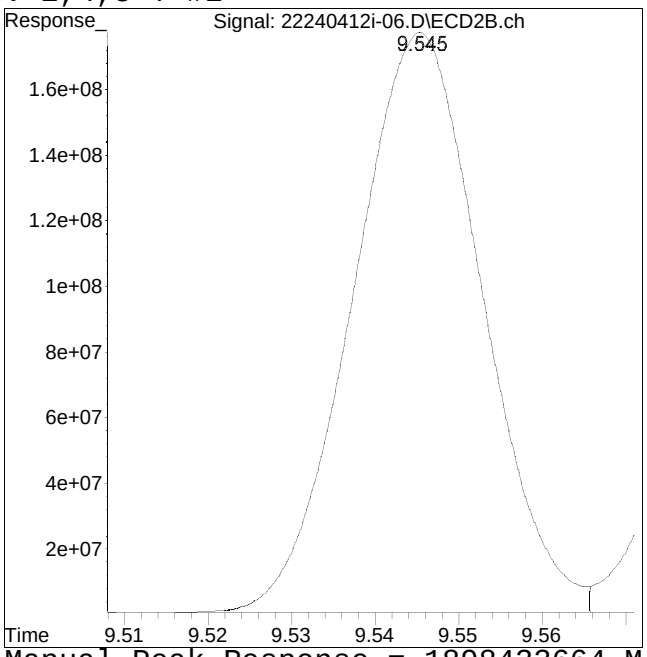
Original Peak Response = 2125658173 Manual Peak Response = 2091723396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #23: 2,4,5-T #2



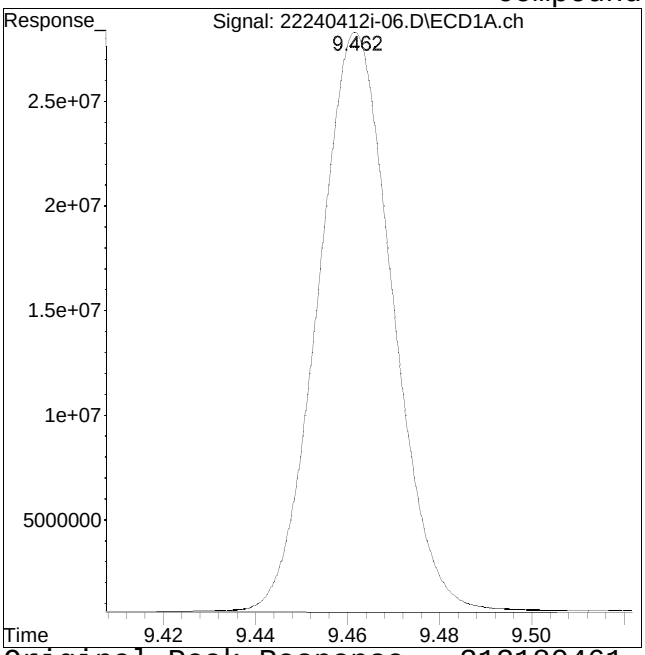


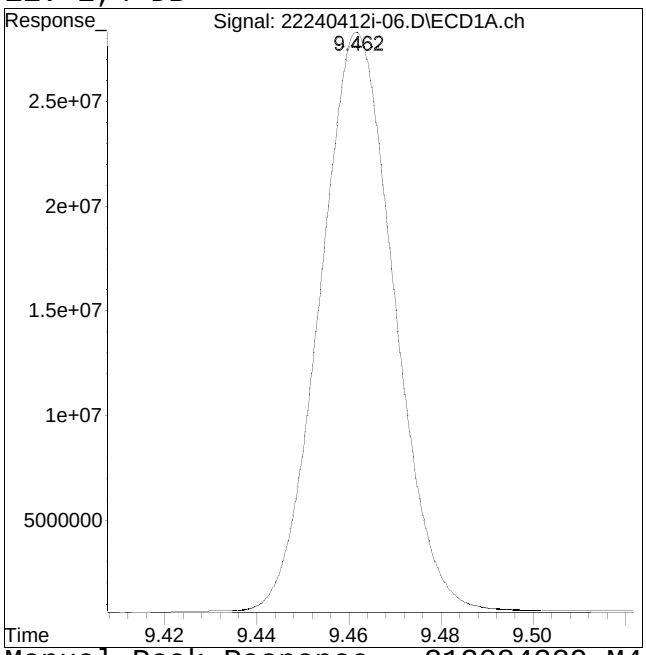
Original Peak Response = 1900754926 Manual Peak Response = 1898433664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #11: 2,4-DB



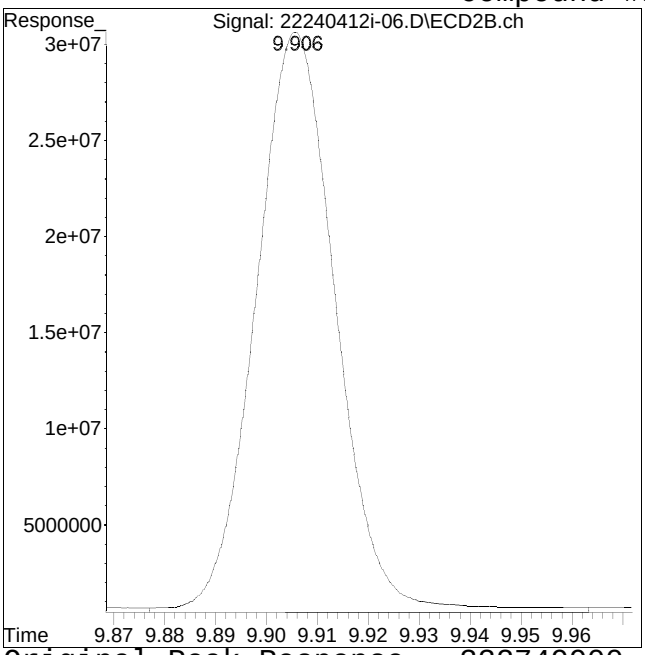


Original Peak Response = 313180461 Manual Peak Response = 312084329 M4
M4 = Poor automated baseline construction.

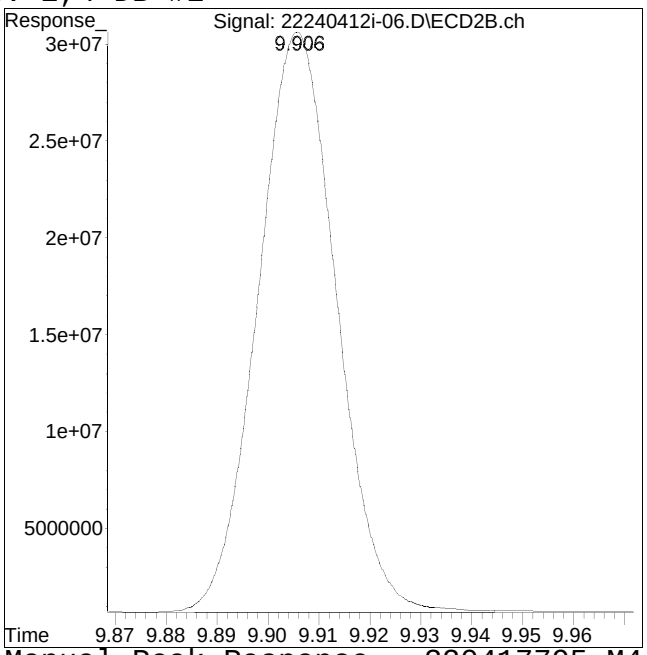
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #24: 2,4-DB #2



Original Peak Response = 332749900



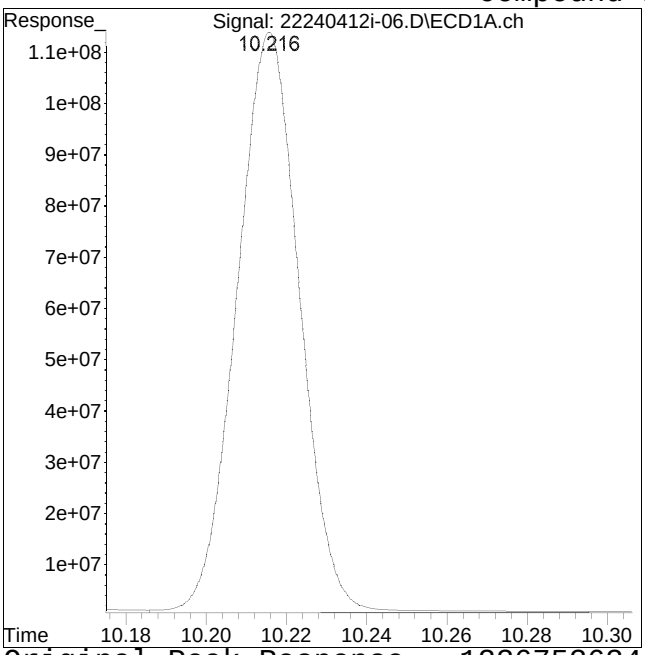
Manual Peak Response = 320417795 M4

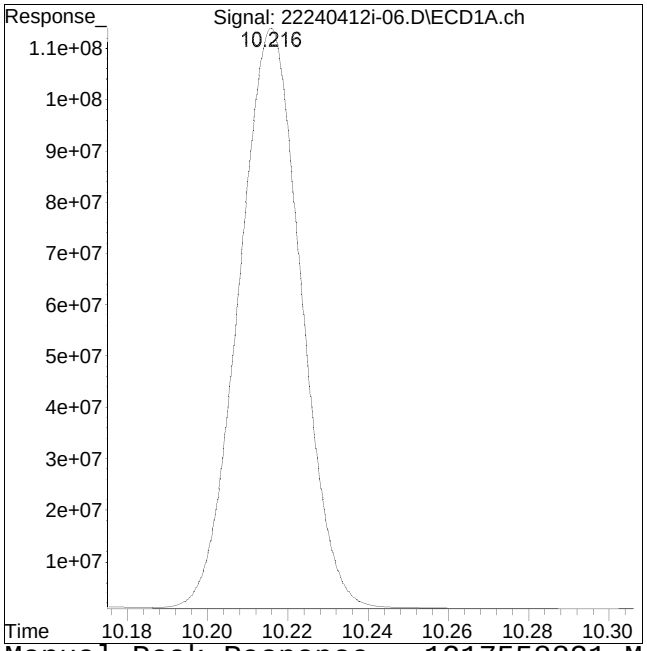
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #12: Dinoseb



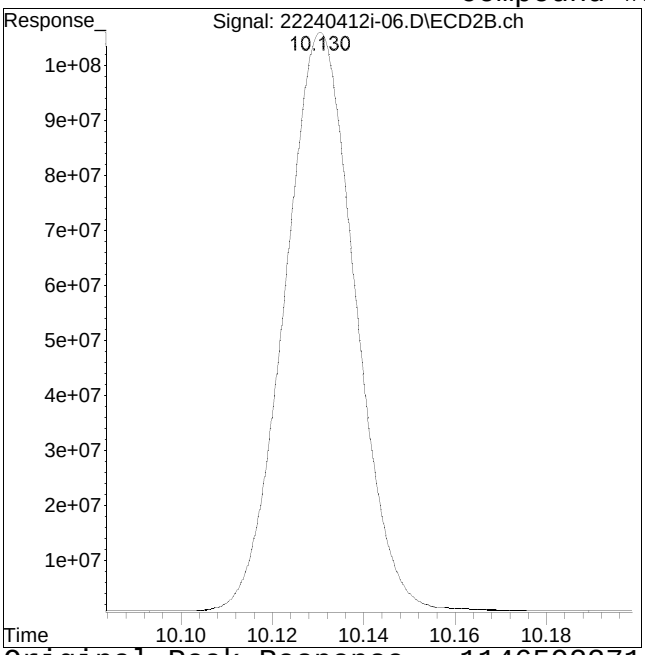


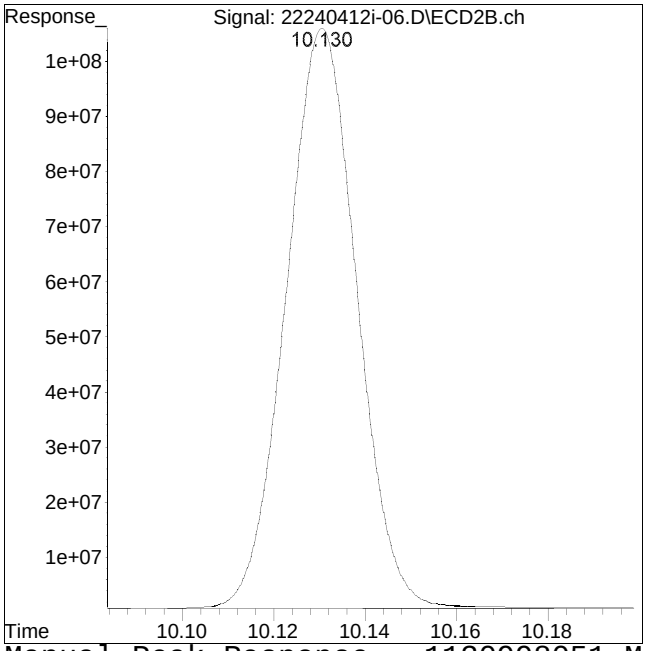
Original Peak Response = 1236753634 Manual Peak Response = 1217558831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #25: Dinoseb #2





Original Peak Response = 1146592271 Manual Peak Response = 1130998051 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.565	727.2E6	646.4E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	890.2E6	822.4E6	1.545M4	1.653M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	309.00%#	330.60%#
		Target Compounds						
2)	t	Dalapon	2.423	2.420	988.0E6	866.5E6	1.622	1.674
4)	t	Dicamba	7.212	7.677	2594.0E6	2566.6E6	1.577M4	1.727M4
5)	t	MCPP	7.416	7.791	282.9E6	337.2E6	180.867M4	183.135M3
6)	t	MCPA	7.563	8.017	429.9E6	493.6E6	161.013M4	166.099
7)	t	Dichloroprop	7.914	8.331	805.8E6	781.8E6	1.506M4	1.661M4
8)	t	2,4-D	8.121	8.602	1052.5E6	1016.8E6	1.562M4	1.737M4
9)	t	2,4,5-TP (Si	8.840	9.260	3962.8E6	3771.2E6	1.610M4	1.768M4
10)	t	2,4,5-T	9.056	9.547	4017.3E6	3728.1E6	1.662M4	1.797M4
11)	t	2,4-DB	9.462	9.907	591.1E6	625.5E6	1.617M4	1.797M4
12)	t	Dinoseb	10.216	10.132	2340.9E6	2234.9E6	1.665M4	1.817M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

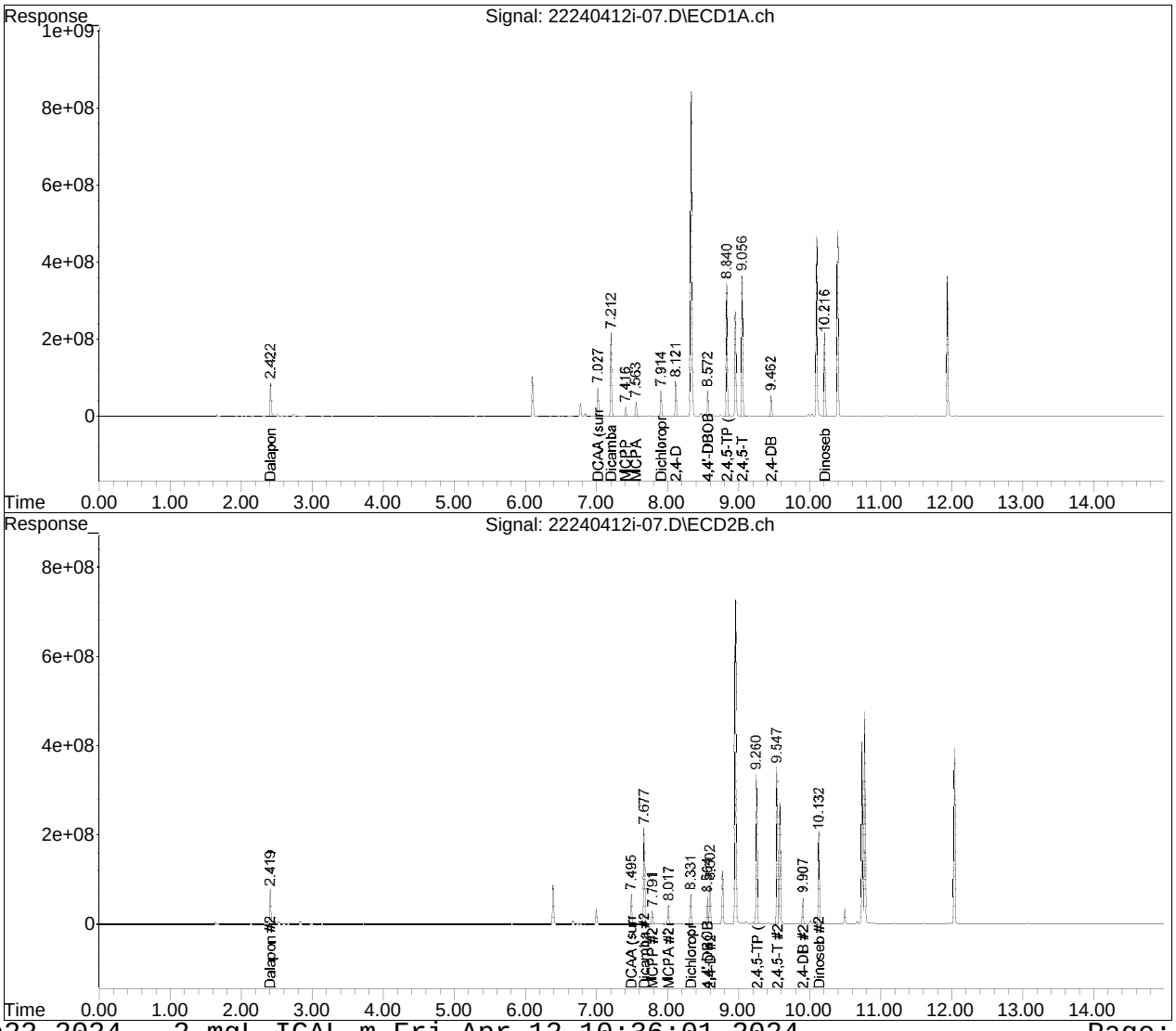
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

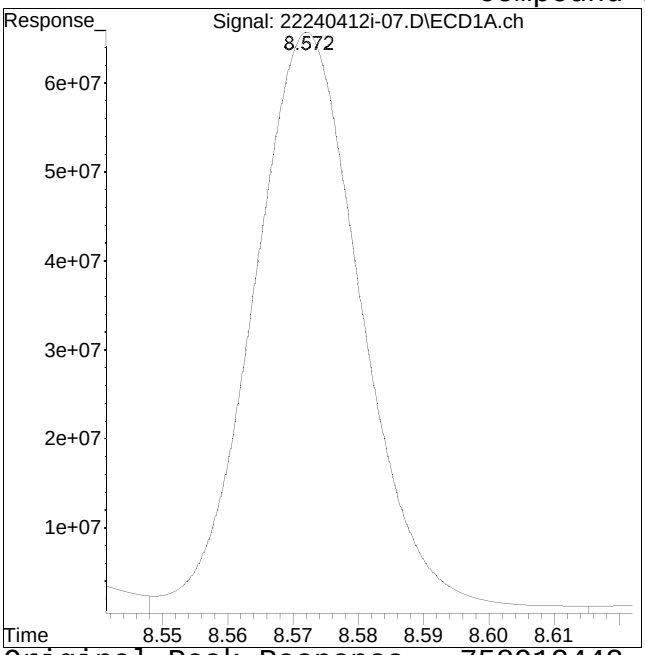
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

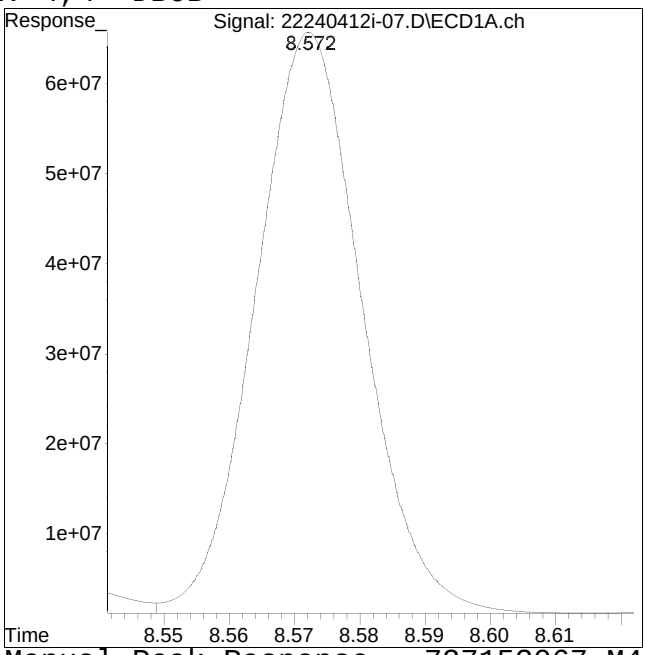


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #1: 4,4'-DBOB



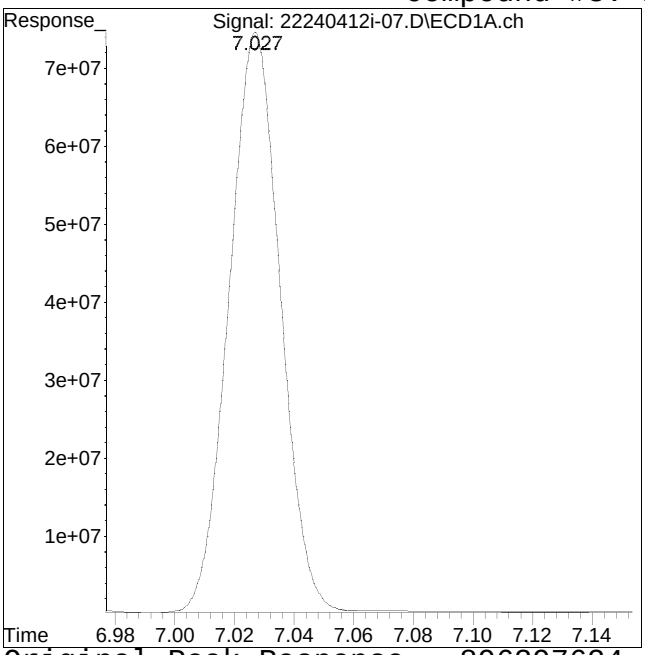


Original Peak Response = 758912442 Manual Peak Response = 727153067 M4
M4 = Poor automated baseline construction.

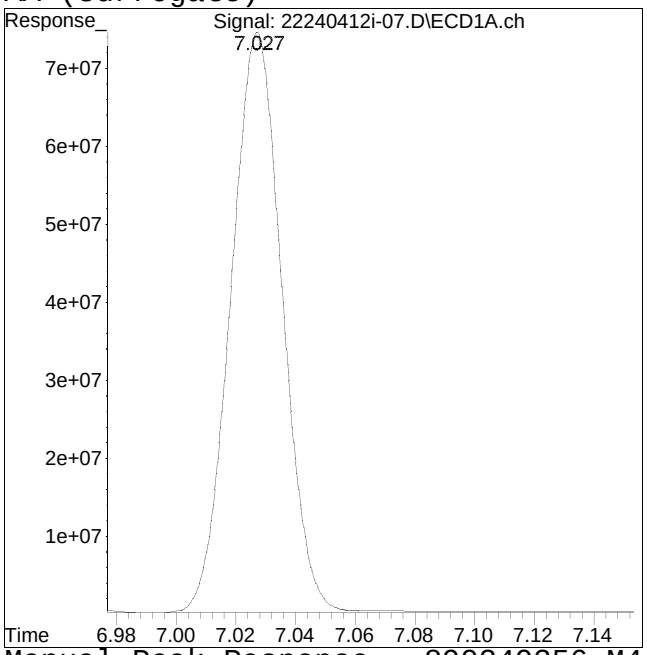
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #3: DCAA (surrogate)



Original Peak Response = 896397624

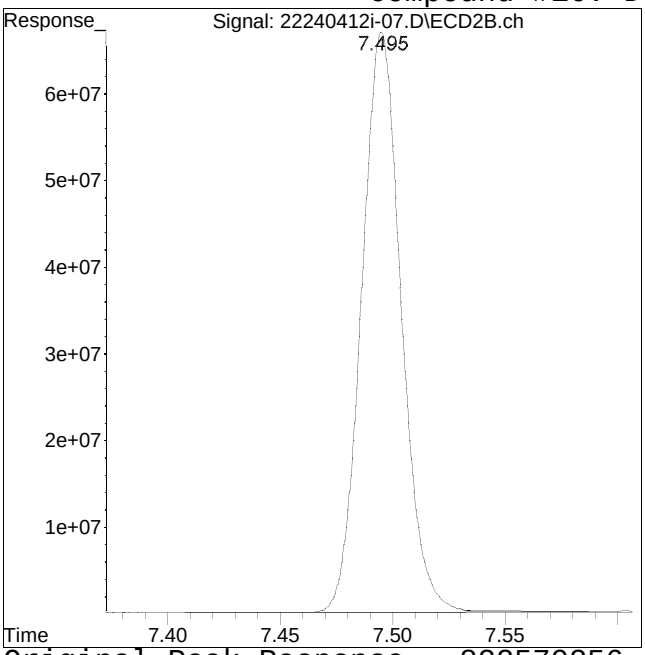


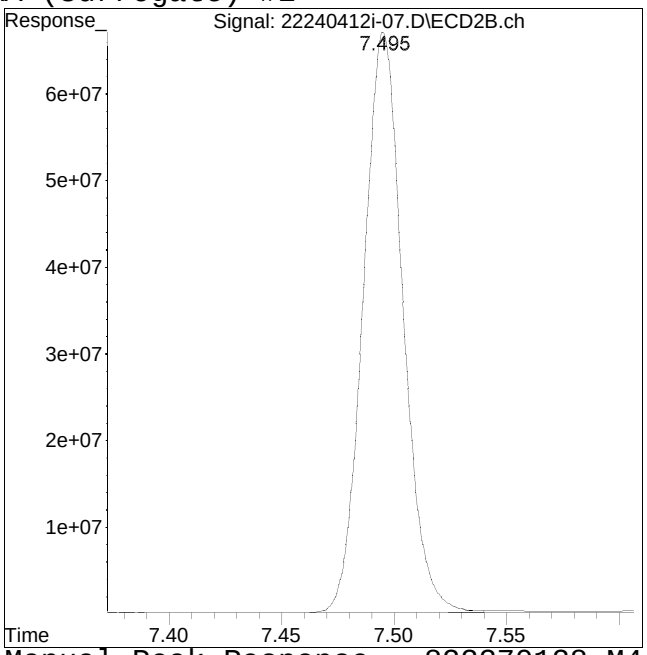
Manual Peak Response = 890249356 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #16: DCAA (surrogate) #2



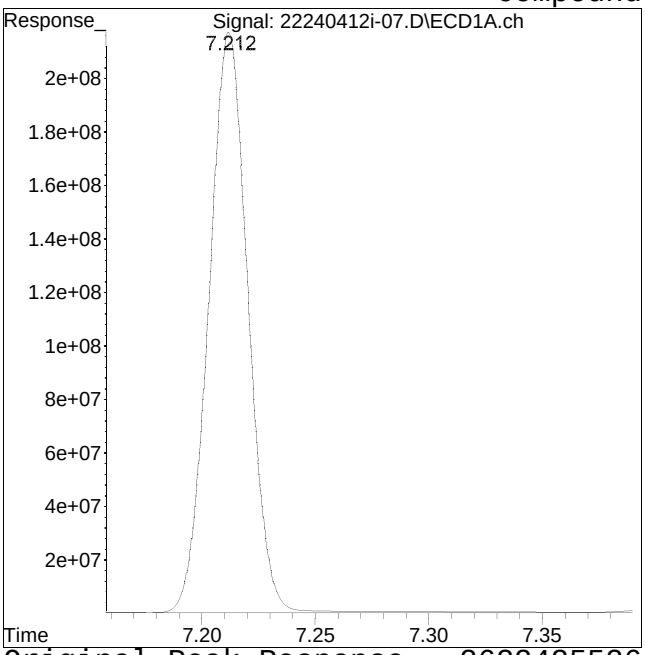


Original Peak Response = 822570256 Manual Peak Response = 822370128 M4
M4 = Poor automated baseline construction.

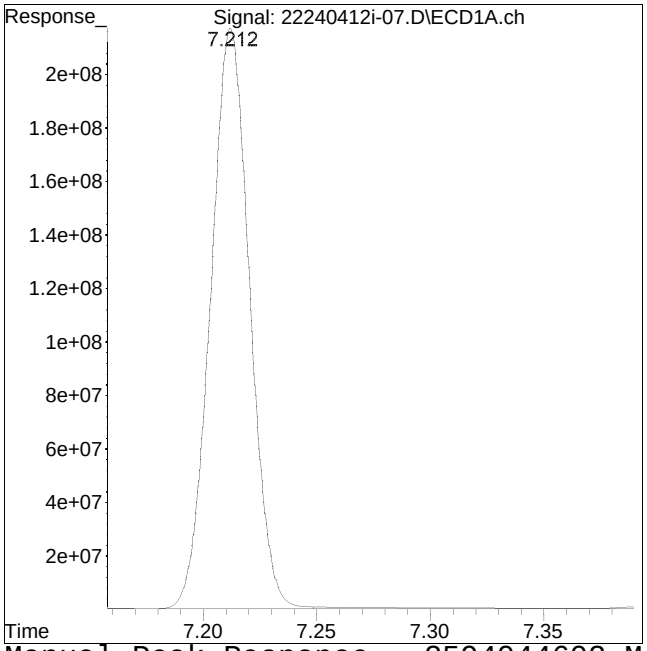
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #4: Dicamba



Original Peak Response = 2622425526



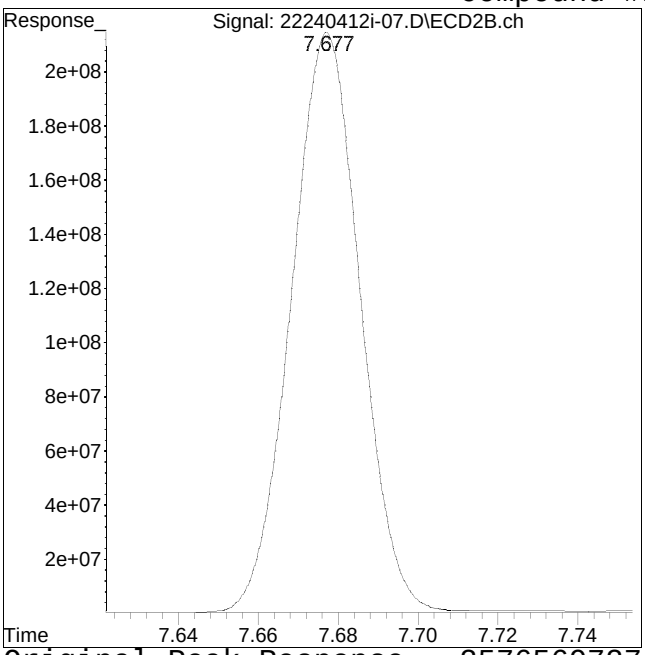
Manual Peak Response = 2594044602 M4

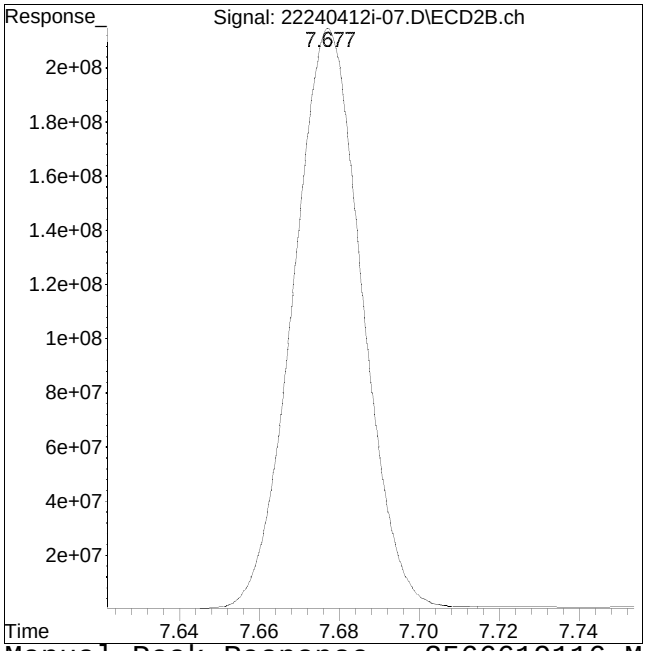
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #17: Dicamba #2



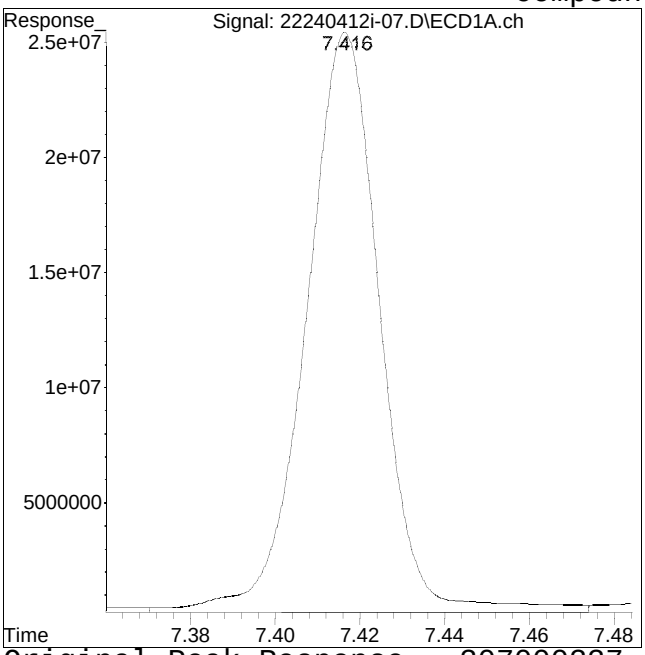


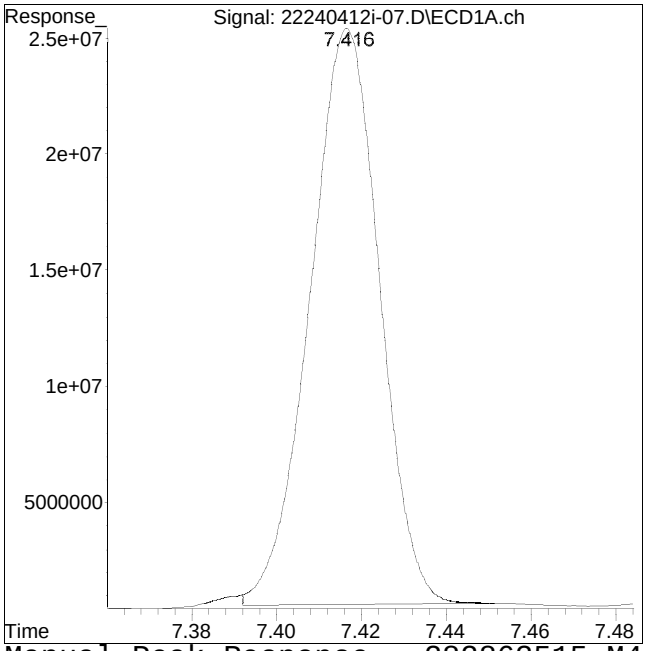
Original Peak Response = 2576569727 Manual Peak Response = 2566619116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #5: MCPP



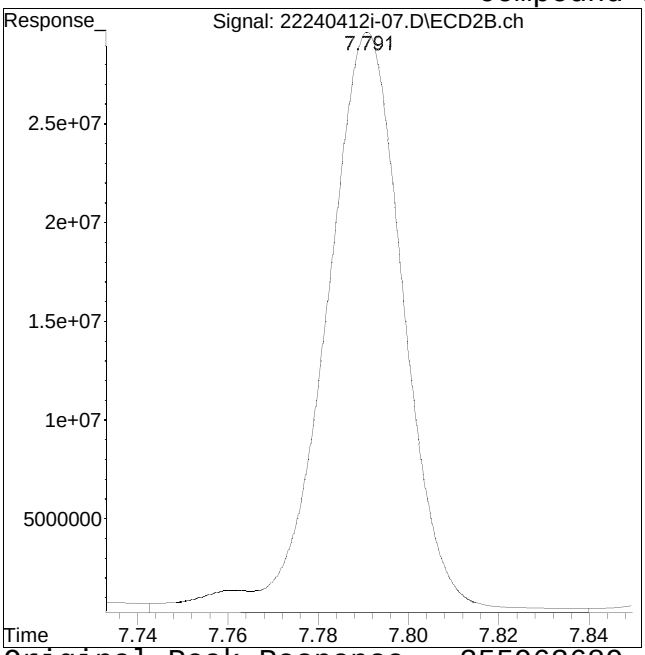


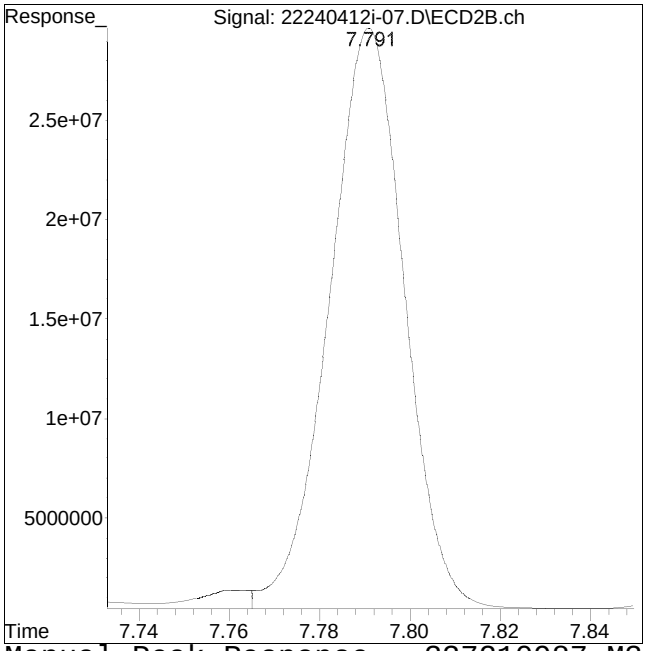
Original Peak Response = 307000337 Manual Peak Response = 282863515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #18: MCPP #2



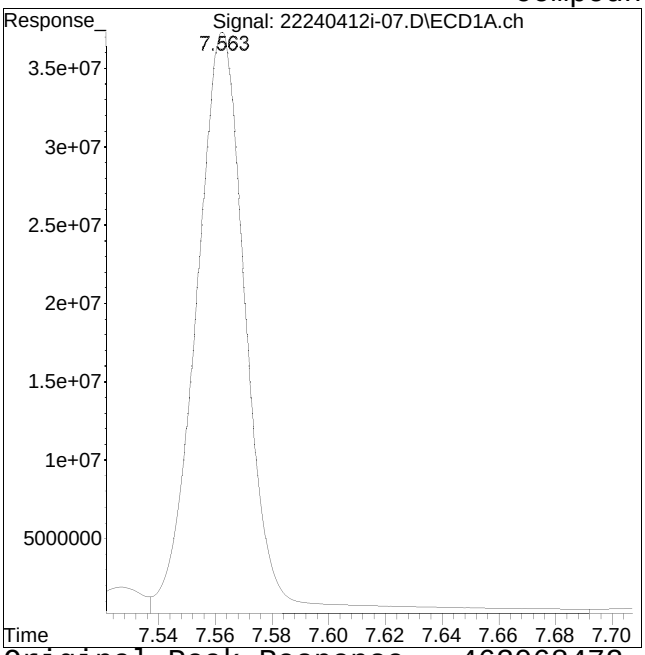


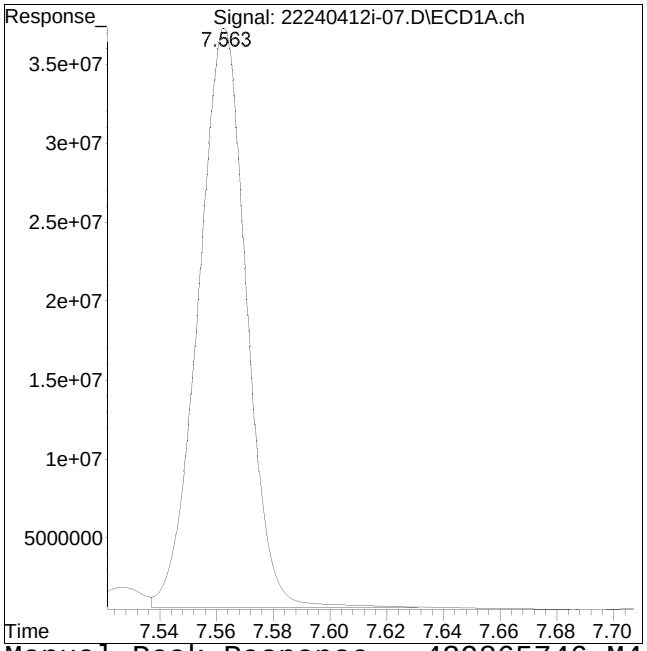
Original Peak Response = 355963689 Manual Peak Response = 337210987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #6: MCPA



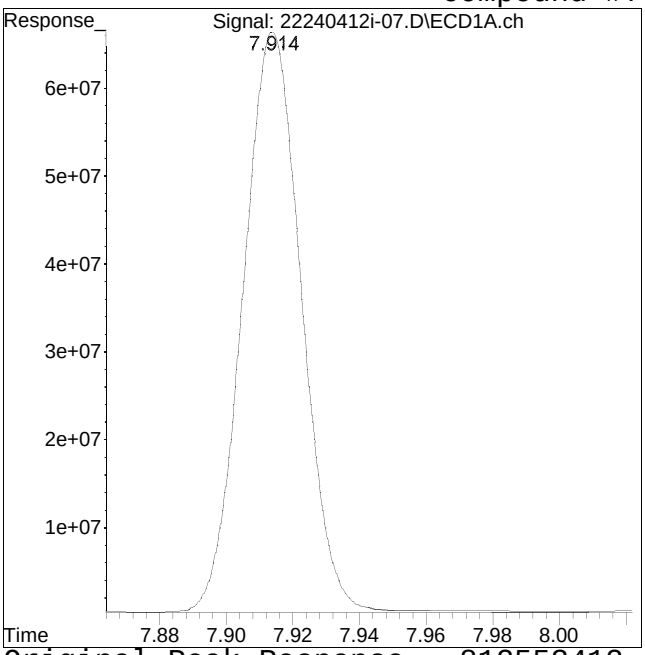


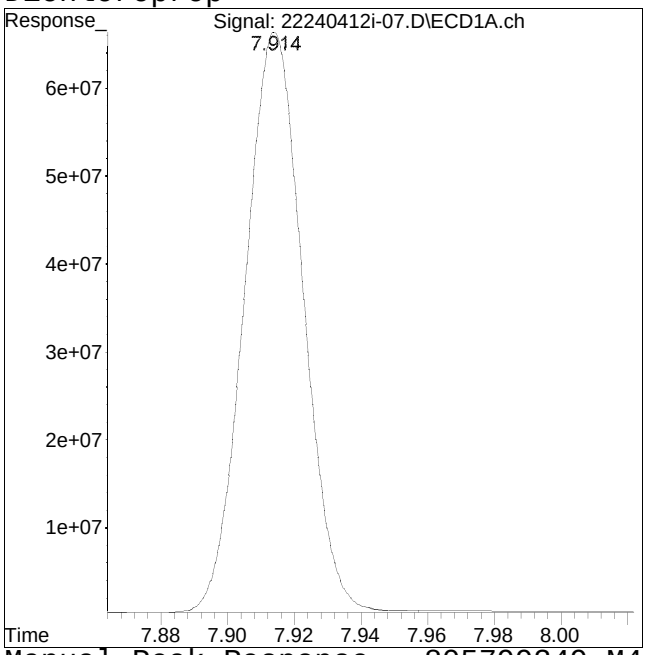
Original Peak Response = 463068472 Manual Peak Response = 429865746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #7: Dichloroprop



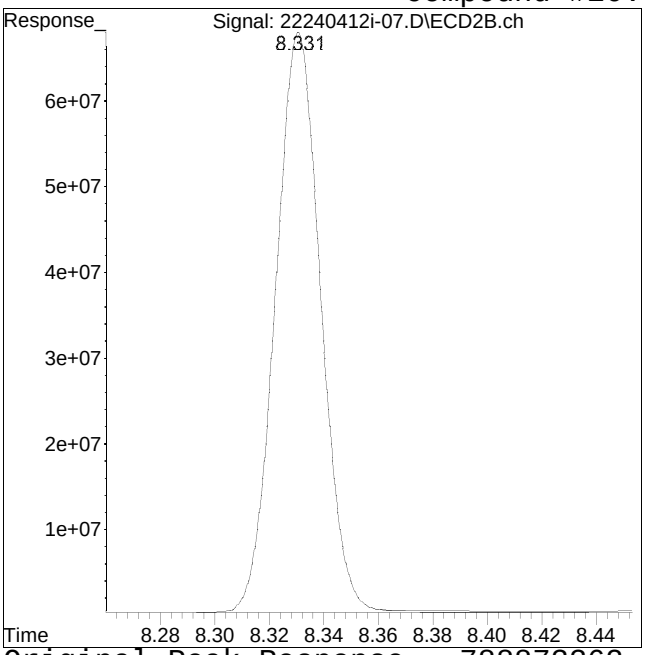


Original Peak Response = 812553412 Manual Peak Response = 805799349 M4
M4 = Poor automated baseline construction.

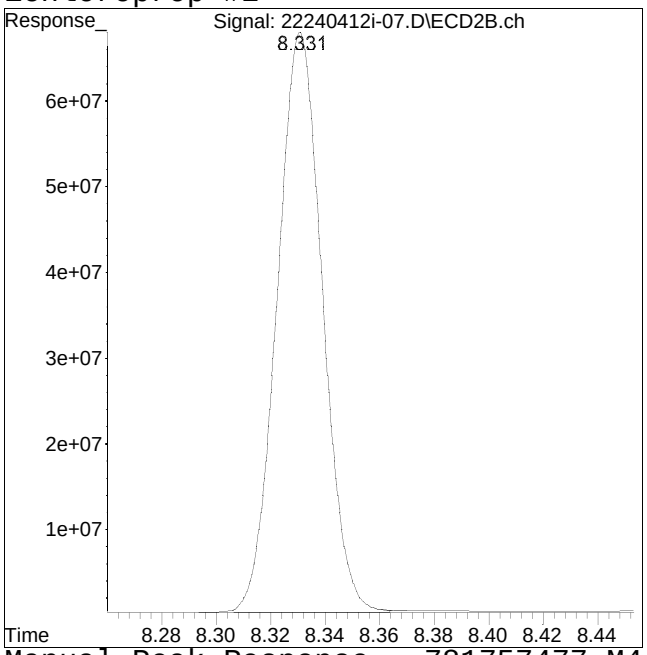
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #20: Dichloroprop #2



Original Peak Response = 788873362

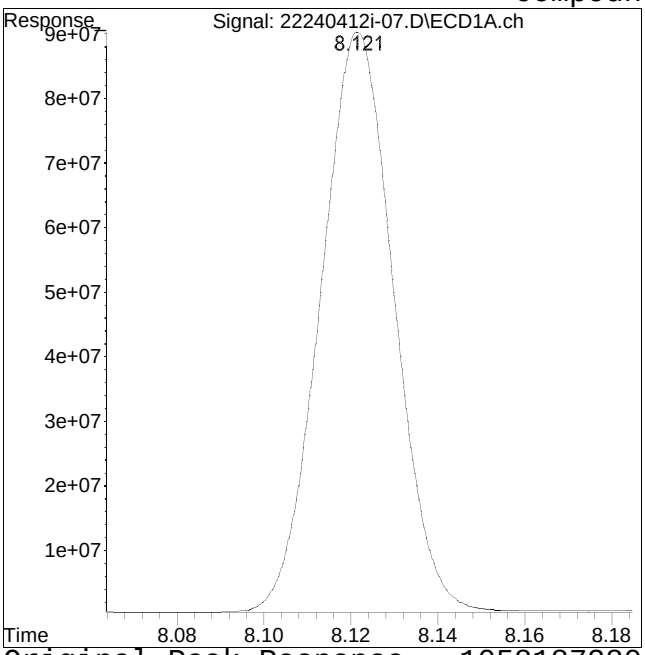


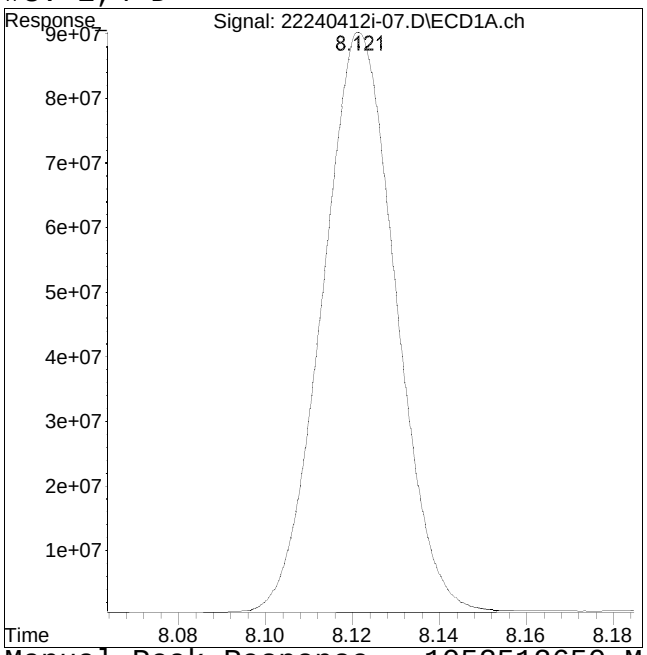
Manual Peak Response = 781757477 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #8: 2,4-D



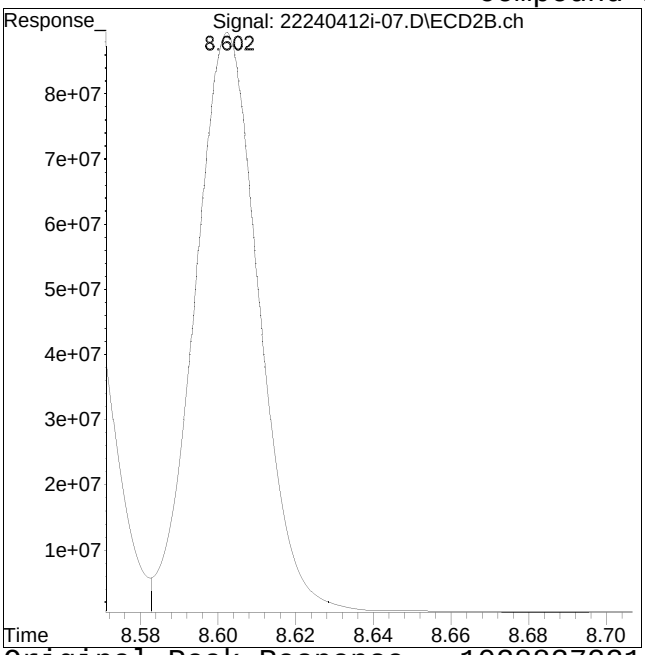


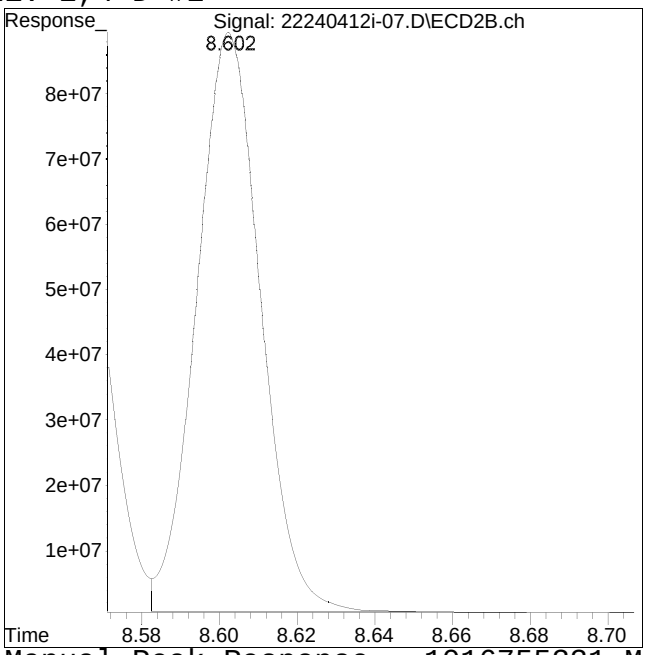
Original Peak Response = 1058187280 Manual Peak Response = 1052512650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #21: 2,4-D #2



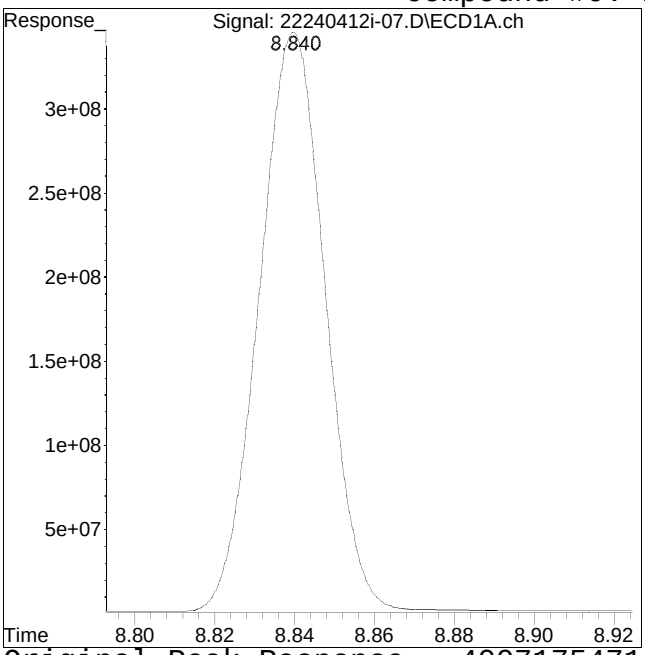


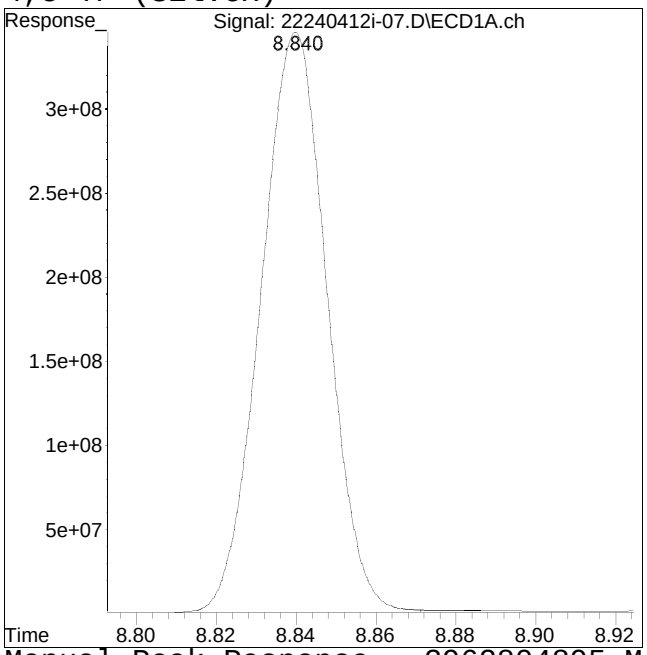
Original Peak Response = 1028837221 Manual Peak Response = 1016755331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #9: 2,4,5-TP (Silvex)



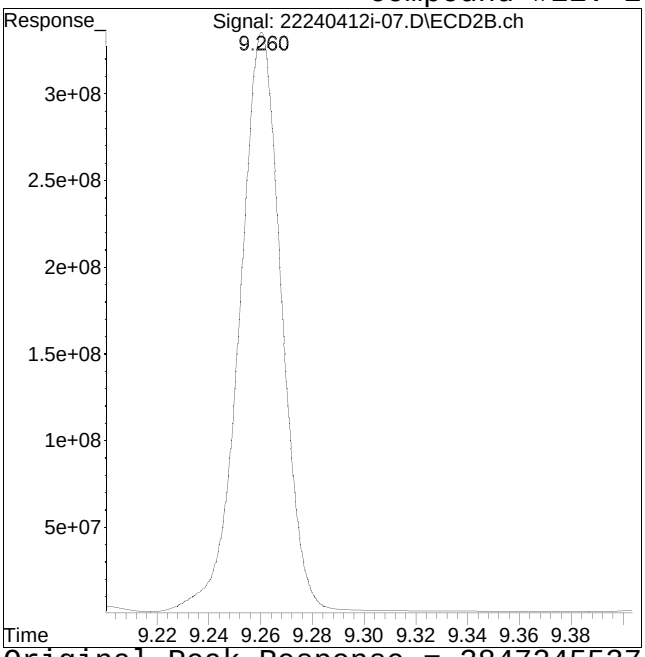


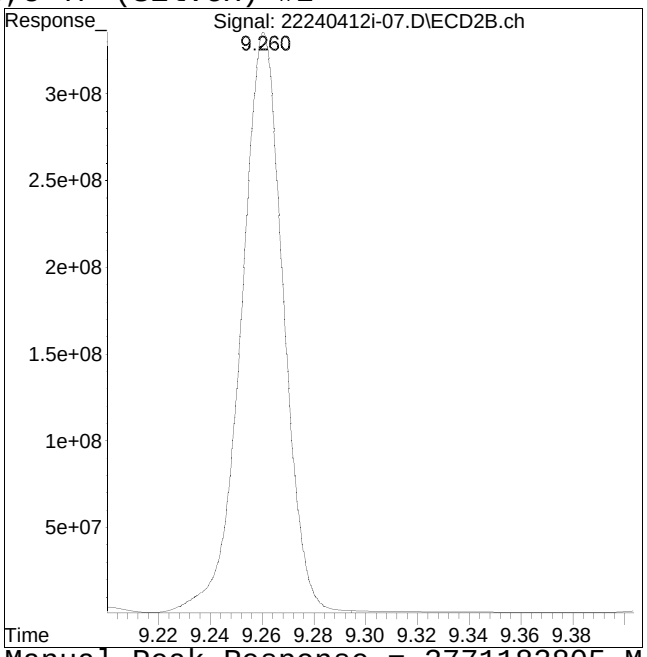
Original Peak Response = 4007175471 Manual Peak Response = 3962804895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #22: 2,4,5-TP (Silvex) #2



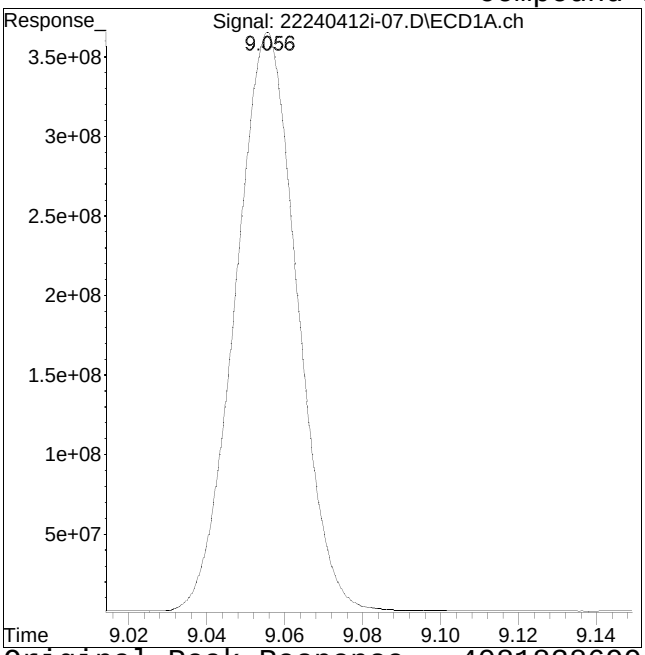


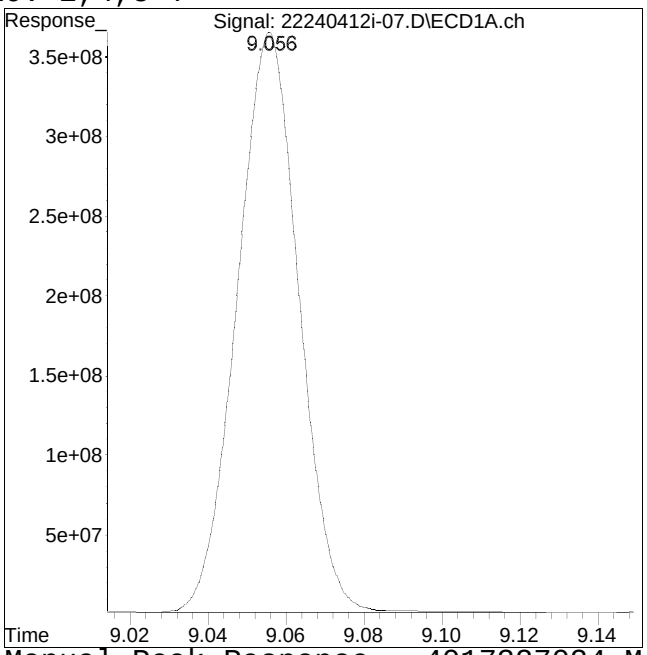
Original Peak Response = 3847245537 Manual Peak Response = 3771183805 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #10: 2,4,5-T



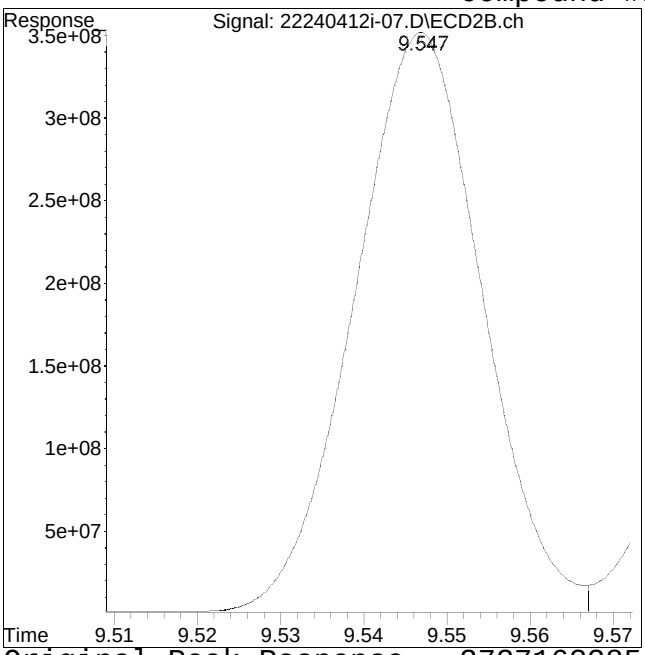


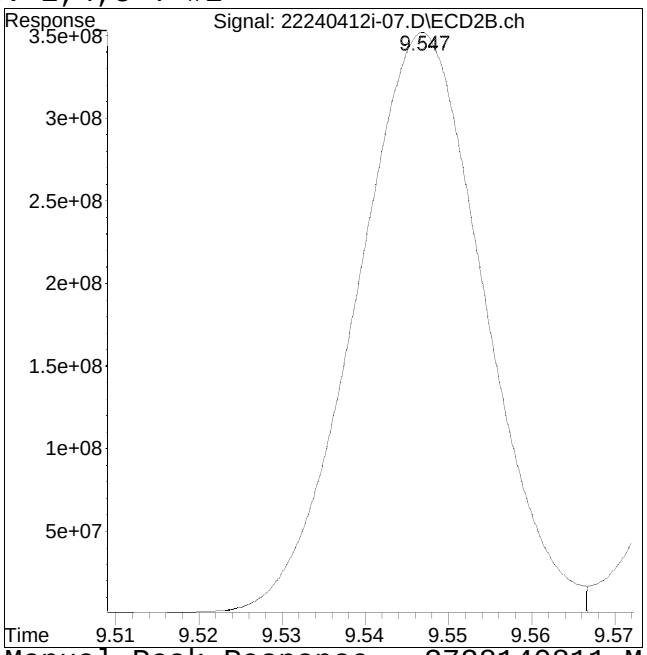
Original Peak Response = 4081838699 Manual Peak Response = 4017327024 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #23: 2,4,5-T #2



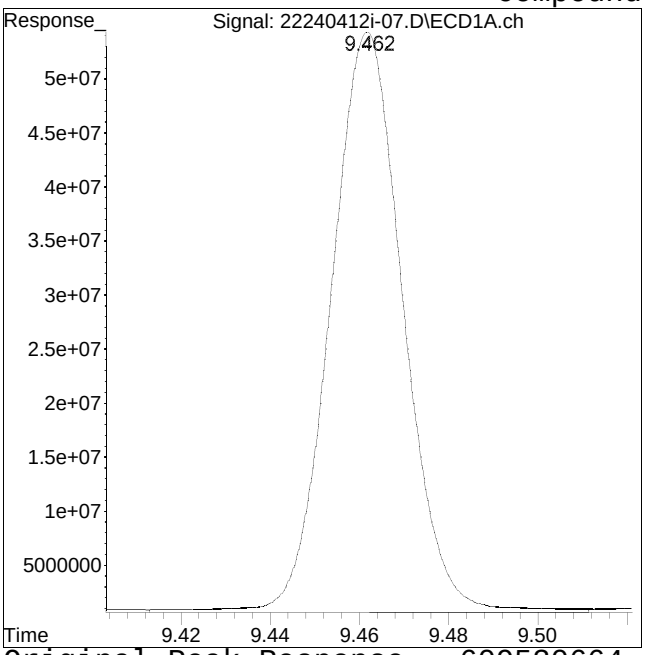


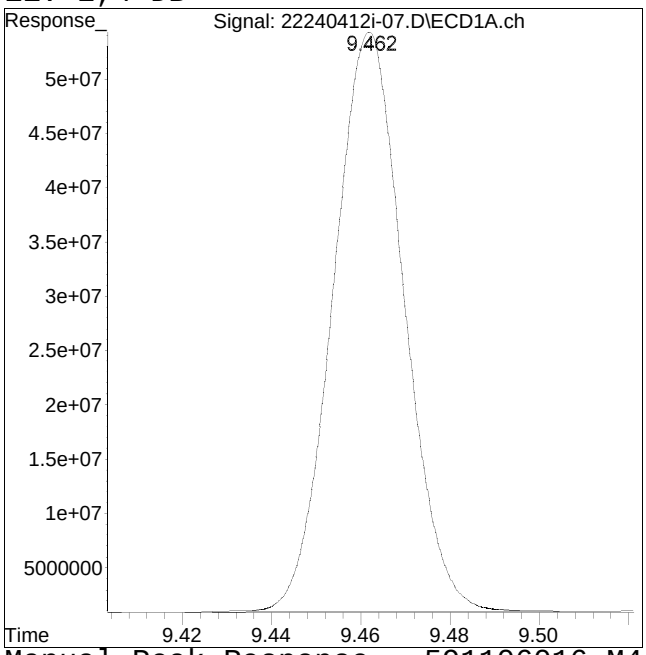
Original Peak Response = 3737163385 Manual Peak Response = 3728140811 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #11: 2,4-DB



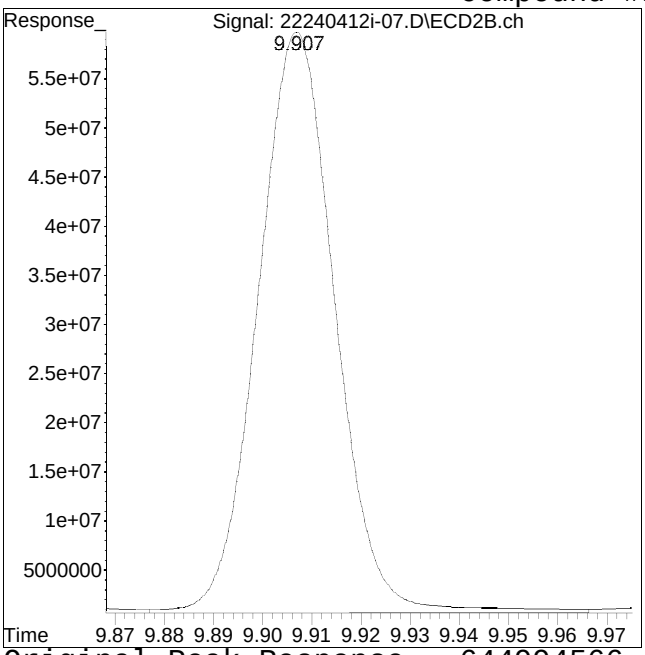


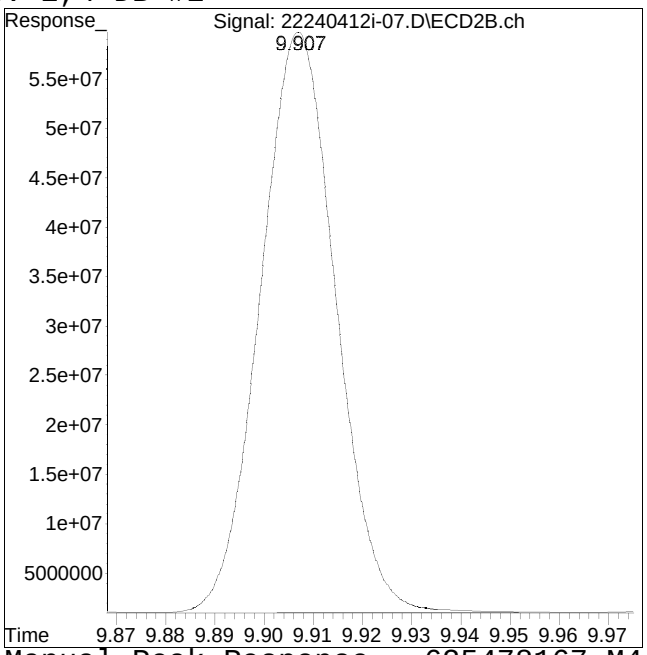
Original Peak Response = 609530664 Manual Peak Response = 591106016 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #24: 2,4-DB #2



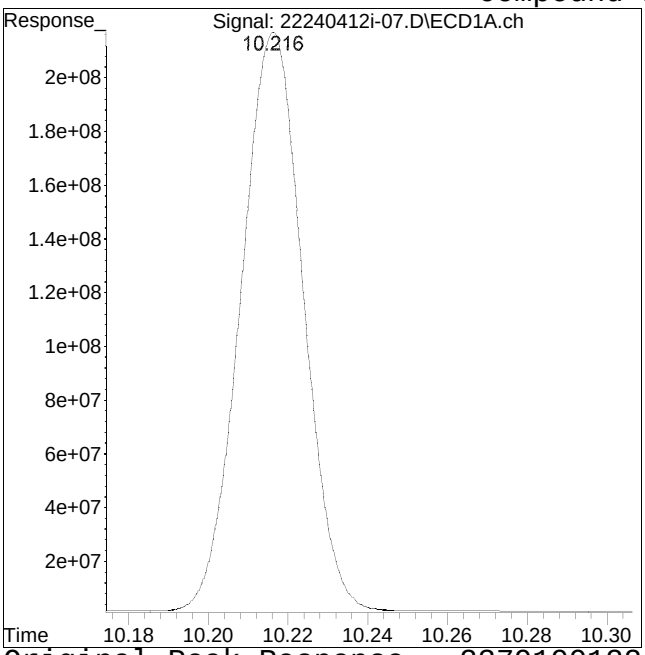


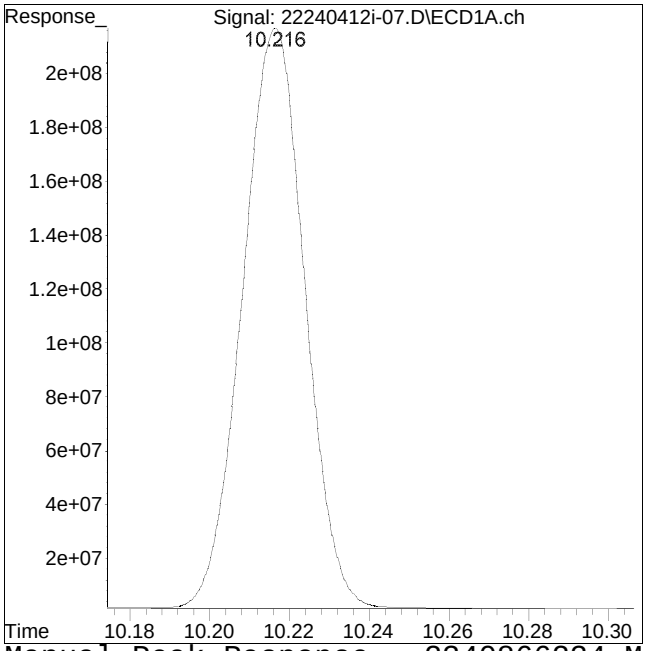
Original Peak Response = 644994566 Manual Peak Response = 625478167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #12: Dinoseb



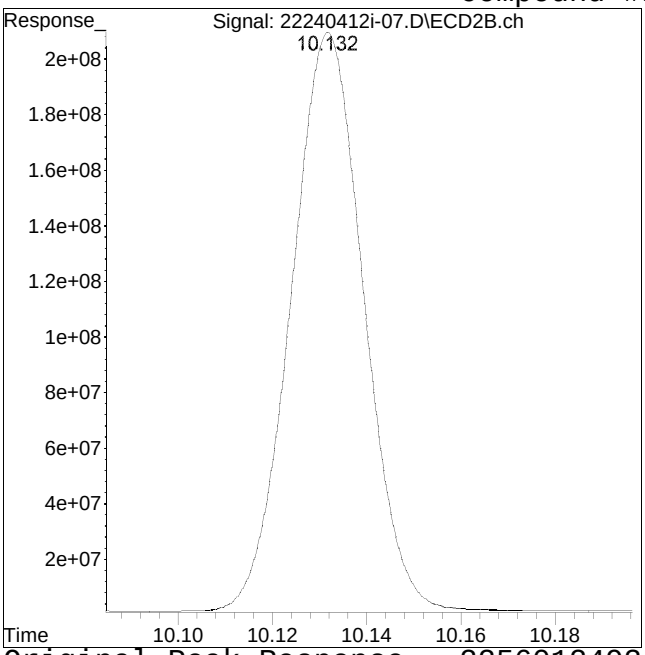


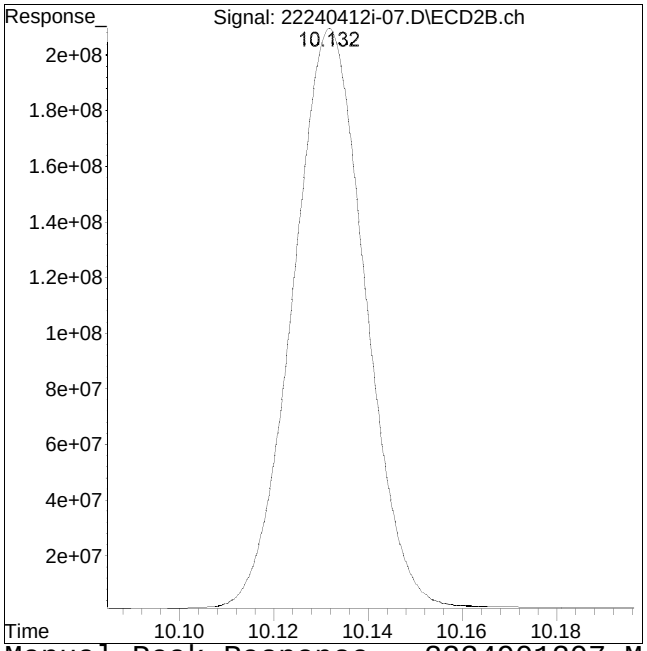
Original Peak Response = 2379199122 Manual Peak Response = 2340866234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #25: Dinoseb #2





Original Peak Response = 2256012493 Manual Peak Response = 2234901207 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	1.000	1.000	0.0	94	0.00
2	t	Dalapon	0.211	0.196	7.1	85	0.00
3	s	DCAA (surrogate)	0.206	0.200	2.9	87	0.00
4	t	Dicamba	0.589	0.576	2.2	87	0.00
5	t	MCPP	0.00052	0.00055	-5.8	95	0.00
6	t	MCPA	0.00097	0.00099	-2.1	91	0.00
7	t	Dichloroprop	0.193	0.207	-7.3	94	0.00
8	t	2,4-D	0.240	0.235	2.1	87	0.00
9	t	2,4,5-TP (Silvex)	0.868	0.842	3.0	86	0.00
10	t	2,4,5-T	0.853	0.840	1.5	88	0.00
11	t	2,4-DB	0.132	0.130	1.5	87	0.00
12	t	Dinoseb	0.493	0.485	1.6	88	0.00

Signal #2

1	i	4,4'-DBOB	1.000	1.000	0.0	92	0.00
2	t	Dalapon	0.197	0.193	2.0	88	0.00
3	s	DCAA (surrogate)	0.203	0.214	-5.4	93	0.00
4	t	Dicamba	0.594	0.597	-0.5	90	0.00
5	t	MCPP	0.00074	0.00075	-1.4	93	0.00
6	t	MCPA	0.00124	0.00126	-1.6	91	0.00
7	t	Dichloroprop	0.192	0.215	-12.0	99	0.00
8	t	2,4-D	0.237	0.244	-3.0	93	0.00
9	t	2,4,5-TP (Silvex)	0.856	0.860	-0.5	89	0.00
10	t	2,4,5-T	0.831	0.853	-2.6	92	0.00
11	t	2,4-DB	0.141	0.139	1.4	89	0.00
12	t	Dinoseb	0.491	0.506	-3.1	93	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	710.4E6	646.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.026	7.495	106.7E6	103.8E6	0.183M4	0.198M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	36.60%	39.60%
		Target Compounds						
2)	t	Dalapon	2.422	2.418	101.5E6	90678734	0.169	0.178M3
4)	t	Dicamba	7.211	7.676	307.7E6	290.1E6	0.184M4	0.189M3
5)	t	MCPP	7.413	7.788	29475629	36477309	19.908M4	19.176M4
6)	t	MCPA	7.559	8.013	52248199	60587732	19.021M4	18.909M4
7)	t	Dichloroprop	7.914	8.330	110.5E6	104.6E6	0.201	0.211M4
8)	t	2,4-D	8.122	8.602	125.3E6	118.5E6	0.184M4	0.193M4
9)	t	2,4,5-TP (Si	8.839	9.260	454.6E6	422.4E6	0.184M4	0.191M4
10)	t	2,4,5-T	9.055	9.546	453.6E6	418.6E6	0.187M4	0.195
11)	t	2,4-DB	9.462	9.906	70895673	69153610	0.189M4	0.190M4
12)	t	Dinoseb	10.216	10.131	261.6E6	248.6E6	0.187M4	0.196

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

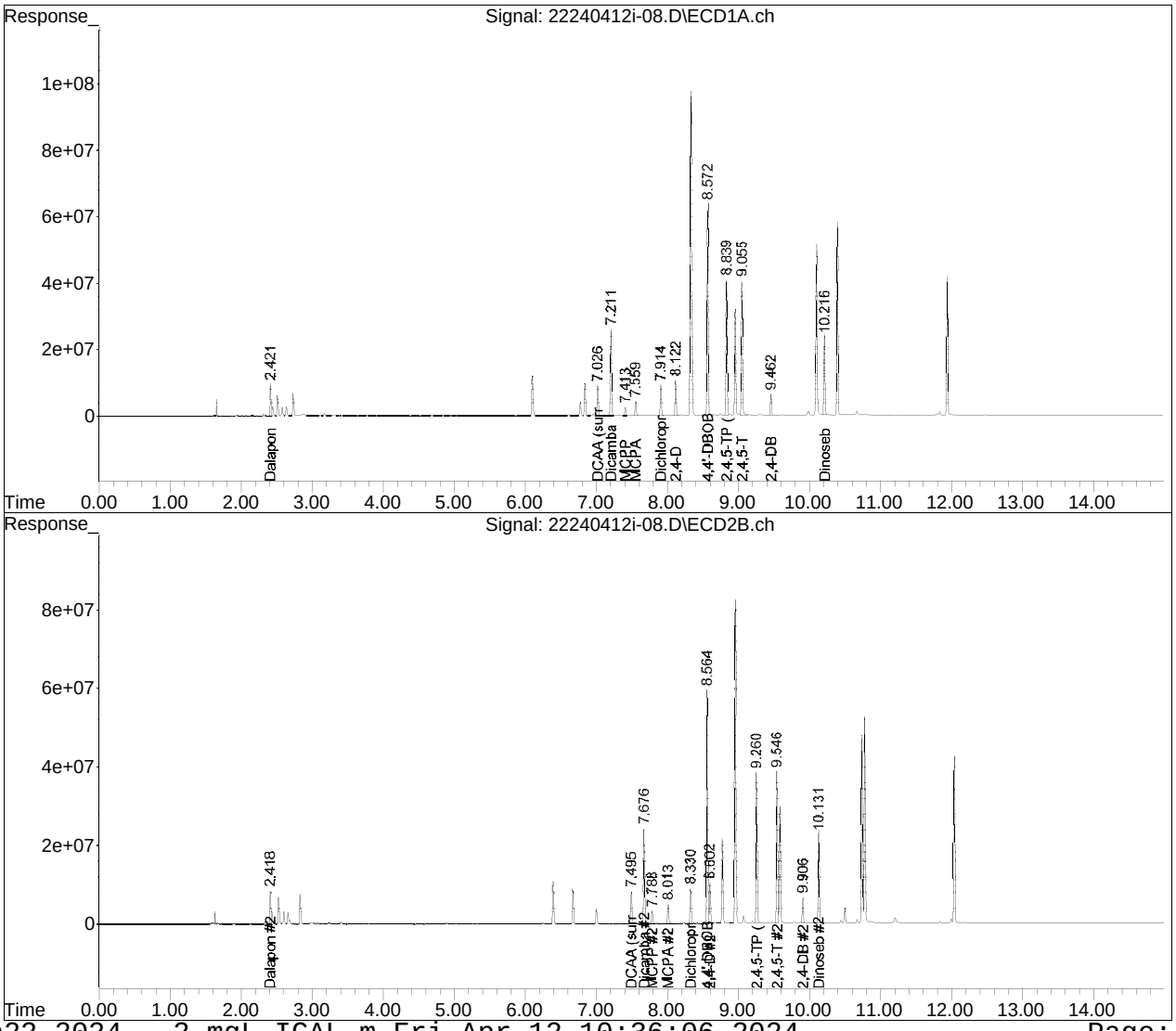
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

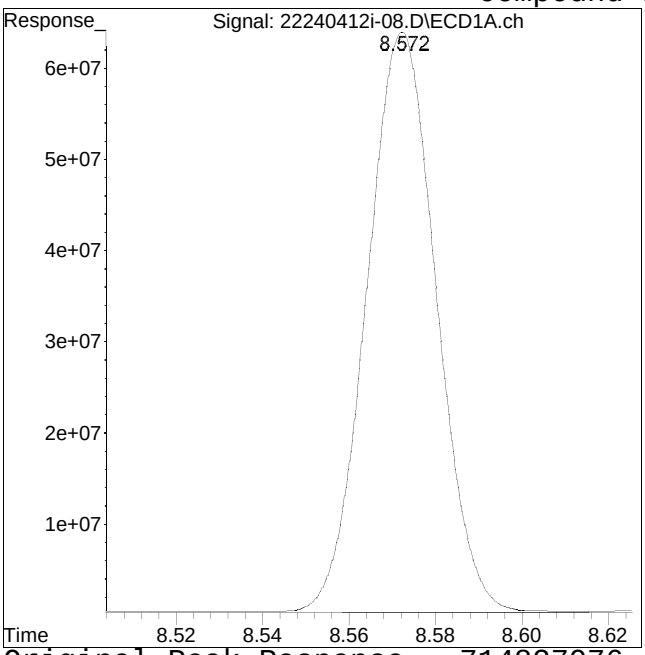
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

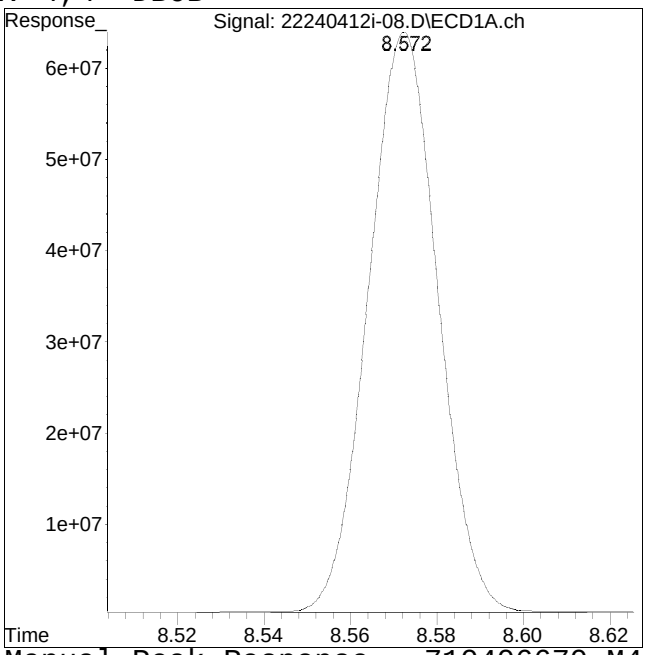


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #1: 4,4'-DBOB



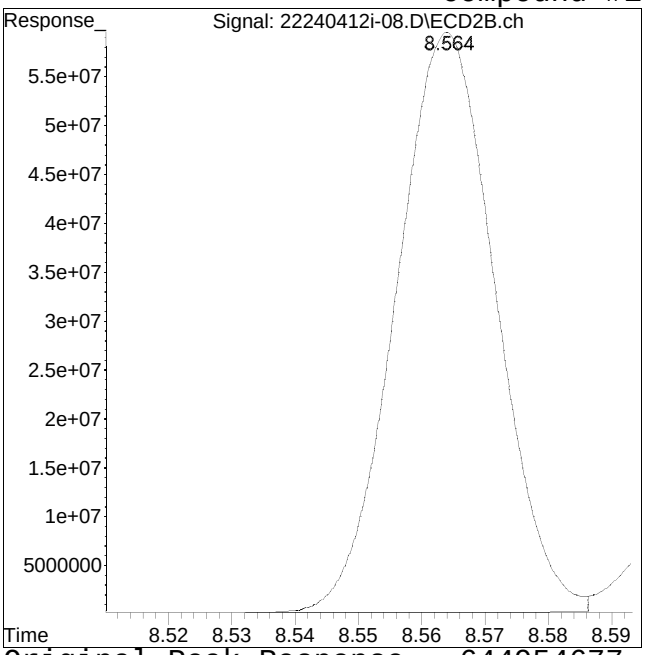


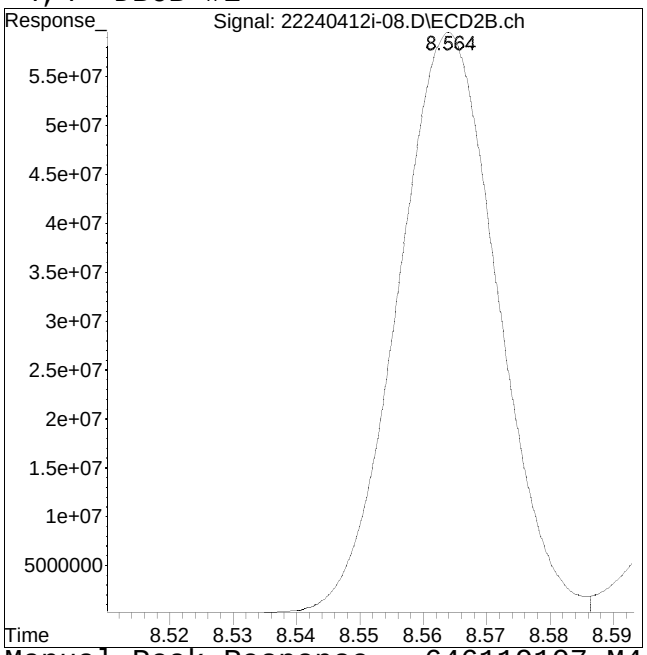
Original Peak Response = 714827976 Manual Peak Response = 710406670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #14: 4,4'-DBOB #2



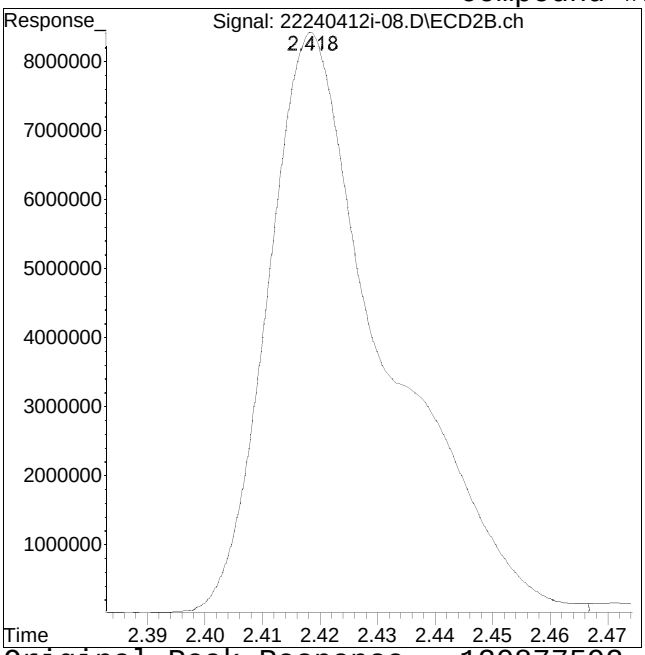


Original Peak Response = 644954677 Manual Peak Response = 646119107 M4
M4 = Poor automated baseline construction.

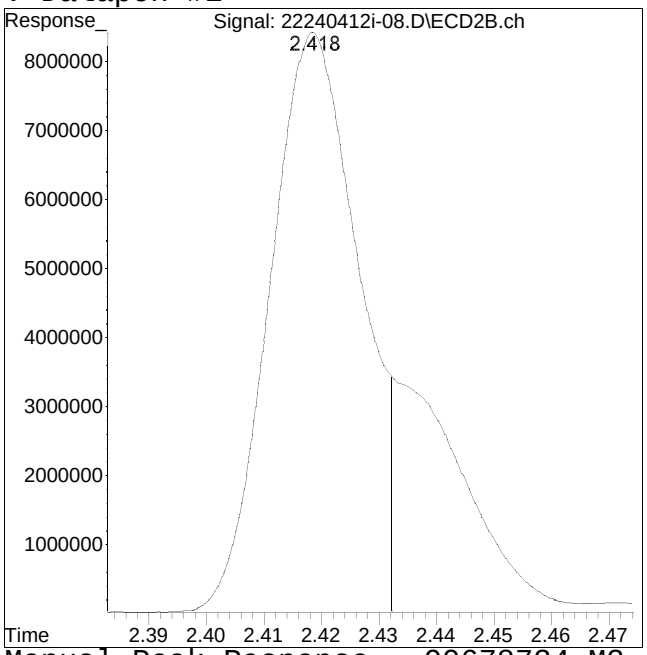
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #15: Dalapon #2



Original Peak Response = 120877592



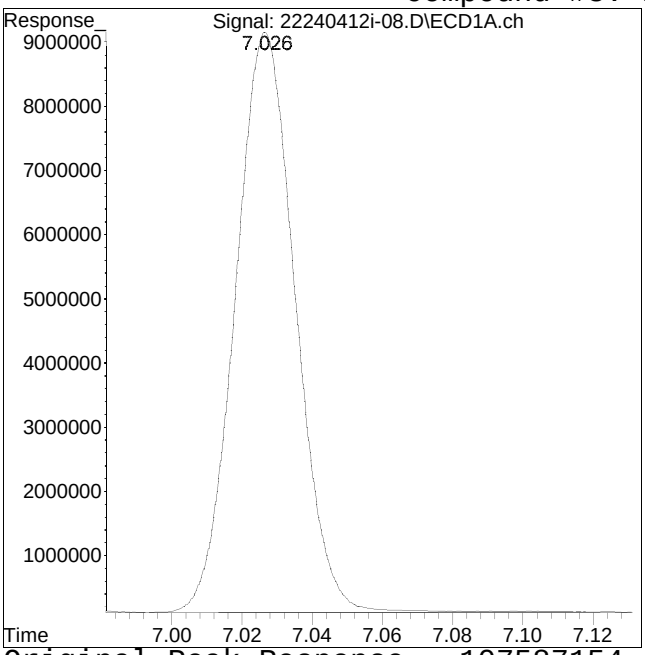
Manual Peak Response = 90678734 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

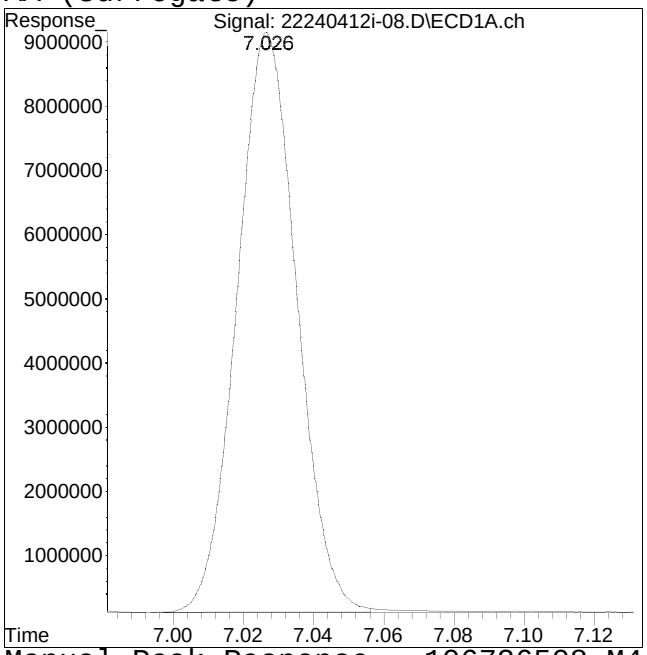
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #3: DCAA (surrogate)



Original Peak Response = 107587154

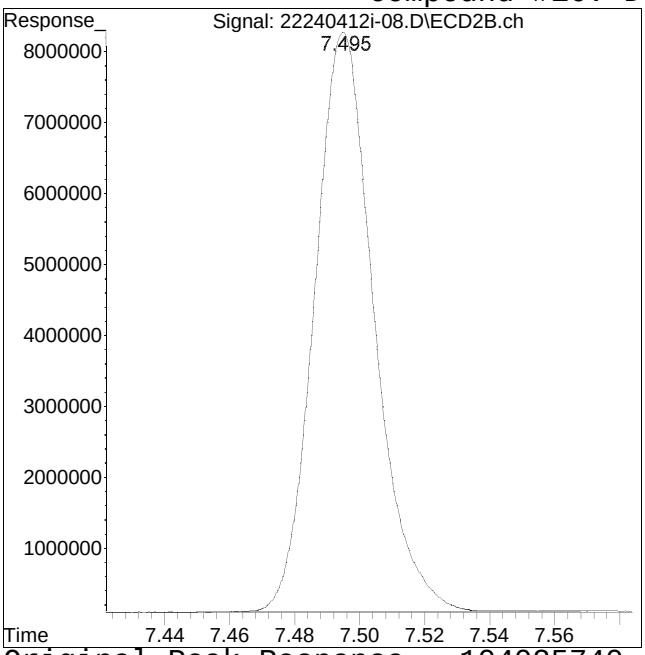


Manual Peak Response = 106726508 M4
M4 = Poor automated baseline construction.

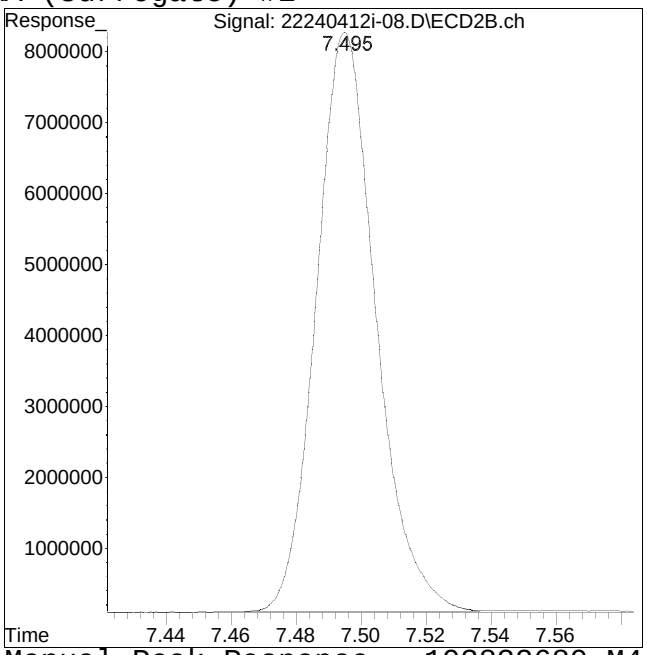
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 104025740



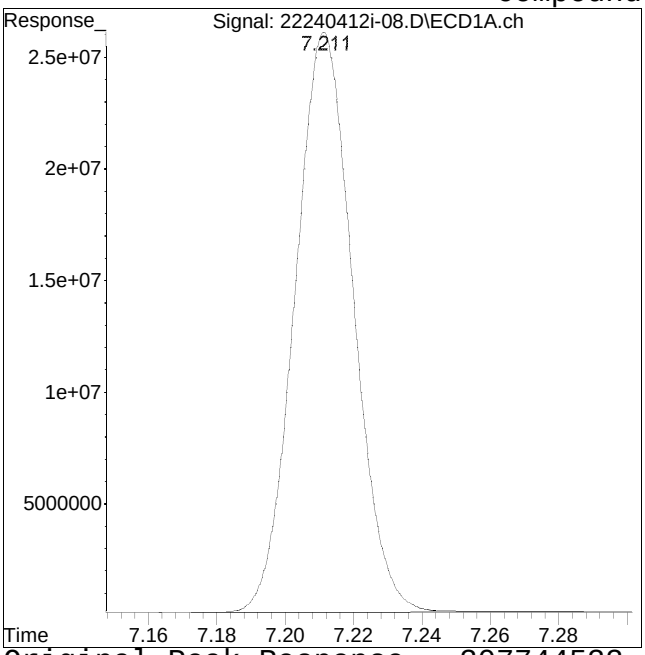
Manual Peak Response = 103832680 M4
M4 = Poor automated baseline construction.

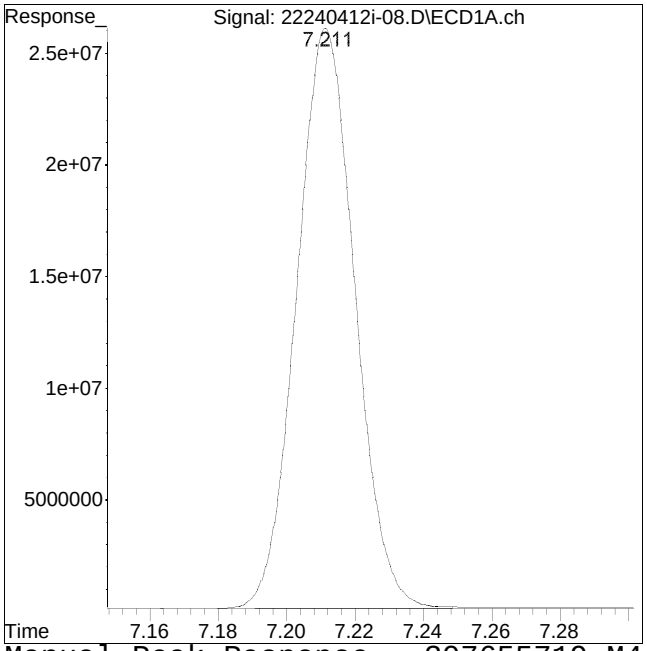
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412Q
Data File : 22240412i-08.D
Date Inj'd : 4/12/2024 8:26 am
Sample : cicv,42e,,pp11458 L0.2/20I

Method : Herb22_2024_04_12_mgL_IC
Operator : pest22:peg
Instrument : Pest22
IQuant Date : 4/12/2024 9:48 am

Compound #4: Dicamba



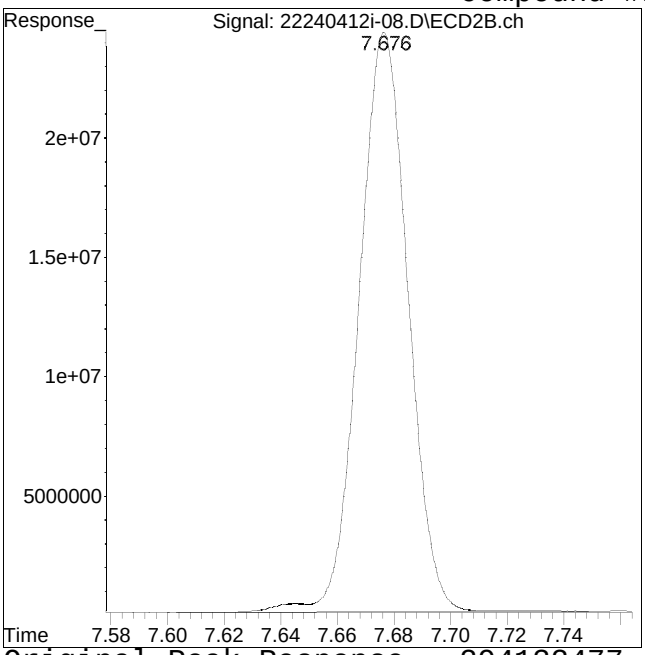


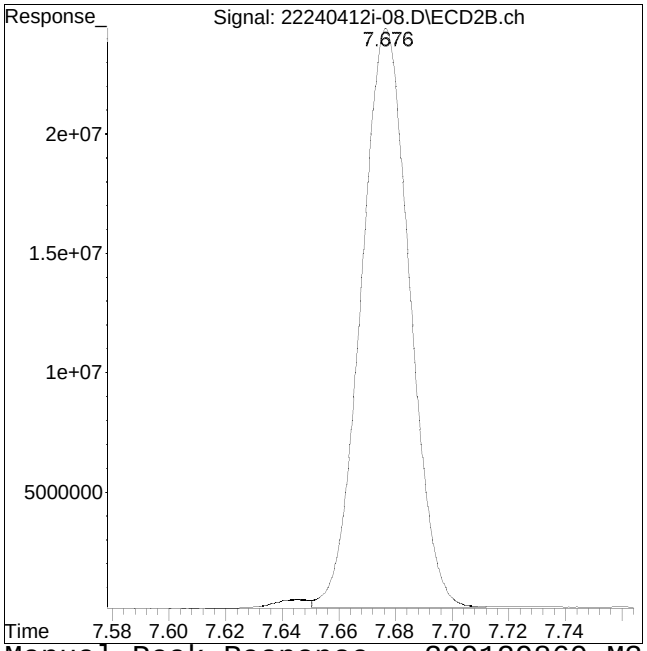
Original Peak Response = 307744533 Manual Peak Response = 307655719 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #17: Dicamba #2



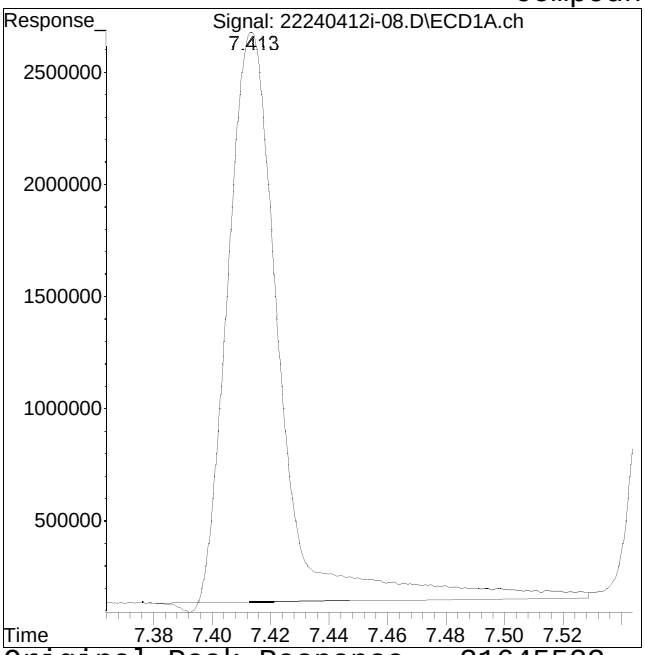


Original Peak Response = 294132477 Manual Peak Response = 290129860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

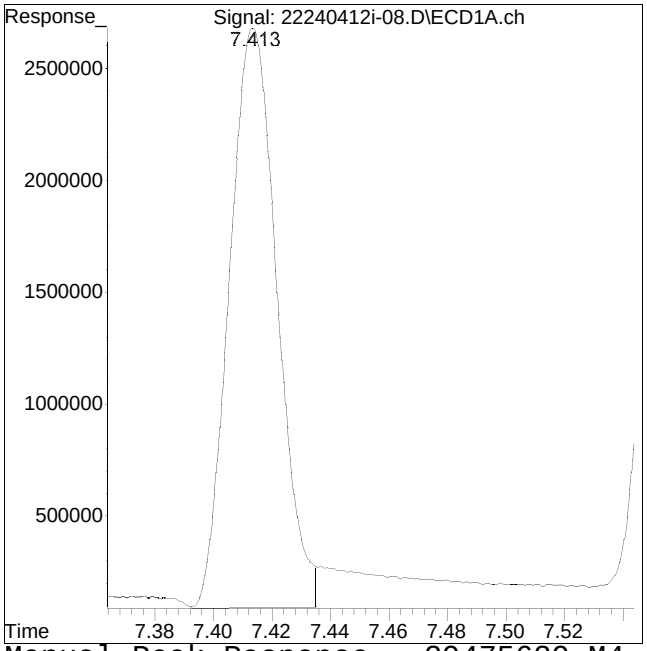
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #5: MCPP



Original Peak Response = 31645523



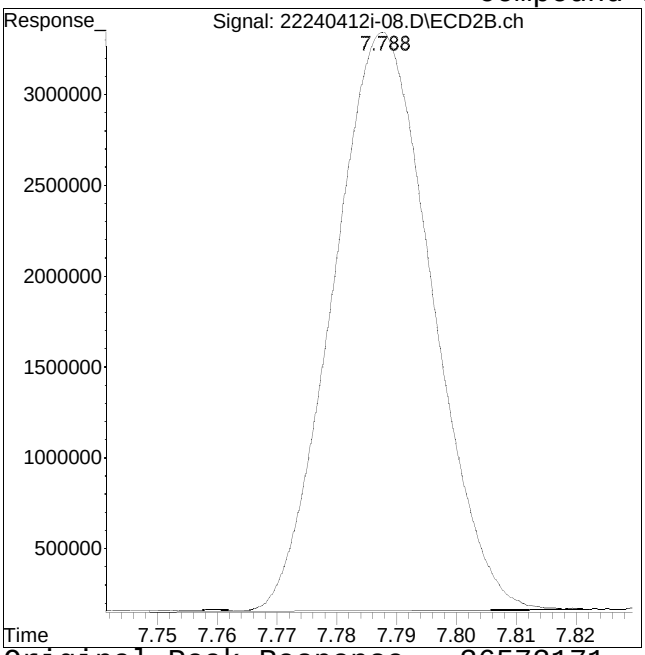
Manual Peak Response = 29475629 M4

M4 = Poor automated baseline construction.

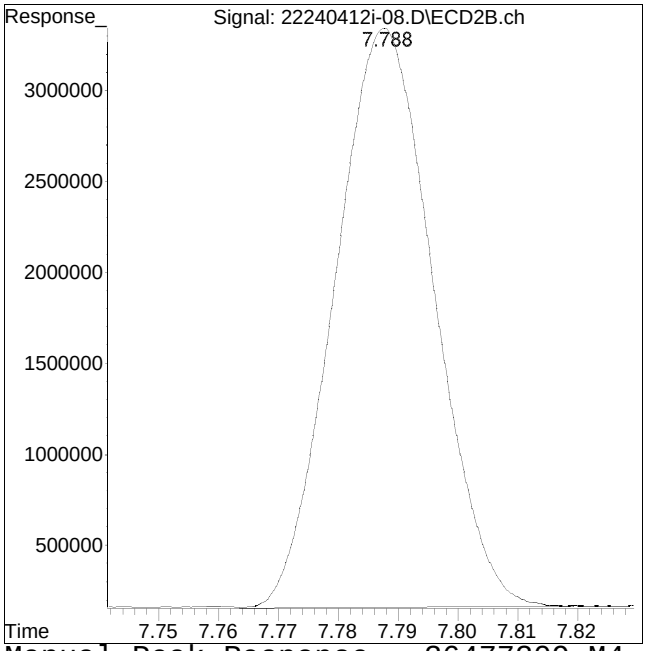
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #18: MCPP #2



Original Peak Response = 36573171



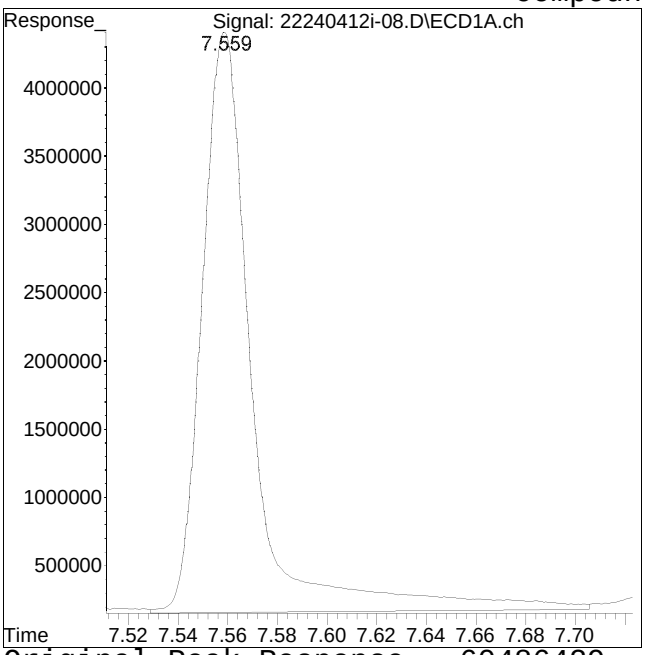
Manual Peak Response = 36477309 M4

M4 = Poor automated baseline construction.

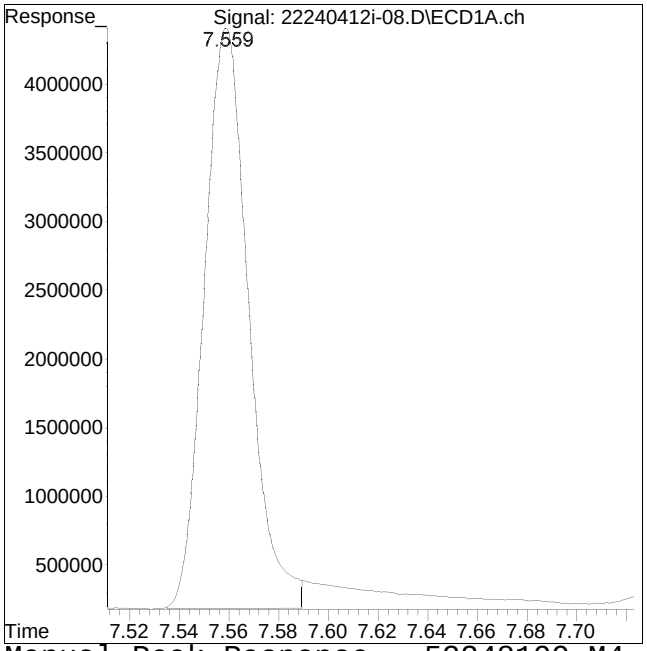
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #6: MCPA



Original Peak Response = 60486429



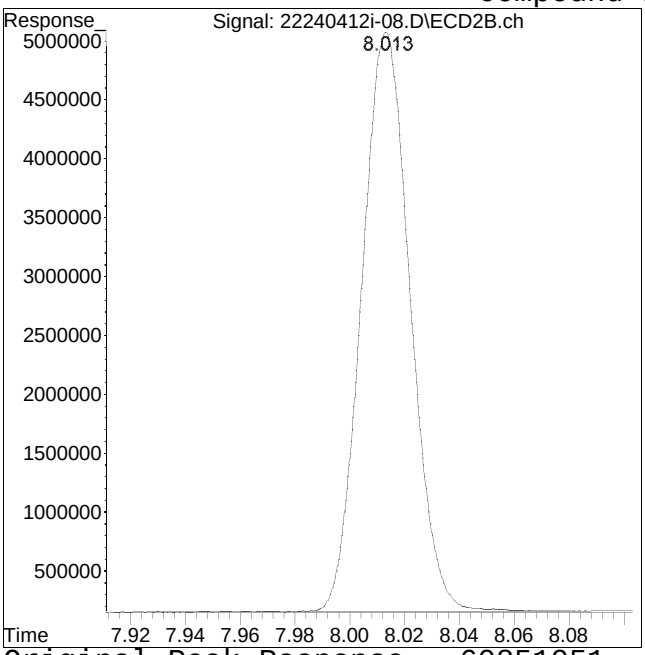
Manual Peak Response = 52248199 M4

M4 = Poor automated baseline construction.

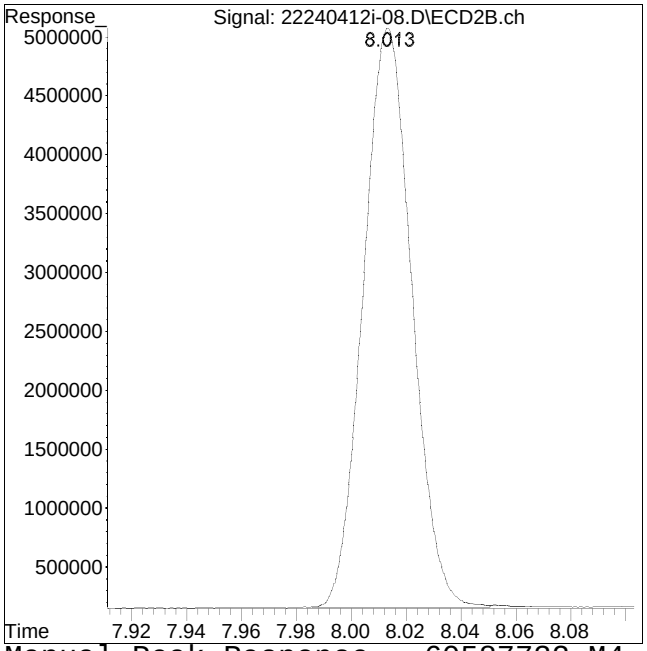
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #19: MCPA #2



Original Peak Response = 60851051



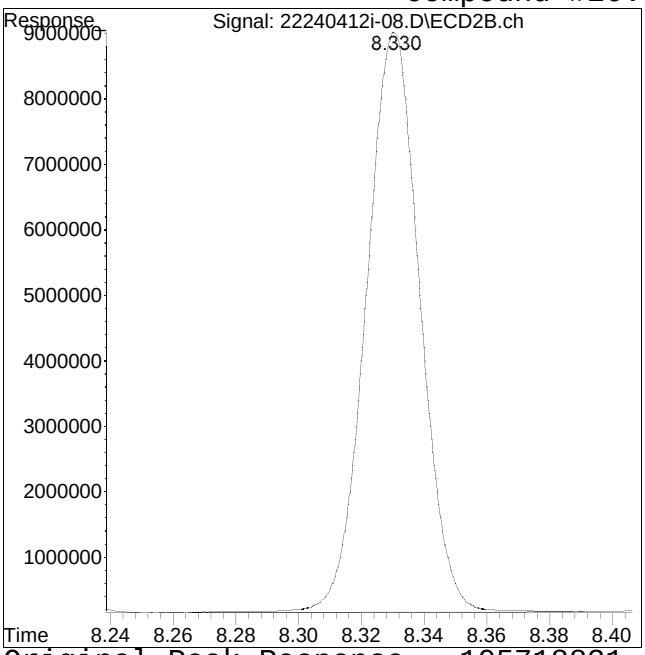
Manual Peak Response = 60587732 M4

M4 = Poor automated baseline construction.

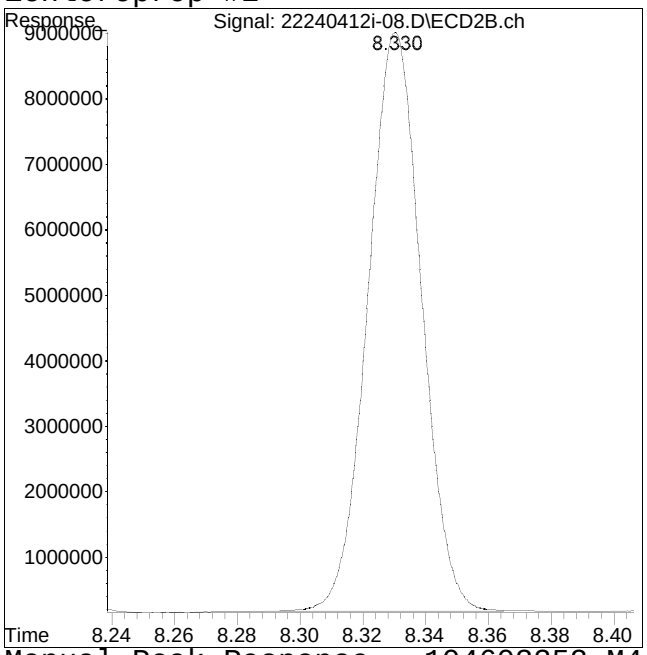
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #20: Dichloroprop #2



Original Peak Response = 105718831

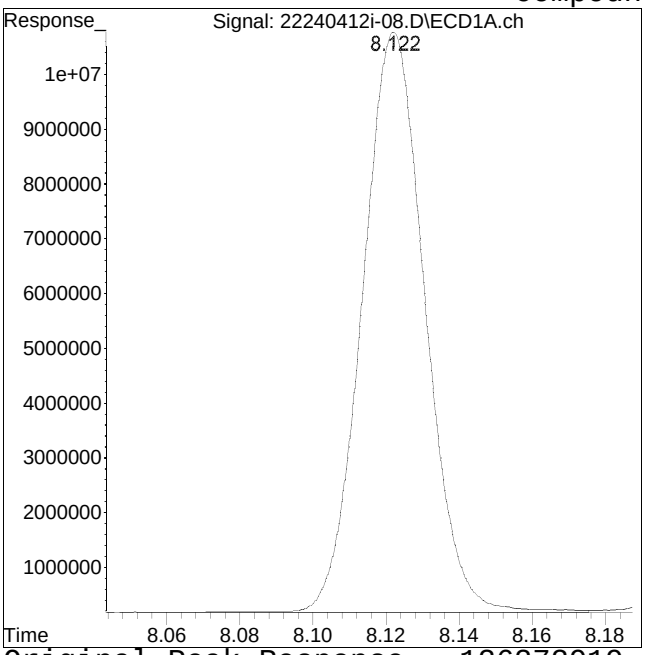


Manual Peak Response = 104603352 M4
M4 = Poor automated baseline construction.

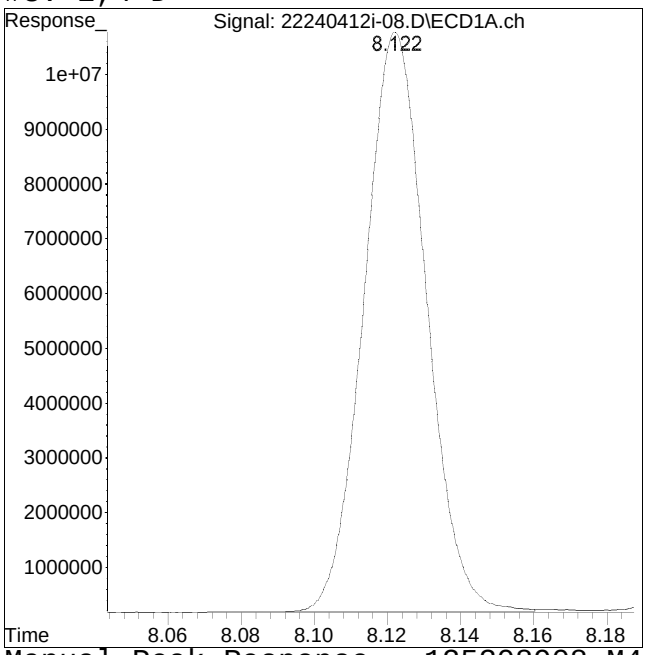
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #8: 2,4-D



Original Peak Response = 126272919

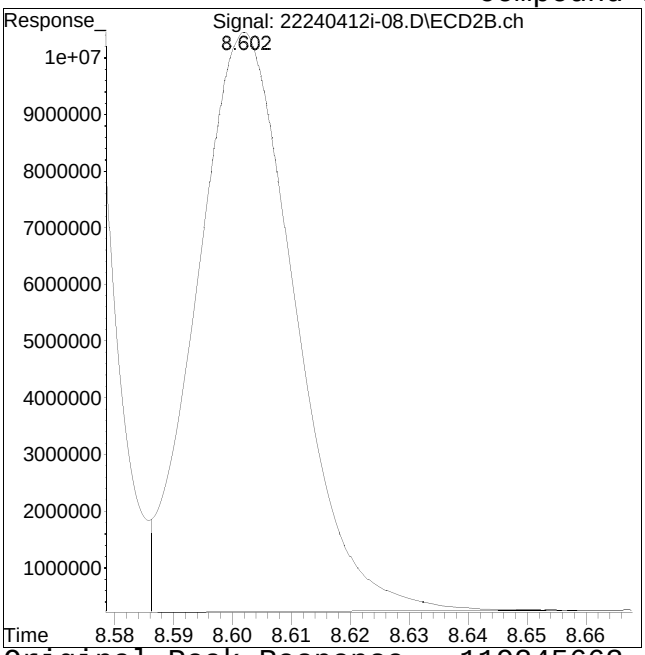


Manual Peak Response = 125308908 M4
M4 = Poor automated baseline construction.

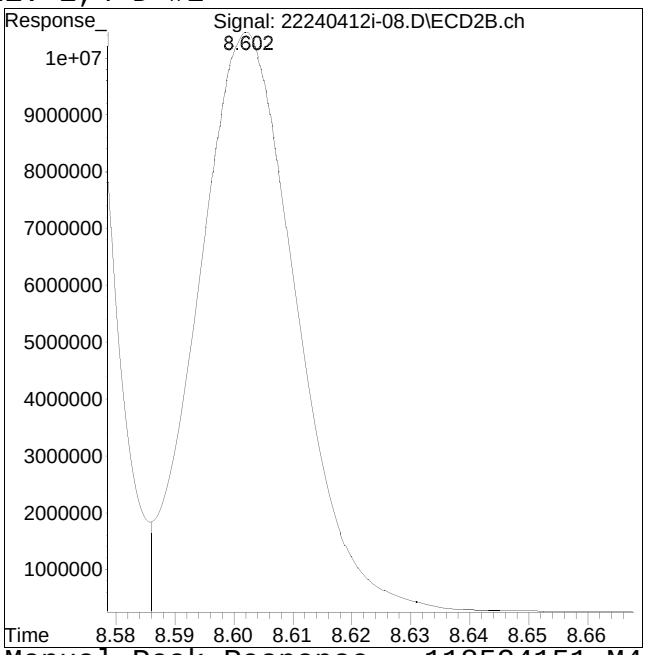
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #21: 2,4-D #2



Original Peak Response = 119245663

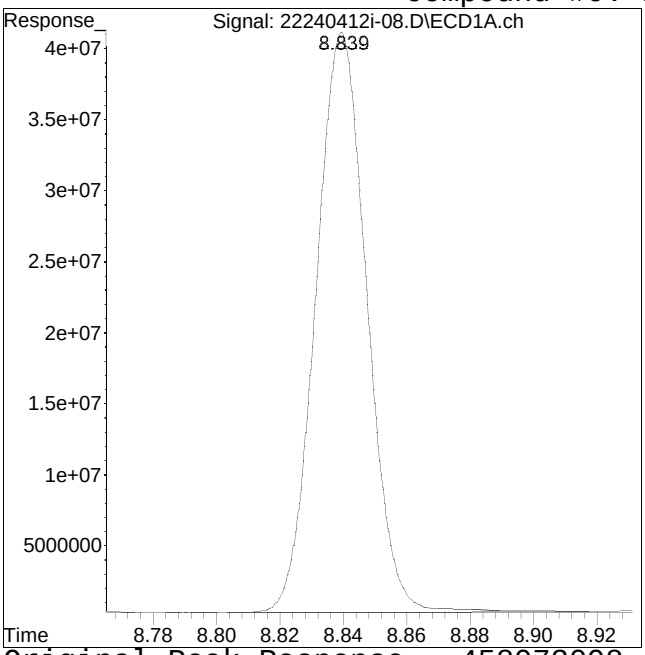


Manual Peak Response = 118524151 M4
M4 = Poor automated baseline construction.

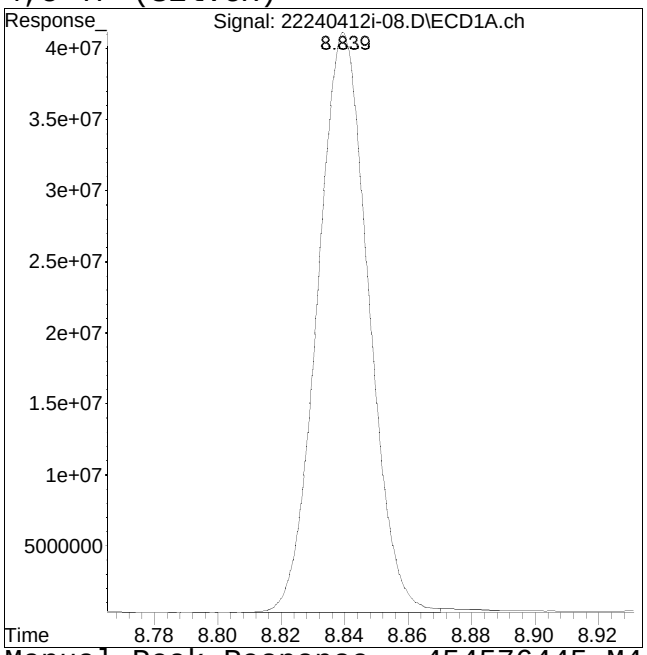
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 458073098



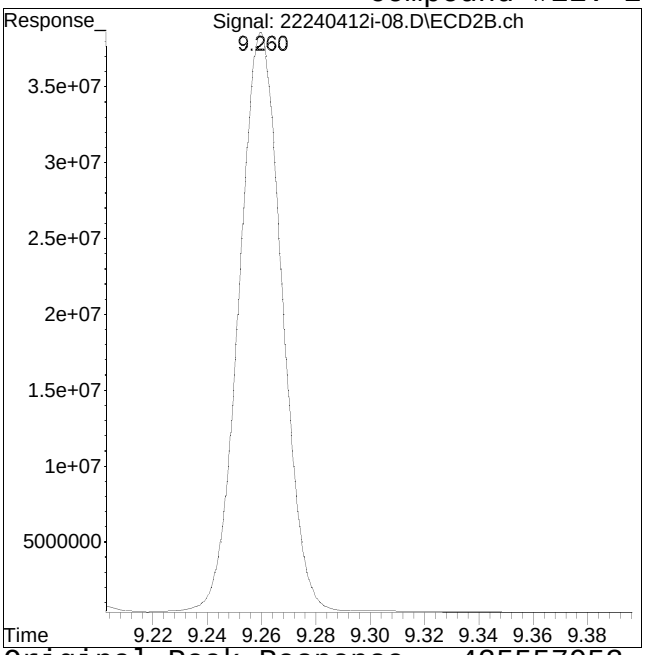
Manual Peak Response = 454576445 M4

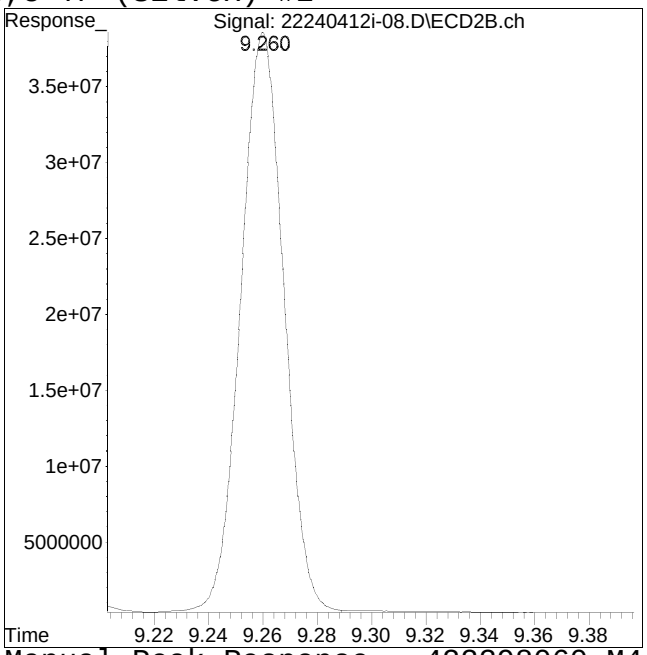
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #22: 2,4,5-TP (Silvex) #2



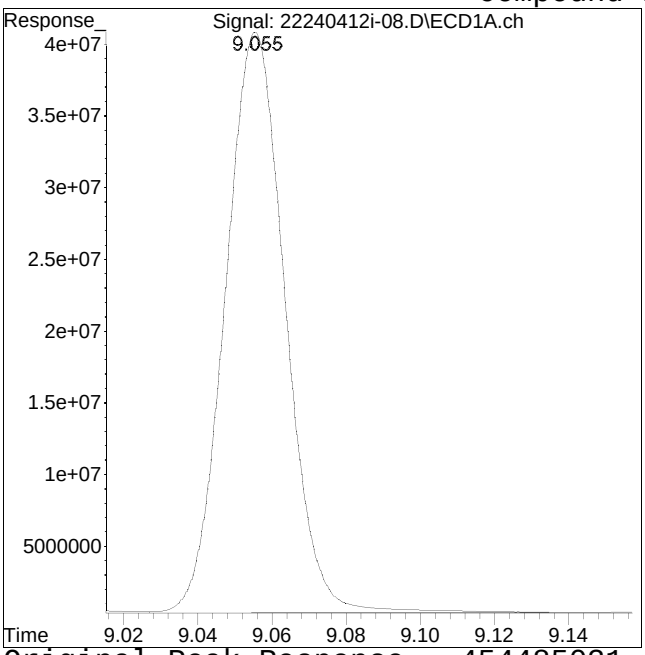


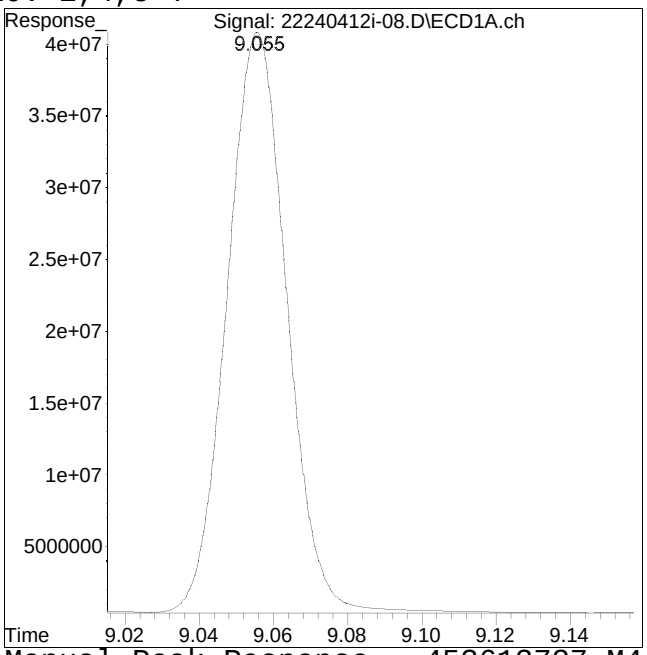
Original Peak Response = 425557953 Manual Peak Response = 422398060 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #10: 2,4,5-T



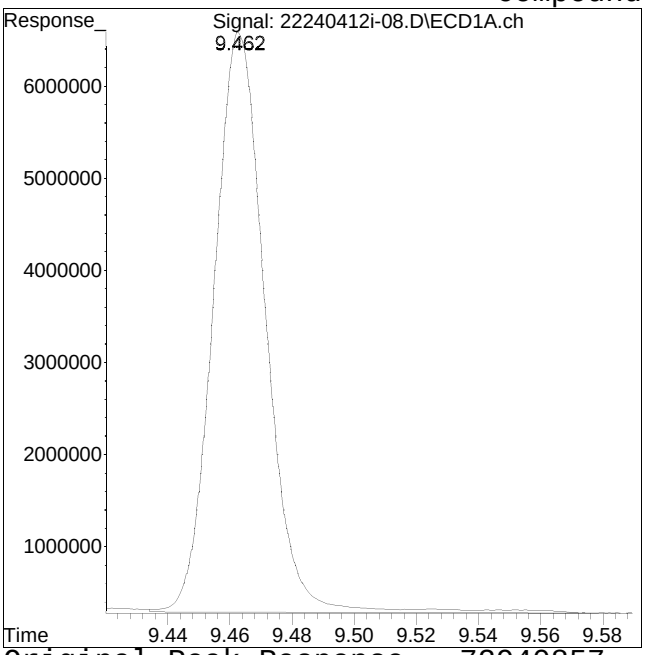


Original Peak Response = 454485031 Manual Peak Response = 453613737 M4
M4 = Poor automated baseline construction.

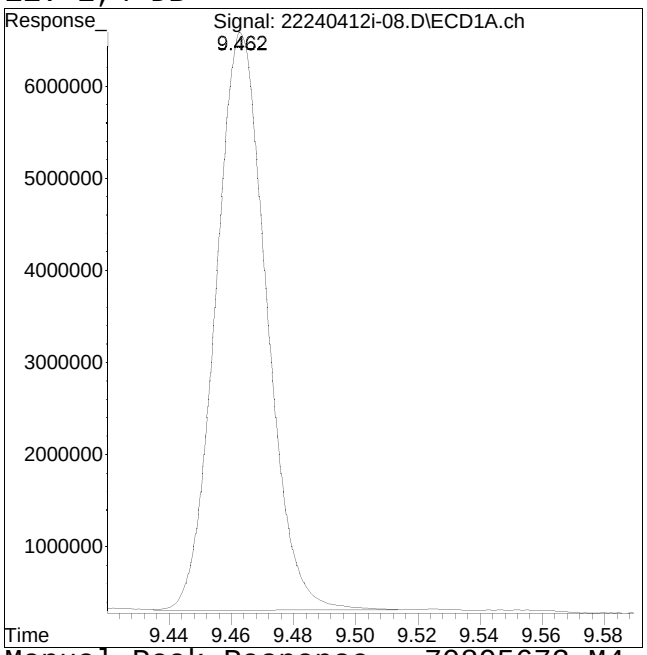
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #11: 2,4-DB



Original Peak Response = 72940857



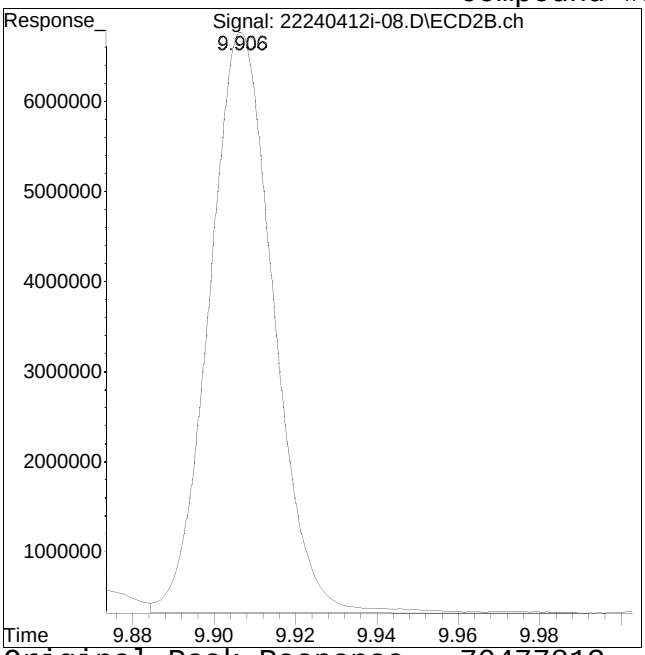
Manual Peak Response = 70895673 M4

M4 = Poor automated baseline construction.

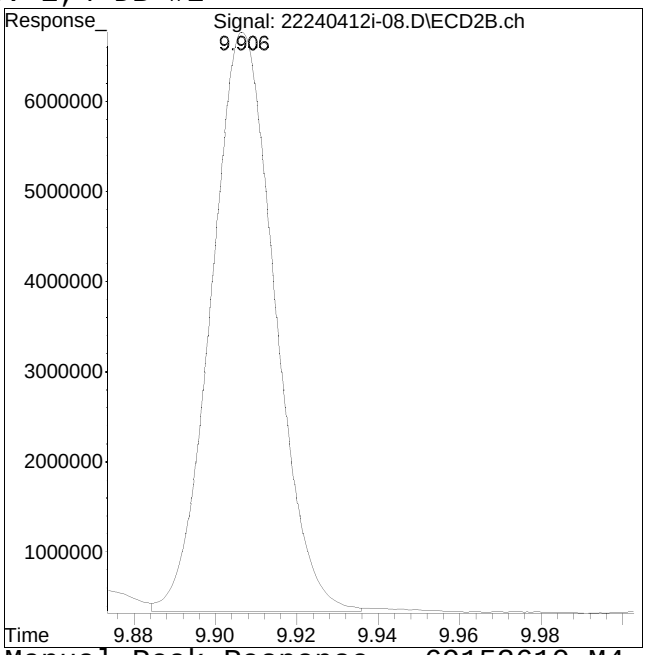
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #24: 2,4-DB #2



Original Peak Response = 70477813



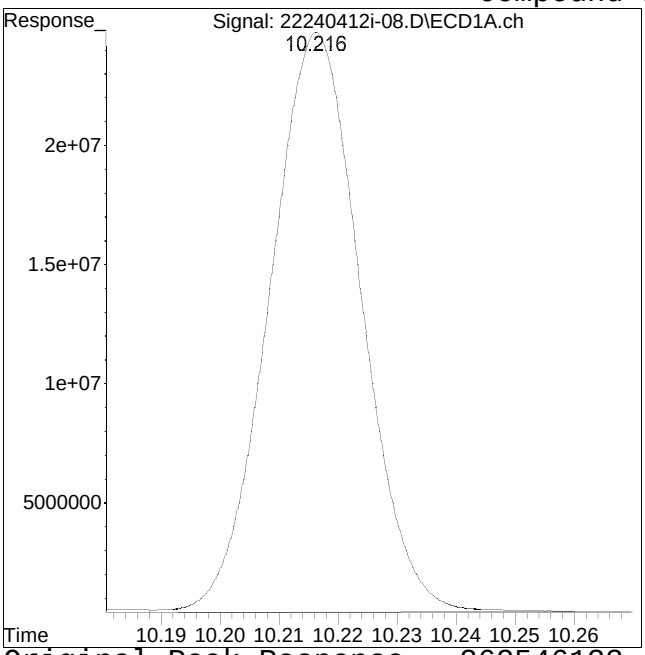
Manual Peak Response = 69153610 M4

M4 = Poor automated baseline construction.

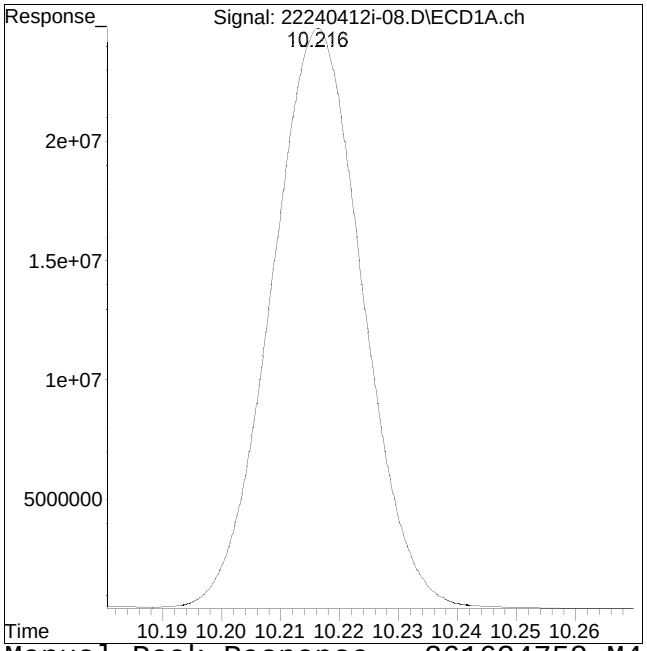
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #12: Dinoseb



Original Peak Response = 262546133



Manual Peak Response = 261634758 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST22	**Calibration Date**	: 06/14/24 06:04	
Lab File ID	: 22240614a-01	**Init. Calib. Date(s)**	: 04/12/24	04/12/24
Sample No	: WG1934262-1	**Init. Calib. Times**	: 06:35	08:08
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	110	0
Dalapon	0.211	0.238	-	-12.8	15	118	0
DCAA (surrogate)	0.206	0.215	-	-4.4	15	107	0
Dicamba	0.589	0.622	-	-5.6	15	107	0
MCPP	0.00052	0.00075	-	-44.2*	15	148	0
MCPA	0.00097	0.00136	-	-40.2*	15	144	0
Dichloroprop	0.193	0.199	-	-3.1	15	104	0
2,4-D	0.24	0.239	-	0.4	15	101	0
2,4,5-TP (Silvex)	0.868	0.878	-	-1.2	15	102	0
2,4,5-T	0.853	1.179	-	-38.2*	15	142	0
2,4-DB	0.132	0.125	-	5.3	15	96	0
Dinoseb	0.493	1.176	-	-138.5*	15	244	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 06/14/24 06:04
Lab File ID	: 22240614a-01	**Init. Calib. Date(s)**	: 04/12/24 04/12/24
Sample No	: WG1934262-1	**Init. Calib. Times**	: 06:35 08:08
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	124	0
Dalapon	0.197	0.213	-	-8.1	15	128	0
DCAA (surrogate)	0.203	0.203	-	0	15	116	0
Dicamba	0.594	0.584	-	1.7	15	115	0
MCPP	0.00074	0.00056	-	24.3*	15	90	0
MCPA	0.00124	0.00109	-	12.1	15	103	0
Dichloroprop	0.192	0.195	-	-1.6	15	118	0
2,4-D	0.237	0.276	-	-16.5*	15	138	0
2,4,5-TP (Silvex)	0.856	0.916	-	-7	15	125	0
2,4,5-T	0.831	0.764	-	8.1	15	108	0
2,4-DB	0.141	0.135	-	4.3	15	113	0
Dinoseb	0.491	0.596	-	-21.4*	15	144	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 06/14/24 13:39
Lab File ID	: 22240614a-25	**Init. Calib. Date(s)**	: 04/12/24 04/12/24
Sample No	: WG1934262-3	**Init. Calib. Times**	: 06:35 08:08
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	99	0
Dalapon	0.211	0.246	-	-16.6*	15	110	0
DCAA (surrogate)	0.206	0.219	-	-6.3	15	99	0
Dicamba	0.589	0.655	-	-11.2	15	102	0
MCPP	0.00052	0.0008	-	-53.8*	15	143	0
MCPA	0.00097	0.00139	-	-43.3*	15	134	0
Dichloroprop	0.193	0.196	-	-1.6	15	93	0
2,4-D	0.24	0.234	-	2.5	15	90	-.05
2,4,5-TP (Silvex)	0.868	0.863	-	0.6	15	91	-.02
2,4,5-T	0.853	0.862	-	-1.1	15	94	-.04
2,4-DB	0.132	0.117	-	11.4	15	81	-.05
Dinoseb	0.493	0.626	-	-27*	15	118	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 06/14/24 13:39
Lab File ID	: 22240614a-25	**Init. Calib. Date(s)**	: 04/12/24 04/12/24
Sample No	: WG1934262-3	**Init. Calib. Times**	: 06:35 08:08
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	113	0
Dalapon	0.197	0.228	-	-15.7*	15	124	0
DCAA (surrogate)	0.203	0.204	-	-0.5	15	106	0
Dicamba	0.594	0.615	-	-3.5	15	110	0
MCPP	0.00074	0.00065	-	12.2	15	96	0
MCPA	0.00124	0.00121	-	2.4	15	104	0
Dichloroprop	0.192	0.189	-	1.6	15	103	0
2,4-D	0.237	0.255	-	-7.6	15	115	-.01
2,4,5-TP (Silvex)	0.856	0.839	-	2	15	104	-.01
2,4,5-T	0.831	0.744	-	10.5	15	95	-.01
2,4-DB	0.141	0.118	-	16.3*	15	90	-.02
Dinoseb	0.491	0.553	-	-12.6	15	121	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST22	**Calibration Date**	: 06/14/24 17:59	
Lab File ID	: 22240614a-39	**Init. Calib. Date(s)**	: 04/12/24	04/12/24
Sample No	: WG1934262-4	**Init. Calib. Times**	: 06:35	08:08
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	121	0
Dalapon	0.211	0.217	-	-2.8	15	118	0
DCAA (surrogate)	0.206	0.202	-	1.9	15	110	0
Dicamba	0.589	0.596	-	-1.2	15	113	0
MCPP	0.00052	0.00077	-	-48.1*	15	166	0
MCPA	0.00097	0.0013	-	-34*	15	151	0
Dichloroprop	0.193	0.192	-	0.5	15	111	0
2,4-D	0.24	0.231	-	3.7	15	108	-.04
2,4,5-TP (Silvex)	0.868	0.872	-	-0.5	15	111	-.02
2,4,5-T	0.853	0.921	-	-8	15	121	-.03
2,4-DB	0.132	0.126	-	4.5	15	106	-.05
Dinoseb	0.493	0.709	-	-43.8*	15	162	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/14/24 17:59		
Lab File ID	: 22240614a-39	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1934262-4	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	135	0
Dalapon	0.197	0.205	-	-4.1	15	133	0
DCAA (surrogate)	0.203	0.197	-	3	15	123	0
Dicamba	0.594	0.578	-	2.7	15	124	0
MCPP	0.00074	0.0006	-	18.9*	15	105	0
MCPA	0.00124	0.0011	-	11.3	15	113	0
Dichloroprop	0.192	0.188	-	2.1	15	123	0
2,4-D	0.237	0.265	-	-11.8	15	143	-.01
2,4,5-TP (Silvex)	0.856	0.905	-	-5.7	15	134	0
2,4,5-T	0.831	0.818	-	1.6	15	126	-.01
2,4-DB	0.141	0.138	-	2.1	15	126	-.02
Dinoseb	0.491	0.599	-	-22*	15	157	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 Jun 2024 06:04
Operator : pest22:akm
Sample   : wg1934262-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1934262,,ical21040
ALS Vial : 1   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 06:23:46 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	110	0.00
2	t	Dalapon		0.211	0.238	-12.8	118	0.00
3	s	DCAA (surrogate)		0.206	0.215	-4.4	107	0.00
4	t	Dicamba		0.589	0.622	-5.6	107	0.00
5	t	MCPP		0.00052	0.00075	-44.2#	148	0.00
6	t	MCPA		0.00097	0.00136	-40.2#	144	0.00
7	t	Dichloroprop		0.193	0.199	-3.1	104	0.00
8	t	2,4-D		0.240	0.239	0.4	101	0.00
9	t	2,4,5-TP (Silvex)		0.868	0.878	-1.2	102	0.00
10	t	2,4,5-T		0.853	1.179	-38.2#	142	0.00
11	t	2,4-DB		0.132	0.125	5.3	96	0.00
12	t	Dinoseb		0.493	1.176	-138.5#	244#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	124	0.00
2	t	Dalapon		0.197	0.213	-8.1	128	0.00
3	s	DCAA (surrogate)		0.203	0.203	0.0	116	0.00
4	t	Dicamba		0.594	0.584	1.7	115	0.00
5	t	MCPP		0.00074	0.00056	24.3#	90	0.00
6	t	MCPA		0.00124	0.00109	12.1	103	0.00
7	t	Dichloroprop		0.192	0.195	-1.6	118	0.00
8	t	2,4-D		0.237	0.276	-16.5#	138	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.916	-7.0	125	0.00
10	t	2,4,5-T		0.831	0.764	8.1	108	0.00
11	t	2,4-DB		0.141	0.135	4.3	113	0.00
12	t	Dinoseb		0.491	0.596	-21.4#	144	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 Jun 2024 06:04
Operator : pest22:akm
Sample   : wg1934262-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1934262,,ical21040
ALS Vial : 1   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 06:23:46 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:04
Operator : pest22:akm
Sample : wg1934262-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 06:23:46 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
	Internal Standards							
1) i	4,4'-DBOB	8.525	8.525	816.0E6	847.8E6	0.250M4	0.250M4	
	System Monitoring Compounds							
3) s	DCAA (surrog	6.984	7.456	132.1E6	129.4E6	0.197	0.188	
	Spiked Amount	0.500	Range 30 - 150		Recovery =	39.40%	37.60%	
	Target Compounds							
2) t	Dalapon	2.383	2.383	141.7E6	131.7E6	0.205M3	0.197M4	
4) t	Dicamba	7.165	7.636	381.7E6	372.4E6	0.199	0.185	
5) t	MCPP	7.365	7.747	45935608	35547204	27.011M4	14.241M4	D
6) t	MCPA	7.512	7.974	82316874	68603325	26.090M4	16.317M4	D
7) t	Dichloroprop	7.871	8.293	121.9E6	124.6E6	0.193	0.191	
8) t	2,4-D	8.135	8.583	146.5E6	176.2E6	0.187	0.219	
9) t	2,4,5-TP (Si	8.825	9.234	544.4E6	590.2E6	0.192	0.203	
10) t	2,4,5-T	9.066	9.530	730.9E6	492.5E6	0.263	0.175	D
11) t	2,4-DB	9.488	9.895	78230596	87631825	0.181M4	0.184M4	
12) t	Dinoseb	10.184	10.102	729.3E6	383.8E6	0.453	0.230	D
	SemiQuant Compounds - Not Calibrated on this Instrument							

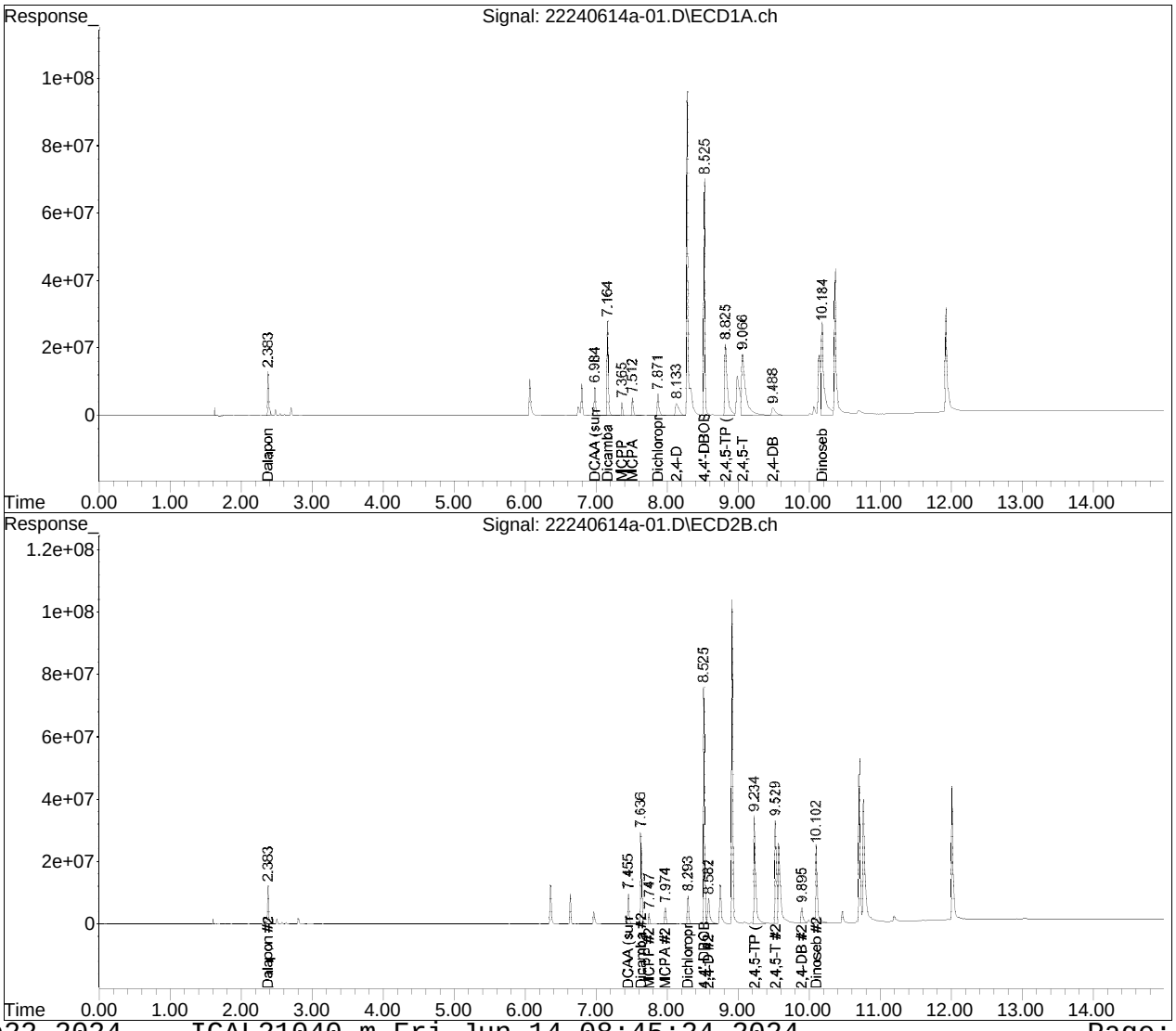
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:04
Operator : pest22:akm
Sample : wg1934262-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 06:23:46 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:39 2024
Response via : Initial Calibration
Integrator: ChemStation

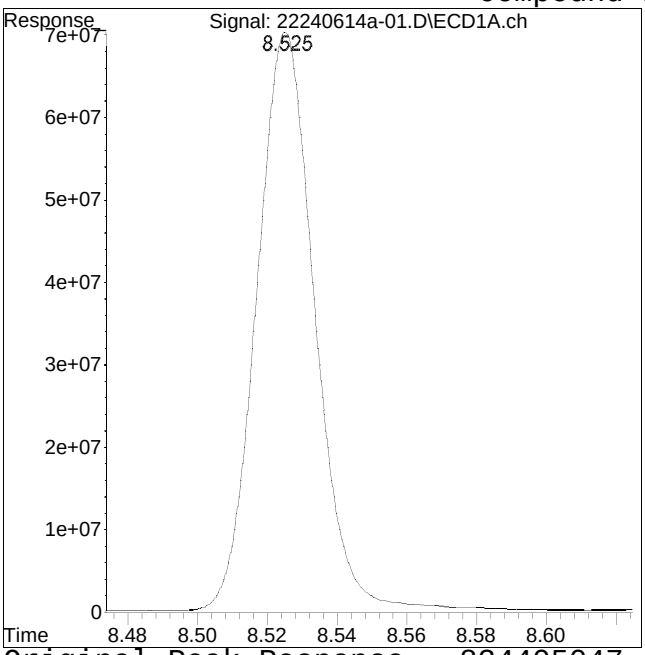
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

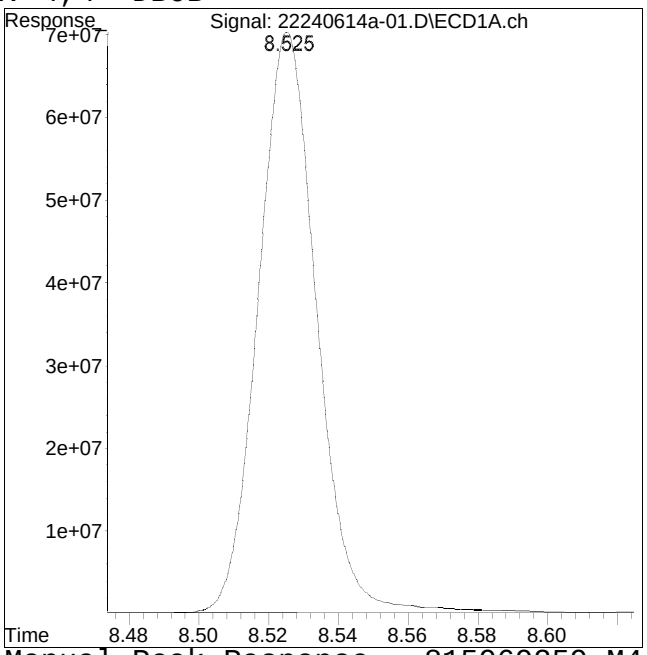


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #1: 4,4'-DBOB



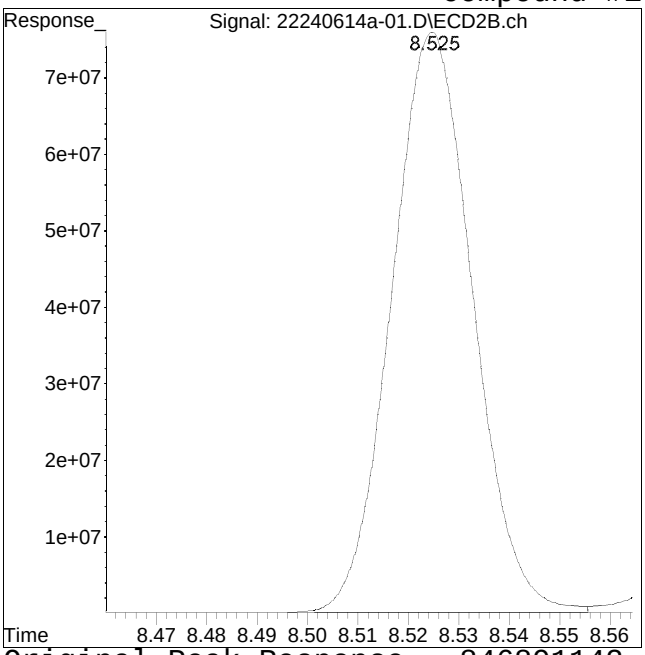


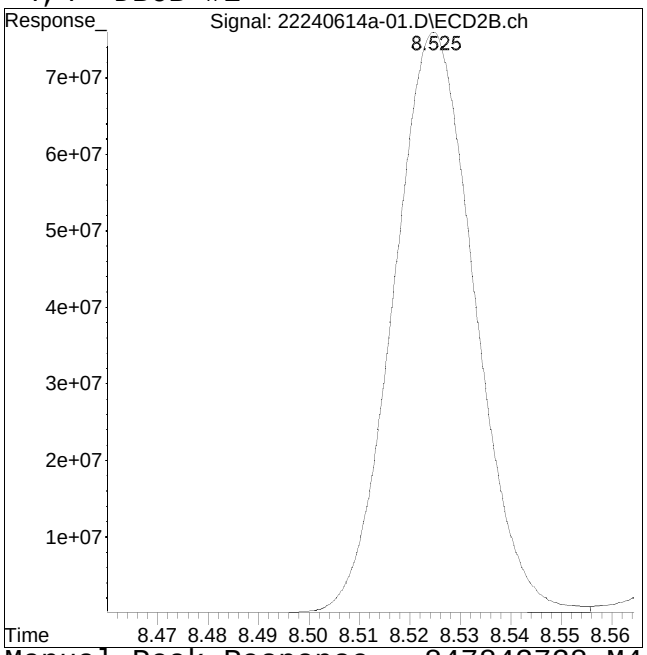
Original Peak Response = 834405047 Manual Peak Response = 815969259 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #14: 4,4'-DBOB #2



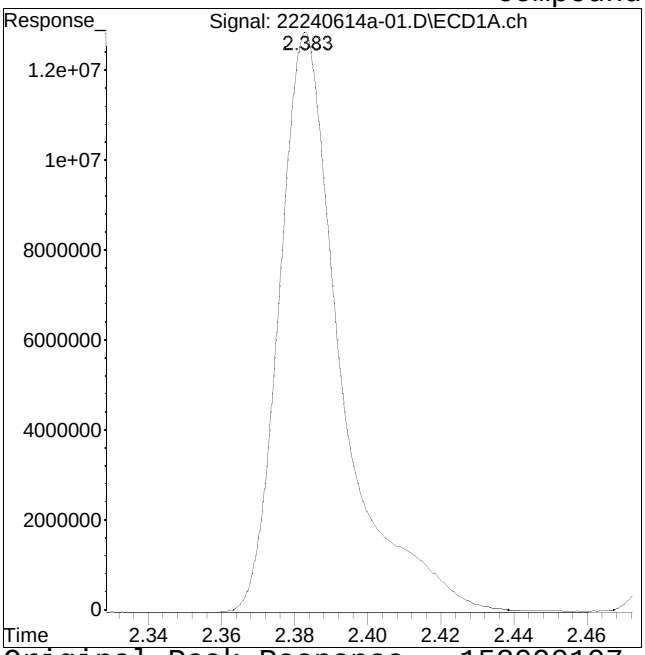


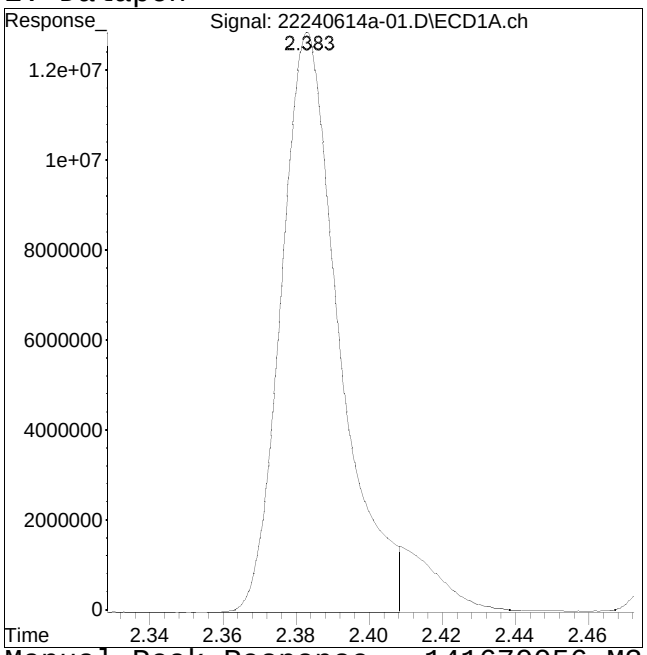
Original Peak Response = 846891142 Manual Peak Response = 847843738 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #2: Dalapon



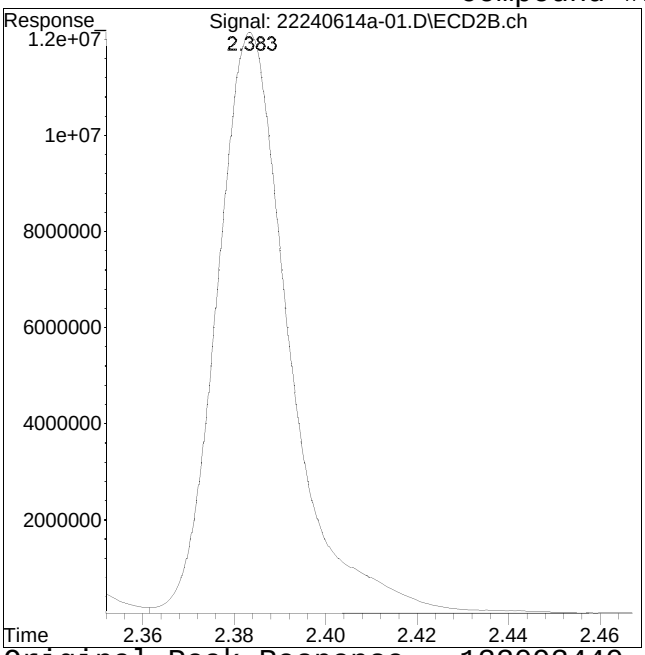


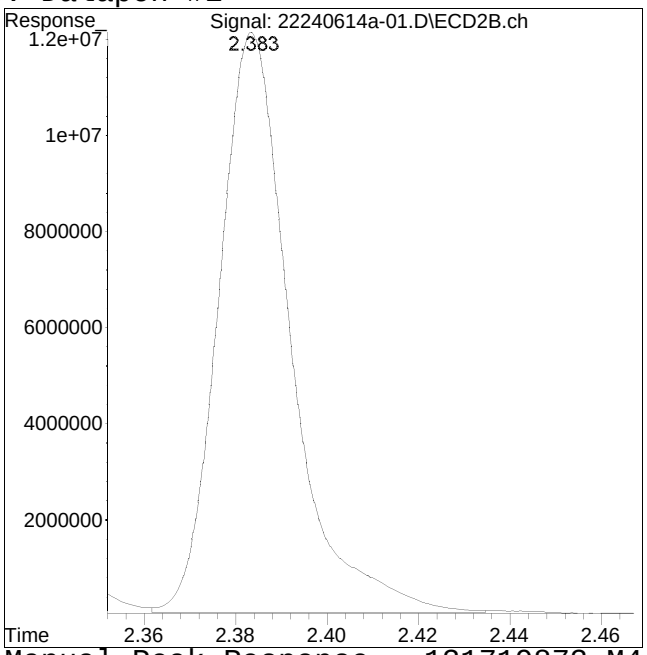
Original Peak Response = 153090107 Manual Peak Response = 141670056 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #15: Dalapon #2



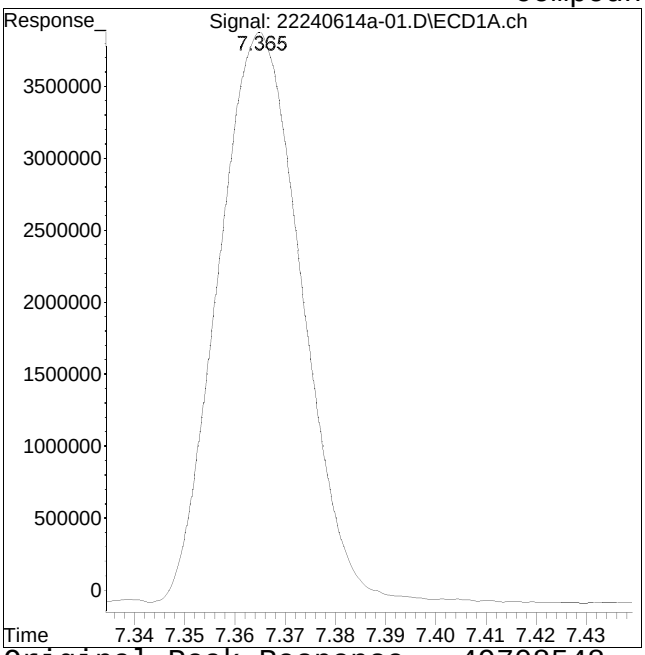


Original Peak Response = 133093440 Manual Peak Response = 131719873 M4
M4 = Poor automated baseline construction.

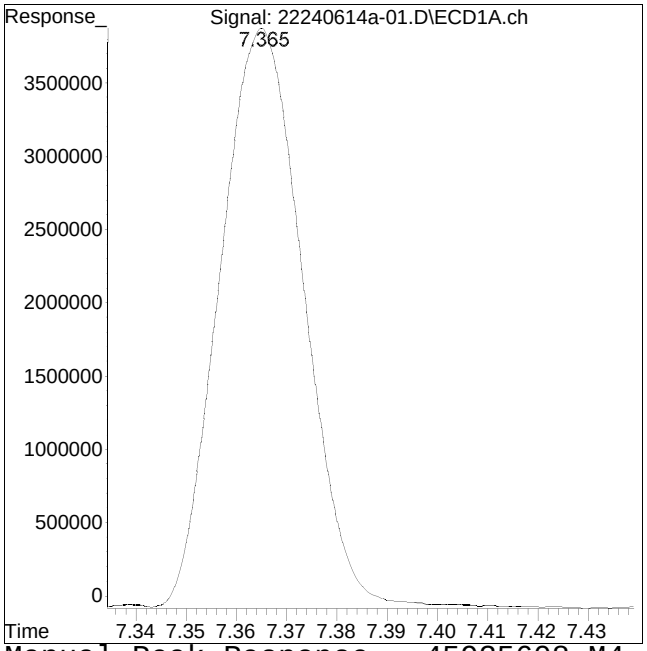
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #5: MCPP



Original Peak Response = 49708548



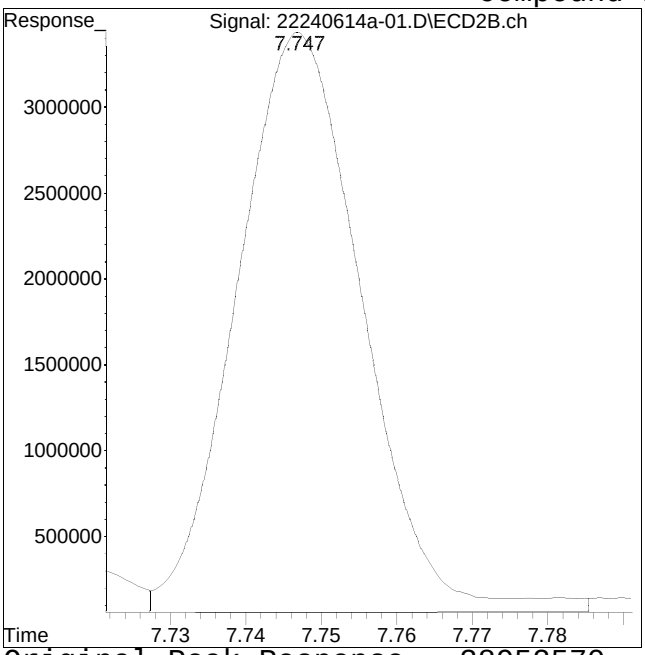
Manual Peak Response = 45935608 M4

M4 = Poor automated baseline construction.

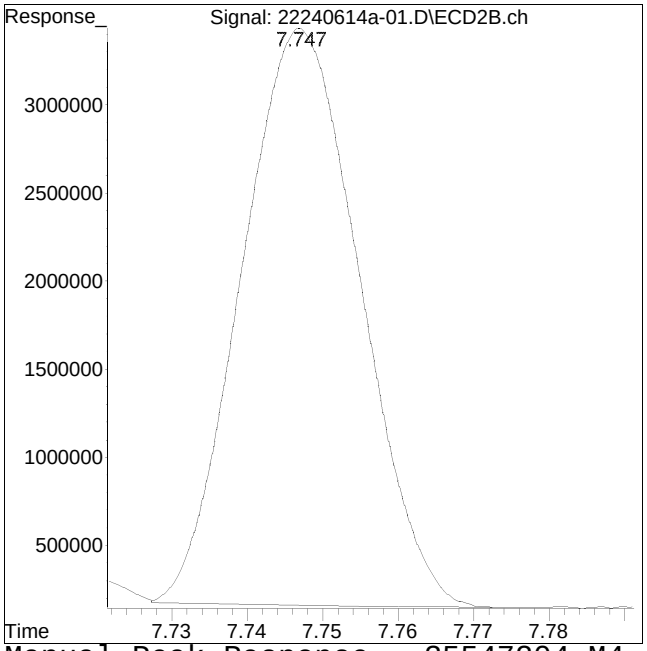
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #18: MCPP #2



Original Peak Response = 38952570



Manual Peak Response = 35547204 M4

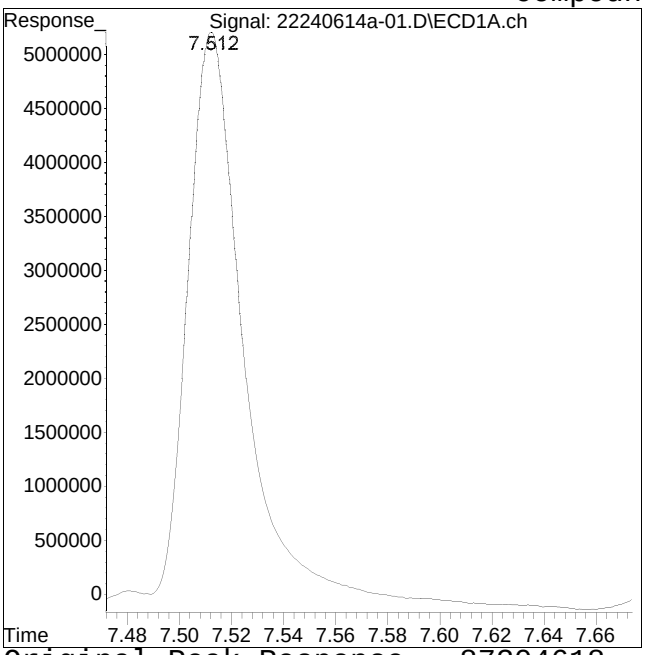
M4 = Poor automated baseline construction.

Manual Integration Report

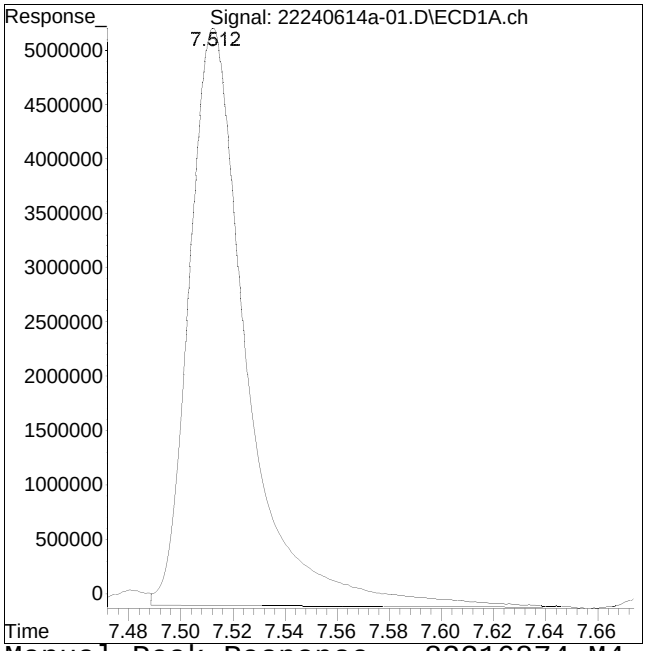
Data Path : I:\PEST\Pest22\2024\240614Q
Data File : 22240614a-01.D
Date Inj'd : 6/14/2024 6:04
Sample : wg1934262-1,42,,herb11561

Method : Herb22_2024_04_12_mgL_IC
Operator : pest22:akm
Instrument : Pest22
Quant Date : 6/14/2024 6:23 am

Compound #6: MCPA



Original Peak Response = 87304618



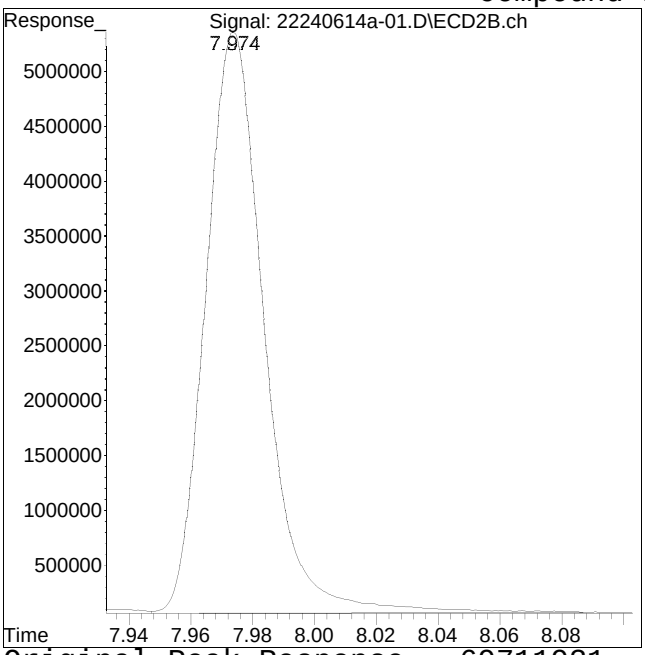
Manual Peak Response = 82316874 M4

M4 = Poor automated baseline construction.

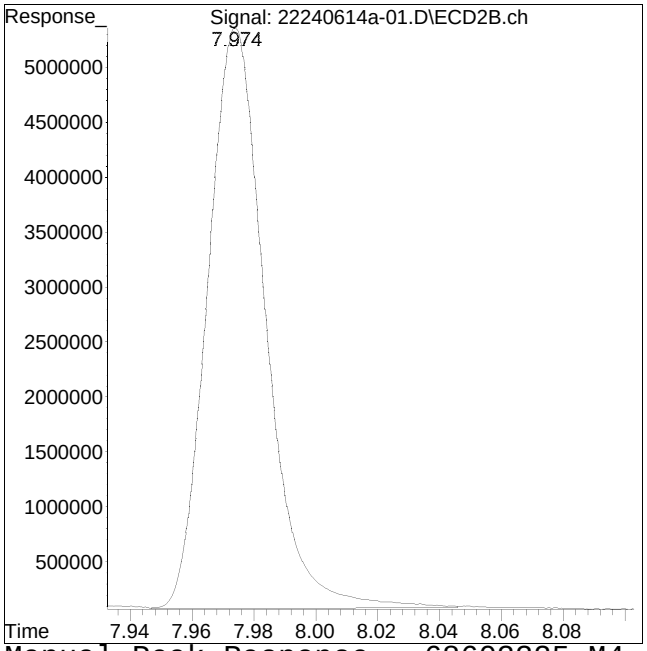
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #19: MCPA #2



Original Peak Response = 69711931



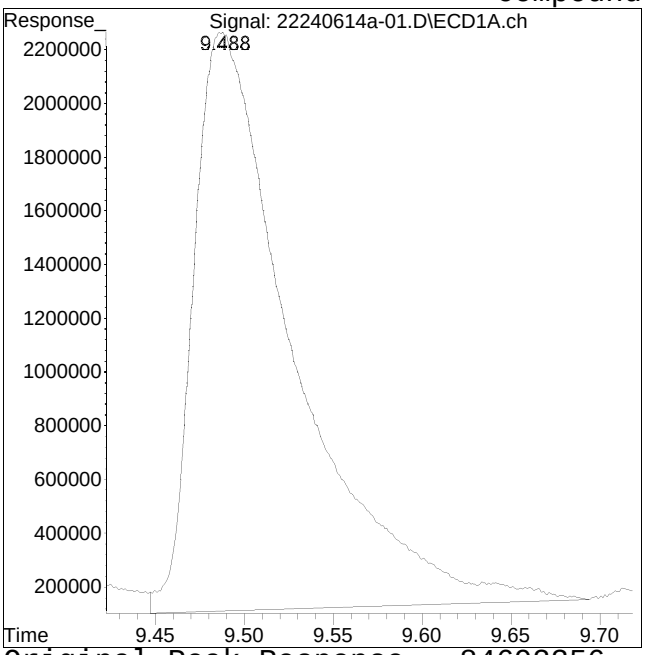
Manual Peak Response = 68603325 M4

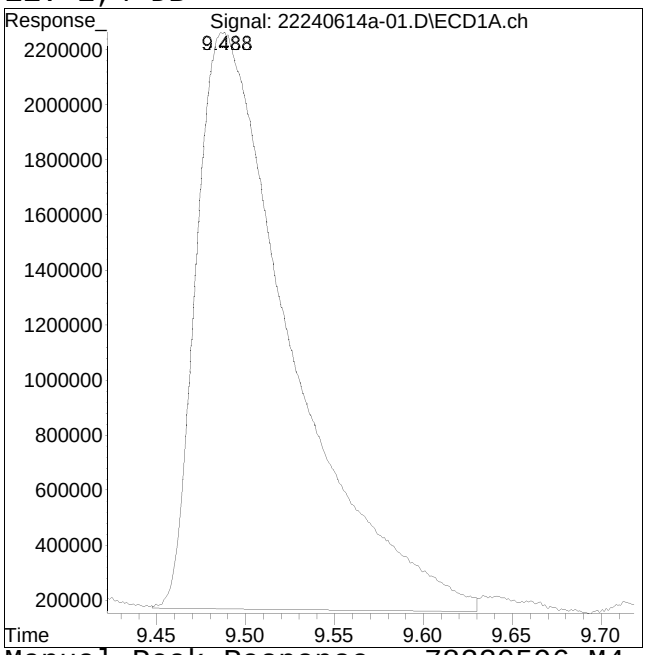
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-01.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:04 Instrument : Pest22
Sample : wg1934262-1,42,,herb11561 Quant Date : 6/14/2024 6:23 am

Compound #11: 2,4-DB





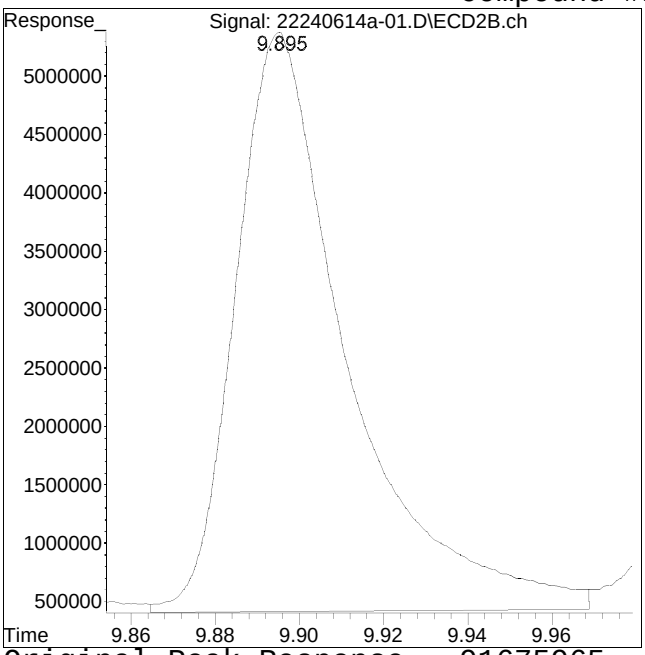
Original Peak Response = 84692356 Manual Peak Response = 78230596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

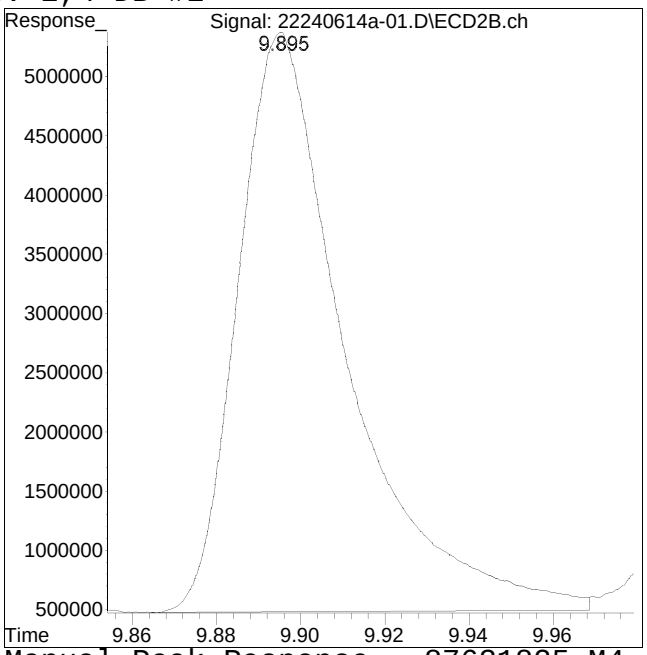
Data Path : I:\PEST\Pest22\2024\240614Q
Data File : 22240614a-01.D
Date Inj'd : 6/14/2024 6:04
Sample : wg1934262-1,42,,herb11561

Method : Herb22_2024_04_12_mgL_IC
Operator : pest22:akm
Instrument : Pest22
Quant Date : 6/14/2024 6:23 am

Compound #24: 2,4-DB #2



Original Peak Response = 91675965



Manual Peak Response = 87631825 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 Jun 2024 01:39 pm
Operator : pest22:ejl
Sample   : wg1934262-3,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1934262,,ical21040
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 17:56:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	99	0.00
2	t	Dalapon		0.211	0.246	-16.6#	110	0.00
3	s	DCAA (surrogate)		0.206	0.219	-6.3	99	0.00
4	t	Dicamba		0.589	0.655	-11.2	102	0.00
5	t	MCPP		0.00052	0.00080	-53.8#	143	0.00
6	t	MCPA		0.00097	0.00139	-43.3#	134	0.00
7	t	Dichloroprop		0.193	0.196	-1.6	93	0.00
8	t	2,4-D		0.240	0.234	2.5	90	-0.05
9	t	2,4,5-TP (Silvex)		0.868	0.863	0.6	91	-0.02
10	t	2,4,5-T		0.853	0.862	-1.1	94	-0.04
11	t	2,4-DB		0.132	0.117	11.4	81	-0.05
12	t	Dinoseb		0.493	0.626	-27.0#	118	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	113	0.00
2	t	Dalapon		0.197	0.228	-15.7#	124	0.00
3	s	DCAA (surrogate)		0.203	0.204	-0.5	106	0.00
4	t	Dicamba		0.594	0.615	-3.5	110	0.00
5	t	MCPP		0.00074	0.00065	12.2	96	0.00
6	t	MCPA		0.00124	0.00121	2.4	104	0.00
7	t	Dichloroprop		0.192	0.189	1.6	103	0.00
8	t	2,4-D		0.237	0.255	-7.6	115	-0.01
9	t	2,4,5-TP (Silvex)		0.856	0.839	2.0	104	-0.01
10	t	2,4,5-T		0.831	0.744	10.5	95	-0.01
11	t	2,4-DB		0.141	0.118	16.3#	90	-0.02
12	t	Dinoseb		0.491	0.553	-12.6	121	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 Jun 2024 01:39 pm
Operator : pest22:ejl
Sample   : wg1934262-3,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1934262,,ical21040
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 17:56:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 01:39 pm
Operator : pest22:ejl
Sample : wg1934262-3,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 17:56:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
		Internal Standards							
1)	i	4,4'-DBOB	8.529	8.525	737.8E6	768.1E6	0.250M4	0.250M4	
		System Monitoring Compounds							
3)	s	DCAA (surrog	6.986	7.455	121.6E6	117.8E6	0.200	0.189M4	
		Spiked Amount 0.500	Range 30 - 150		Recovery =		40.00%	37.80%	
		Target Compounds							
2)	t	Dalapon	2.384	2.383	132.3E6	127.5E6	0.212M3	0.210	
4)	t	Dicamba	7.168	7.636	363.7E6	355.1E6	0.209M4	0.195M4	
5)	t	MCPP	7.370	7.748	44638137	37785236	29.028	16.709	D
6)	t	MCPA	7.517	7.974	76507159	69426475	26.818	18.226	
7)	t	Dichloroprop	7.872	8.292	108.9E6	109.0E6	0.191M4	0.185M4	
8)	t	2,4-D	8.089f	8.569	129.6E6	147.0E6	0.183M2	0.202	
9)	t	2,4,5-TP (Si	8.801f	9.224	483.7E6	489.9E6	0.189M4	0.186M4	
10)	t	2,4,5-T	9.027f	9.516	483.4E6	434.4E6	0.192M2	0.170	
11)	t	2,4-DB	9.437f	9.878f	66113093	69671639	0.170M3	0.161M4	
12)	t	Dinoseb	10.178	10.097	351.0E6	322.6E6	0.241M3	0.214M3	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 01:39 pm
Operator : pest22:ejl
Sample : wg1934262-3,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 17:56:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

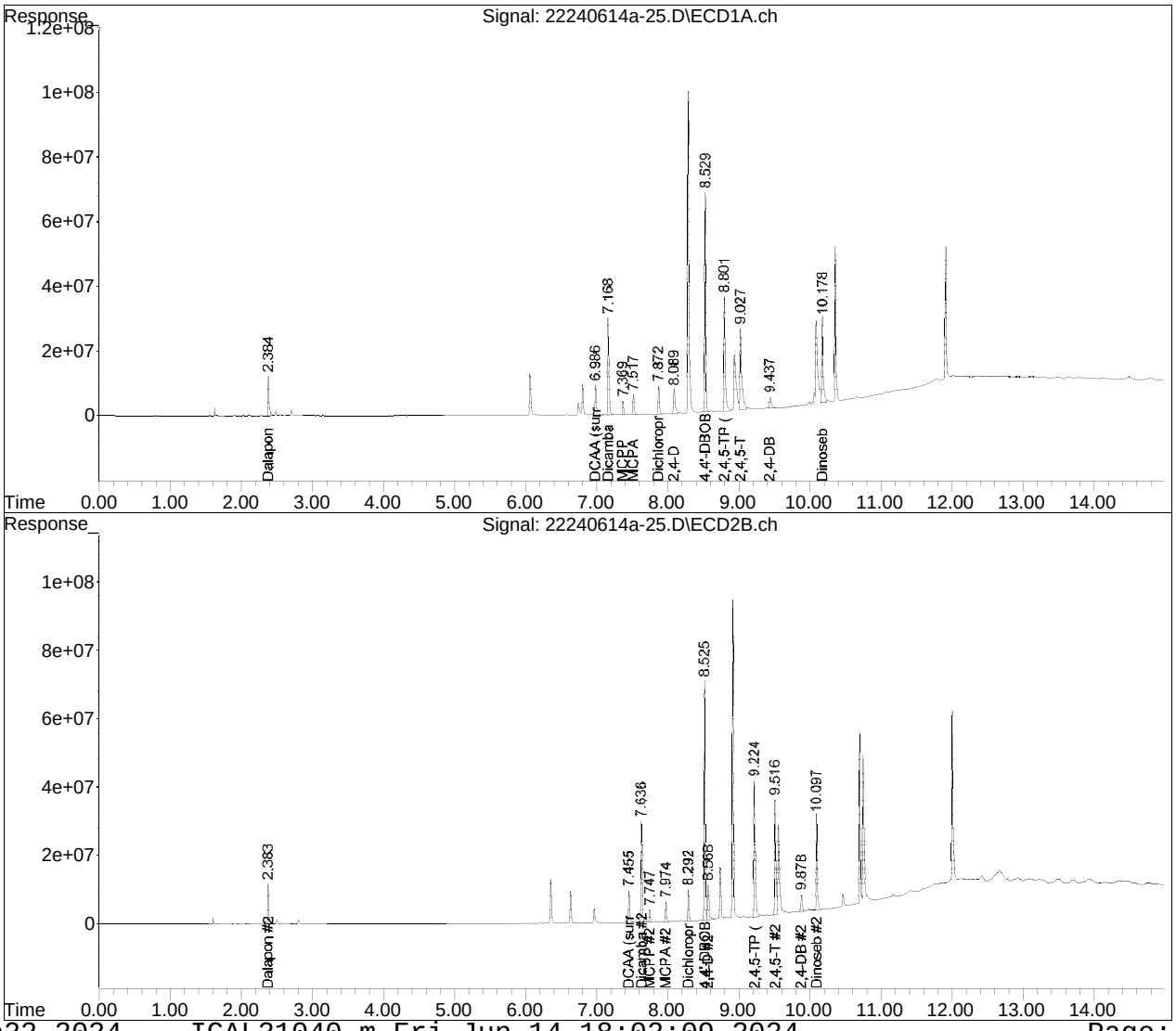
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 01:39 pm
Operator : pest22:ejl
Sample : wg1934262-3,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 17:56:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

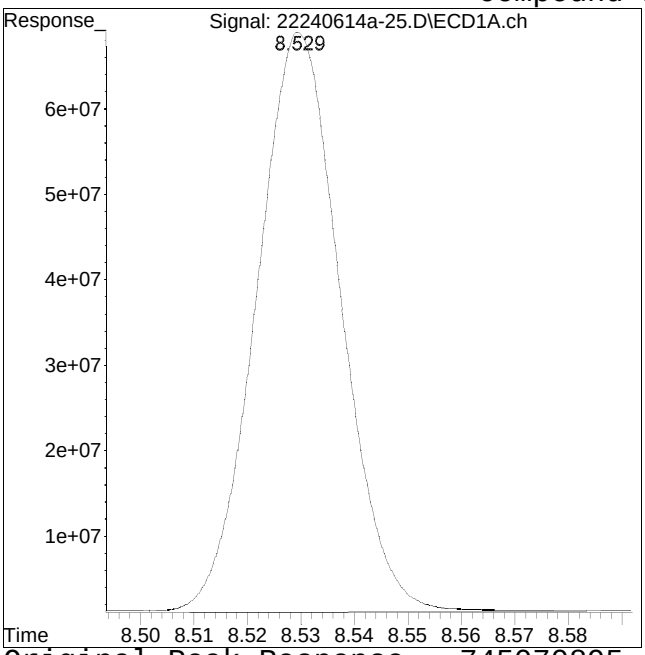
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

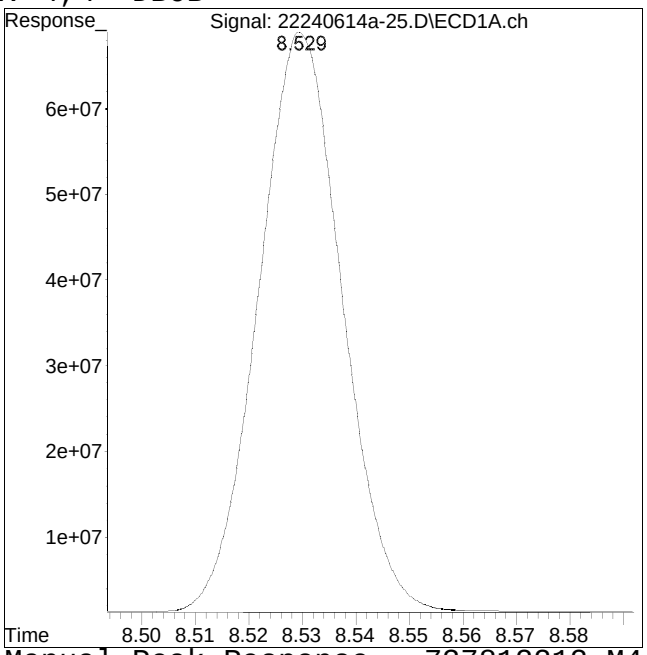


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #1: 4,4'-DBOB



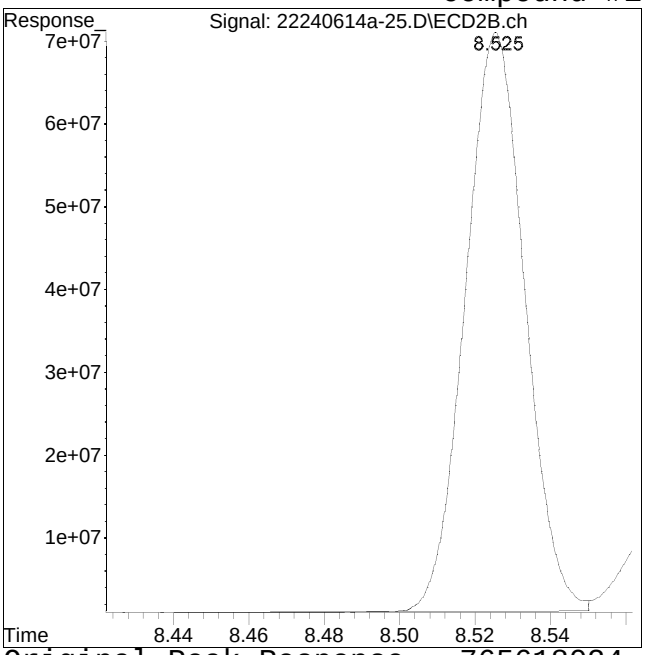


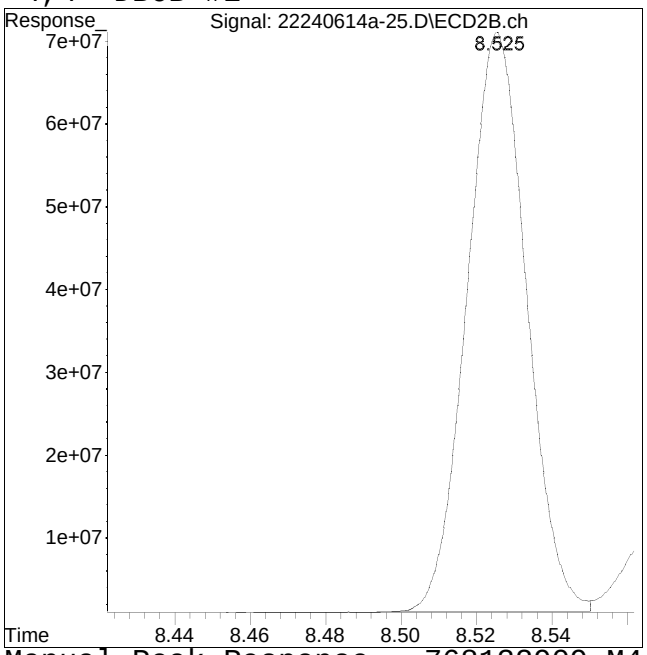
Original Peak Response = 745070895 Manual Peak Response = 737812212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #14: 4,4'-DBOB #2



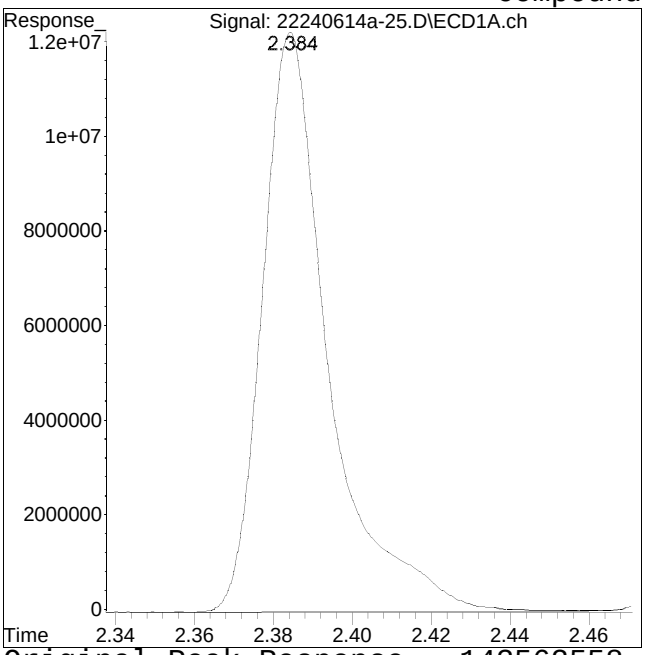


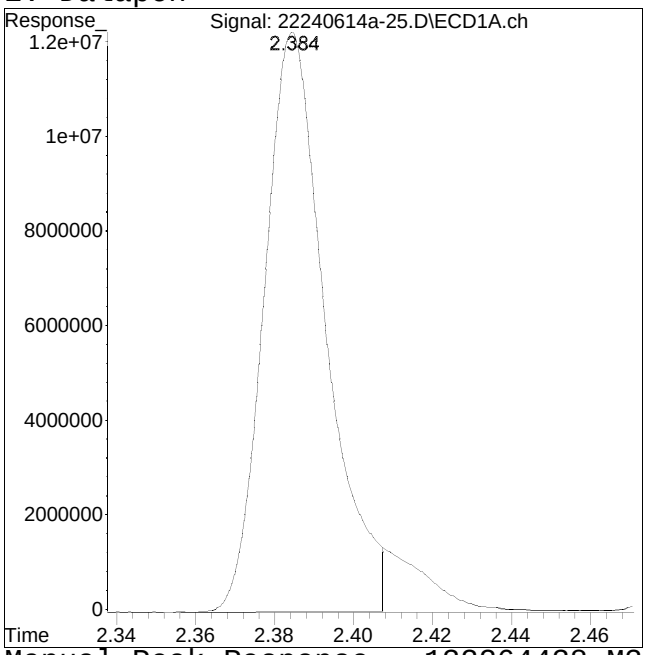
Original Peak Response = 765618024 Manual Peak Response = 768132909 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #2: Dalapon



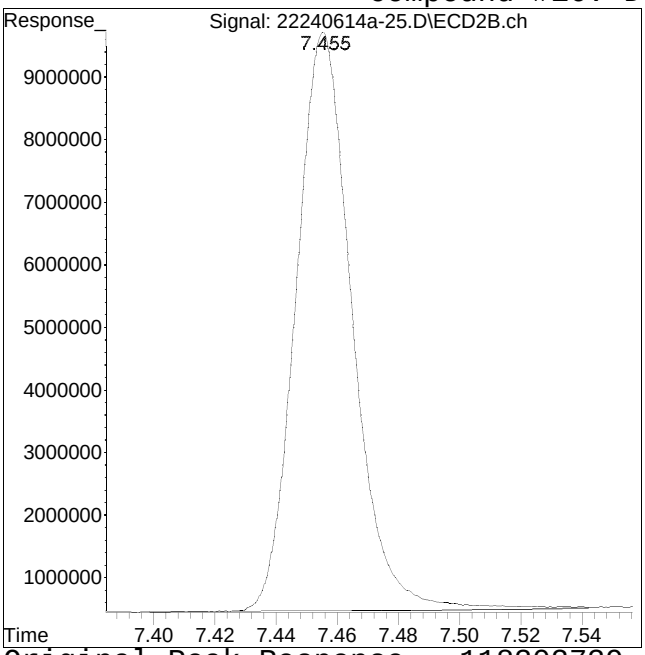


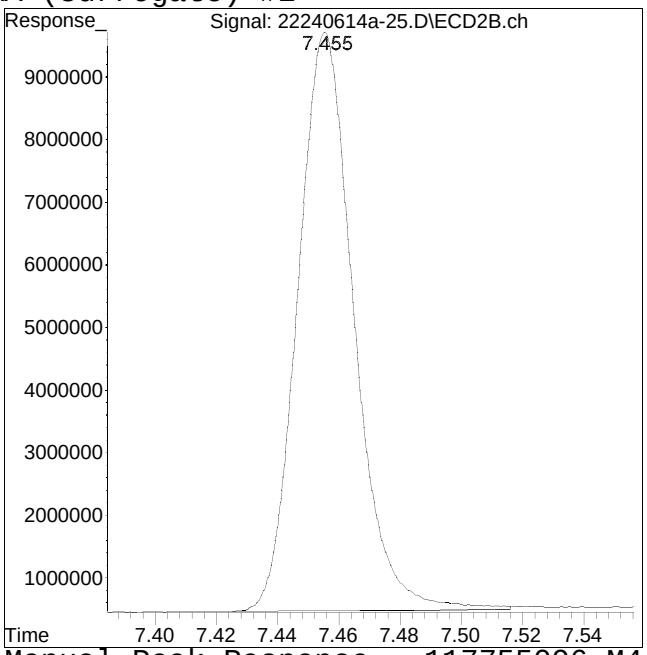
Original Peak Response = 143562558 Manual Peak Response = 132264438 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #16: DCAA (surrogate) #2



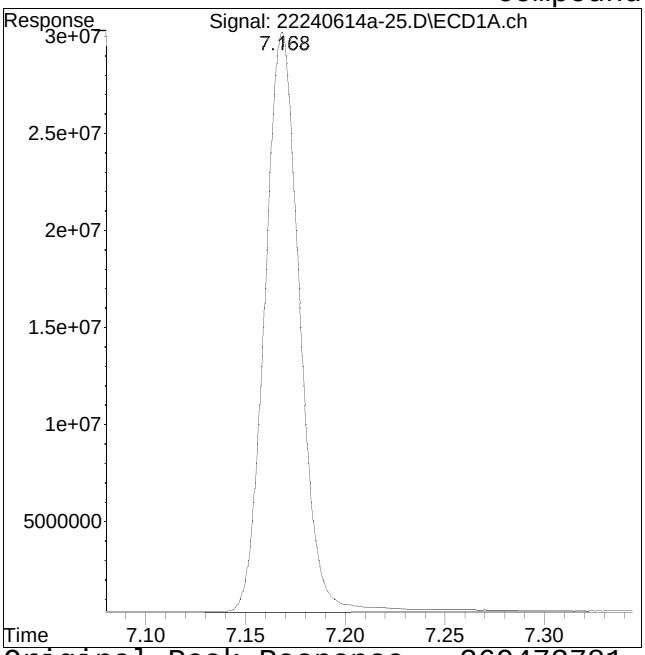


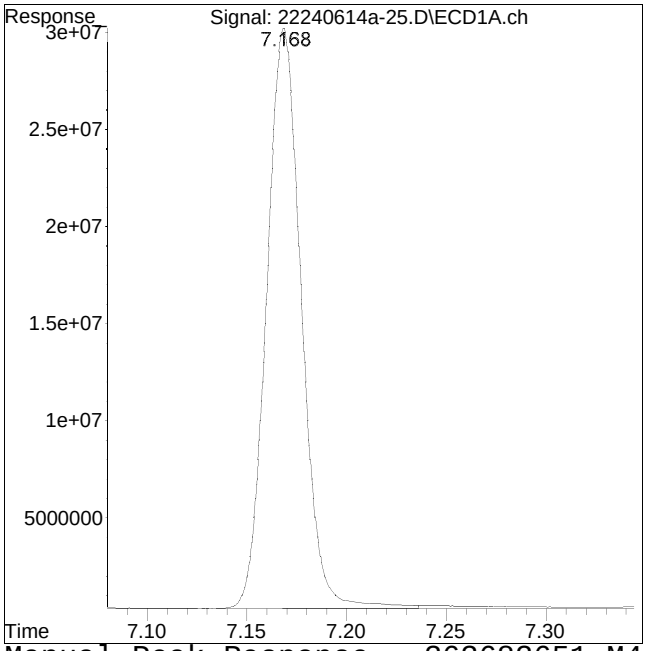
Original Peak Response = 118302739 Manual Peak Response = 117755096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #4: Dicamba



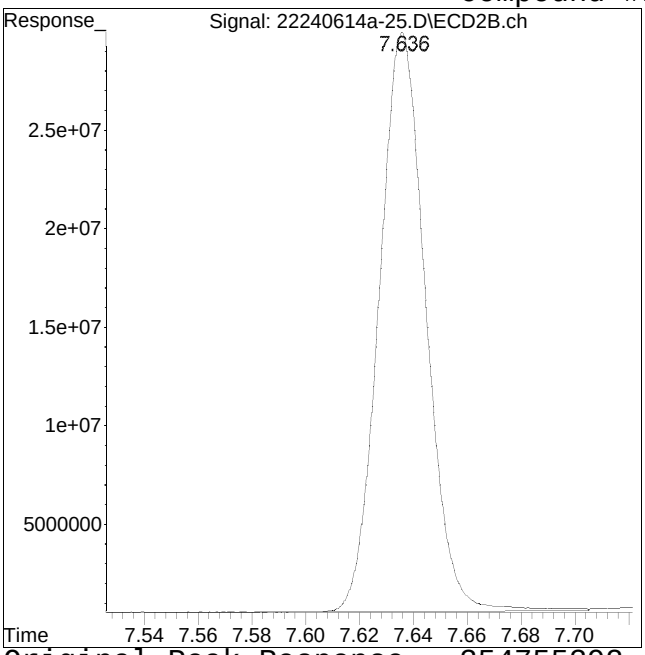


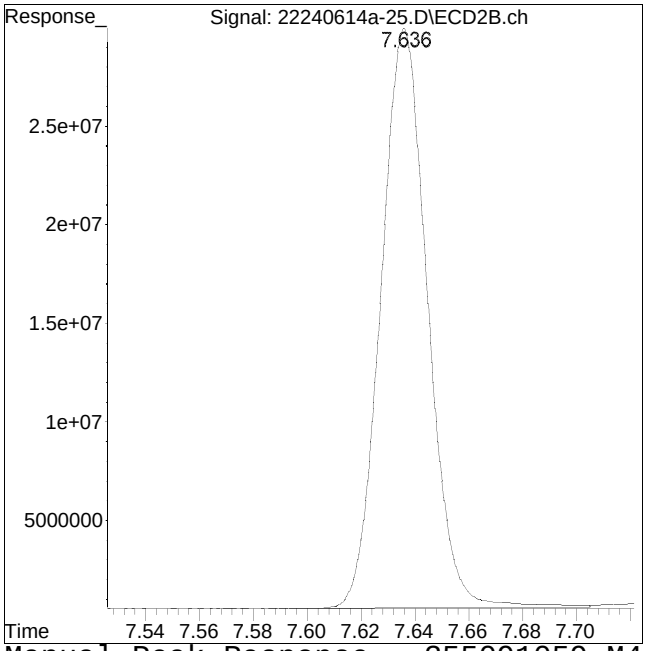
Original Peak Response = 369473781 Manual Peak Response = 363683651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #17: Dicamba #2



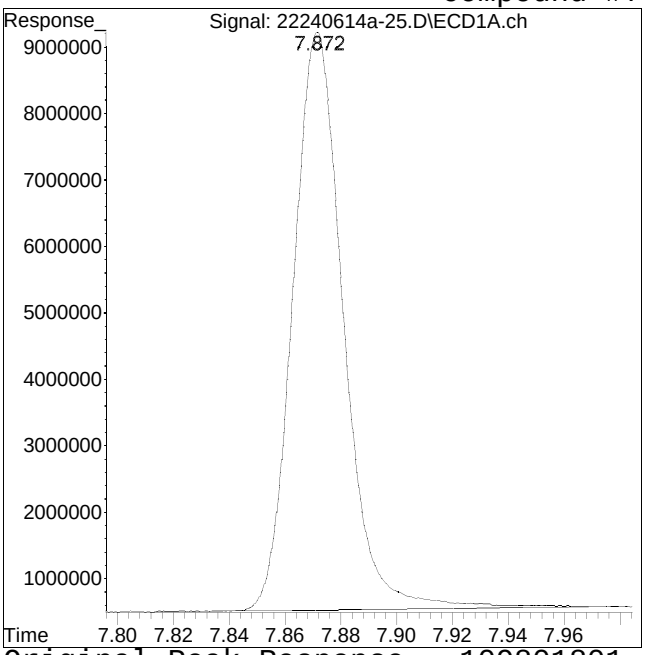


Original Peak Response = 354755392 Manual Peak Response = 355091059 M4
M4 = Poor automated baseline construction.

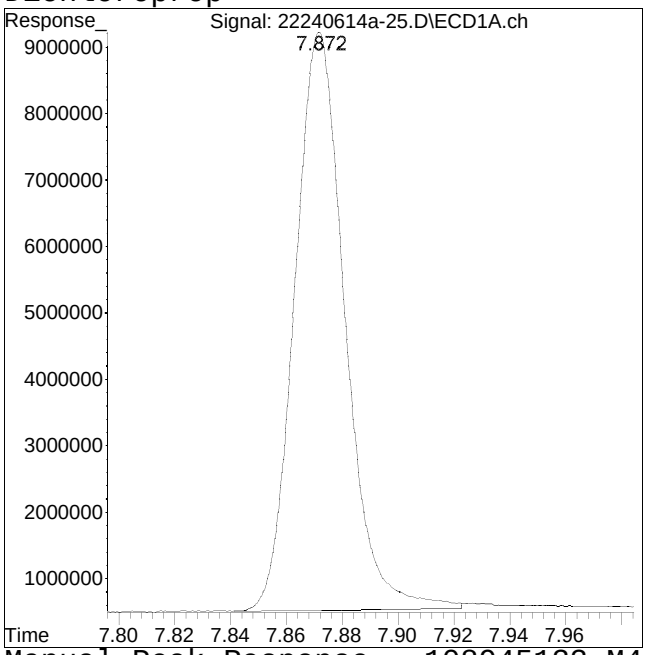
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #7: Dichloroprop



Original Peak Response = 109801801



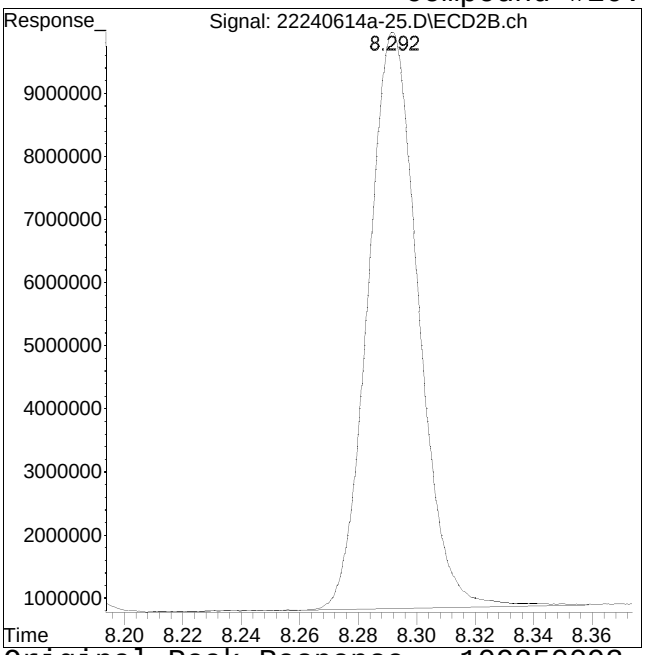
Manual Peak Response = 108945133 M4

M4 = Poor automated baseline construction.

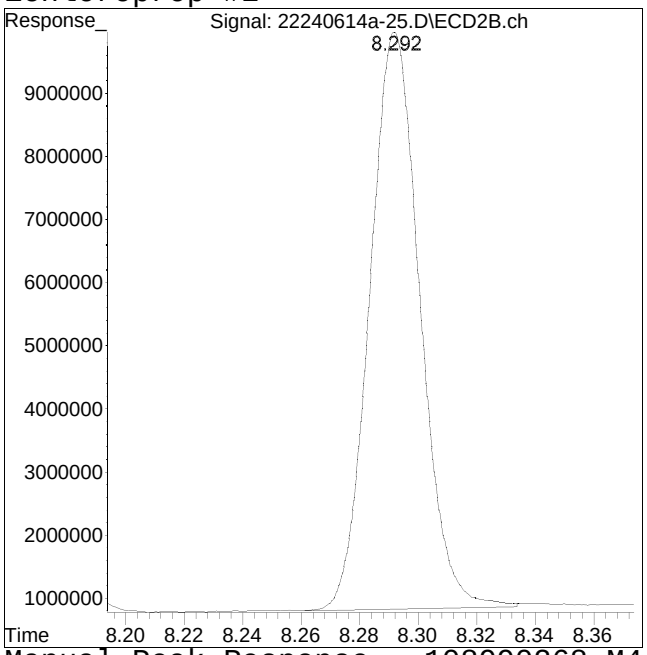
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #20: Dichloroprop #2



Original Peak Response = 109250093



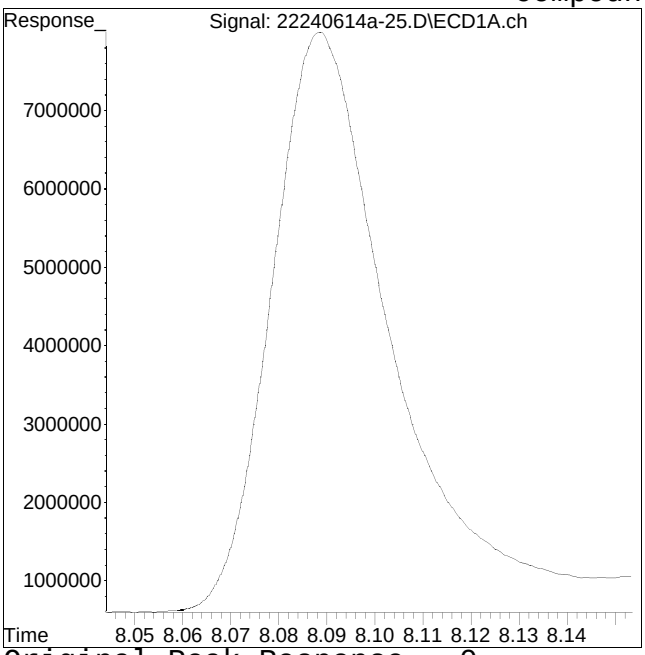
Manual Peak Response = 108990268 M4

M4 = Poor automated baseline construction.

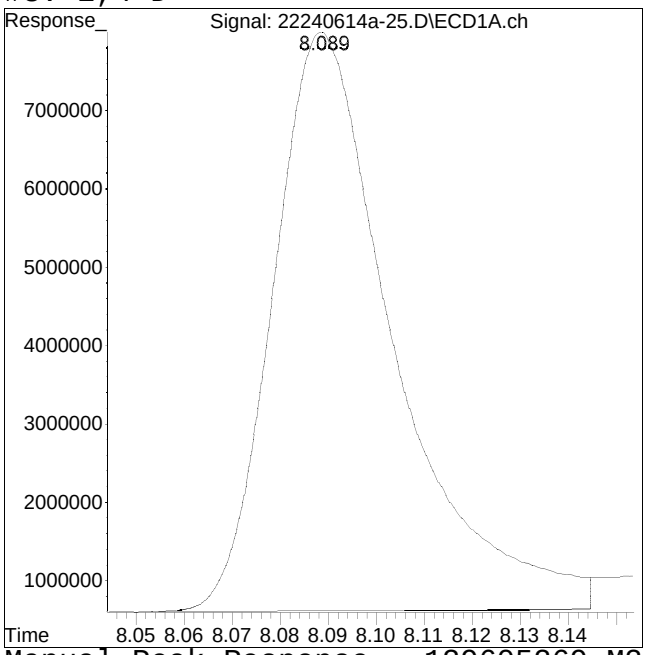
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #8: 2,4-D



Original Peak Response = 0



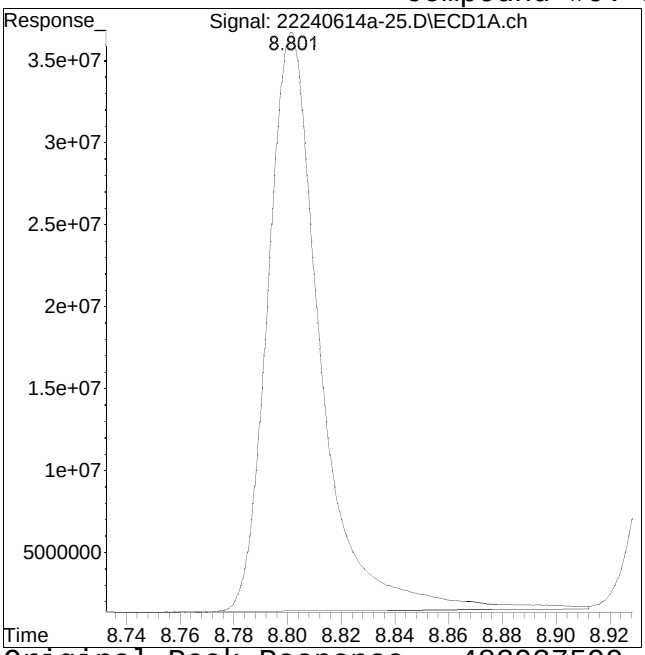
Manual Peak Response = 129605269 M2

M2 = Peak not found by automatic integration algorithm.

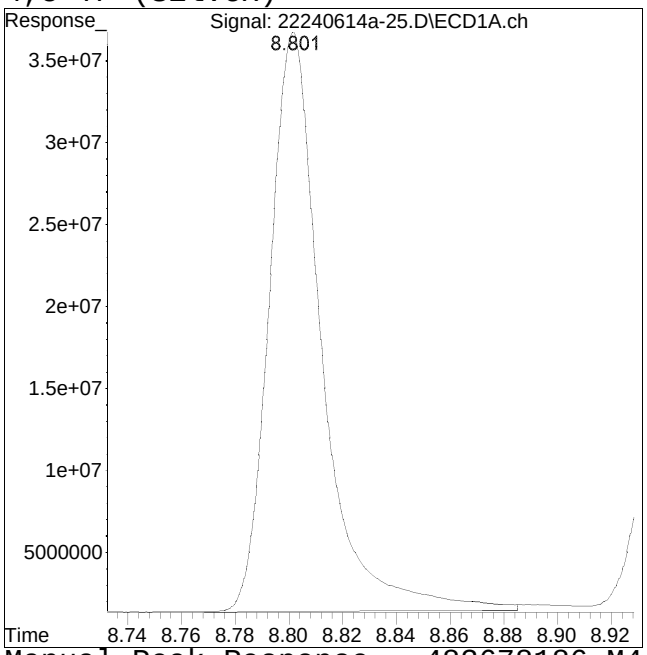
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 483937599

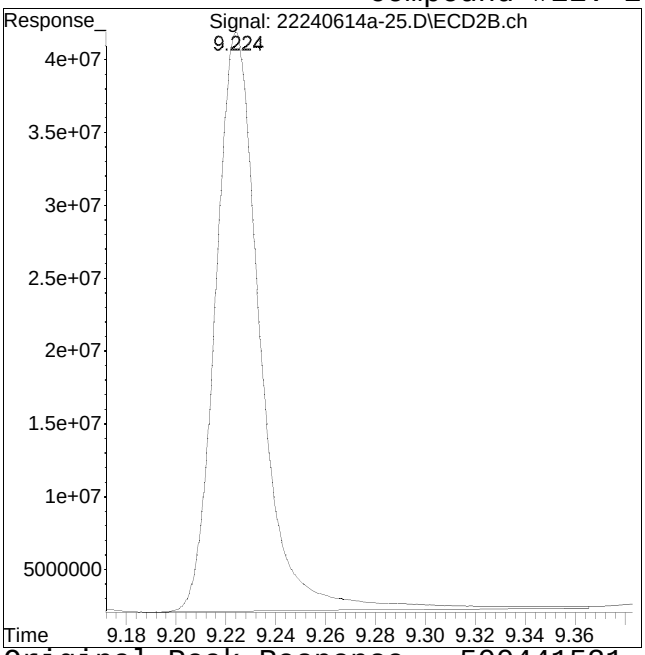


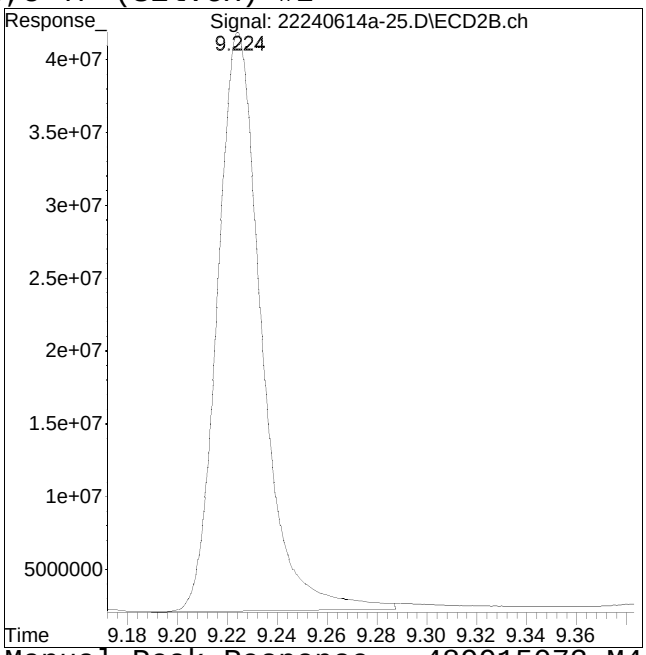
Manual Peak Response = 483678186 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #22: 2,4,5-TP (Silvex) #2



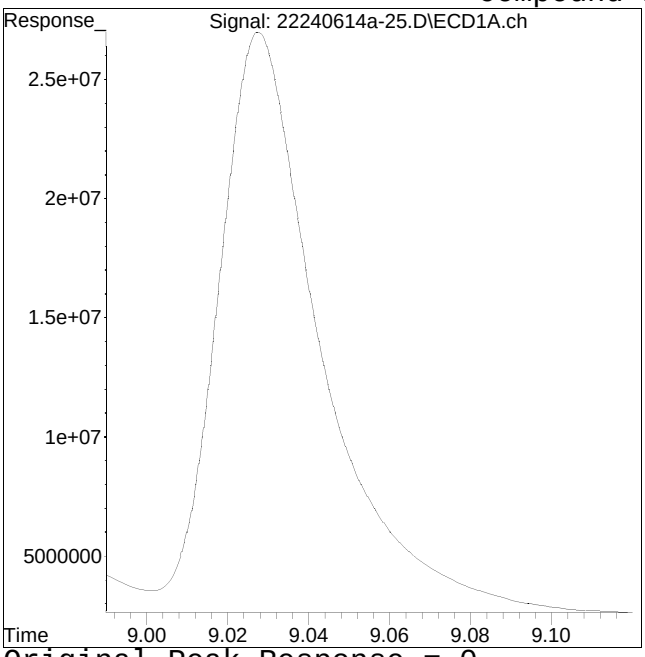


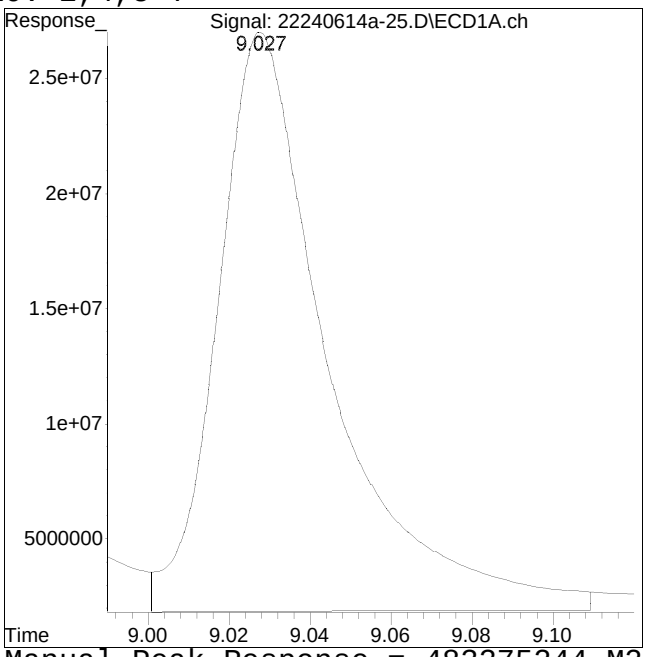
Original Peak Response = 500441521 Manual Peak Response = 489915073 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #10: 2,4,5-T



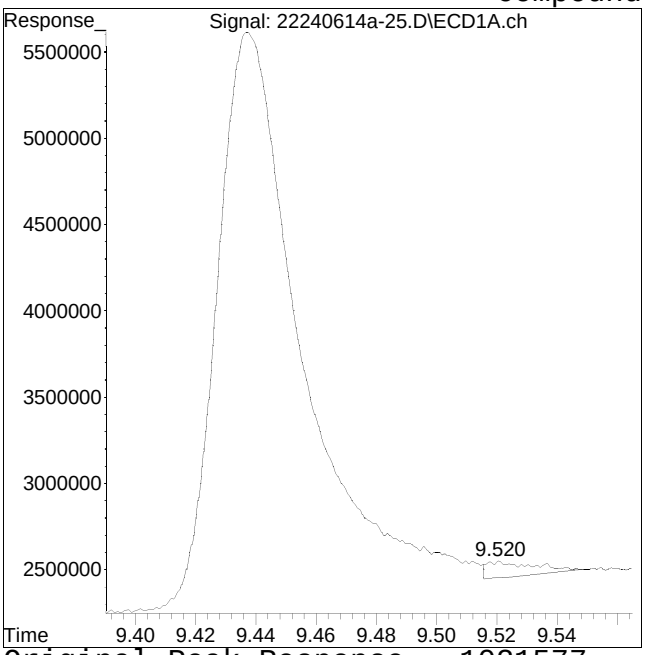


Original Peak Response = 0 Manual Peak Response = 483375244 M2
M2 = Peak not found by automatic integration algorithm.

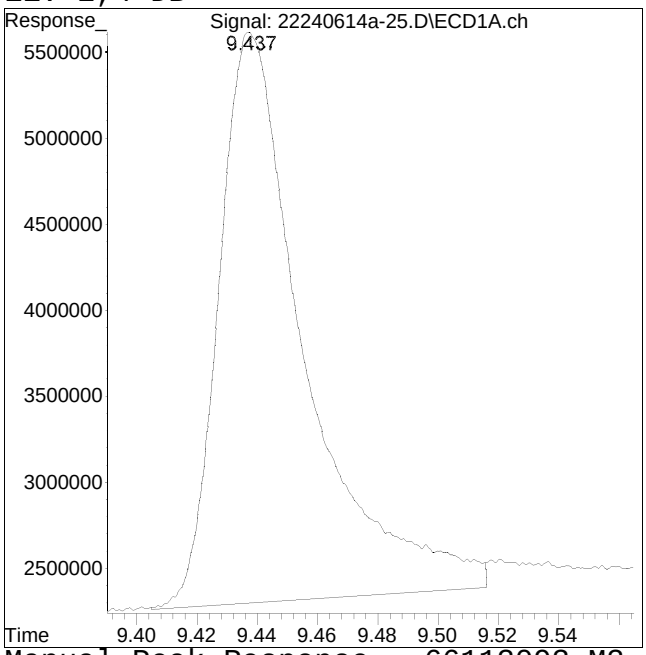
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #11: 2,4-DB



Original Peak Response = 1021577



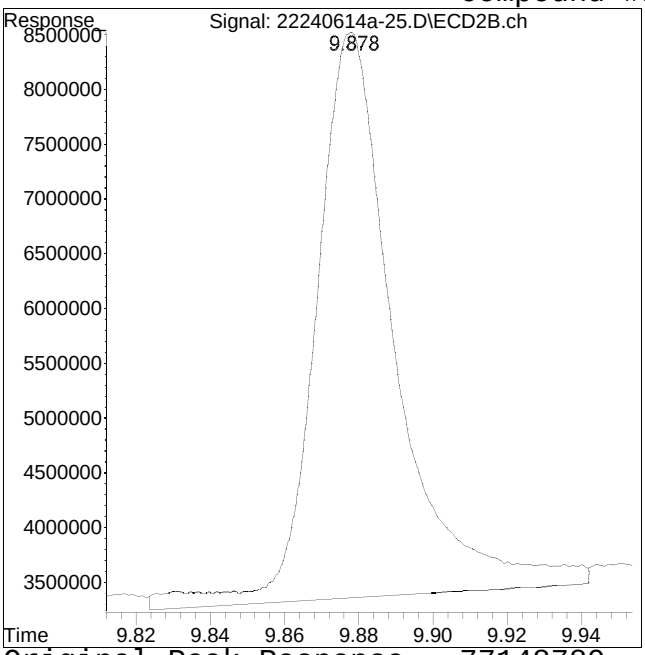
Manual Peak Response = 66113093 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

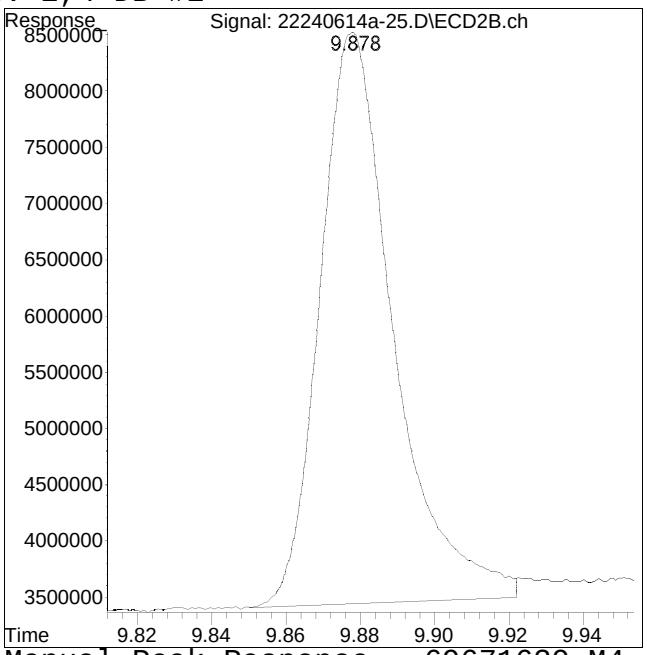
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #24: 2,4-DB #2



Original Peak Response = 77148780



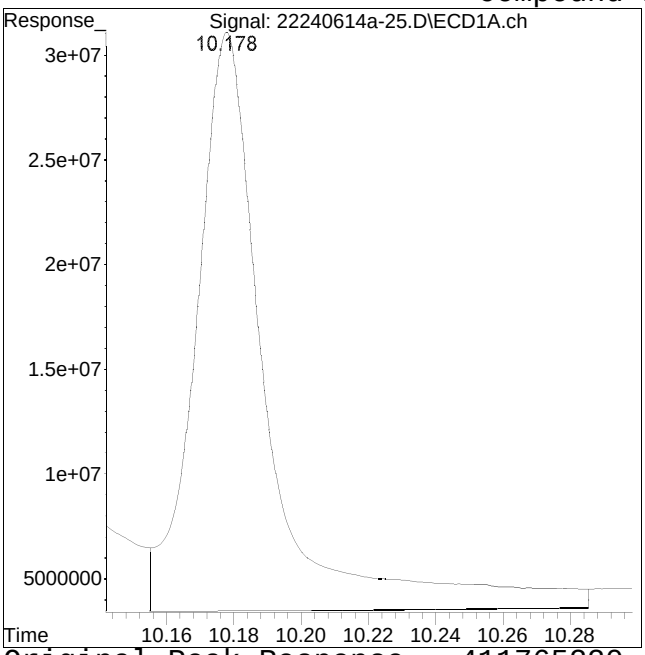
Manual Peak Response = 69671639 M4

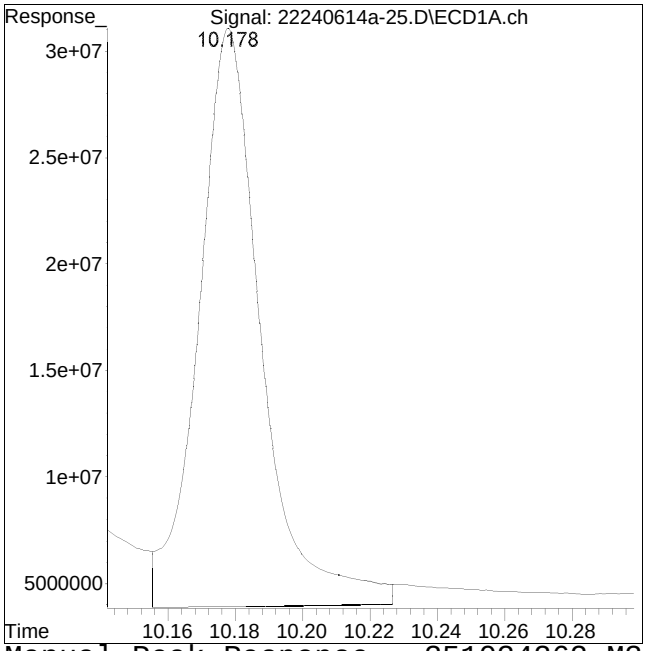
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #12: Dinoseb



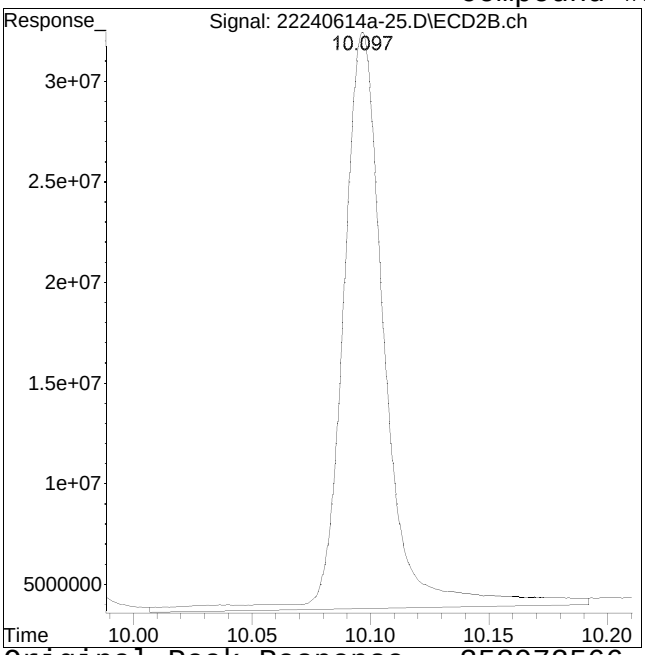


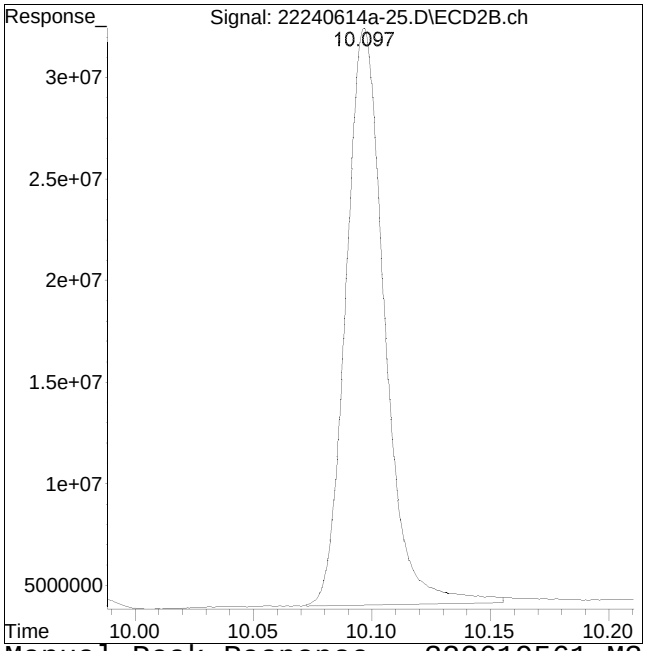
Original Peak Response = 411765220 Manual Peak Response = 351034262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-25.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 1:39 pm Instrument : Pest22
Sample : wg1934262-3,42,, herb11561Quant Date : 6/14/2024 5:56 pm

Compound #25: Dinoseb #2





Original Peak Response = 353972566 Manual Peak Response = 322619561 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 Jun 2024 05:59 pm
Operator : pest22:ejl
Sample   : wg1934262-4,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1934262,,ical21040
ALS Vial : 39   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:28:14 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	121	0.00
2	t	Dalapon		0.211	0.217	-2.8	118	0.00
3	s	DCAA (surrogate)		0.206	0.202	1.9	110	0.00
4	t	Dicamba		0.589	0.596	-1.2	113	0.00
5	t	MCPP		0.00052	0.00077	-48.1#	166#	0.00
6	t	MCPA		0.00097	0.00130	-34.0#	151#	0.00
7	t	Dichloroprop		0.193	0.192	0.5	111	0.00
8	t	2,4-D		0.240	0.231	3.7	108	-0.04
9	t	2,4,5-TP (Silvex)		0.868	0.872	-0.5	111	-0.02
10	t	2,4,5-T		0.853	0.921	-8.0	121	-0.03
11	t	2,4-DB		0.132	0.126	4.5	106	-0.05
12	t	Dinoseb		0.493	0.709	-43.8#	162#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	135	0.00
2	t	Dalapon		0.197	0.205	-4.1	133	0.00
3	s	DCAA (surrogate)		0.203	0.197	3.0	123	0.00
4	t	Dicamba		0.594	0.578	2.7	124	0.00
5	t	MCPP		0.00074	0.00060	18.9#	105	0.00
6	t	MCPA		0.00124	0.00110	11.3	113	0.00
7	t	Dichloroprop		0.192	0.188	2.1	123	0.00
8	t	2,4-D		0.237	0.265	-11.8	143	-0.01
9	t	2,4,5-TP (Silvex)		0.856	0.905	-5.7	134	0.00
10	t	2,4,5-T		0.831	0.818	1.6	126	-0.01
11	t	2,4-DB		0.141	0.138	2.1	126	-0.02
12	t	Dinoseb		0.491	0.599	-22.0#	157#	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 Jun 2024 05:59 pm
Operator : pest22:ejl
Sample   : wg1934262-4,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1934262,,ical21040
ALS Vial : 39   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:28:14 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 05:59 pm
Operator : pest22:ejl
Sample : wg1934262-4,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:28:14 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.529	8.525	894.4E6	919.4E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.986	7.455	135.8E6	136.3E6	0.184M4	0.183M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	36.80%	36.60%
		Target Compounds						
2)	t	Dalapon	2.384	2.383	141.4E6	137.4E6	0.187M3	0.189
4)	t	Dicamba	7.168	7.636	401.1E6	399.5E6	0.190M4	0.183
5)	t	MCPP	7.369	7.748	51715983	41164348	27.744M3	15.208M4 D
6)	t	MCPA	7.516	7.974	86335495	75241174	24.965M4	16.502 D
7)	t	Dichloroprop	7.872	8.292	129.4E6	129.7E6	0.187M4	0.184M4
8)	t	2,4-D	8.092f	8.570	155.6E6	183.1E6	0.181M2	0.210
9)	t	2,4,5-TP (Si	8.803f	9.225	592.6E6	632.4E6	0.191M4	0.201
10)	t	2,4,5-T	9.032f	9.517	625.9E6	571.9E6	0.205M2	0.187
11)	t	2,4-DB	9.441f	9.879f	86571526	97654459	0.183M2	0.189M4
12)	t	Dinoseb	10.179	10.097	482.3E6	418.7E6	0.274M4	0.232

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 05:59 pm
Operator : pest22:ejl
Sample : wg1934262-4,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:28:14 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

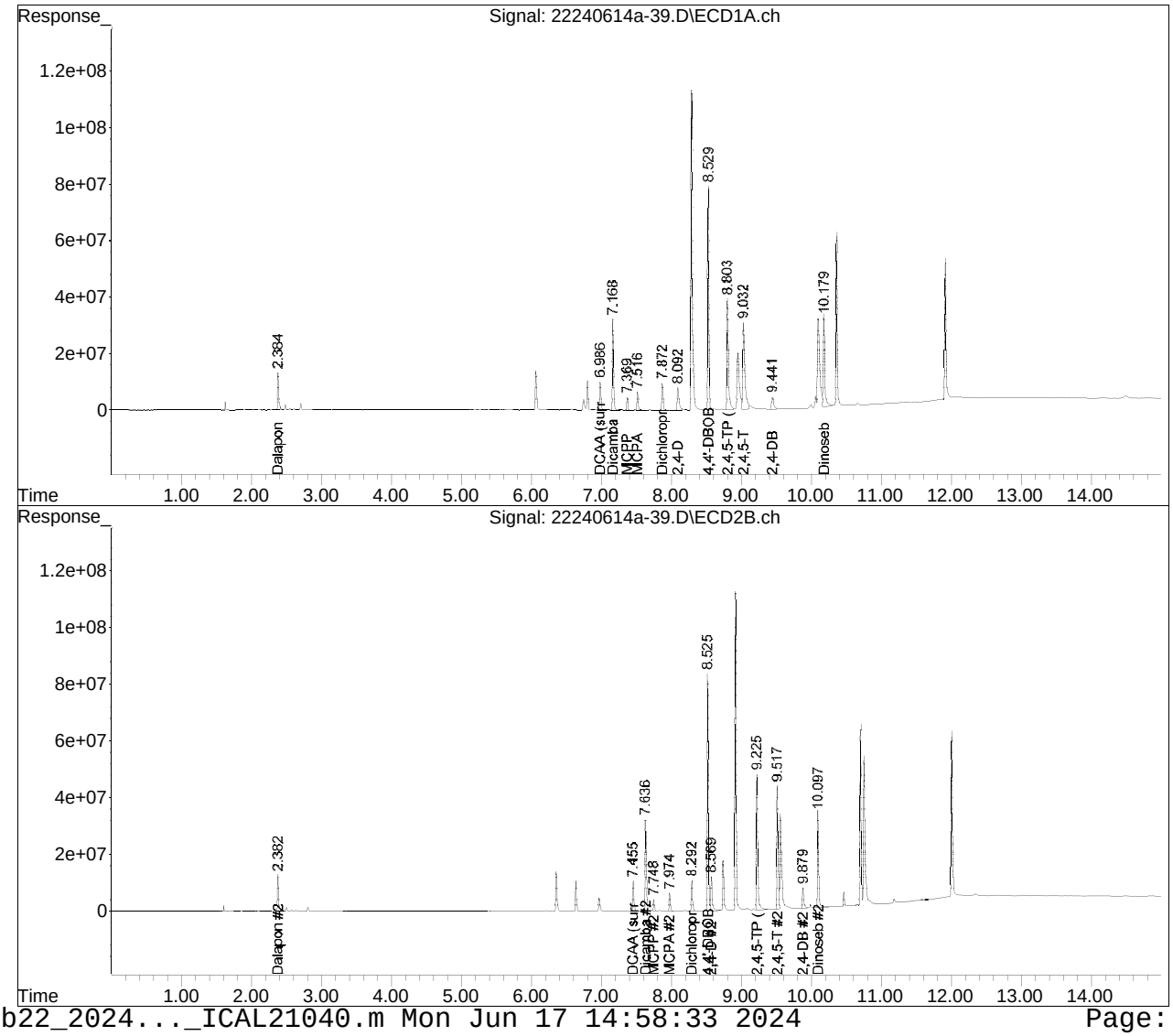
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 05:59 pm
Operator : pest22:ejl
Sample : wg1934262-4,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1934262,,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 18:28:14 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

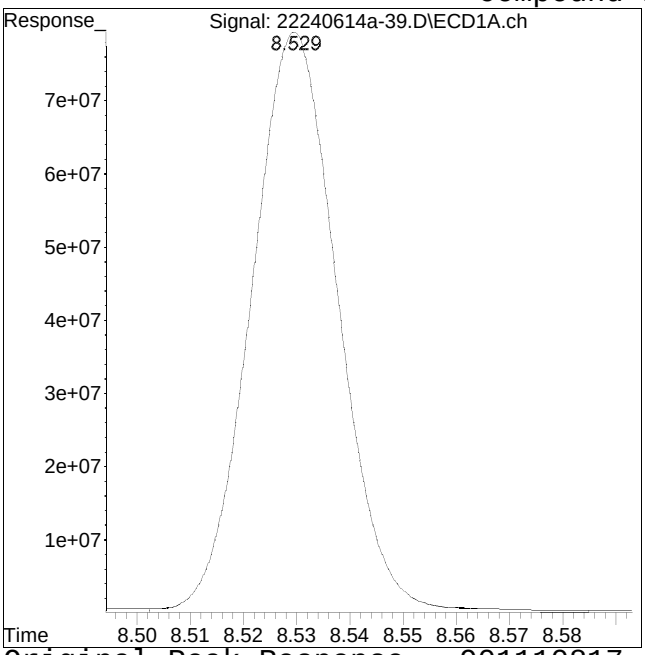
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



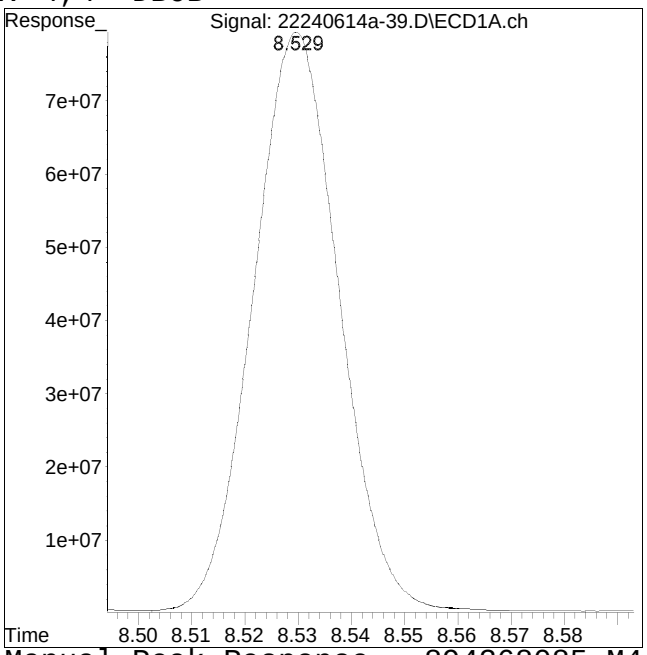
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 901110817



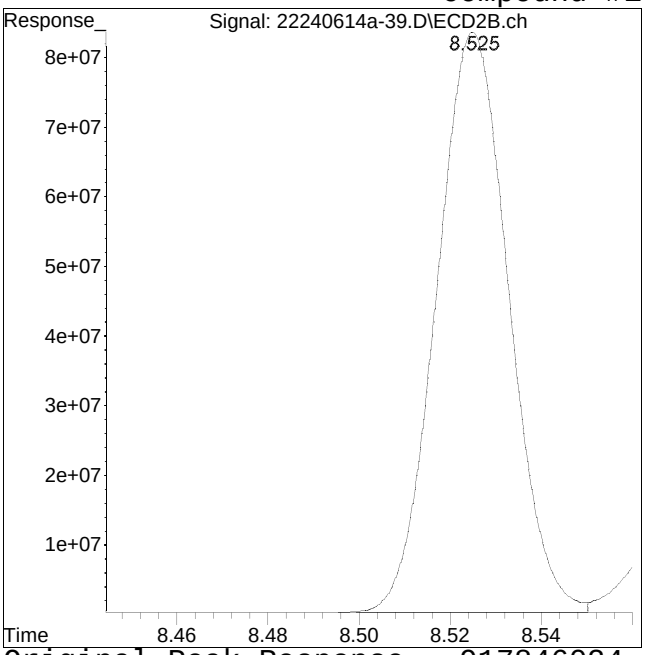
Manual Peak Response = 894368085 M4

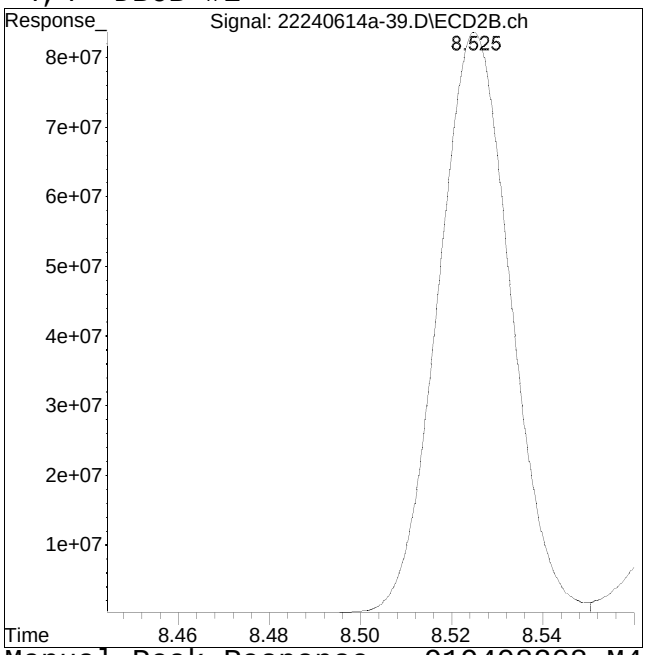
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #14: 4,4'-DBOB #2



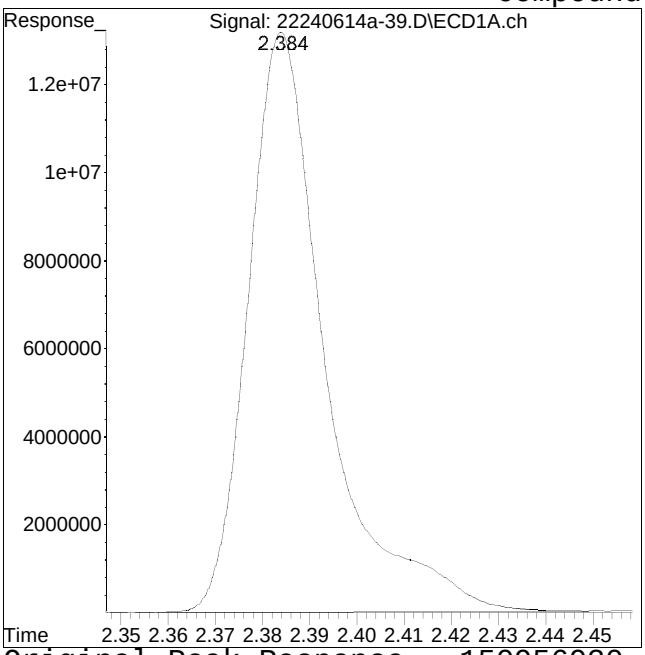


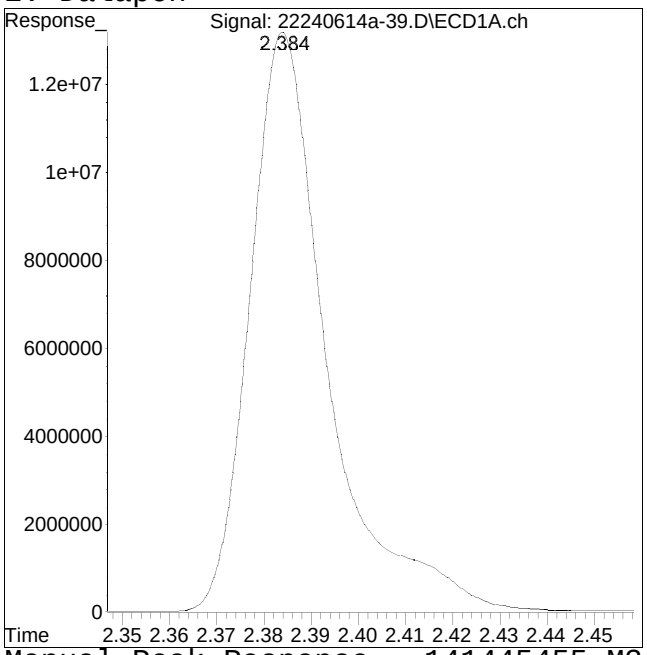
Original Peak Response = 917846024 Manual Peak Response = 919408208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #2: Dalapon



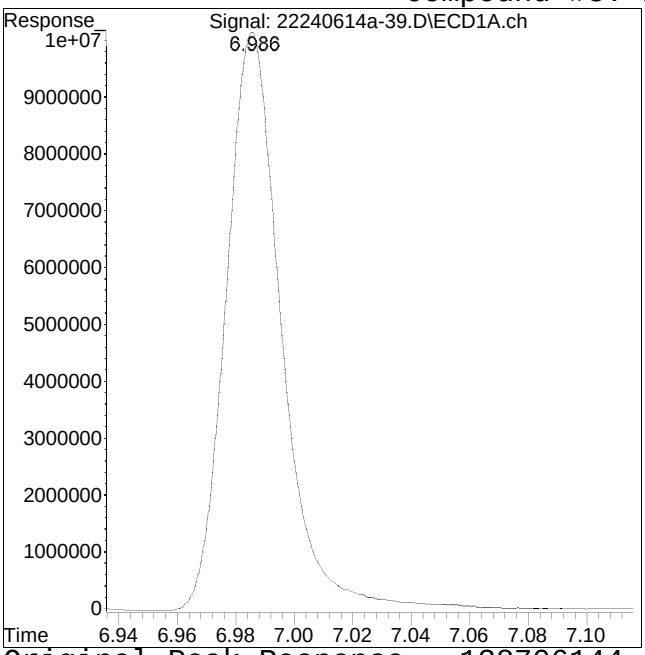


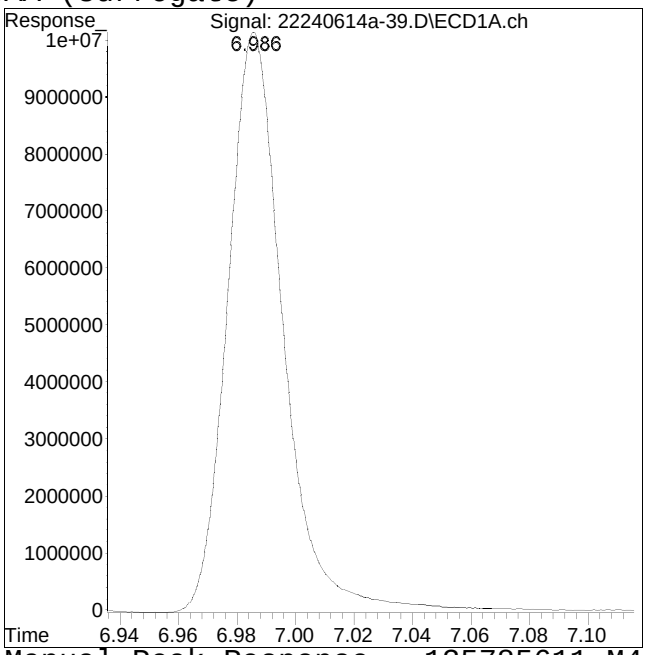
Original Peak Response = 150956930 Manual Peak Response = 141445455 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #3: DCAA (surrogate)



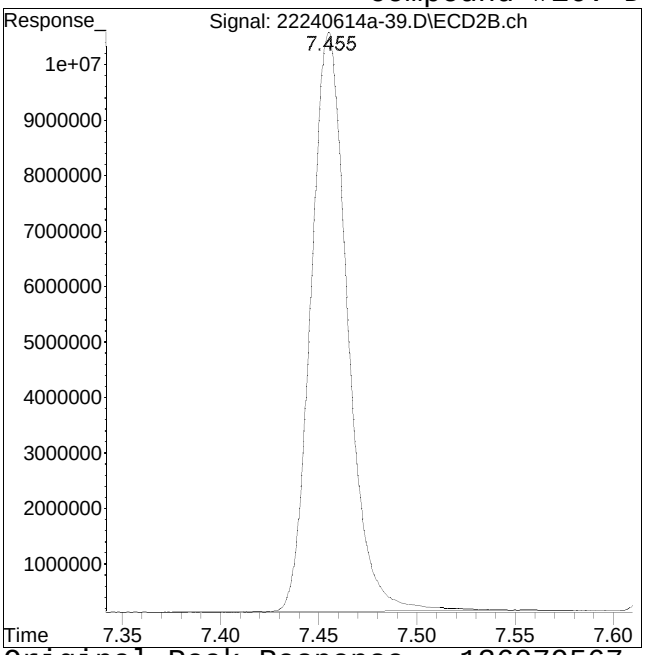


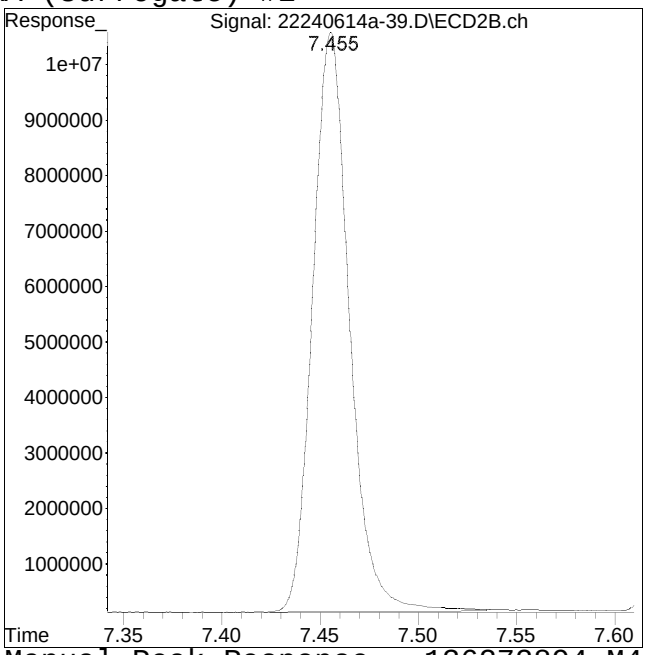
Original Peak Response = 138706144 Manual Peak Response = 135785611 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #16: DCAA (surrogate) #2



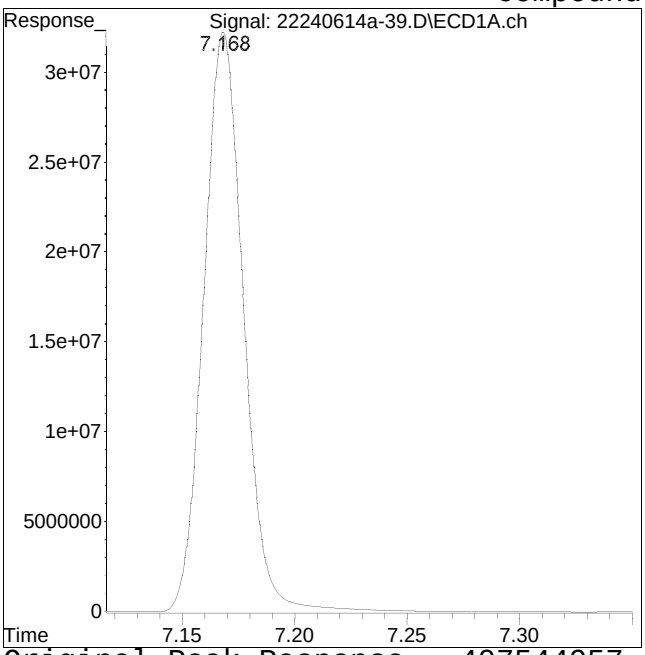


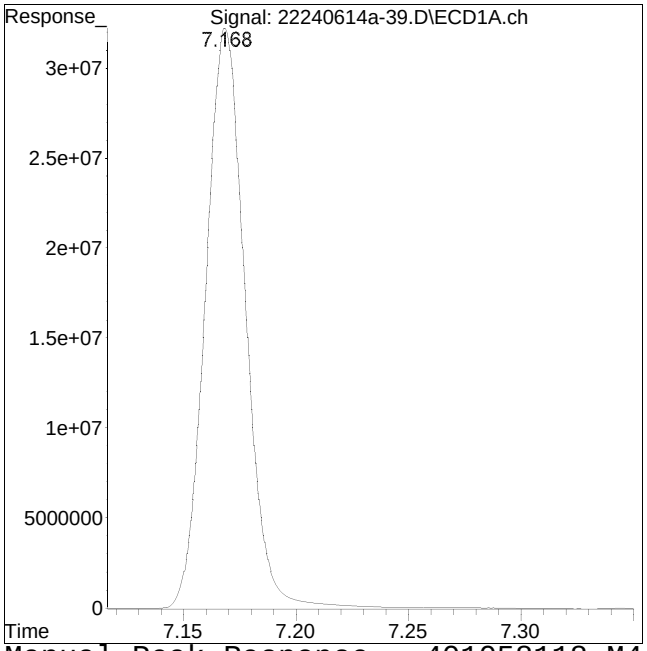
Original Peak Response = 136079567 Manual Peak Response = 136272894 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #4: Dicamba



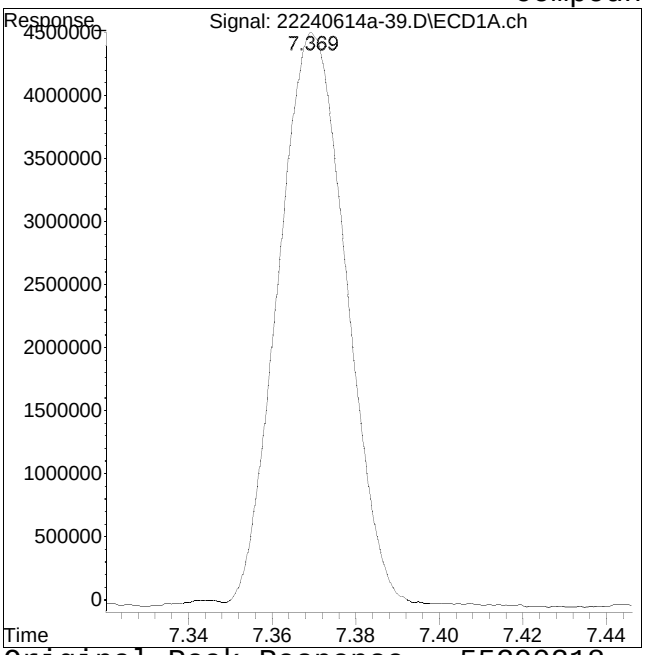


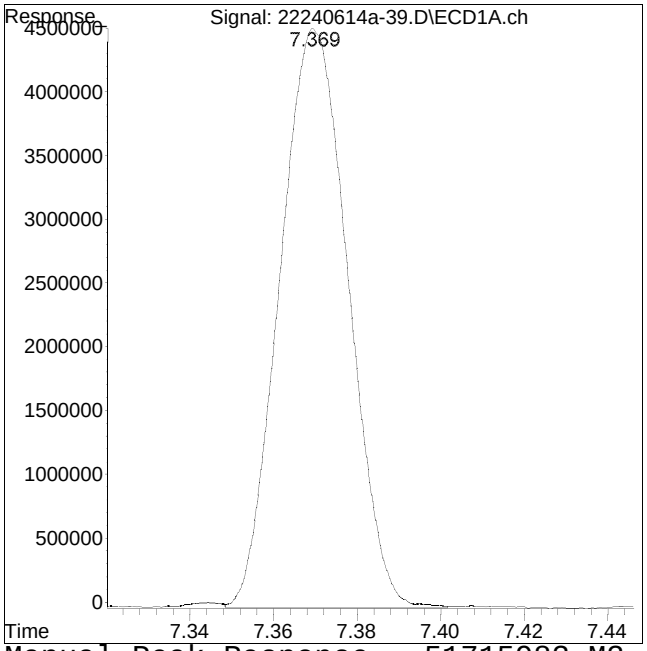
Original Peak Response = 407544957 Manual Peak Response = 401058118 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #5: MCPP



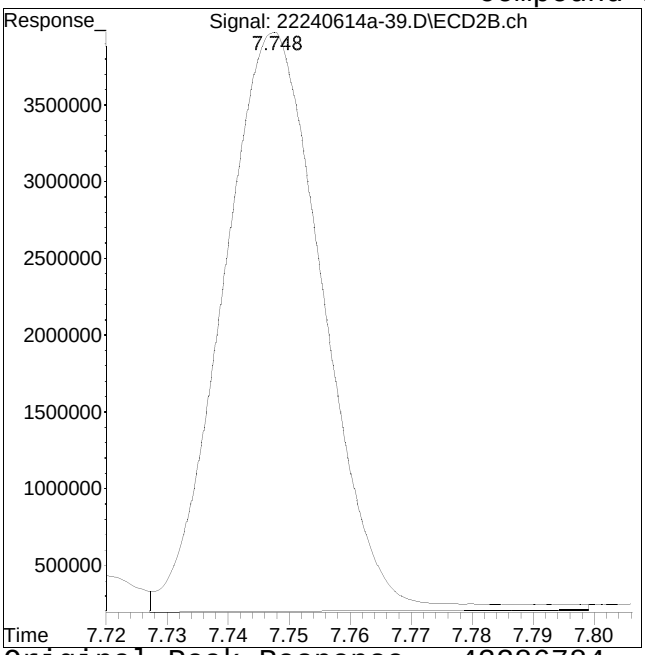


Original Peak Response = 55290218 Manual Peak Response = 51715983 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

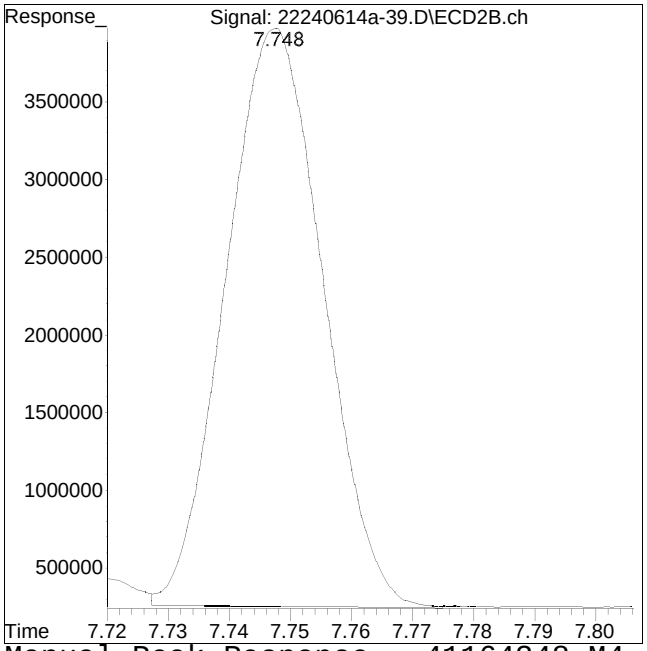
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #18: MCPP #2



Original Peak Response = 43286784



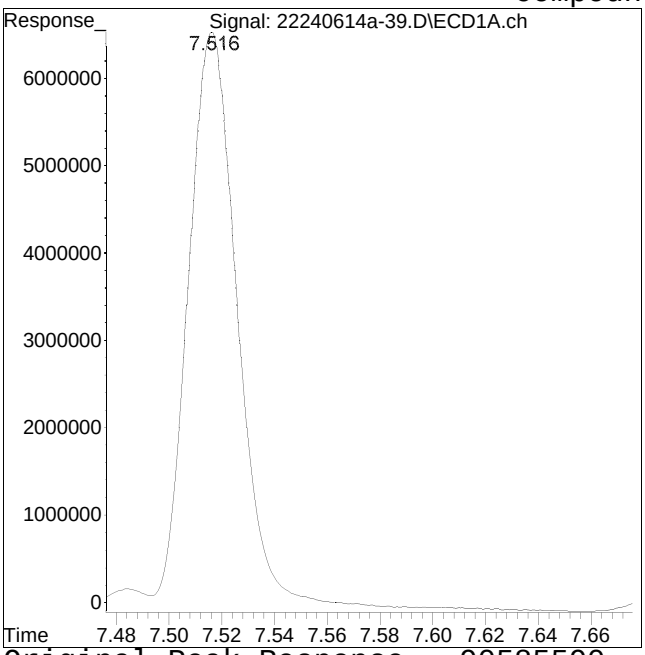
Manual Peak Response = 41164348 M4

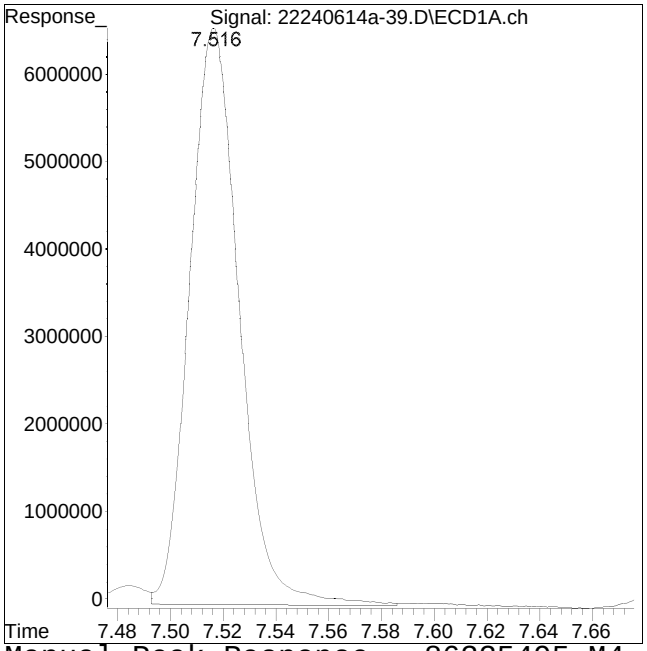
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #6: MCPA



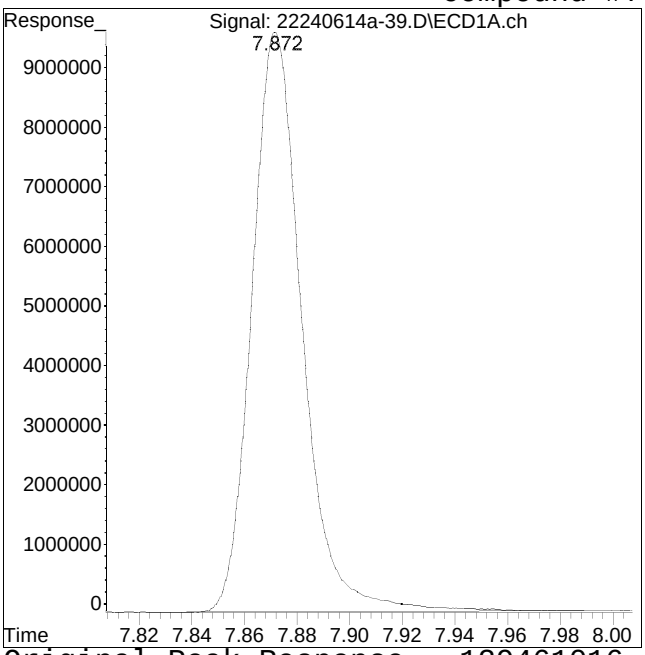


Original Peak Response = 90585590 Manual Peak Response = 86335495 M4
M4 = Poor automated baseline construction.

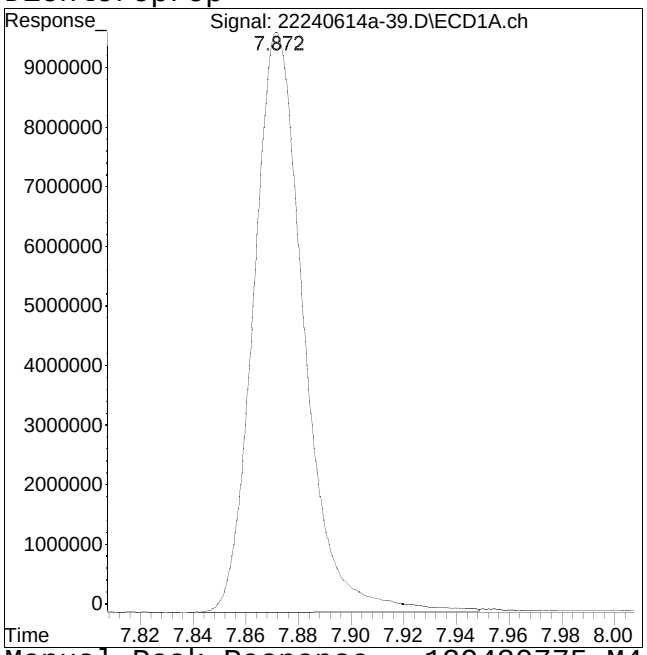
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #7: Dichloroprop



Original Peak Response = 129461016

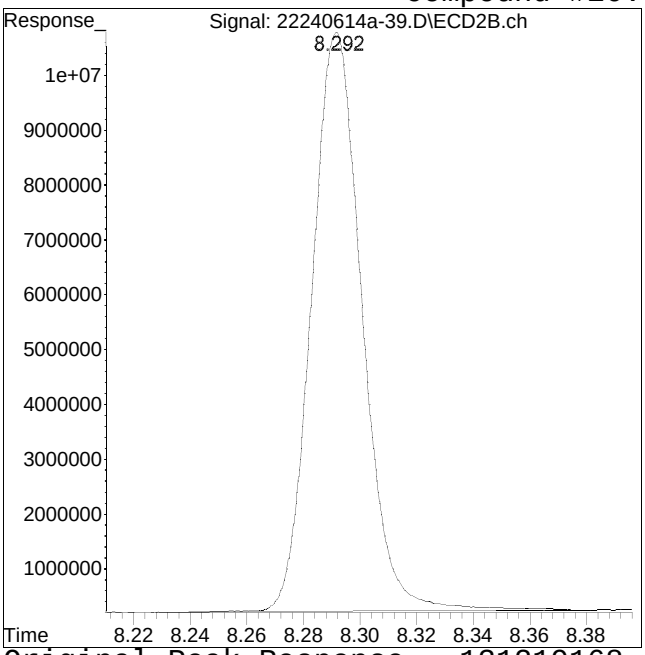


Manual Peak Response = 129430775 M4
M4 = Poor automated baseline construction.

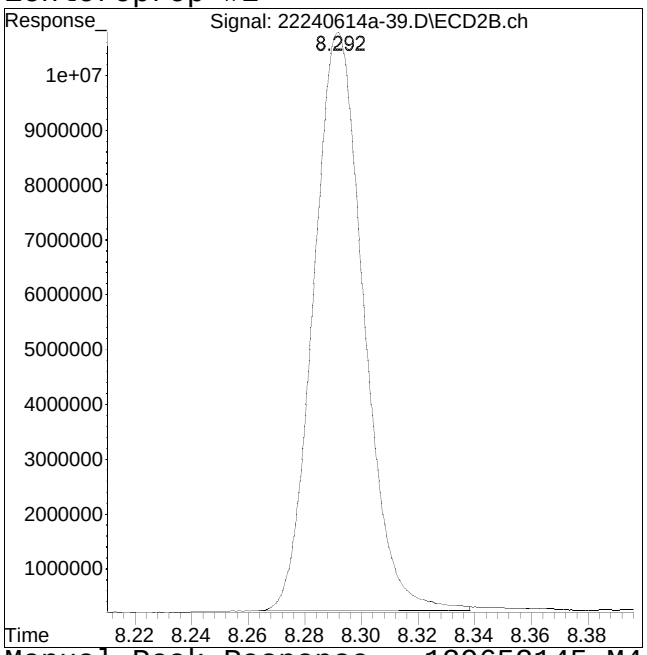
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #20: Dichloroprop #2



Original Peak Response = 131219168



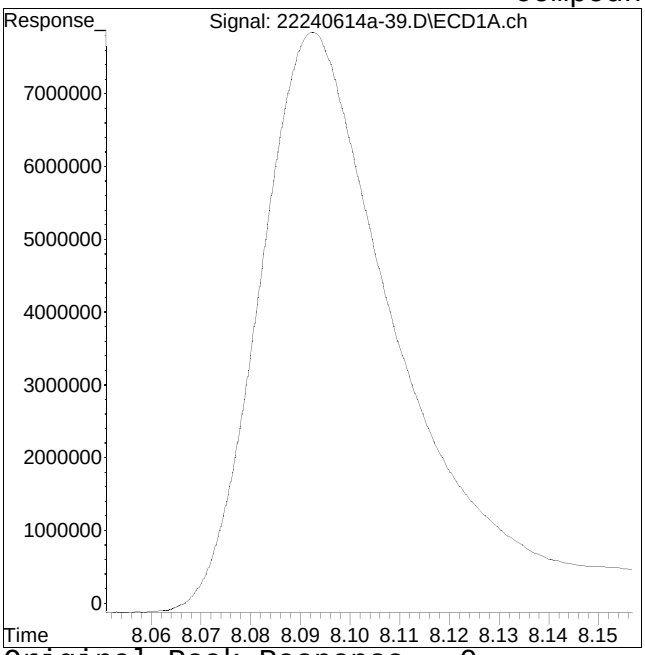
Manual Peak Response = 129652145 M4

M4 = Poor automated baseline construction.

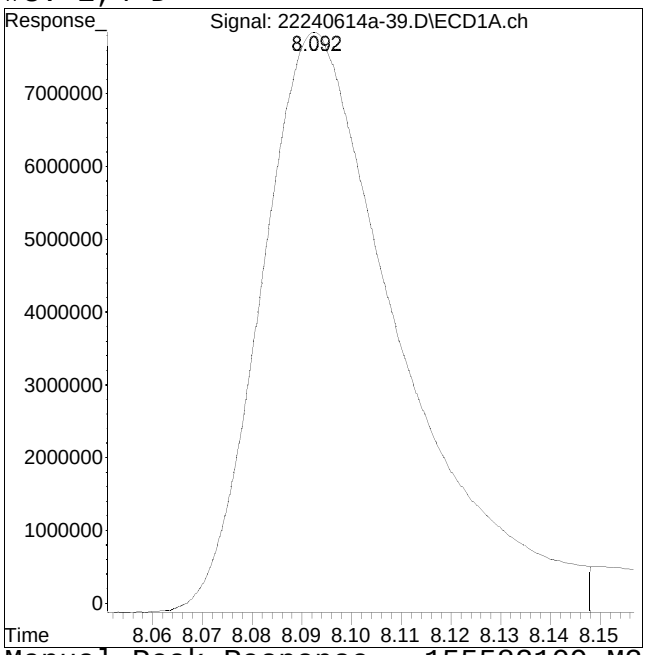
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #8: 2,4-D



Original Peak Response = 0



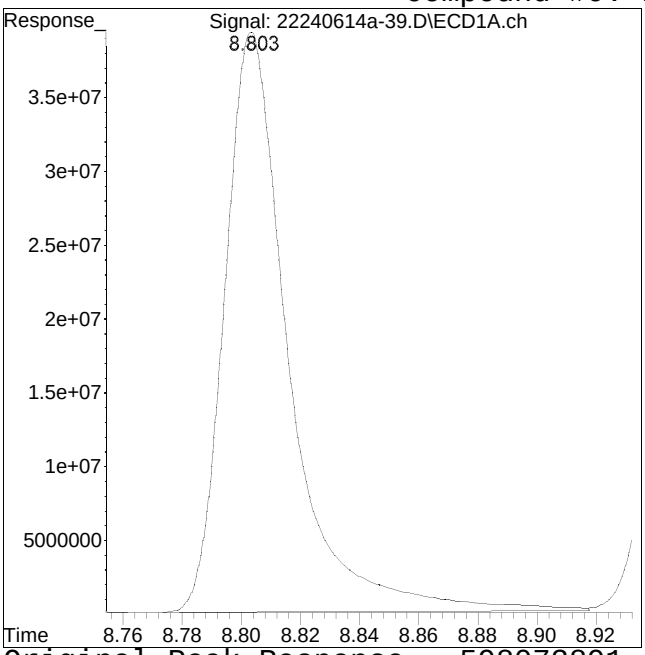
Manual Peak Response = 155582109 M2

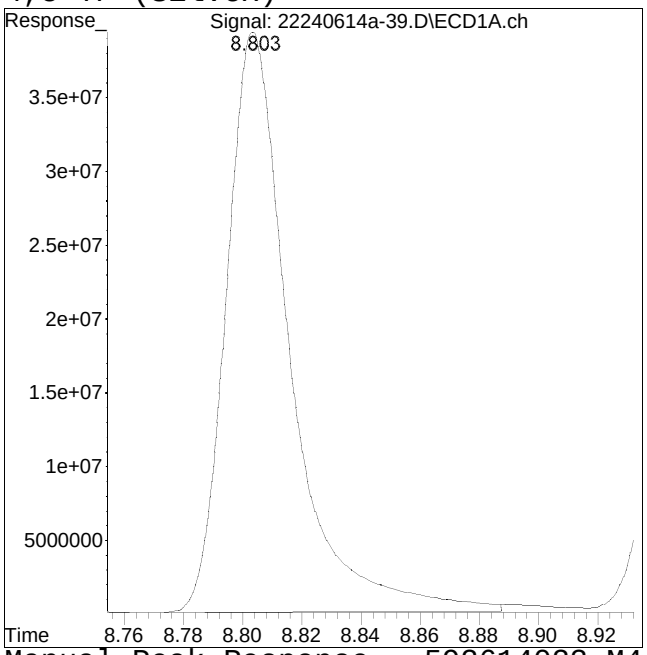
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #9: 2,4,5-TP (Silvex)



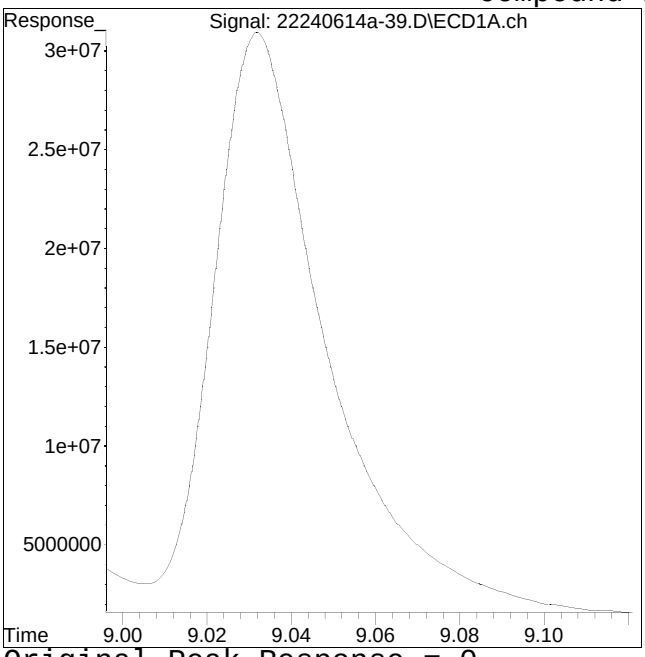


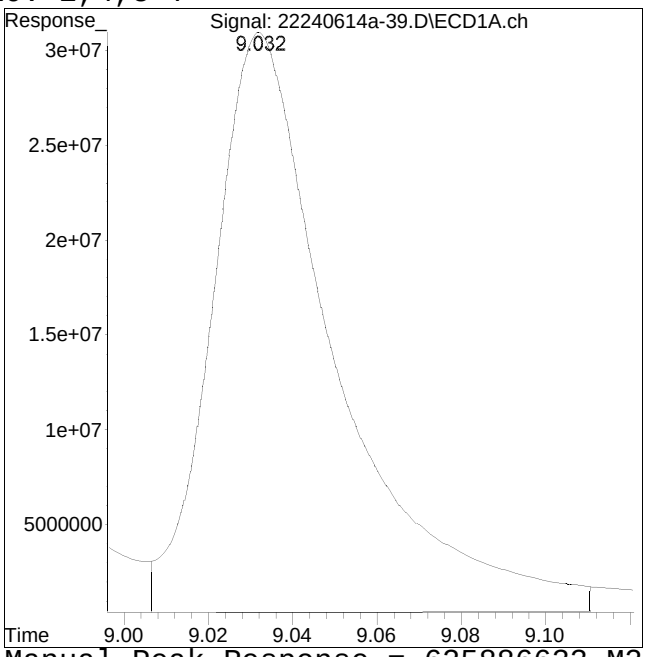
Original Peak Response = 598073891 Manual Peak Response = 592614023 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #10: 2,4,5-T



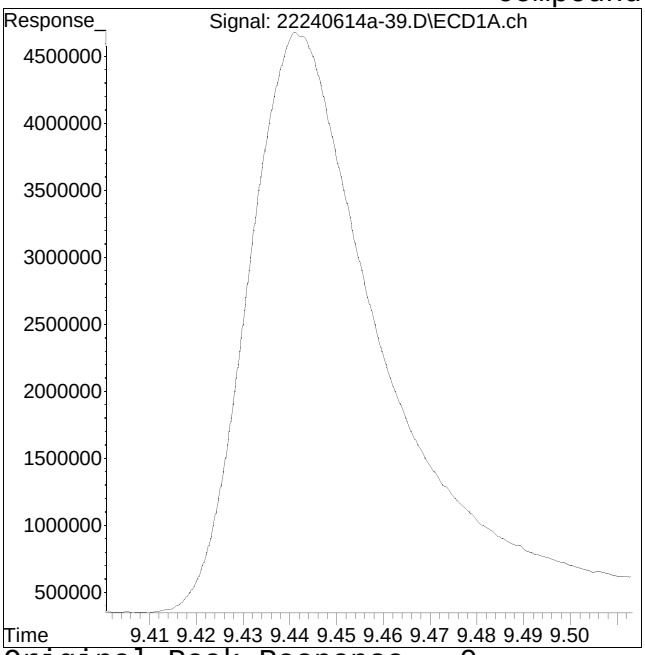


Original Peak Response = 0 Manual Peak Response = 625886633 M2
M2 = Peak not found by automatic integration algorithm.

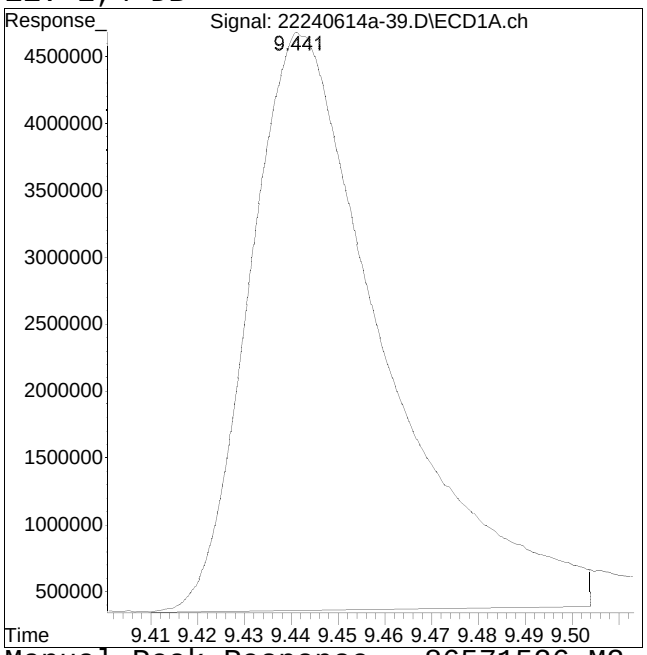
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #11: 2,4-DB



Original Peak Response = 0



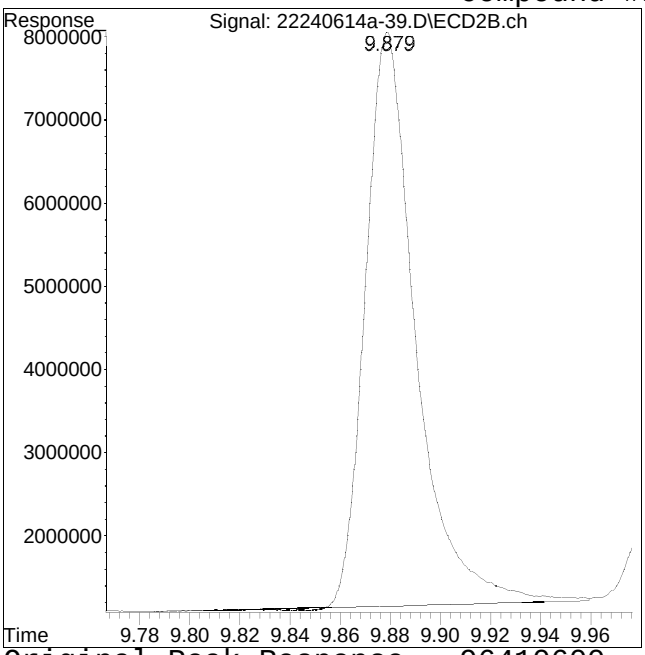
Manual Peak Response = 86571526 M2

M2 = Peak not found by automatic integration algorithm.

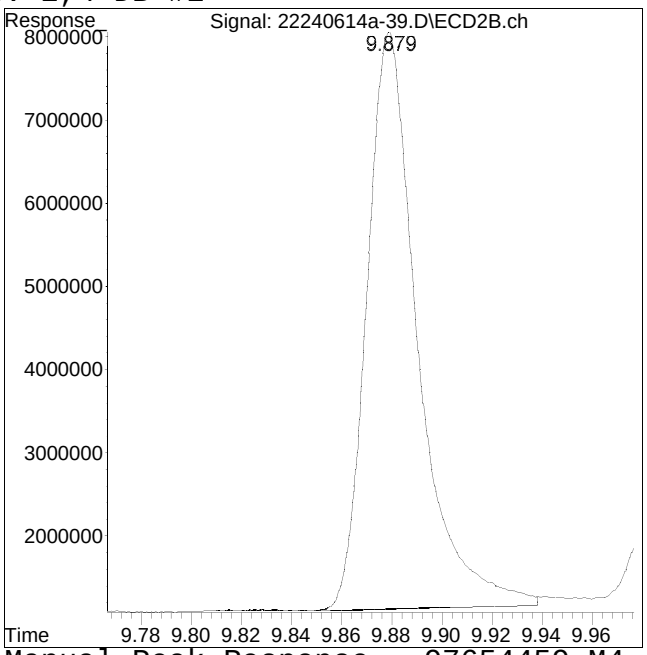
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #24: 2,4-DB #2



Original Peak Response = 96410600

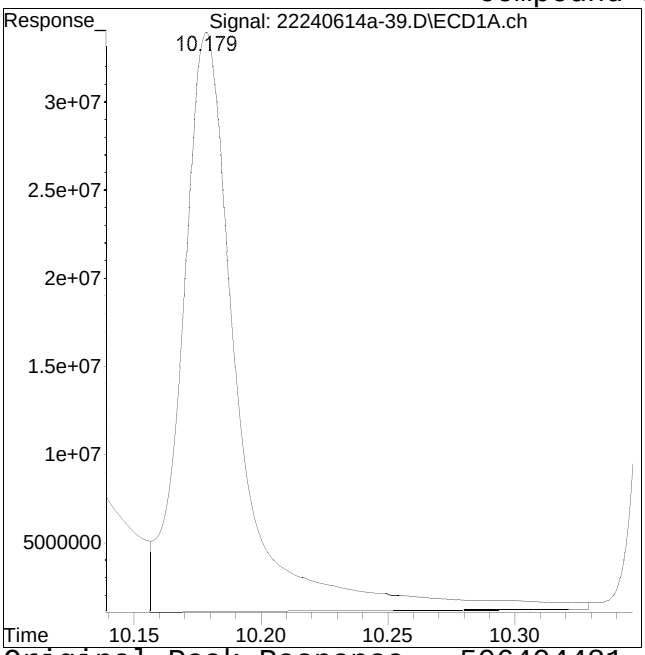


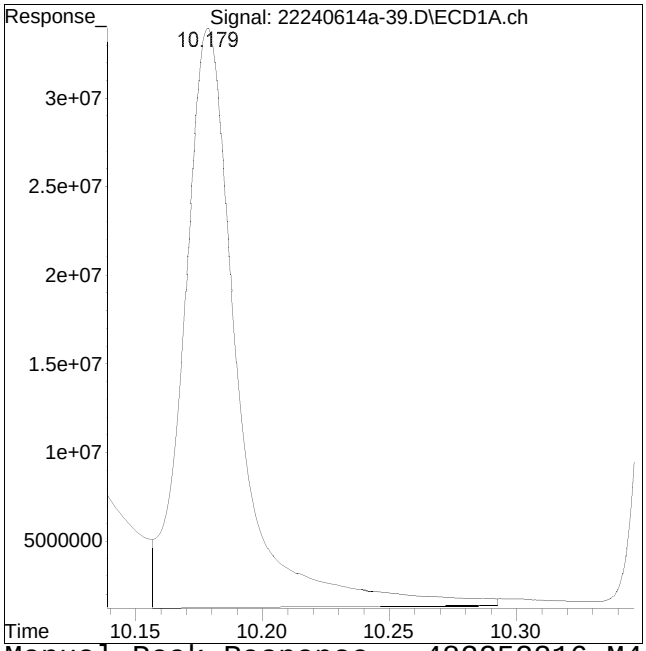
Manual Peak Response = 97654459 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-39.D Operator : pest22:ejl
Date Inj'd : 6/14/2024 5:59 pm Instrument : Pest22
Sample : wg1934262-4,42,, herb11561Quant Date : 6/14/2024 6:28 pm

Compound #12: Dinoseb





Original Peak Response = 506404481 Manual Peak Response = 482252216 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:32
Operator : pest22:akm
Sample : WG1933705-1,42,, 3926
Misc : wg1934262,WG1933705,ical21040 (Sig #1); wg1934262,WG1933757,ical21040 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:45:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-01.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.538	8.527	750.4E6	787.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 815969259				Recovery =	91.97%	
	Standard Area 1 : #2 = 847843738				Recovery =	92.87%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.999f	7.458	322.7E6	298.0E6	0.523M4	0.467
	Spiked Amount	0.500	Range 30 - 150		Recovery =	104.60%	93.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

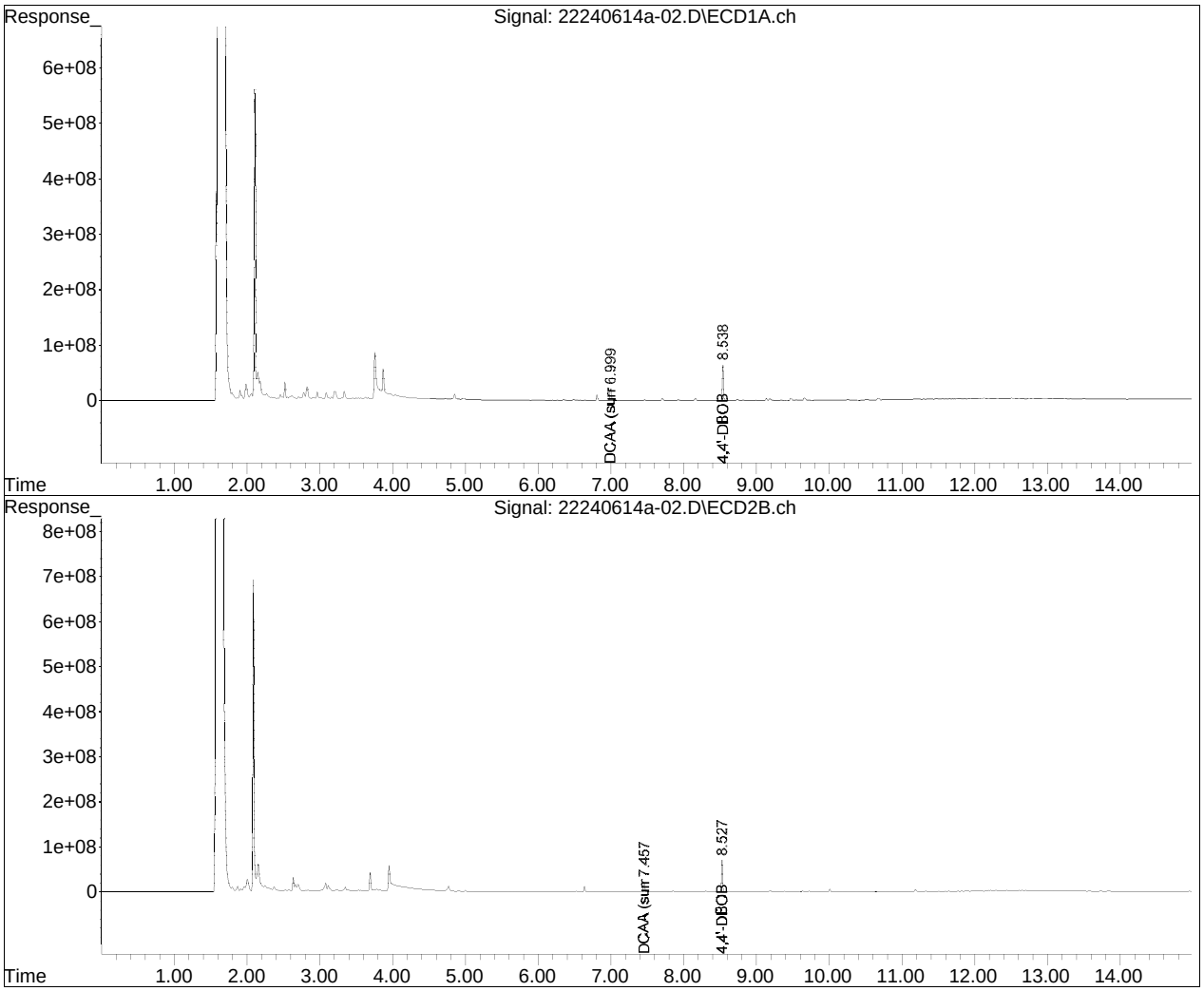
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-01.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:32
Operator : pest22:akm
Sample : WG1933705-1,42,, 3926
Misc : wg1934262,WG1933705,ical21040 (Sig #1); wg1934262,WG1933757,ical21
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:45:37 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

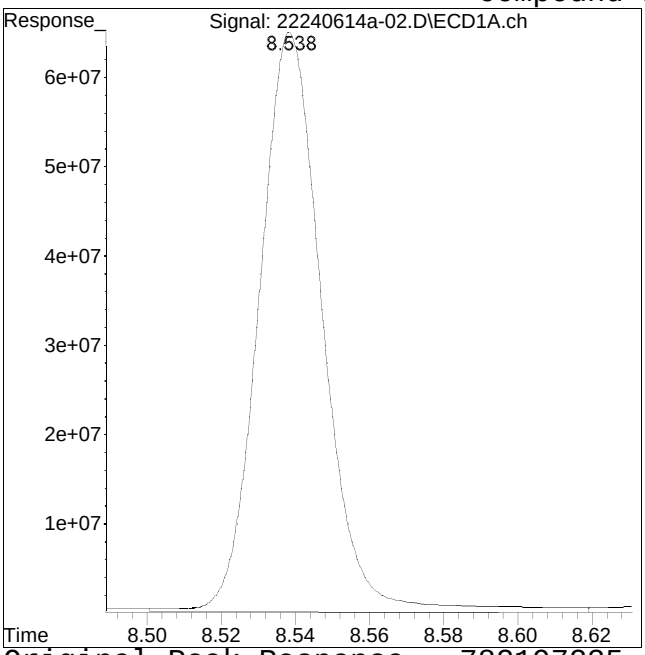
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

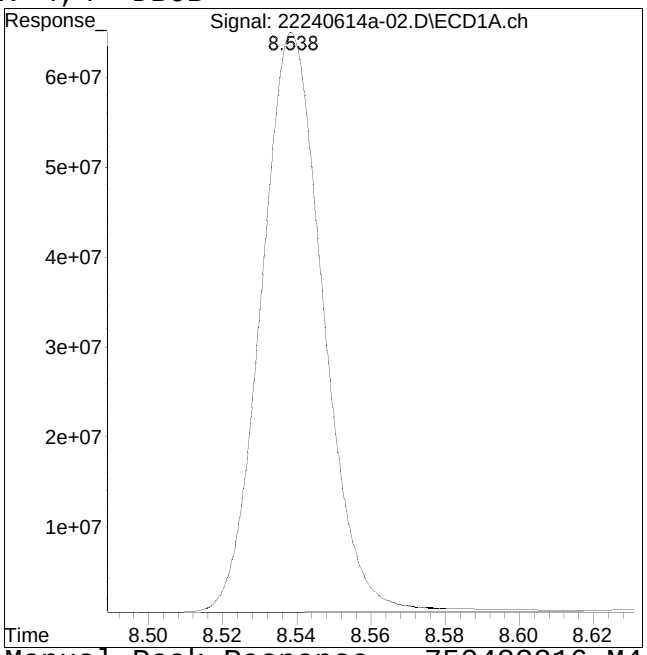


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-02.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:32 Instrument : Pest22
Sample : WG1933705-1,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #1: 4,4'-DBOB



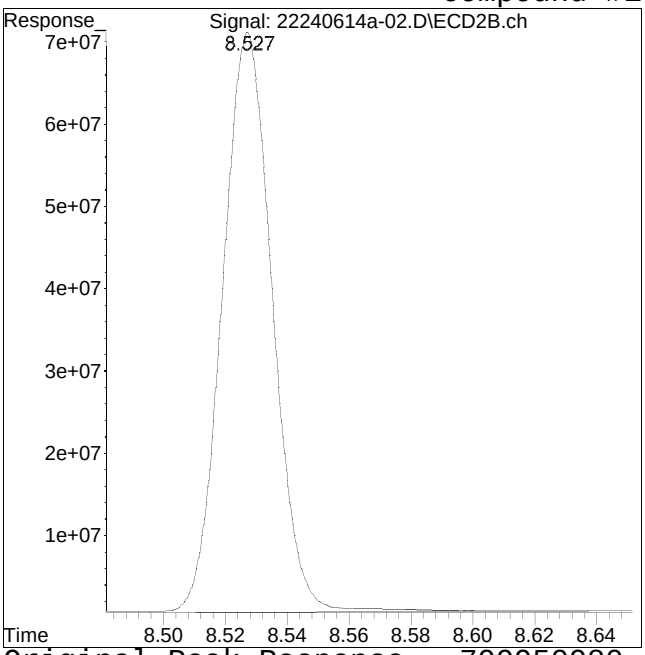


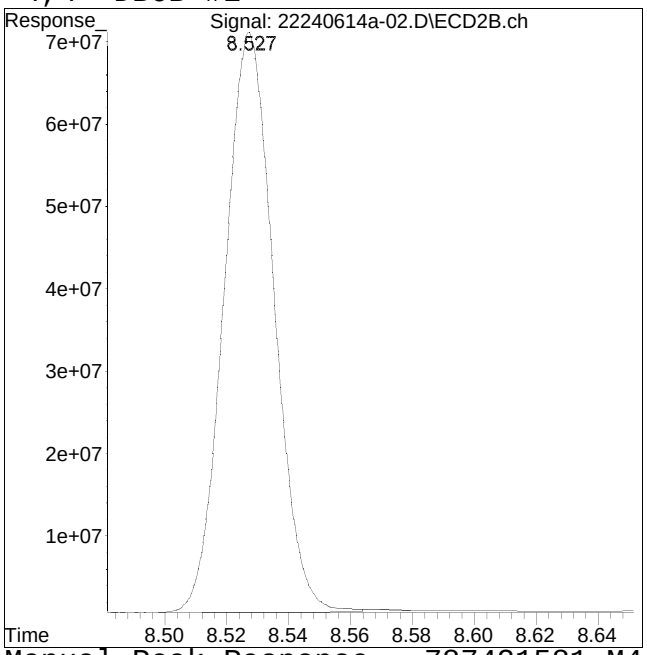
Original Peak Response = 782197235 Manual Peak Response = 750423216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-02.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:32 Instrument : Pest22
Sample : WG1933705-1,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #14: 4,4'-DBOB #2



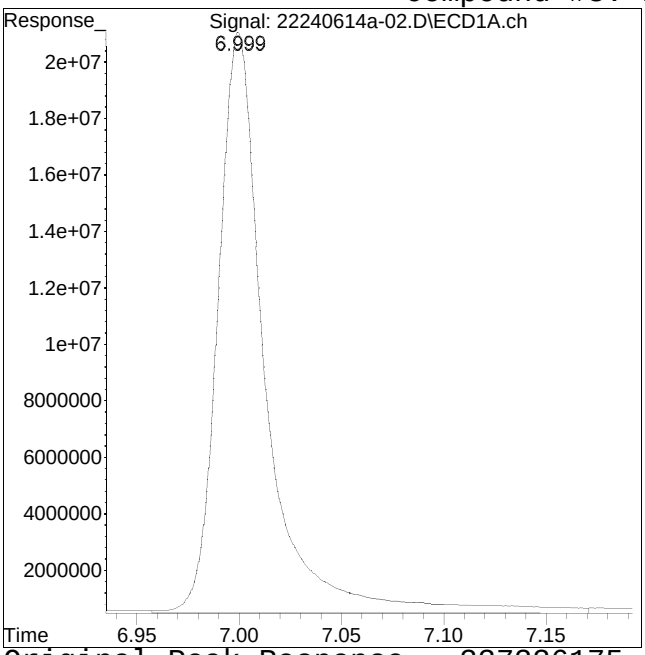


Original Peak Response = 799950980 Manual Peak Response = 787421581 M4
M4 = Poor automated baseline construction.

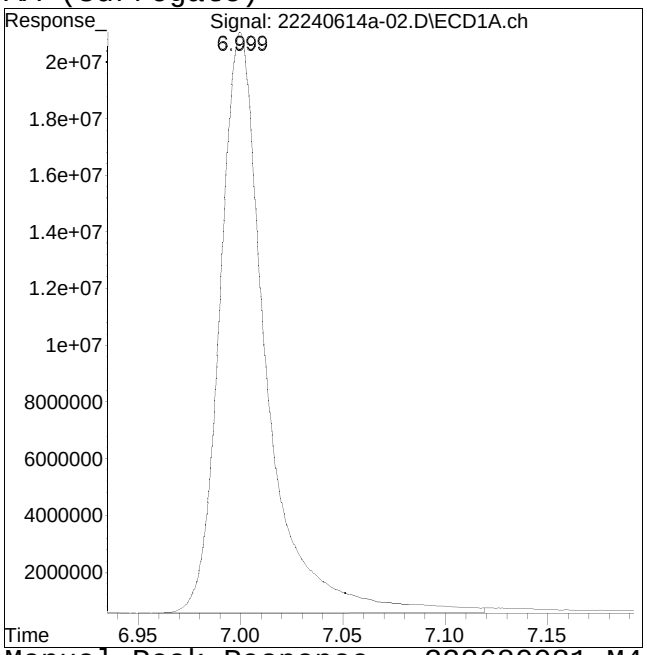
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-02.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:32 Instrument : Pest22
Sample : WG1933705-1,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #3: DCAA (surrogate)



Original Peak Response = 337336175



Manual Peak Response = 322680031 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:51
Operator : pest22:akm
Sample : WG1933705-2,42,, 3926
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:45:38 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-01.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.530	8.525	738.7E6	756.6E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 815969259				Recovery =	90.53%	
	Standard Area 1 : #2 = 847843738				Recovery =	89.23%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.986	7.455	329.2E6	357.6E6	0.542M4	0.583M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	108.40%	116.60%
	Target Compounds						
2) t	Dalapon	2.393	2.390	319.3E6	340.2E6	0.511M4	0.569M4
4) t	Dicamba	7.169	7.636	1029.6E6	1037.1E6	0.592M3	0.577M4
5) t	MCPP	7.371	7.748	143.4E6	121.4E6	93.132M4	54.521M4
6) t	MCPA	7.517	7.974	203.3E6	207.3E6	71.176M4	55.262M4
7) t	Dichloroprop	7.873	8.292	313.2E6	341.1E6	0.549M3	0.587M4
8) t	2,4-D	8.090f	8.567f	392.6E6	441.0E6	0.554M2	0.614M4
9) t	2,4,5-TP (Si	8.804f	9.224	1426.9E6	1425.2E6	0.557M4	0.550M4
10) t	2,4,5-T	9.025f	9.512f	1523.7E6	1523.0E6	0.605M2	0.606M4
11) t	2,4-DB	9.431f	9.872f	232.6E6	242.1E6	0.596M2	0.568M4
12) t	Dinoseb	10.179	10.096	671.3E6	625.8E6	0.461M4	0.421M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

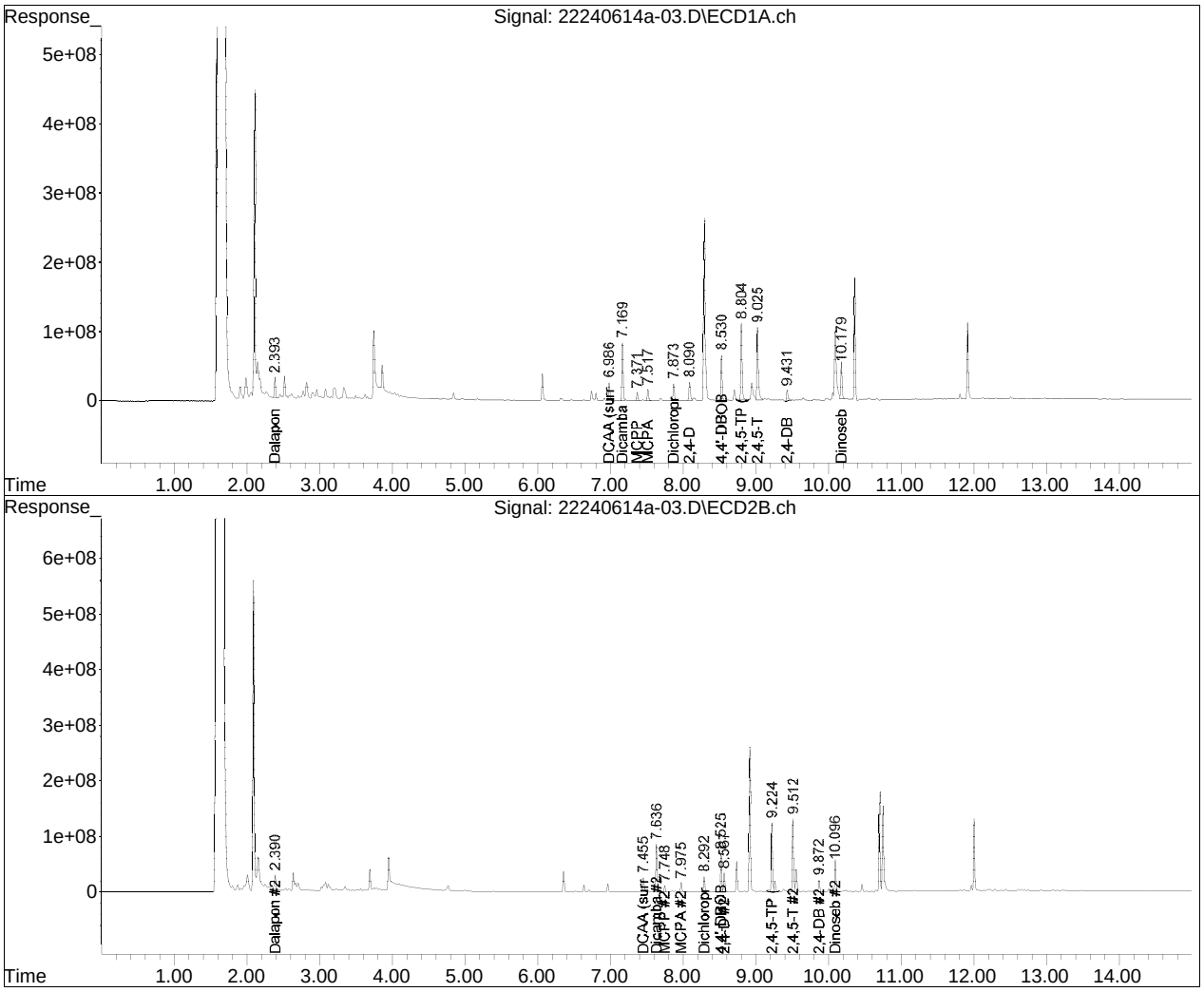
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-01.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 06:51
Operator : pest22:akm
Sample : WG1933705-2,42,, 3926
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:45:38 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

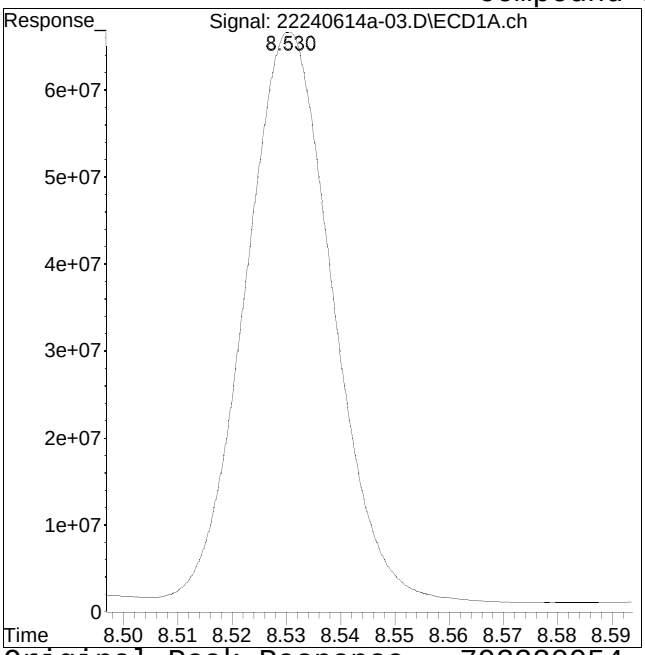
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

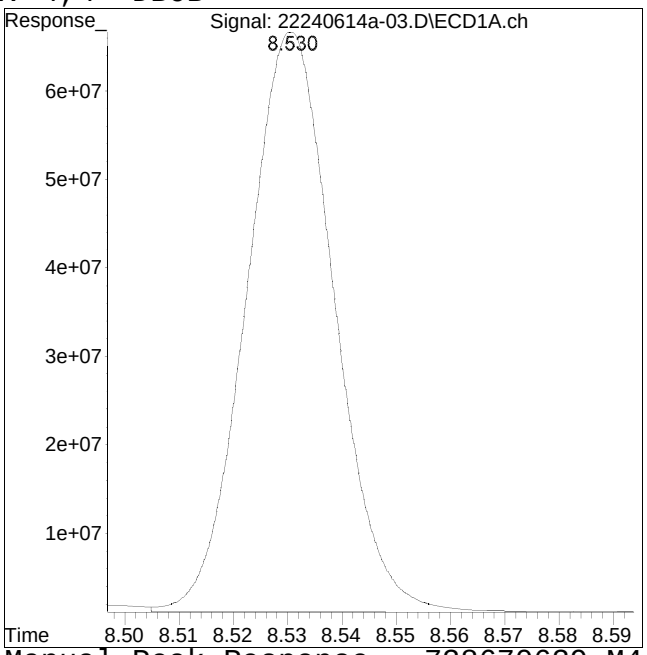


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #1: 4,4'-DBOB



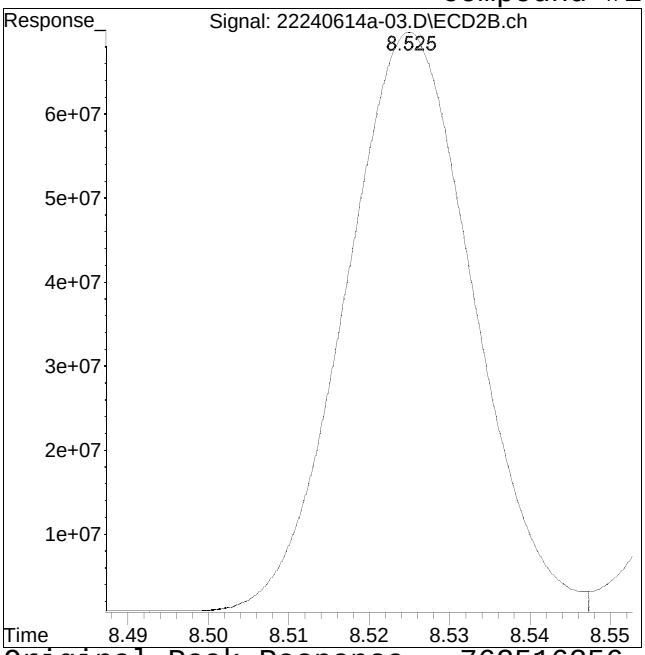


Original Peak Response = 793320954 Manual Peak Response = 738670639 M4
M4 = Poor automated baseline construction.

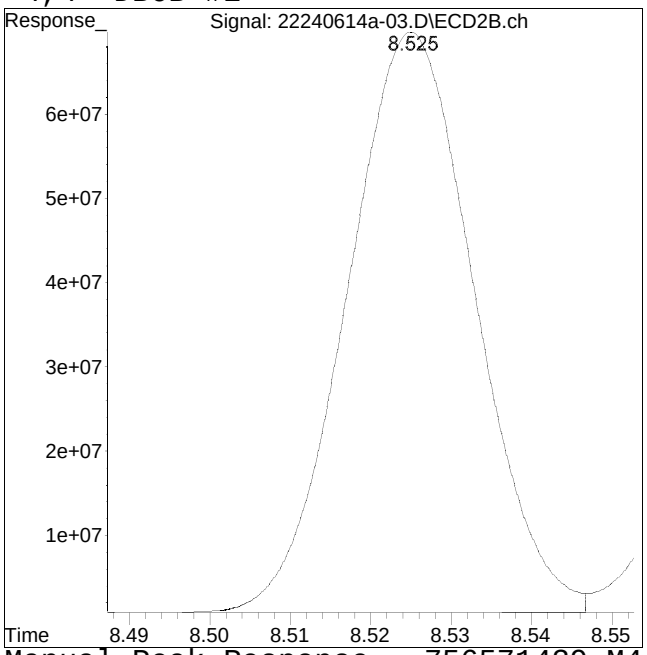
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 762516356

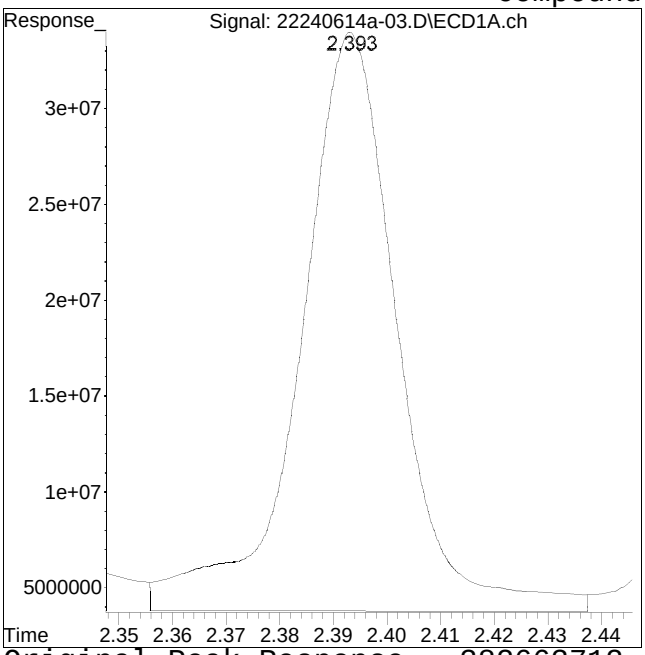


Manual Peak Response = 756571439 M4
M4 = Poor automated baseline construction.

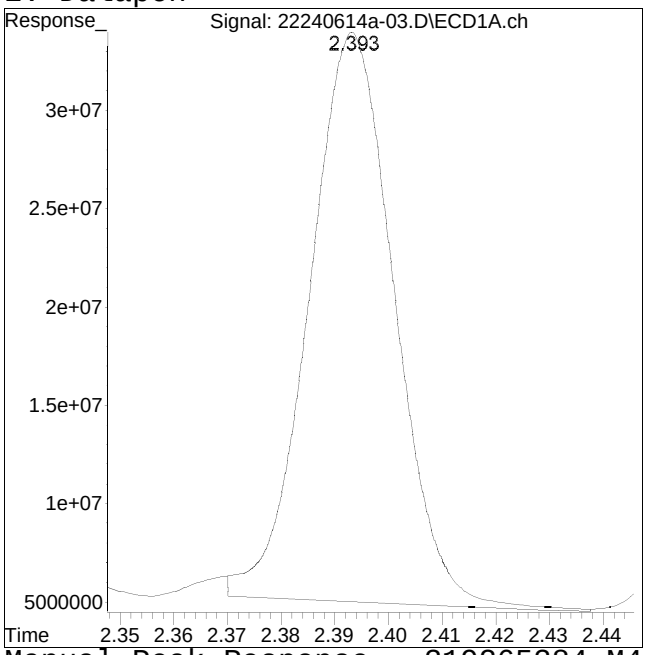
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #2: Dalapon



Original Peak Response = 382663712



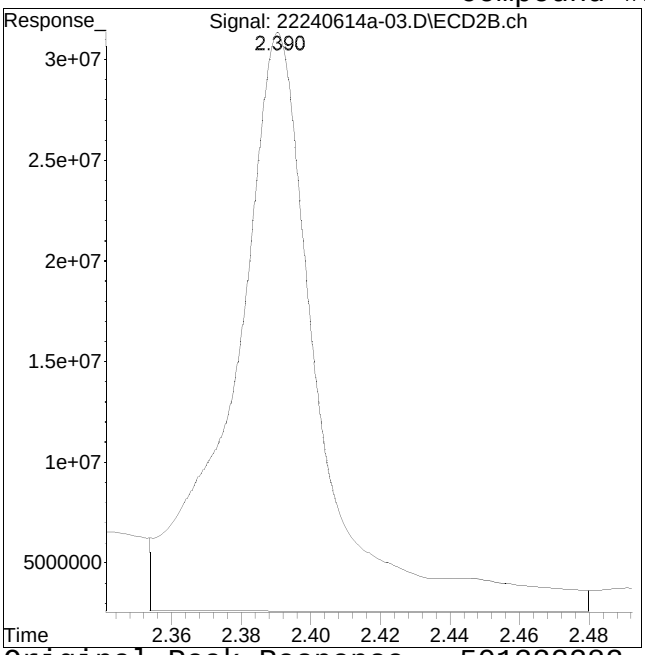
Manual Peak Response = 319265384 M4

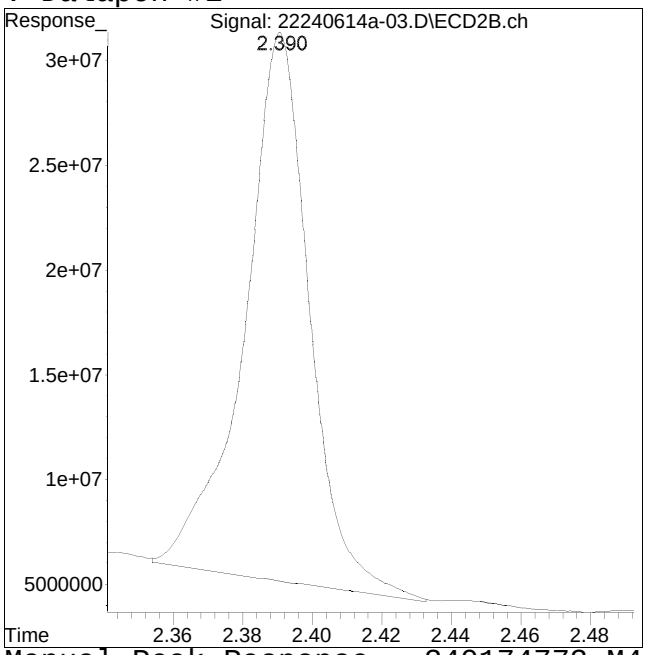
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #15: Dalapon #2



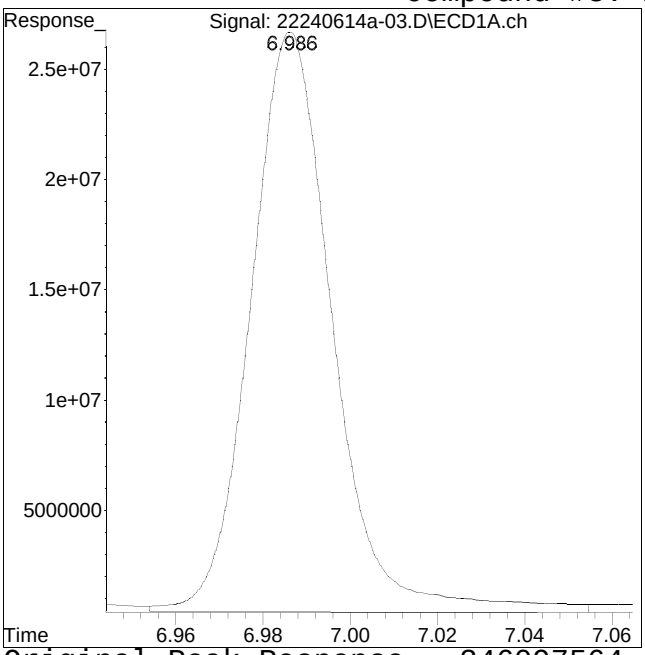


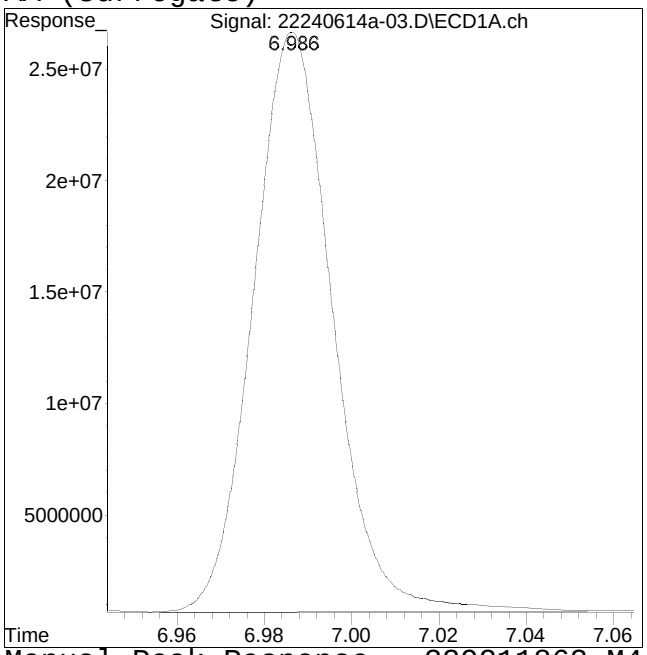
Original Peak Response = 501322382 Manual Peak Response = 340174773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #3: DCAA (surrogate)



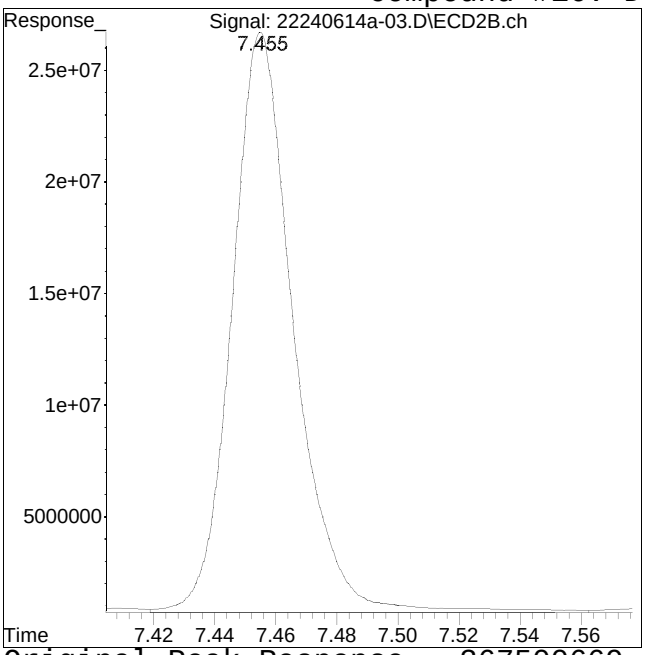


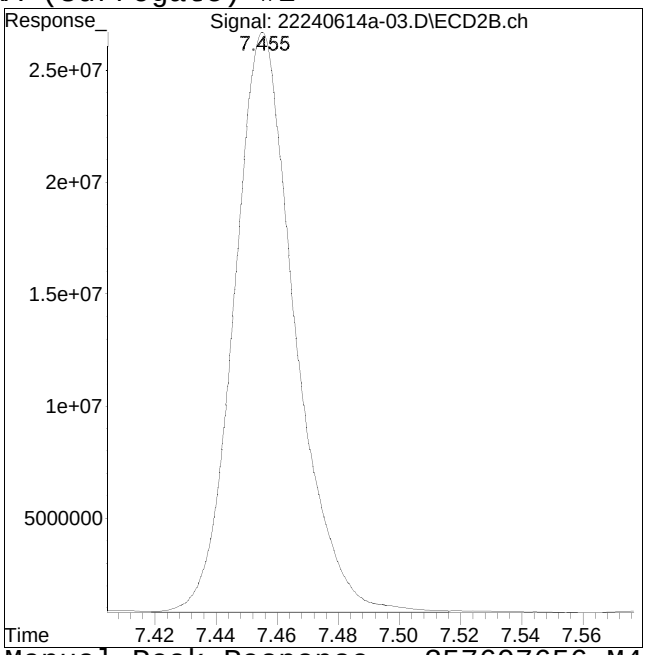
Original Peak Response = 346097564 Manual Peak Response = 329211862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #16: DCAA (surrogate) #2



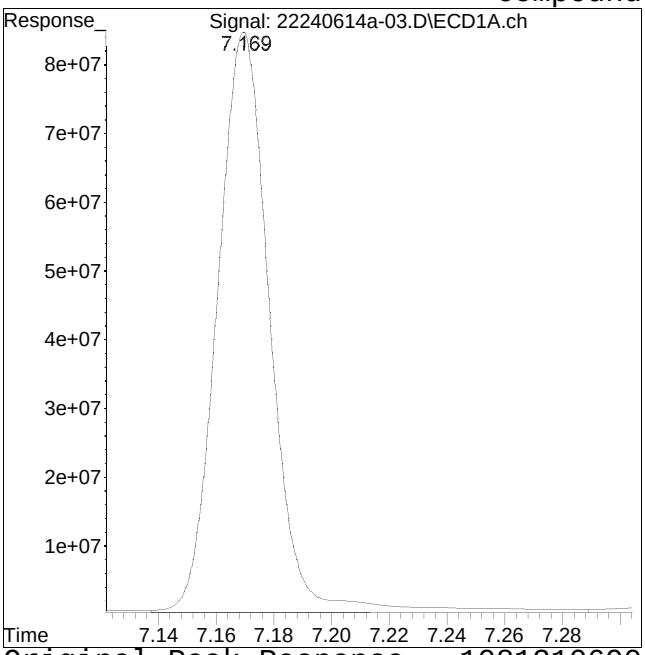


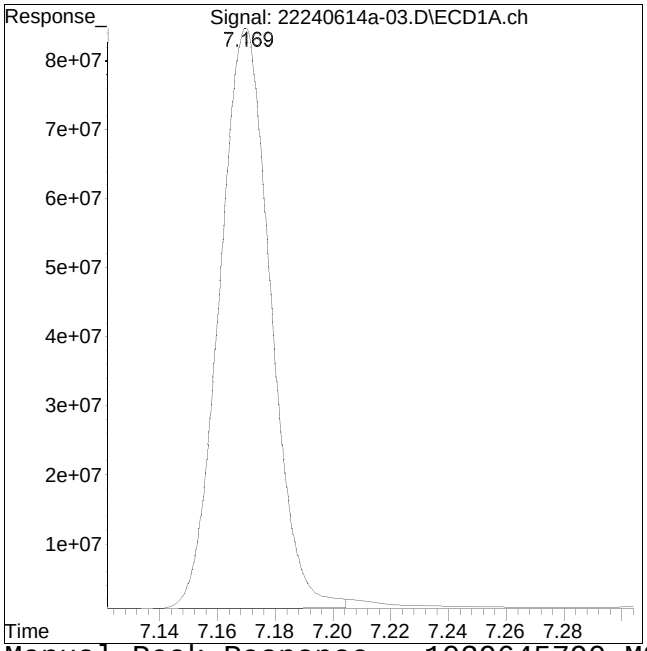
Original Peak Response = 367500669 Manual Peak Response = 357607656 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #4: Dicamba



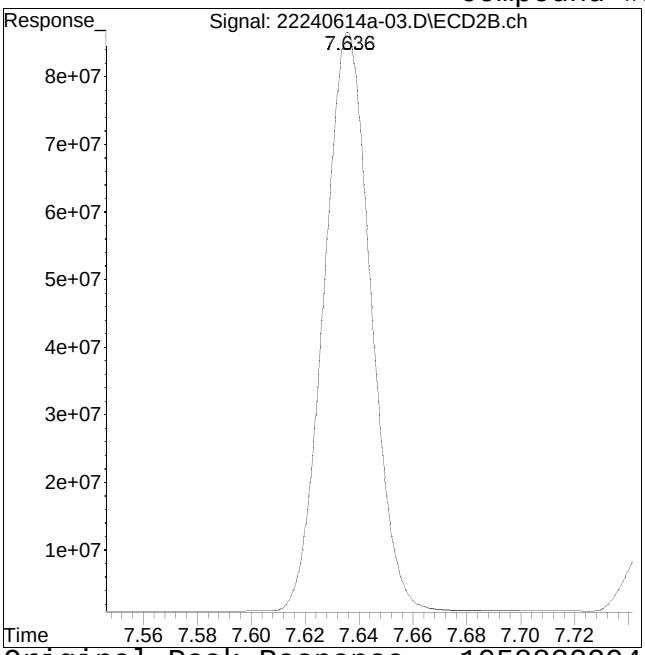


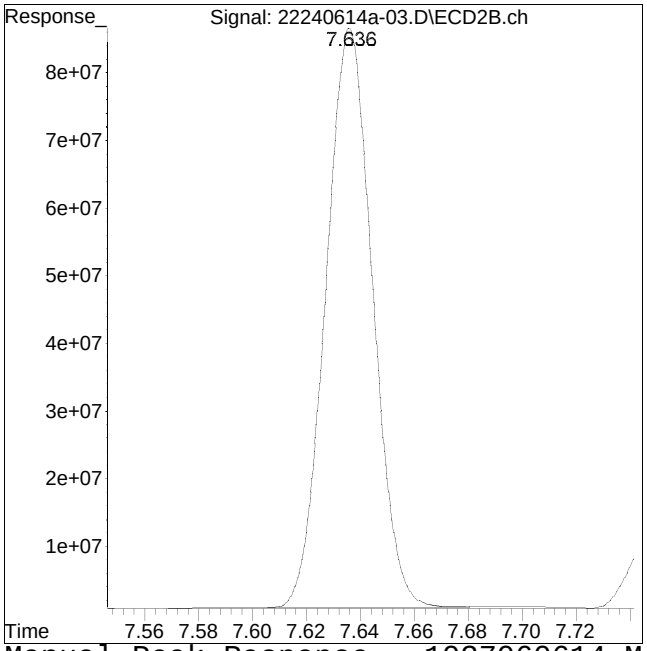
Original Peak Response = 1081210690 Manual Peak Response = 1029645790 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #17: Dicamba #2



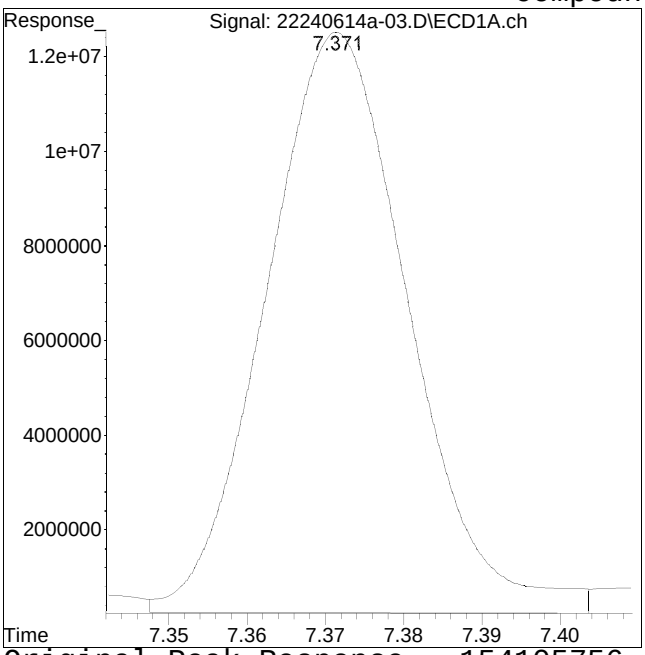


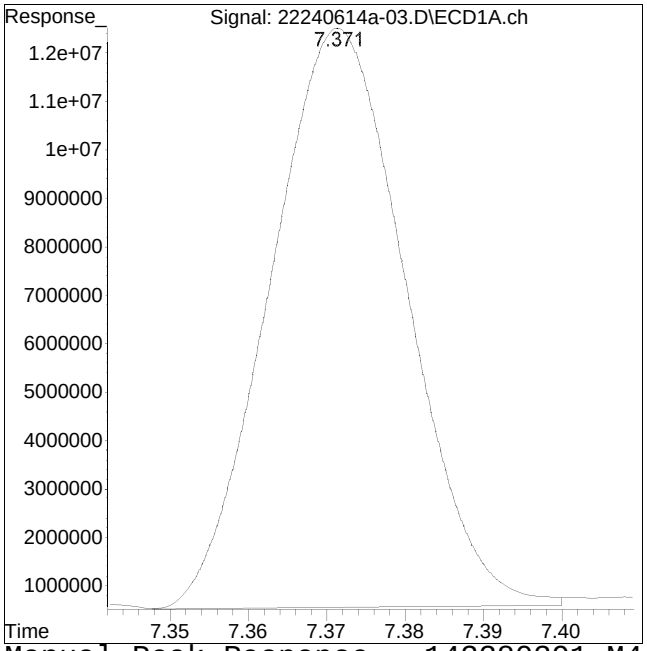
Original Peak Response = 1058832294 Manual Peak Response = 1037060614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #5: MCPP



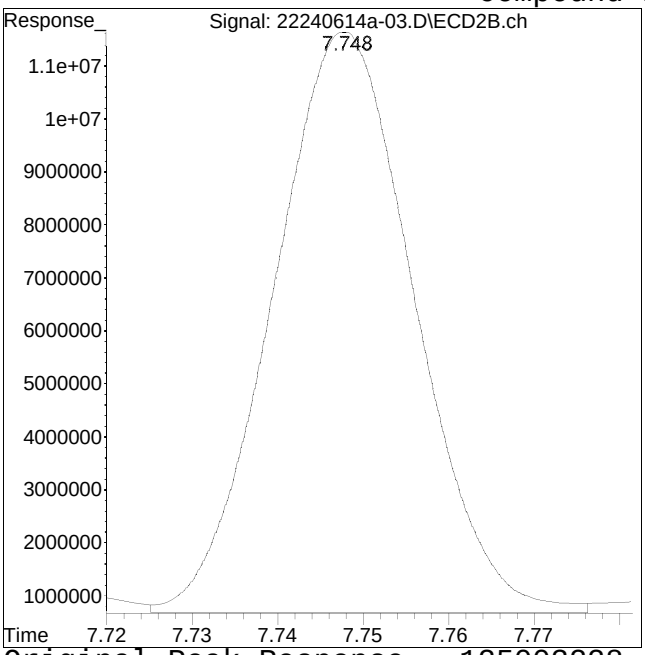


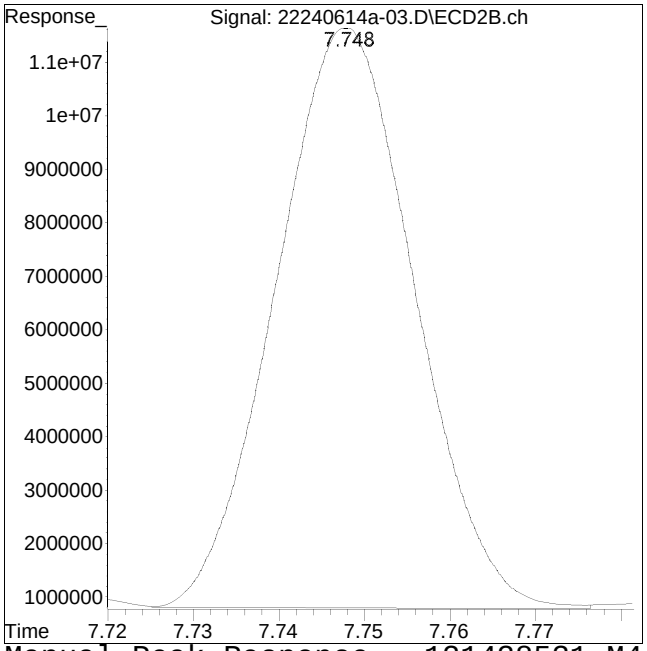
Original Peak Response = 154105756 Manual Peak Response = 143380391 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #18: MCPP #2



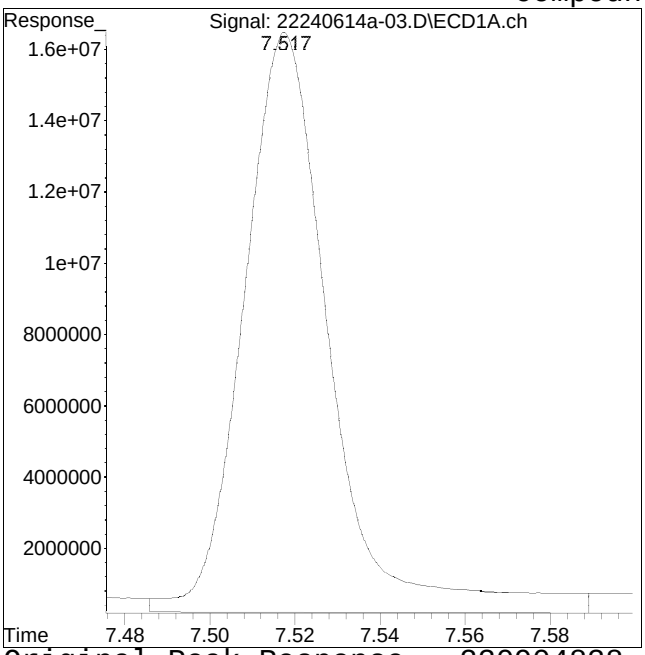


Original Peak Response = 125003228 Manual Peak Response = 121438531 M4
M4 = Poor automated baseline construction.

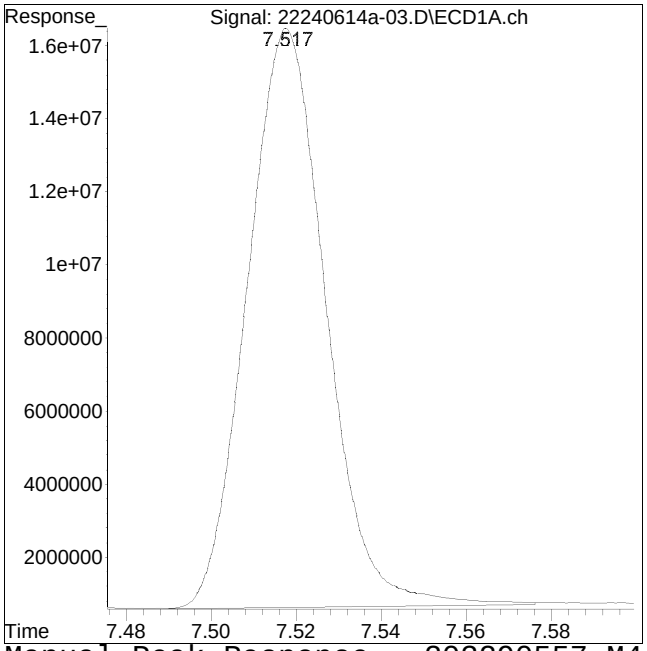
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #6: MCPA



Original Peak Response = 230904838



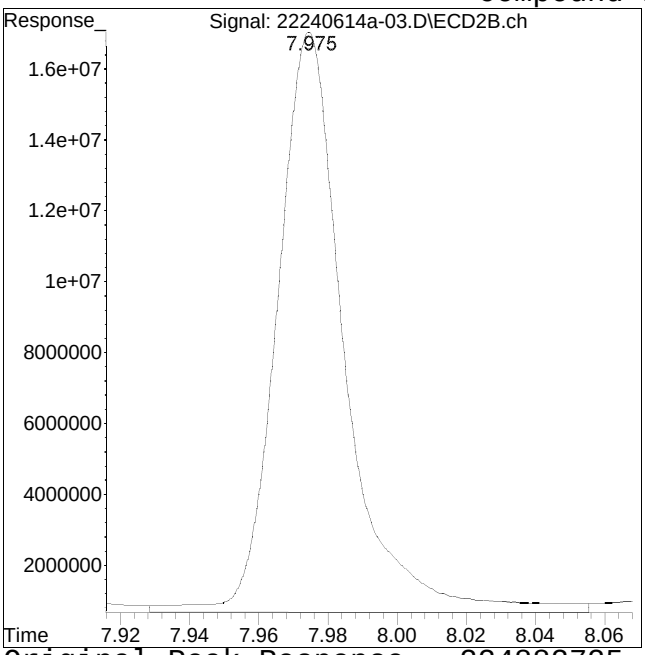
Manual Peak Response = 203290557 M4

M4 = Poor automated baseline construction.

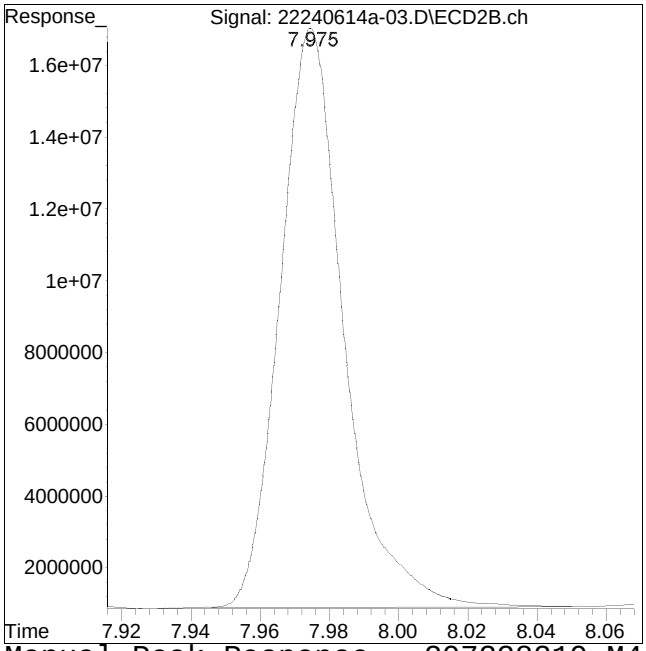
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #19: MCPA #2



Original Peak Response = 224882725



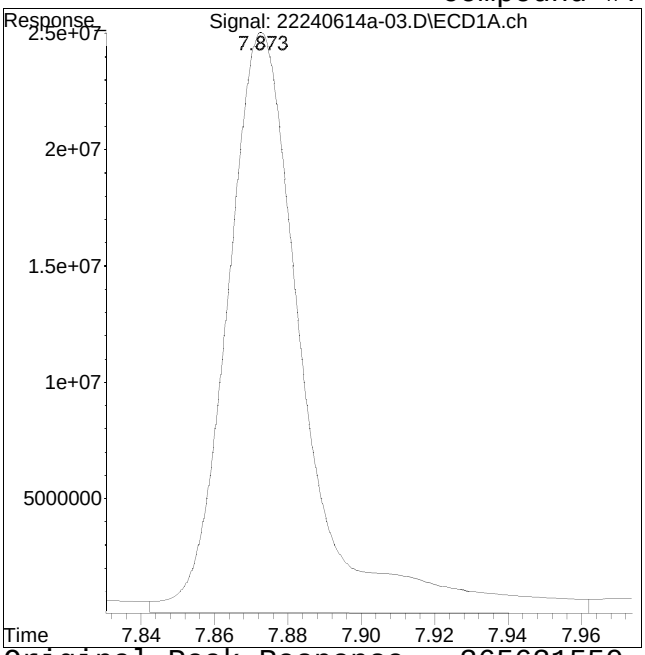
Manual Peak Response = 207338219 M4

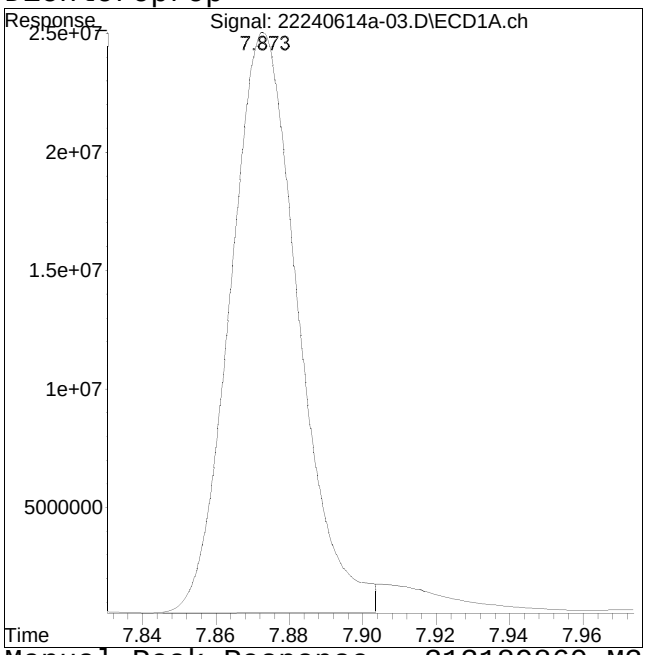
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #7: Dichloroprop



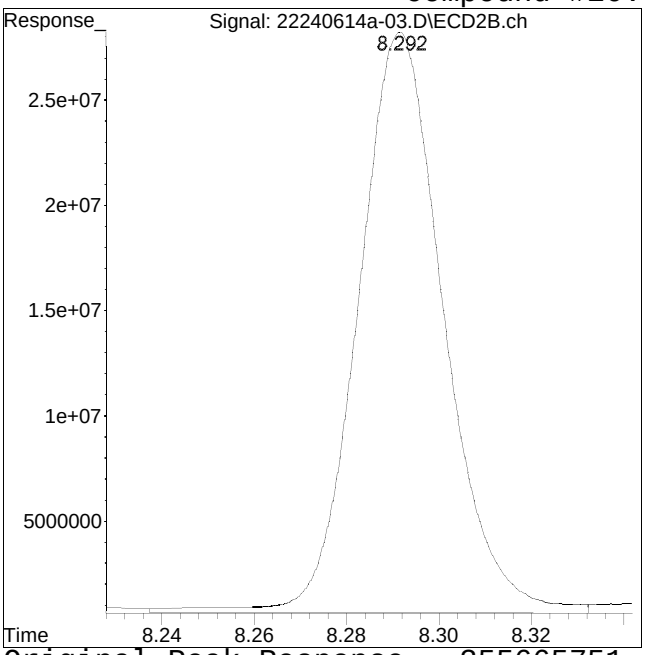


Original Peak Response = 365631550 Manual Peak Response = 313189860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

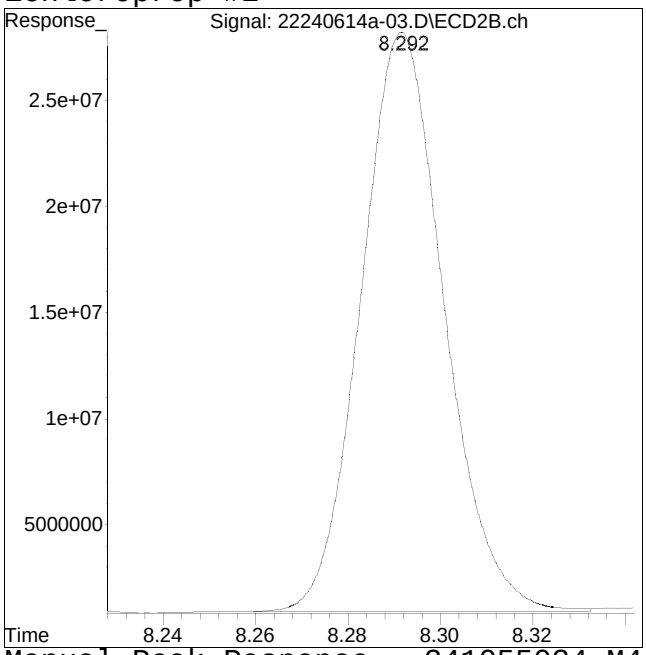
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #20: Dichloroprop #2



Original Peak Response = 355665751



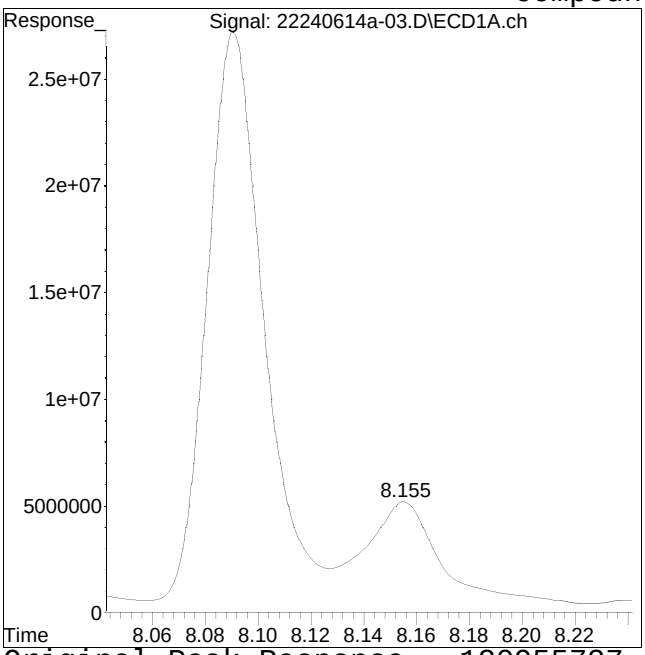
Manual Peak Response = 341055034 M4

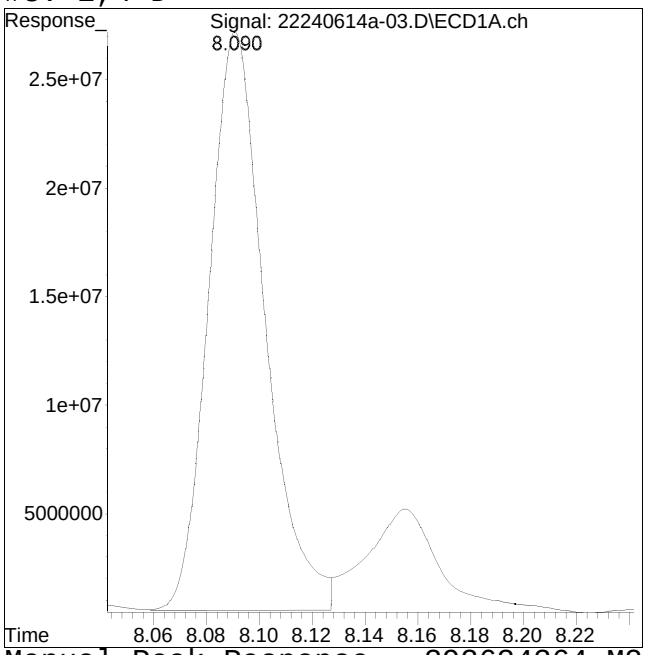
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #8: 2,4-D



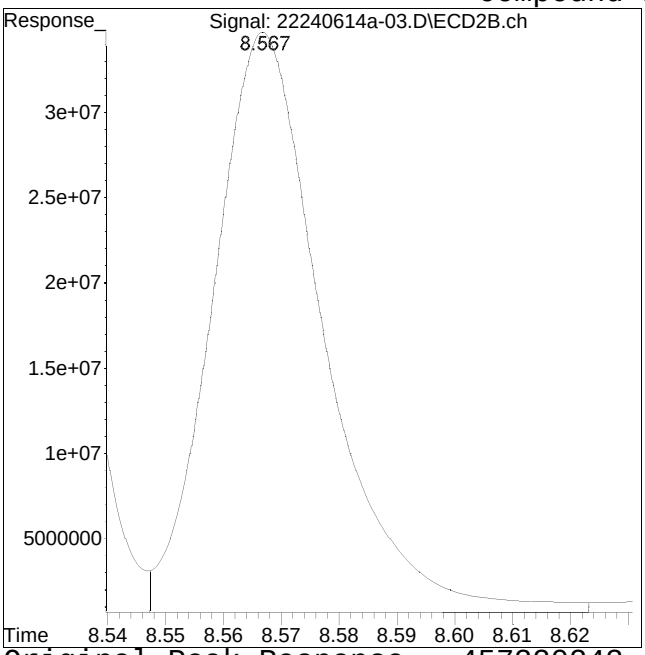


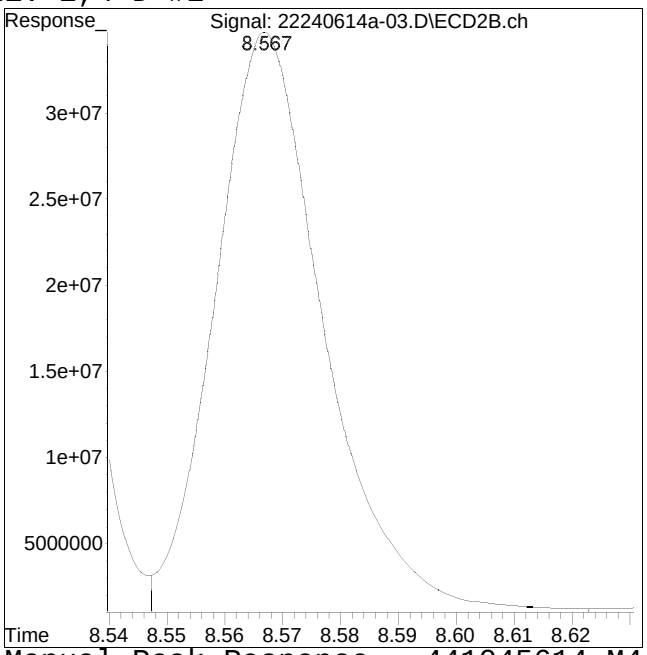
Original Peak Response = 120955727 Manual Peak Response = 392634364 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #21: 2,4-D #2



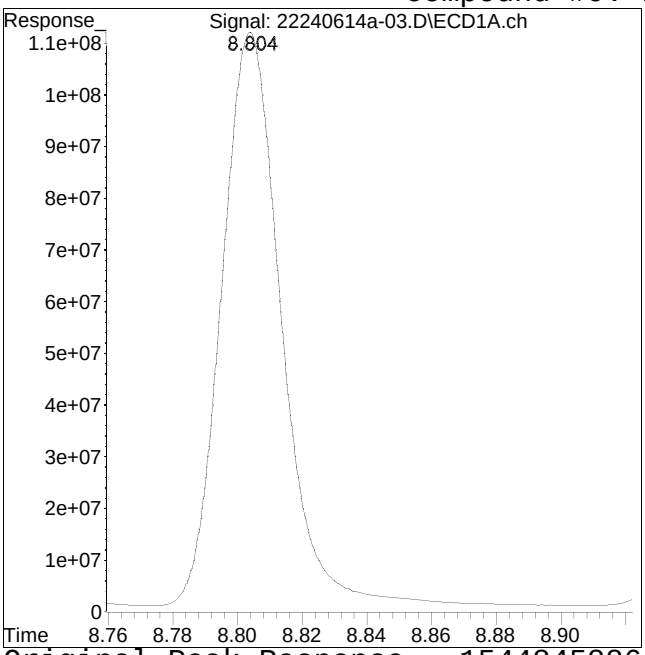


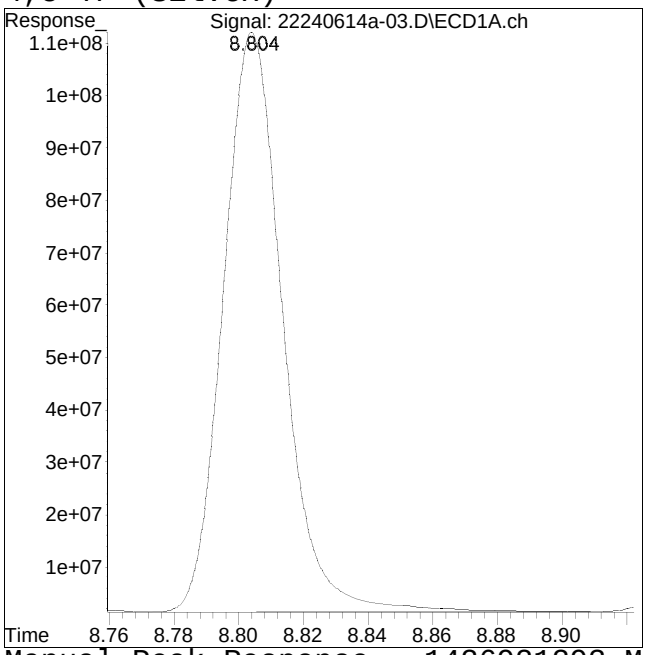
Original Peak Response = 457320243 Manual Peak Response = 441045614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #9: 2,4,5-TP (Silvex)



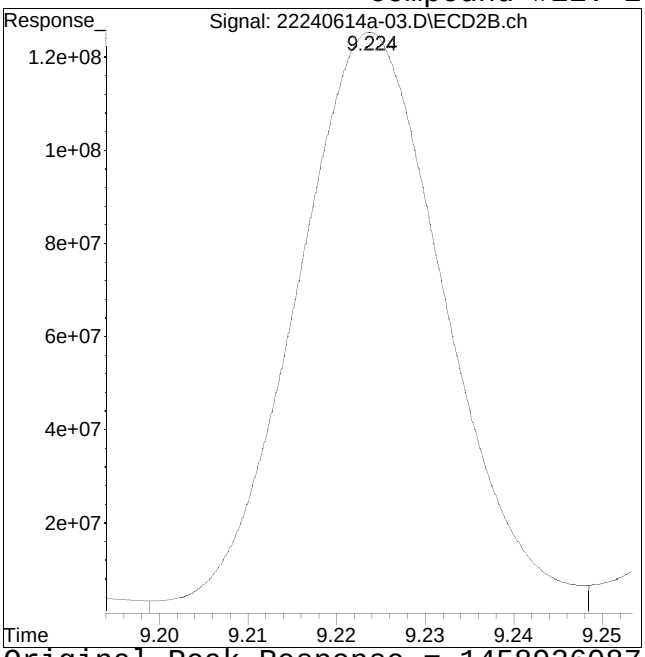


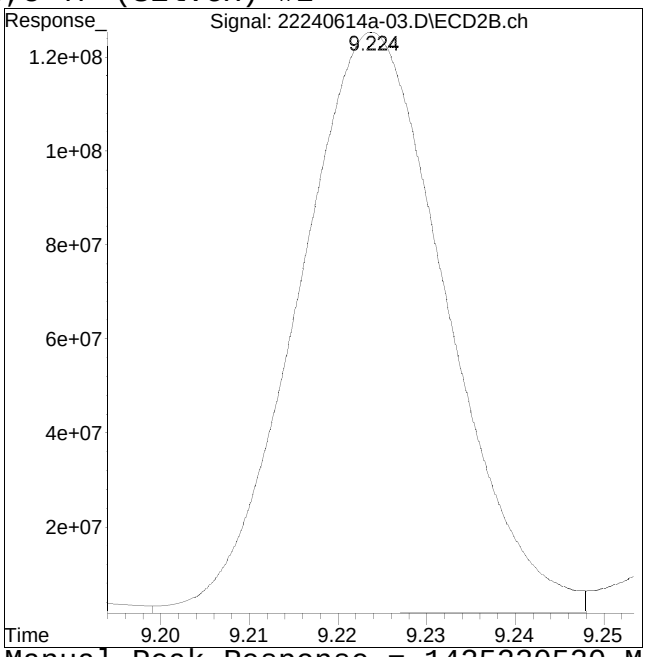
Original Peak Response = 1544845886 Manual Peak Response = 1426921293 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #22: 2,4,5-TP (Silvex) #2



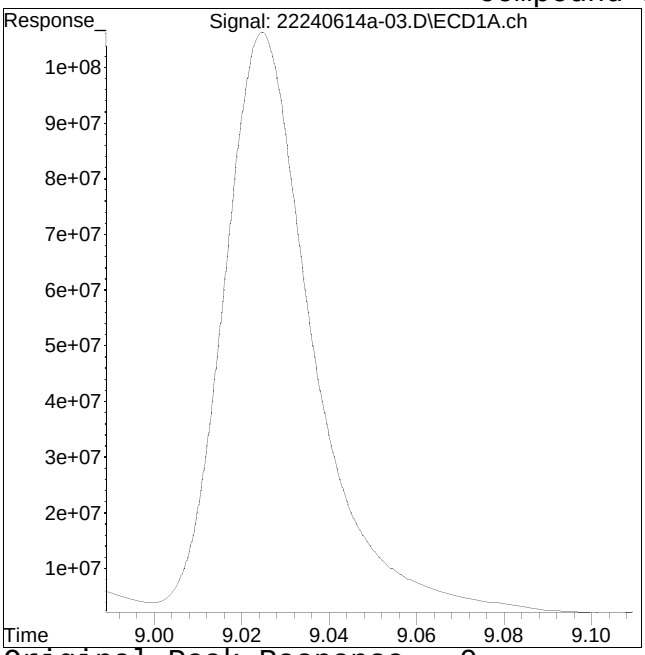


Original Peak Response = 1458926087 Manual Peak Response = 1425230520 M4
M4 = Poor automated baseline construction.

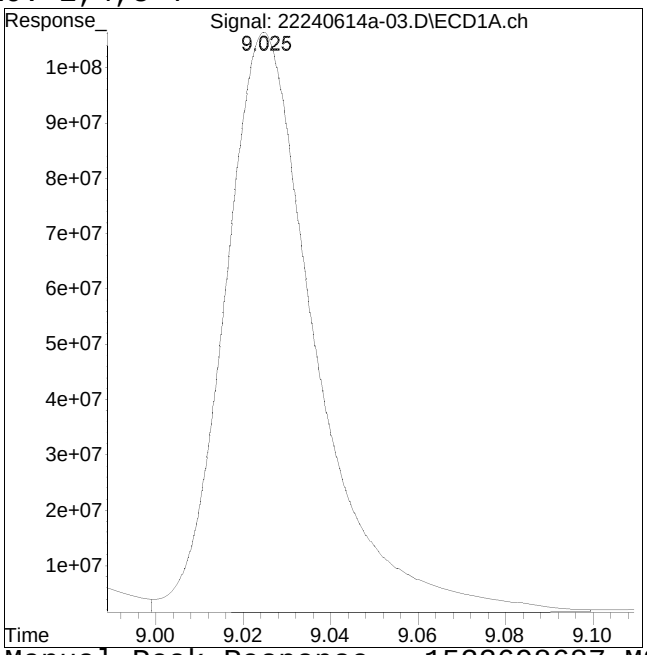
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #10: 2,4,5-T



Original Peak Response = 0



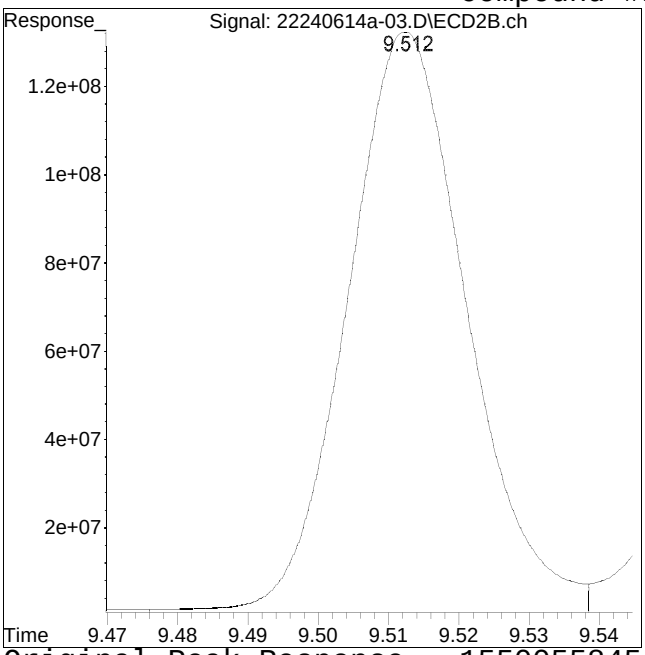
Manual Peak Response = 1523698687 M2

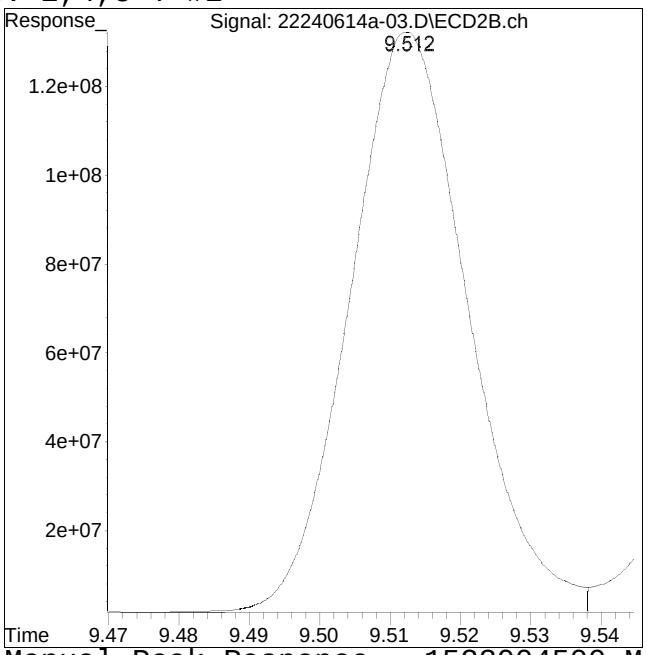
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #23: 2,4,5-T #2



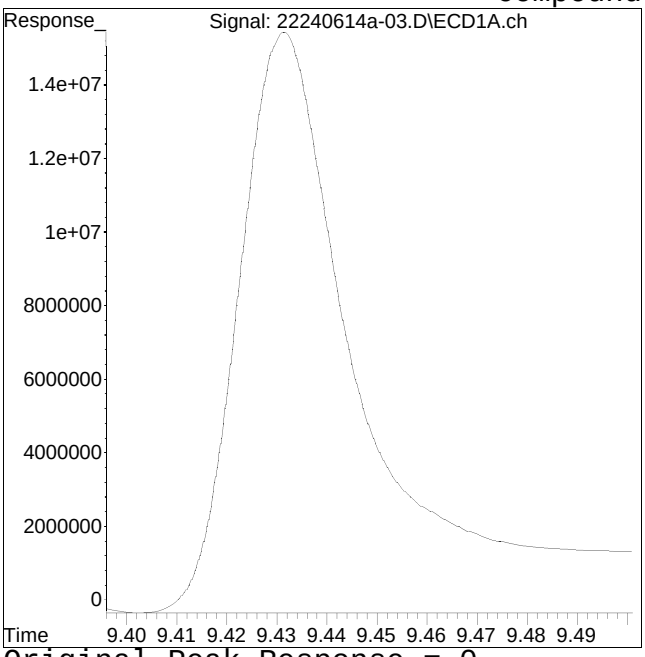


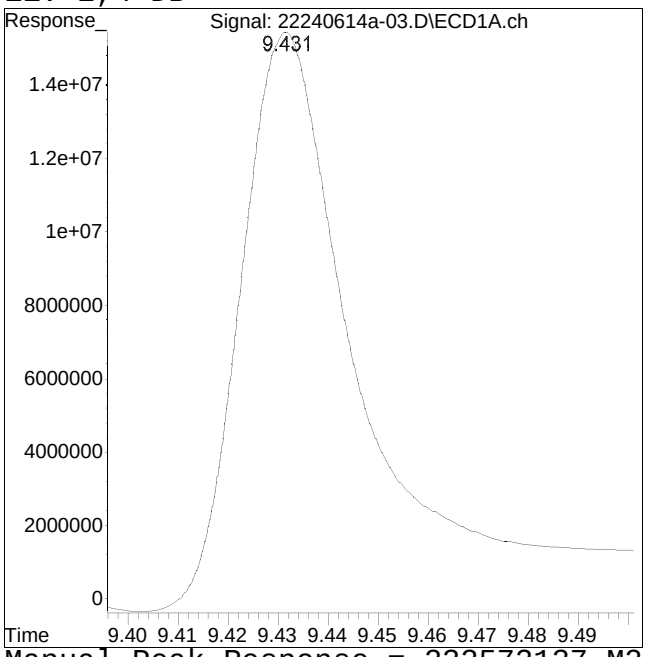
Original Peak Response = 1550055845 Manual Peak Response = 1523004500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #11: 2,4-DB



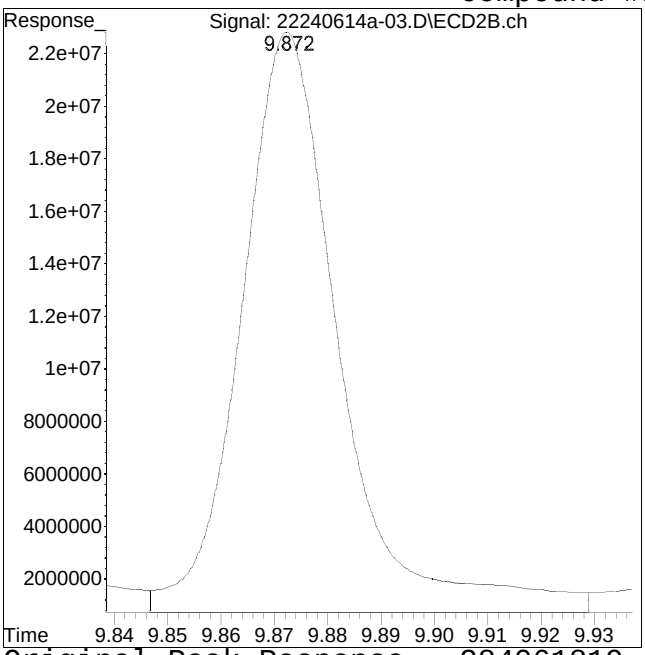


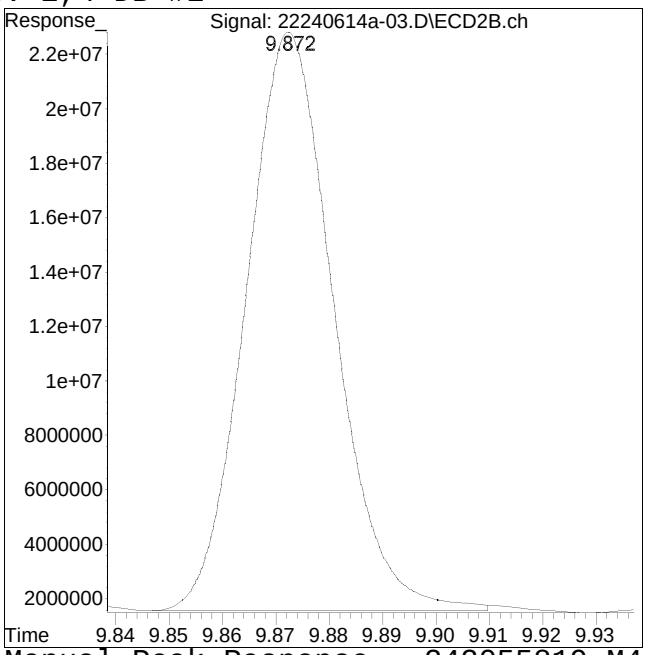
Original Peak Response = 0 Manual Peak Response = 232573137 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #24: 2,4-DB #2



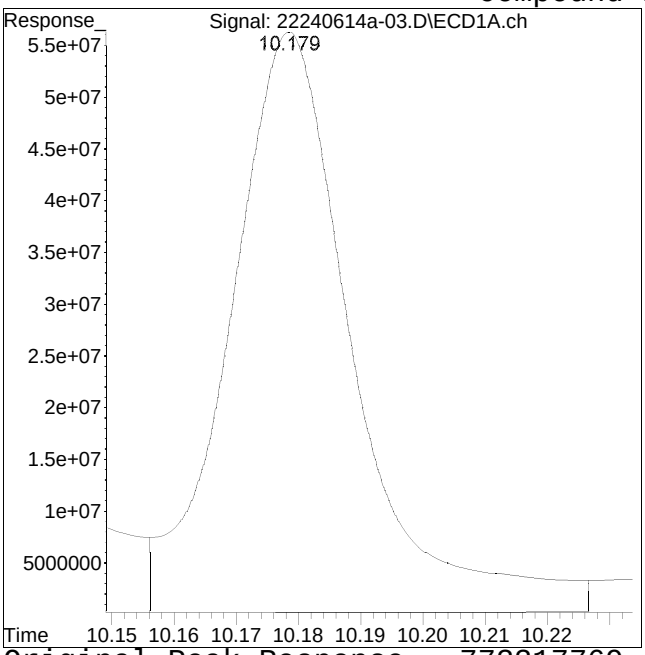


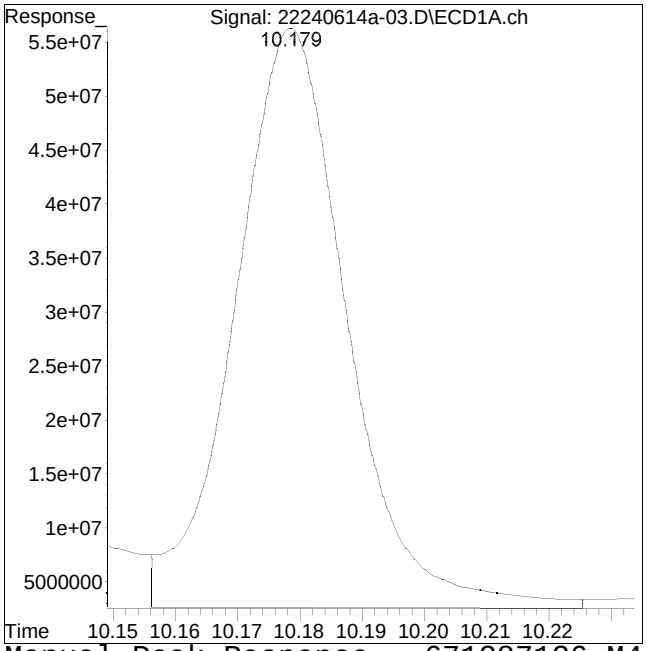
Original Peak Response = 284061819 Manual Peak Response = 242055819 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #12: Dinoseb



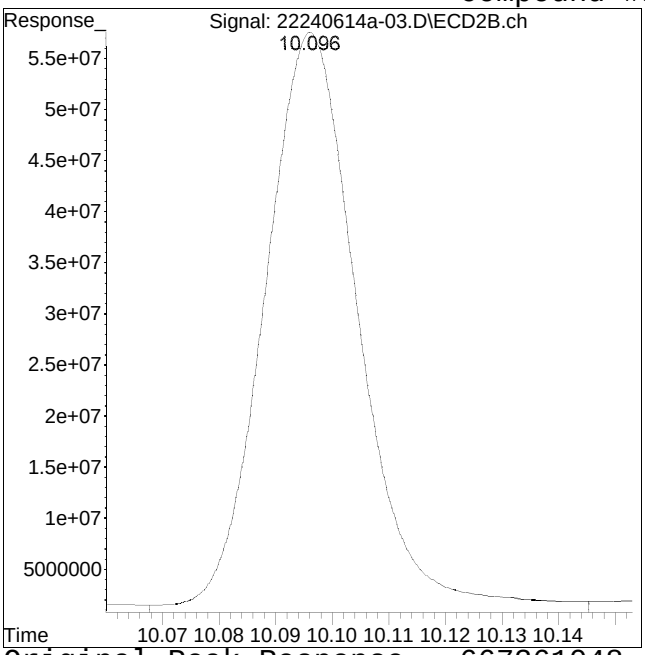


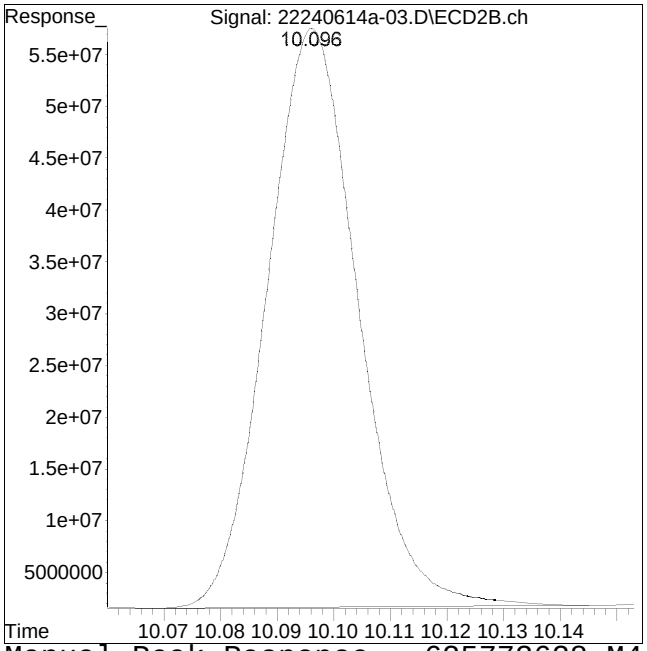
Original Peak Response = 773317769 Manual Peak Response = 671287126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-03.D Operator : pest22:akm
Date Inj'd : 6/14/2024 6:51 Instrument : Pest22
Sample : WG1933705-2,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #25: Dinoseb #2





Original Peak Response = 667361048 Manual Peak Response = 625773628 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 07:09
Operator : pest22:akm
Sample : WG1933705-3,42,, 3926
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:45:39 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240614a\22240614a-01.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.530	8.526	785.6E6	796.7E6	0.250M3	0.250M4
	Standard Area 1 : #1 = 815969259				Recovery =	96.28%	
	Standard Area 1 : #2 = 847843738				Recovery =	93.96%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.986	7.455	341.0E6	369.7E6	0.527M4	0.573M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	105.40%	114.60%
	Target Compounds						
2) t	Dalapon	2.390	2.387	286.6E6	382.9E6	0.432M4	0.609M4
4) t	Dicamba	7.169	7.636	1018.9E6	1022.9E6	0.550M3	0.541M4
5) t	MCPP	7.371	7.748	139.6E6	121.3E6	85.232M4	51.699M4
6) t	MCPA	7.517	7.975	200.3E6	209.4E6	65.937M4	52.992M4
7) t	Dichloroprop	7.872	8.292	310.8E6	345.2E6	0.512M3	0.564M4
8) t	2,4-D	8.090f	8.567f	389.9E6	435.6E6	0.517M2	0.576M4
9) t	2,4,5-TP (Si	8.803f	9.224	1438.8E6	1429.2E6	0.528M4	0.524M4
10) t	2,4,5-T	9.024f	9.512f	1477.6E6	1515.2E6	0.551M2	0.572M4
11) t	2,4-DB	9.430f	9.872f	240.1E6	255.2E6	0.578M2	0.569M4
12) t	Dinoseb	10.179	10.096	686.7E6	653.9E6	0.443M4	0.418M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

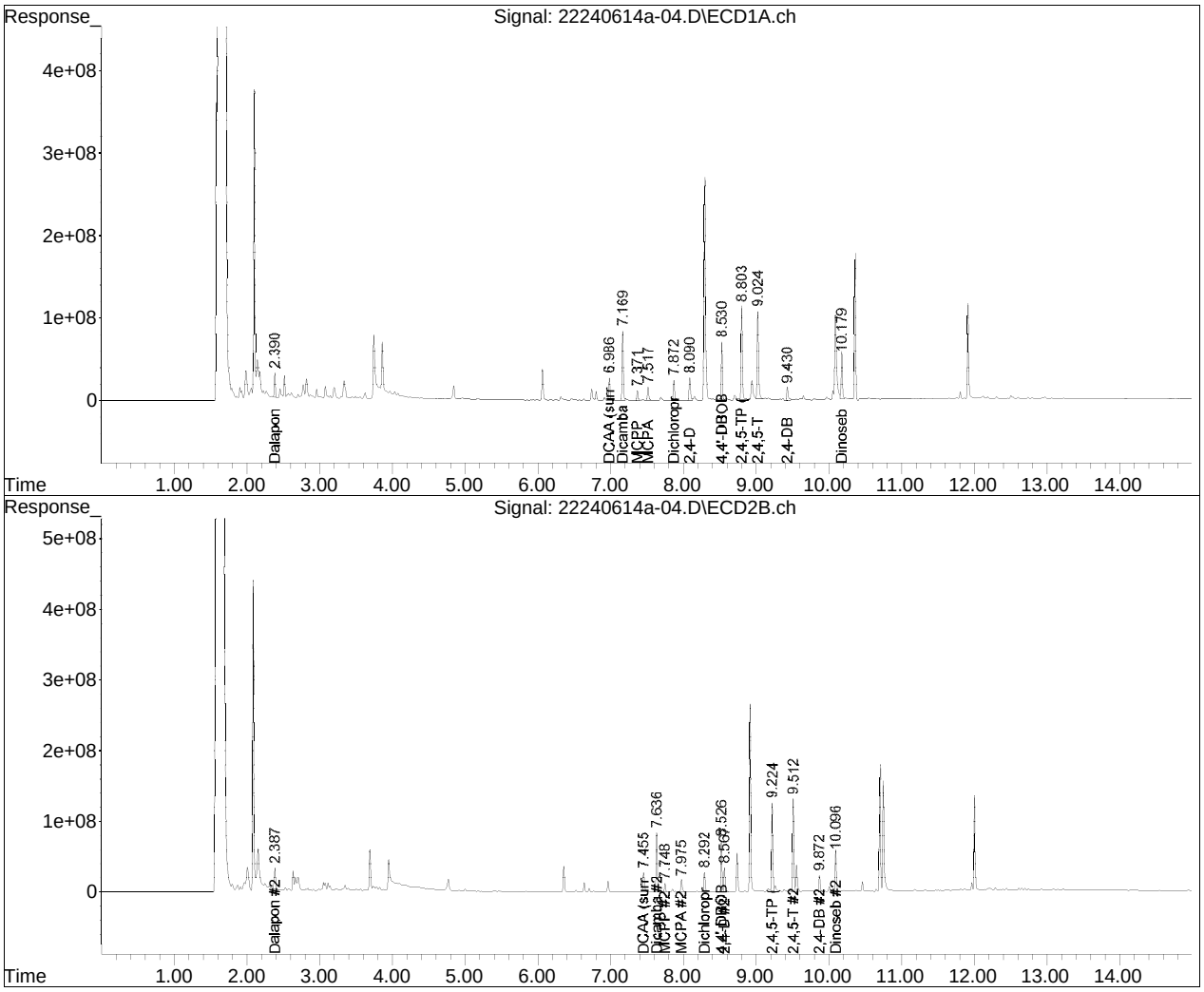
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240614a-01.D•

Data Path : I:\PEST\Pest22\2024\240614a\
Data File : 22240614a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2024 07:09
Operator : pest22:akm
Sample : WG1933705-3,42,, 3926
Misc : wg1934262,WG1933705,ical21040
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:45:39 2024
Quant Method : I:\PEST\Pest22\2024\240614a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Fri Jun 14 06:23:38 2024
Response via : Initial Calibration
Integrator: ChemStation

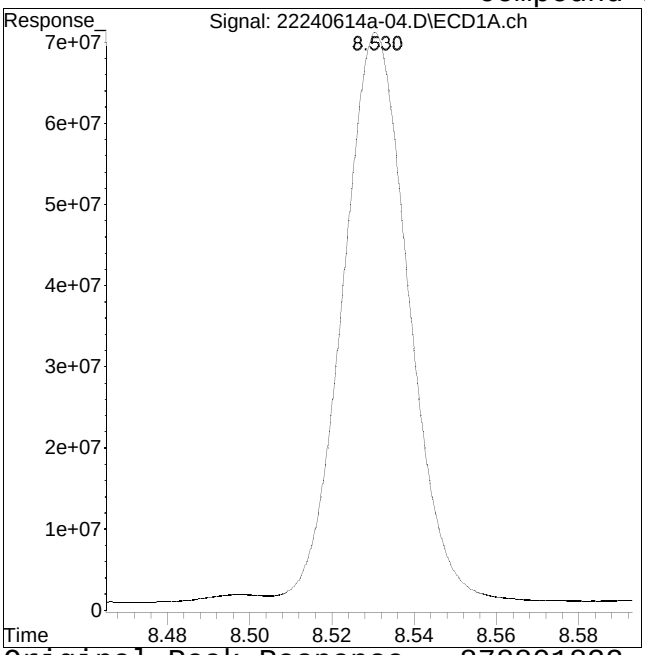
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

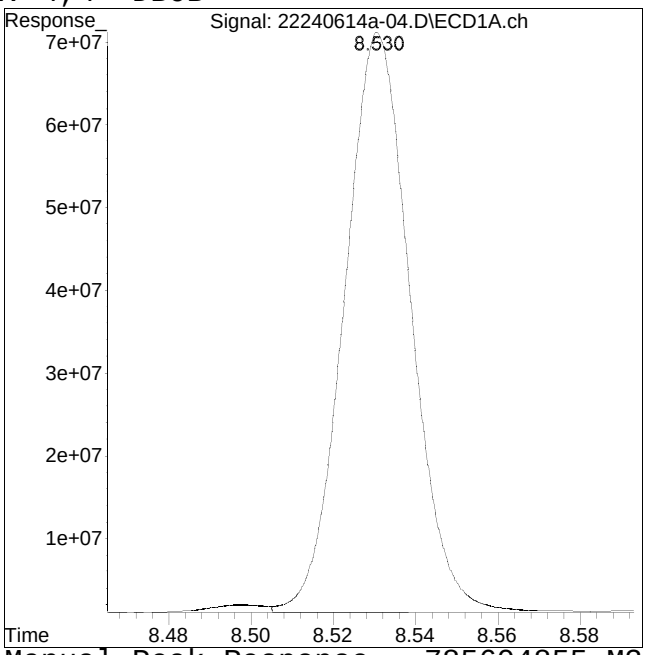


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #1: 4,4'-DBOB



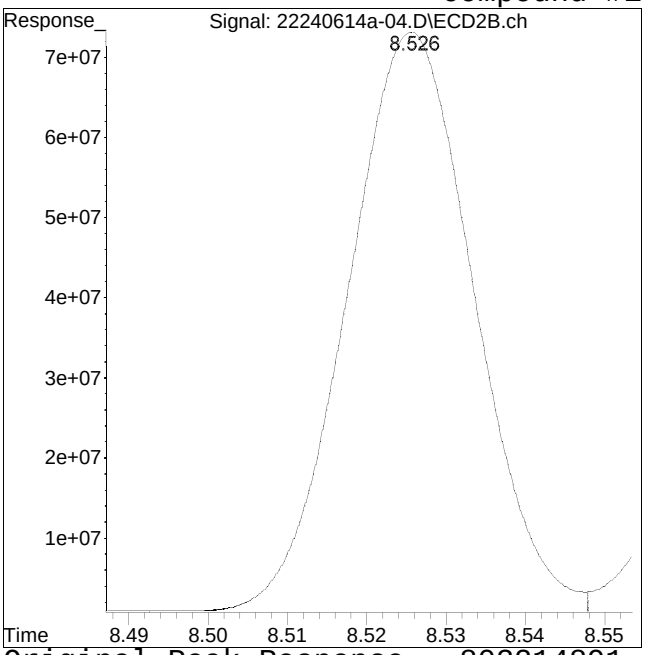


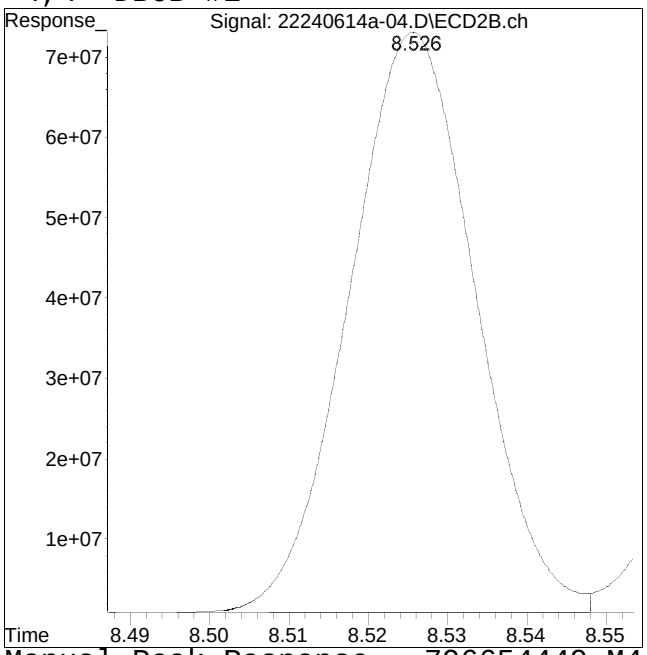
Original Peak Response = 878801832 Manual Peak Response = 785604855 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #14: 4,4'-DBOB #2



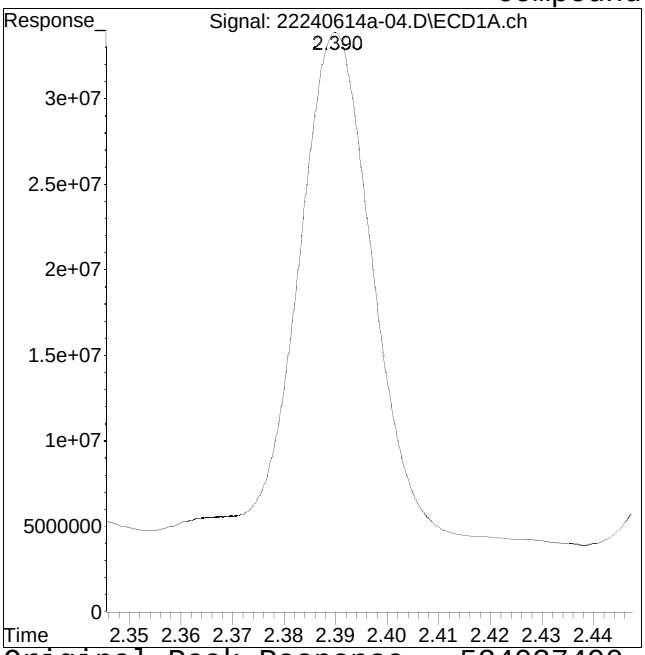


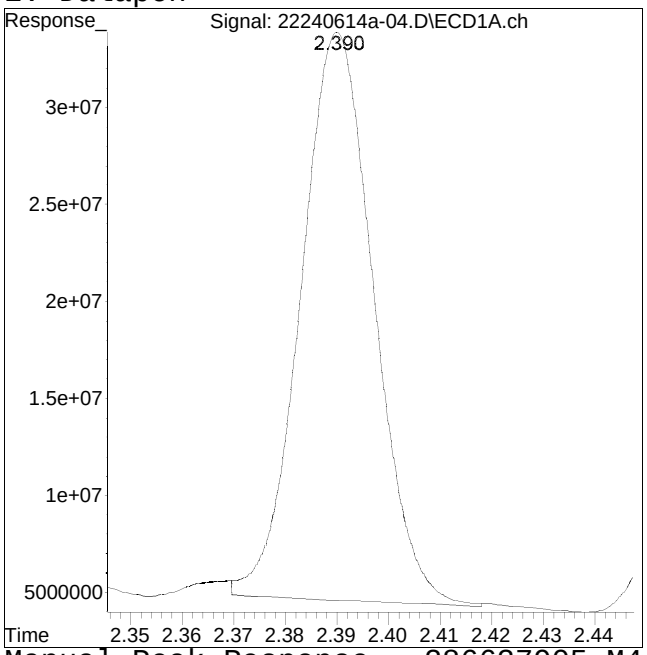
Original Peak Response = 803214891 Manual Peak Response = 796654449 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #2: Dalapon



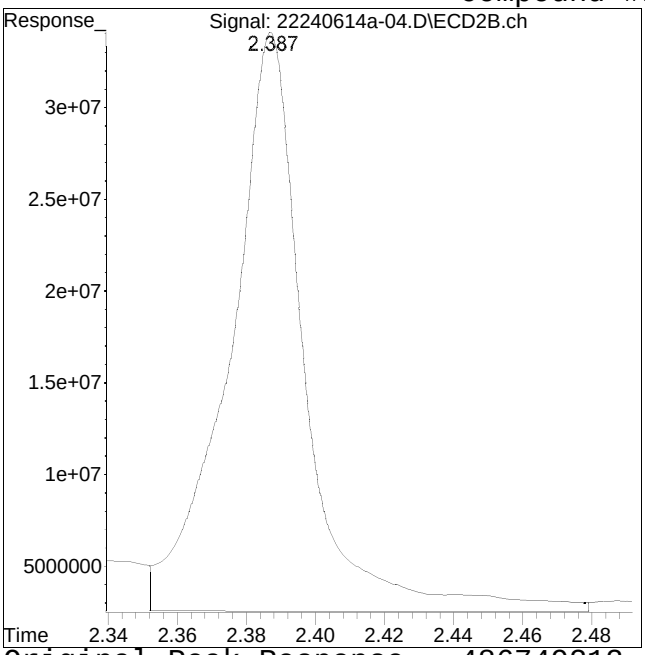


Original Peak Response = 524037490 Manual Peak Response = 286637905 M4
M4 = Poor automated baseline construction.

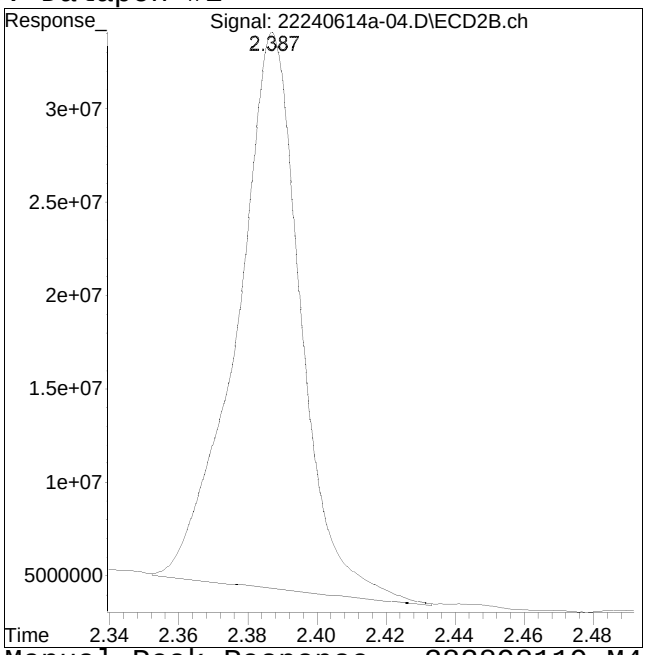
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #15: Dalapon #2



Original Peak Response = 486749212



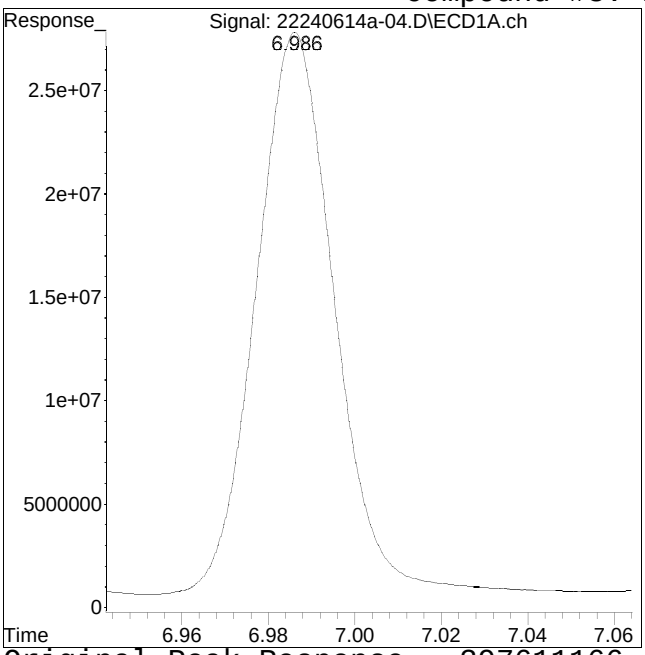
Manual Peak Response = 382898119 M4

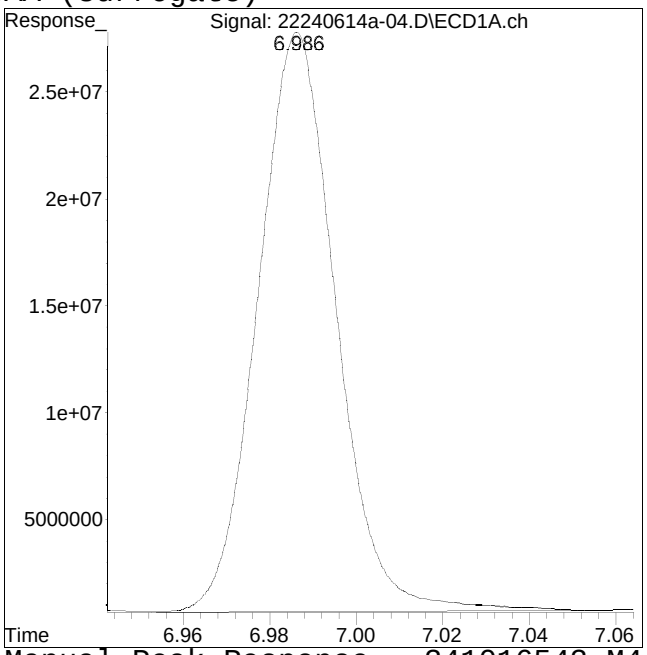
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #3: DCAA (surrogate)



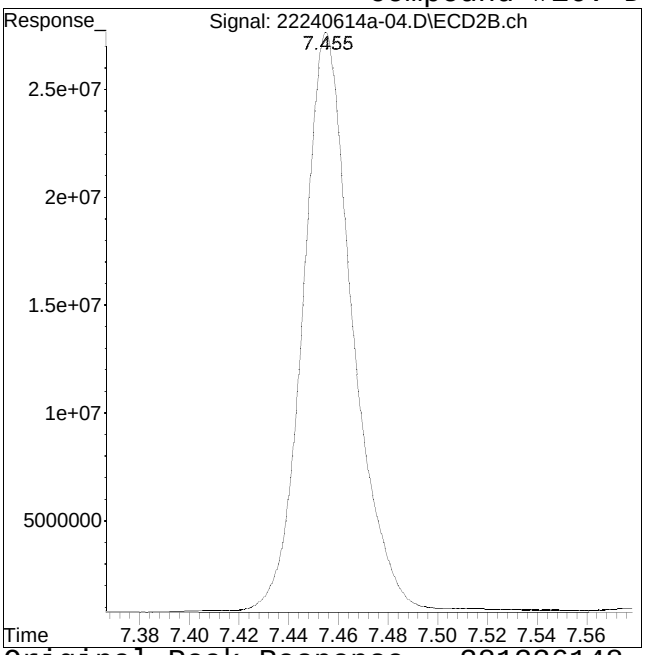


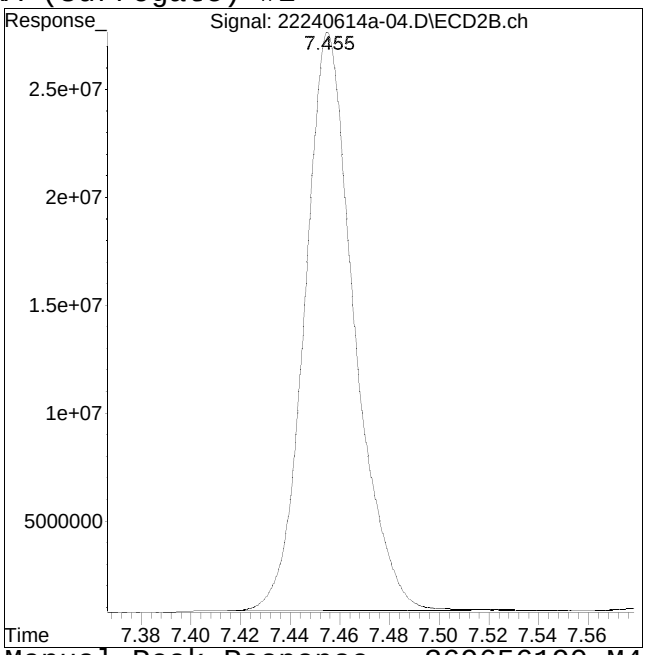
Original Peak Response = 397611166 Manual Peak Response = 341016543 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #16: DCAA (surrogate) #2



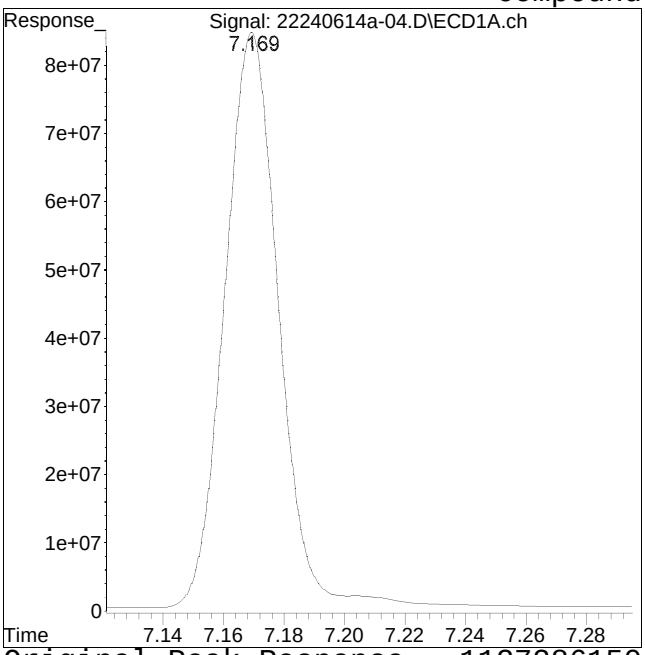


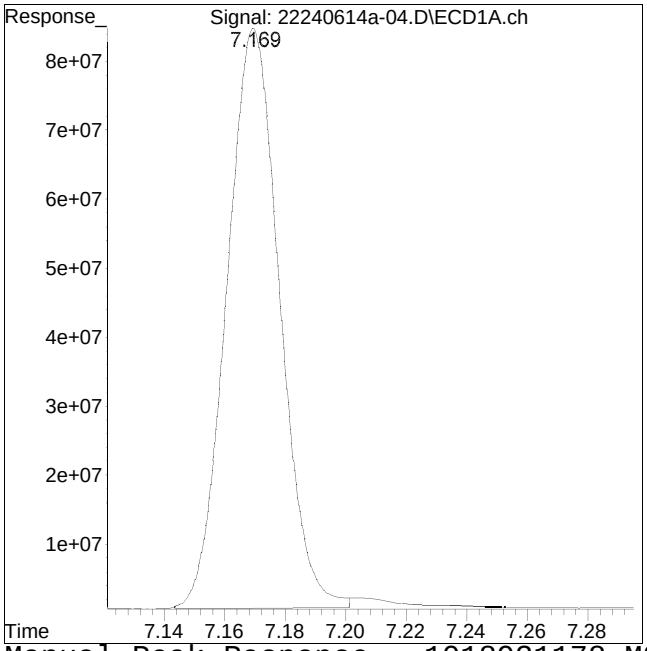
Original Peak Response = 381336148 Manual Peak Response = 369656190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #4: Dicamba



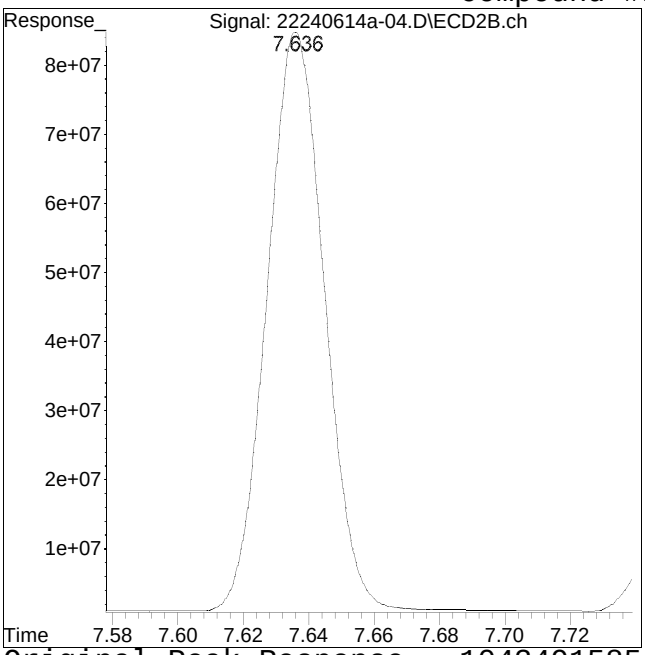


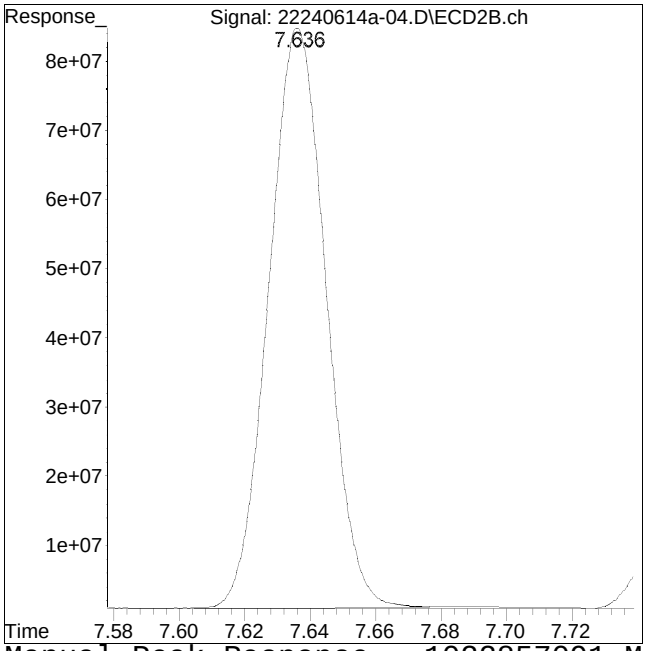
Original Peak Response = 1127286150 Manual Peak Response = 1018931178 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #17: Dicamba #2



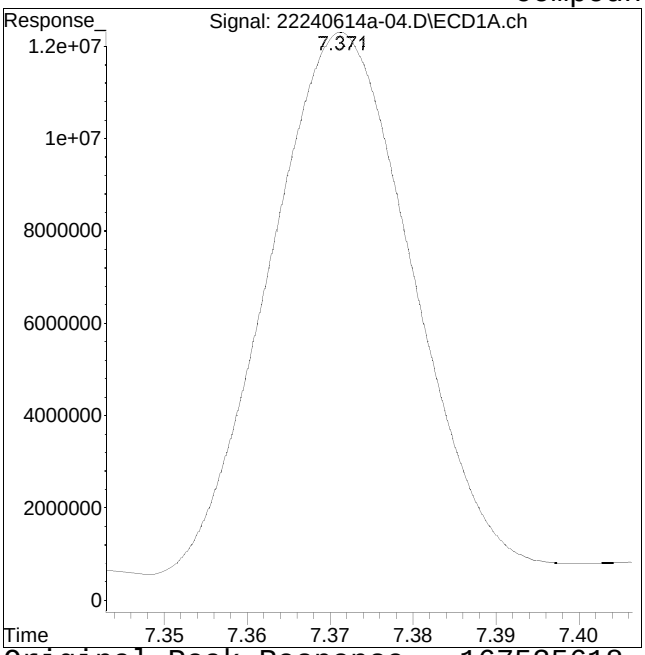


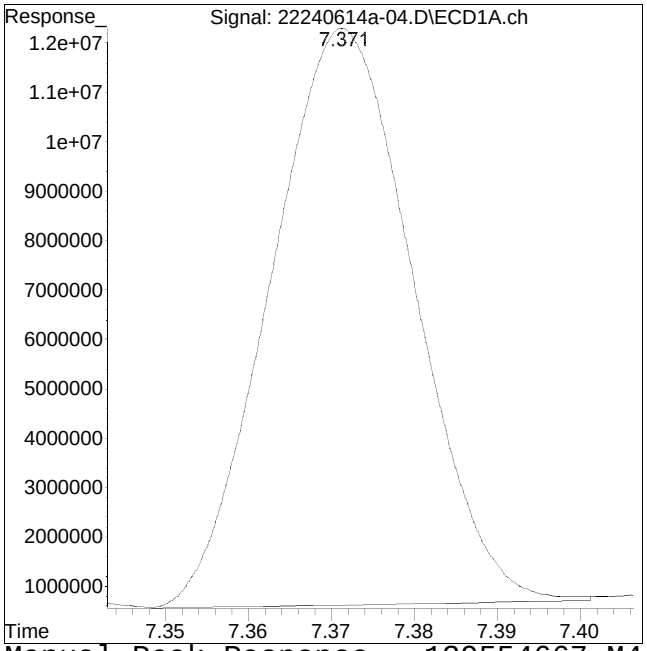
Original Peak Response = 1043491585 Manual Peak Response = 1022857091 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #5: MCPP



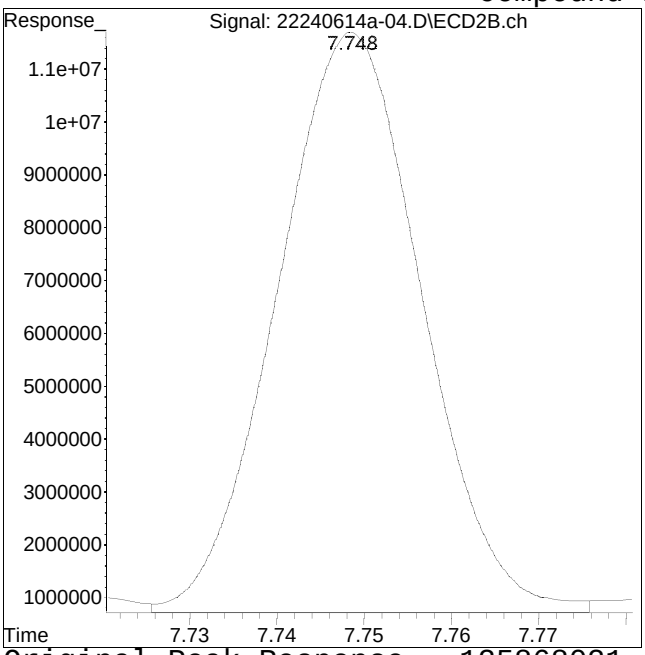


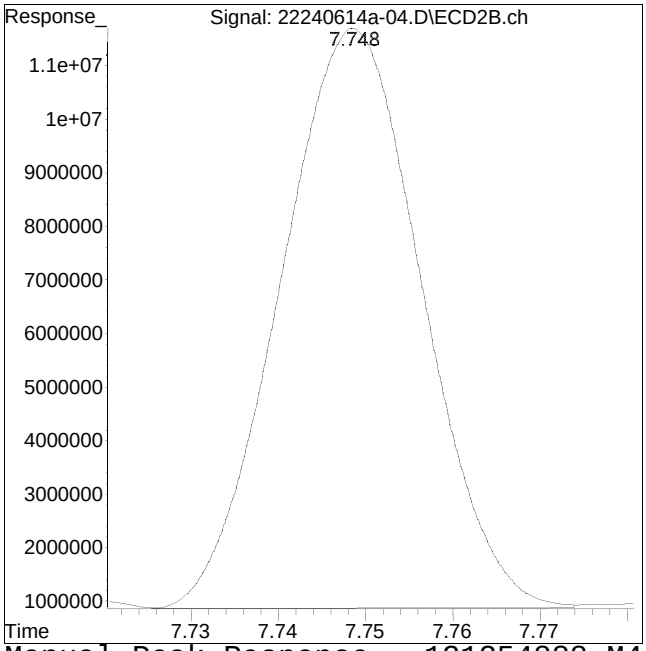
Original Peak Response = 167535618 Manual Peak Response = 139554667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #18: MCPP #2



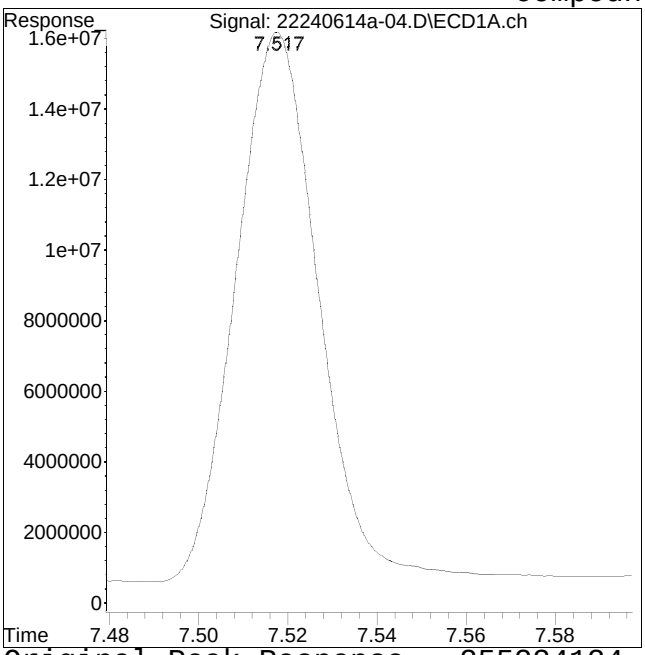


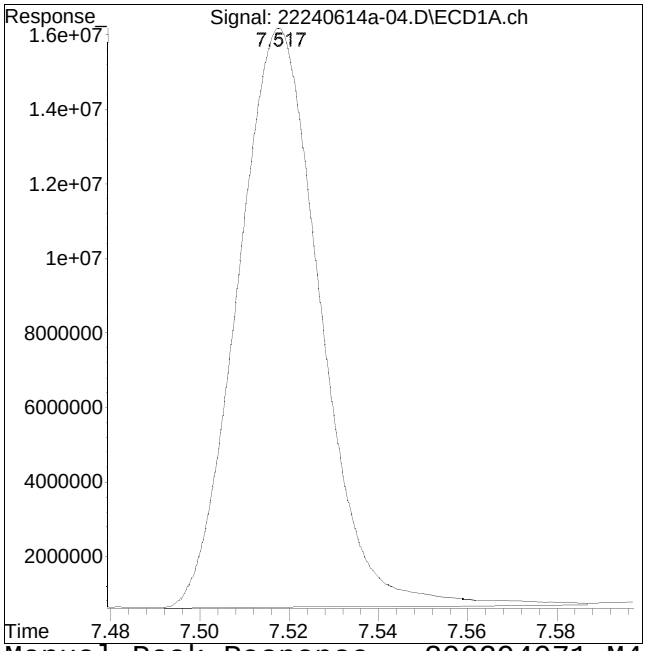
Original Peak Response = 125868021 Manual Peak Response = 121254888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #6: MCPA



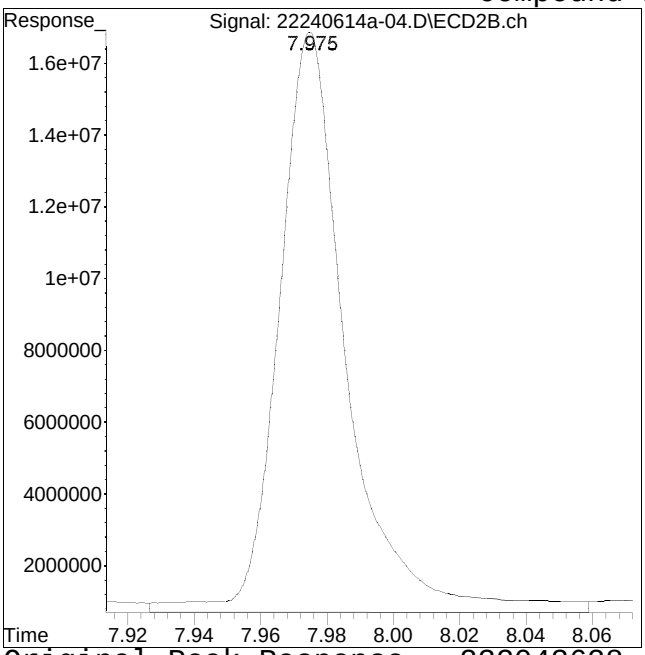


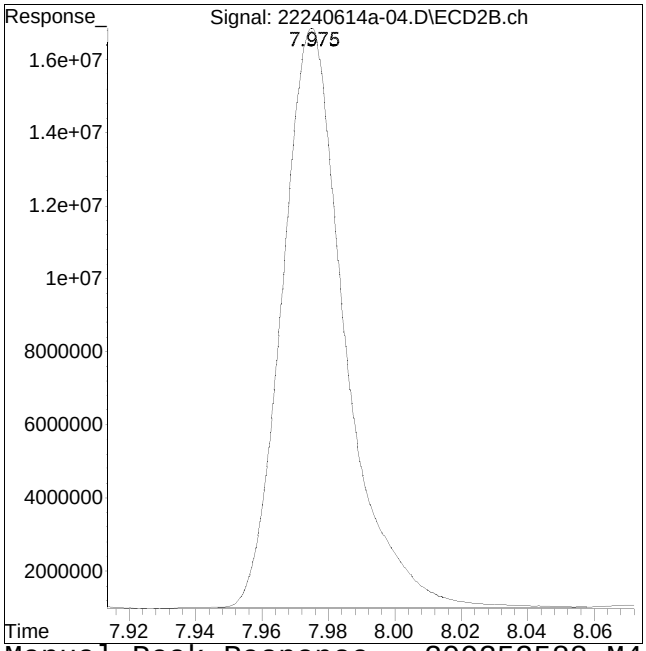
Original Peak Response = 255224124 Manual Peak Response = 200294071 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #19: MCPA #2



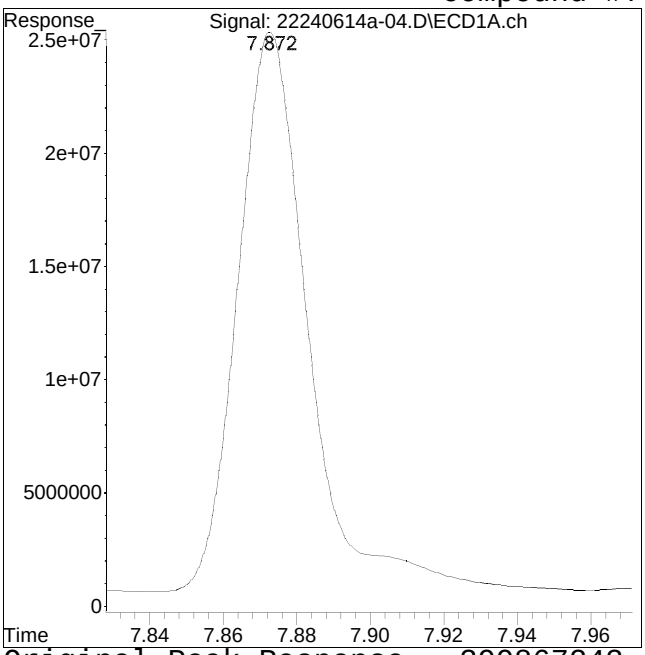


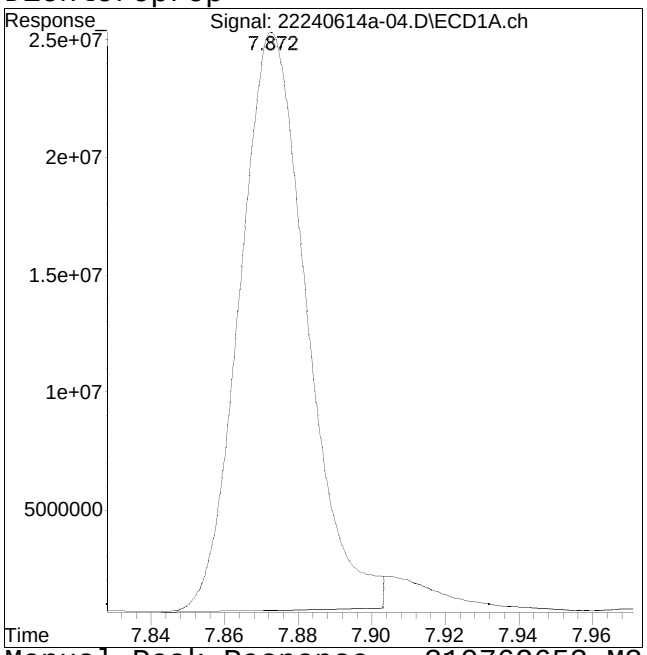
Original Peak Response = 232043628 Manual Peak Response = 209353588 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #7: Dichloroprop



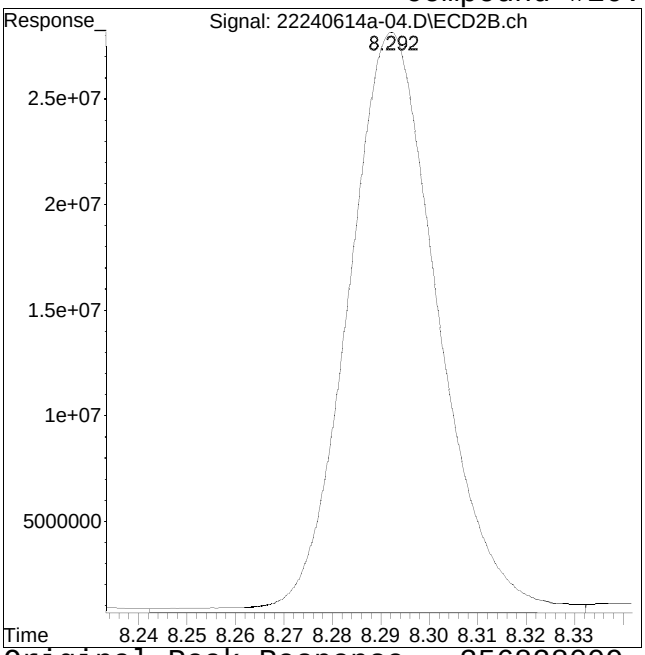


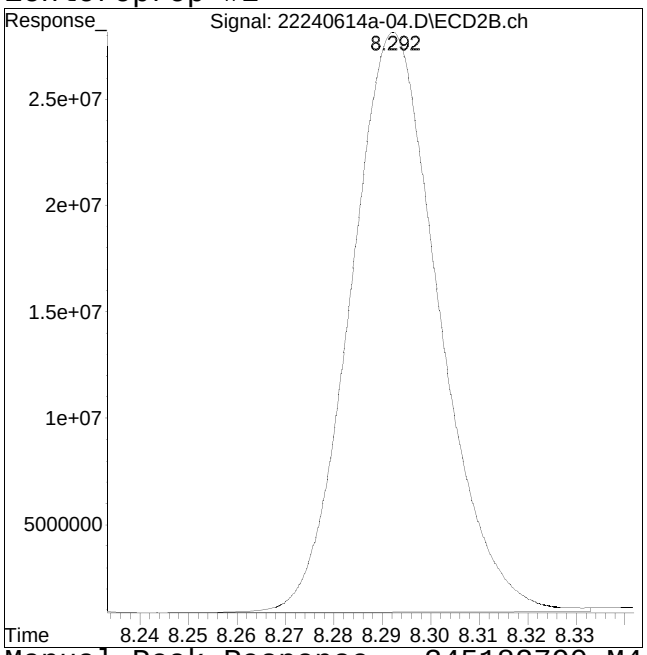
Original Peak Response = 399867243 Manual Peak Response = 310762653 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #20: Dichloroprop #2



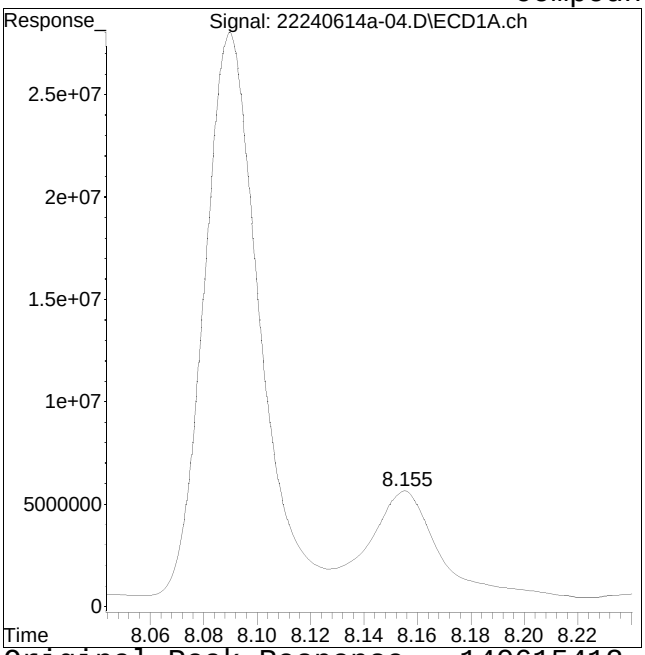


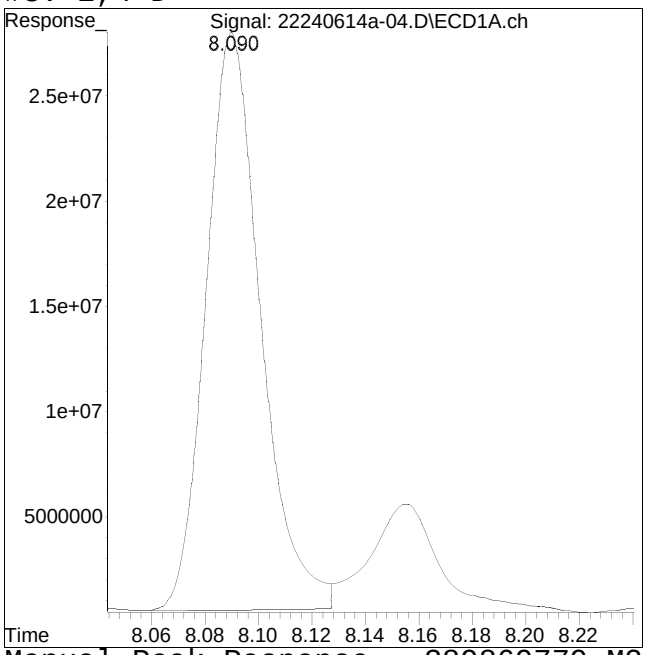
Original Peak Response = 356828009 Manual Peak Response = 345182790 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #8: 2,4-D



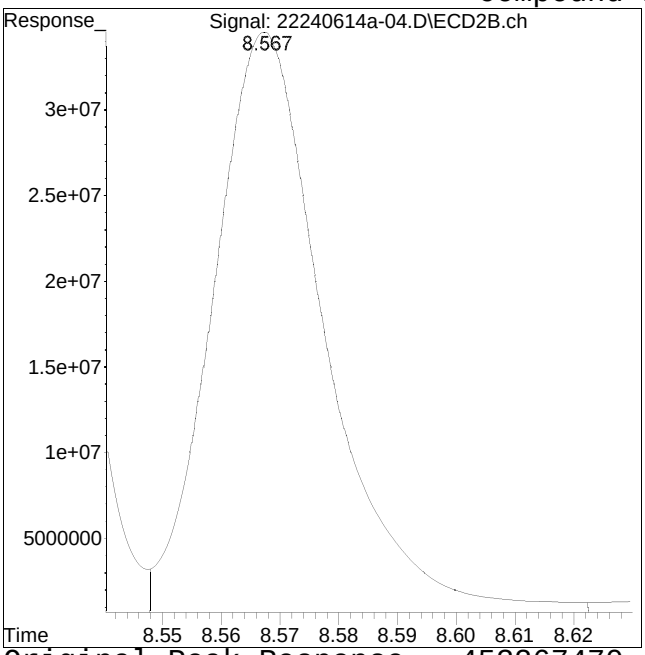


Original Peak Response = 140615412 Manual Peak Response = 389869779 M2
M2 = Peak not found by automatic integration algorithm.

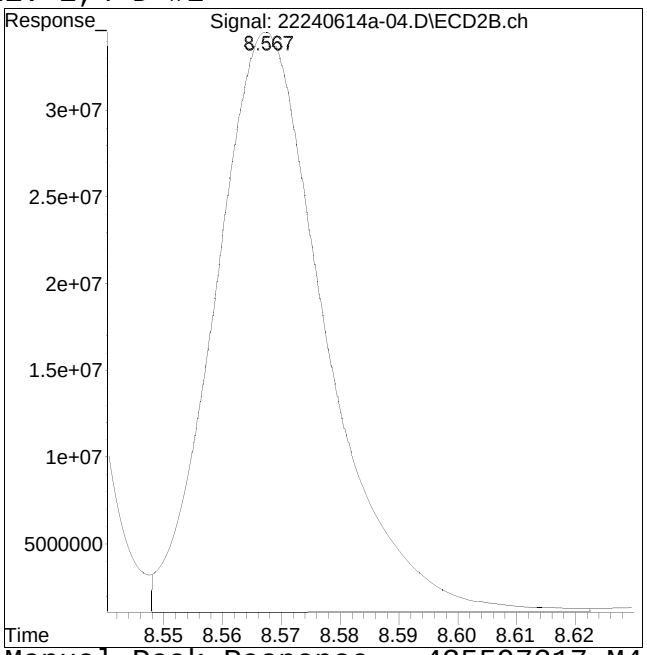
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #21: 2,4-D #2



Original Peak Response = 453267470



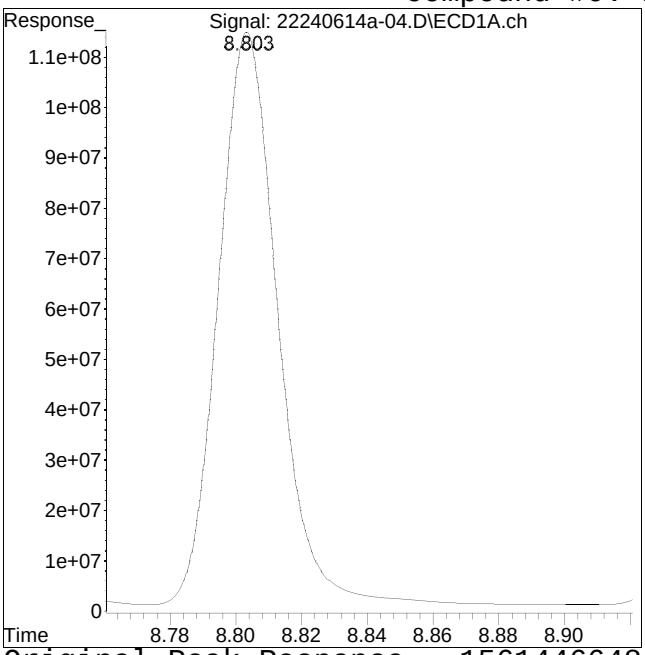
Manual Peak Response = 435597217 M4

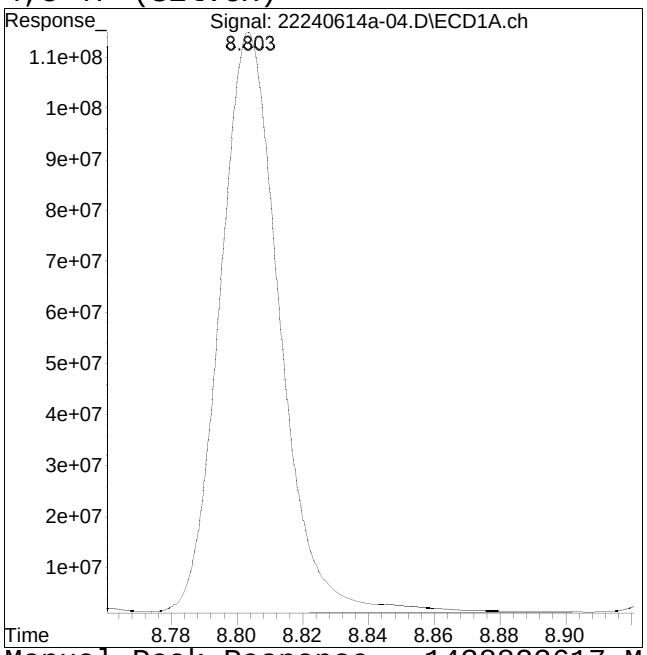
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #9: 2,4,5-TP (Silvex)



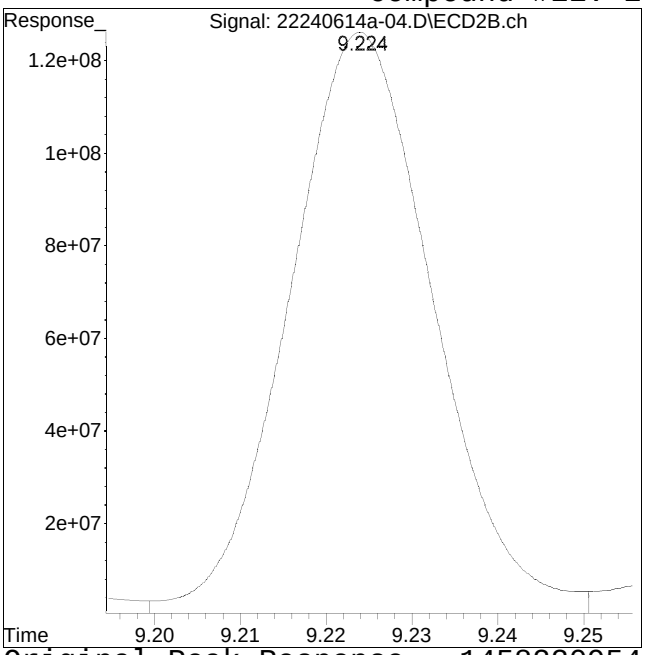


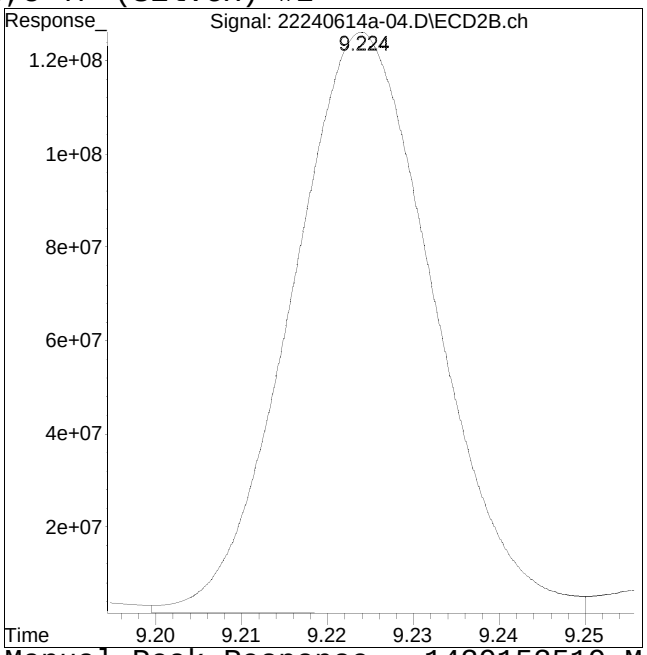
Original Peak Response = 1561446648 Manual Peak Response = 1438823617 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #22: 2,4,5-TP (Silvex) #2



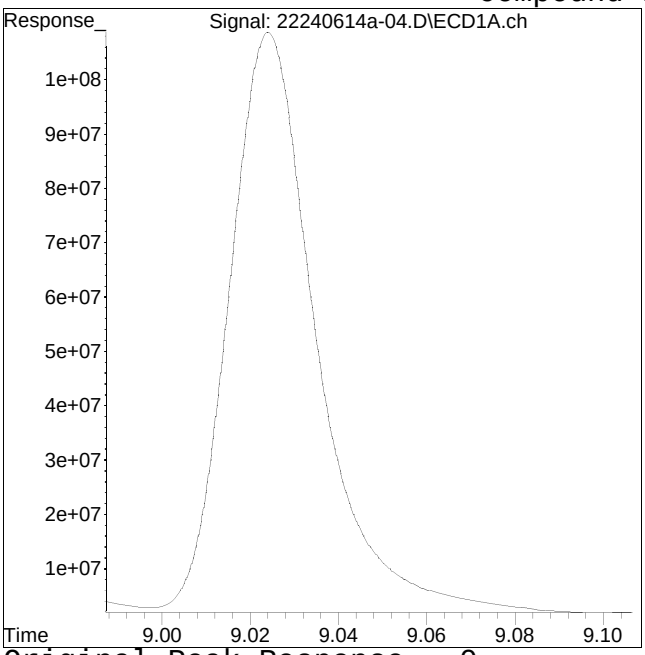


Original Peak Response = 1458220954 Manual Peak Response = 1429153519 M4
M4 = Poor automated baseline construction.

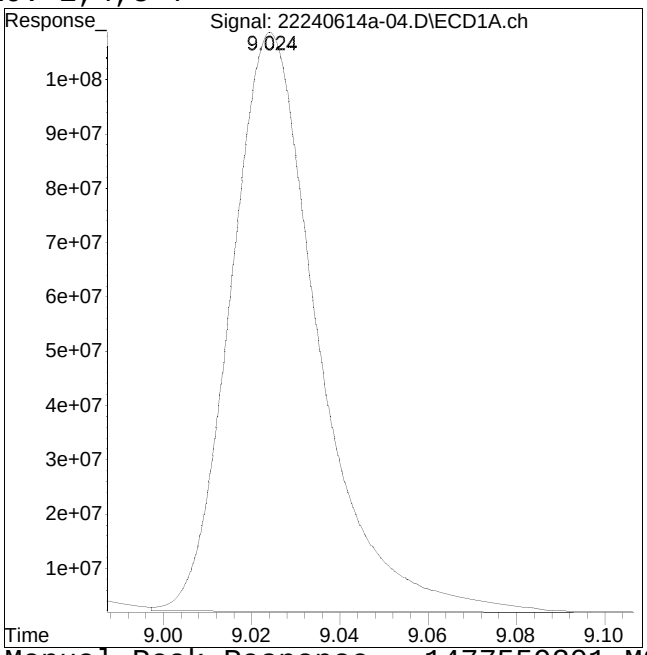
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #10: 2,4,5-T



Original Peak Response = 0

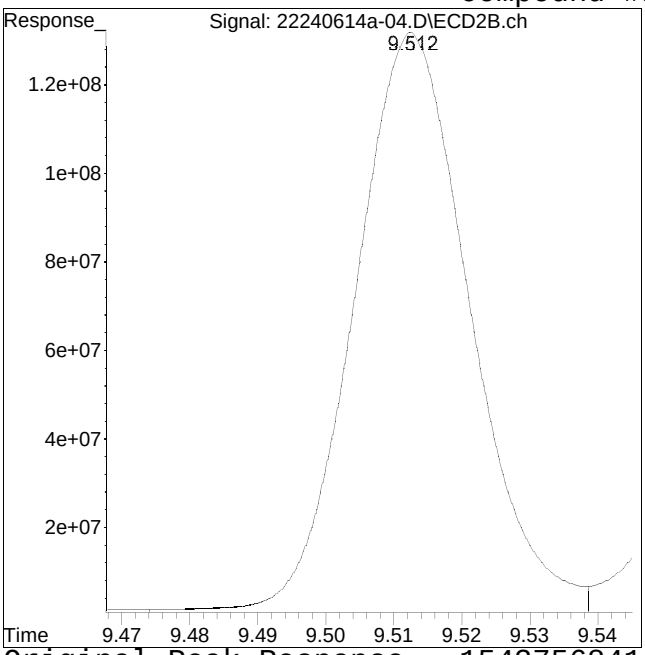


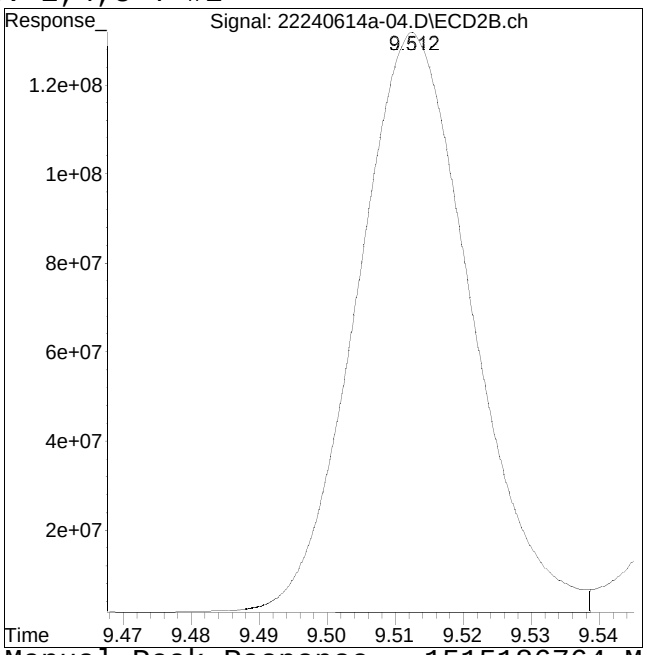
Manual Peak Response = 1477559201 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #23: 2,4,5-T #2



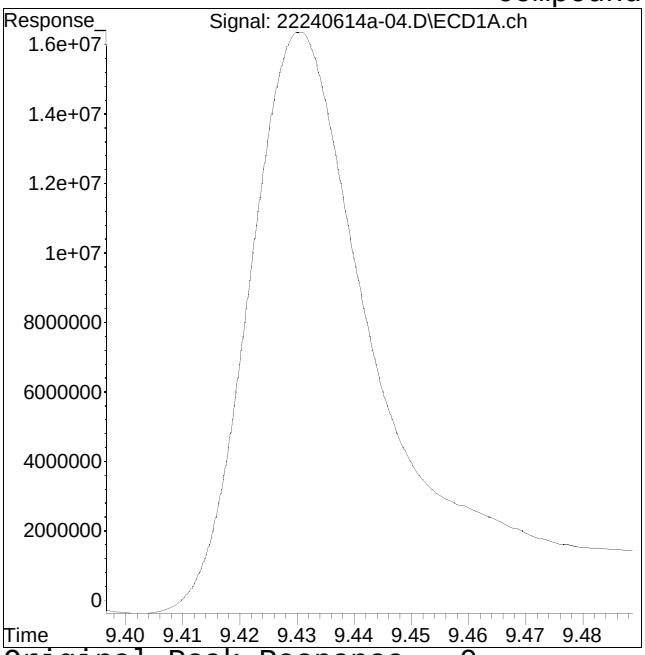


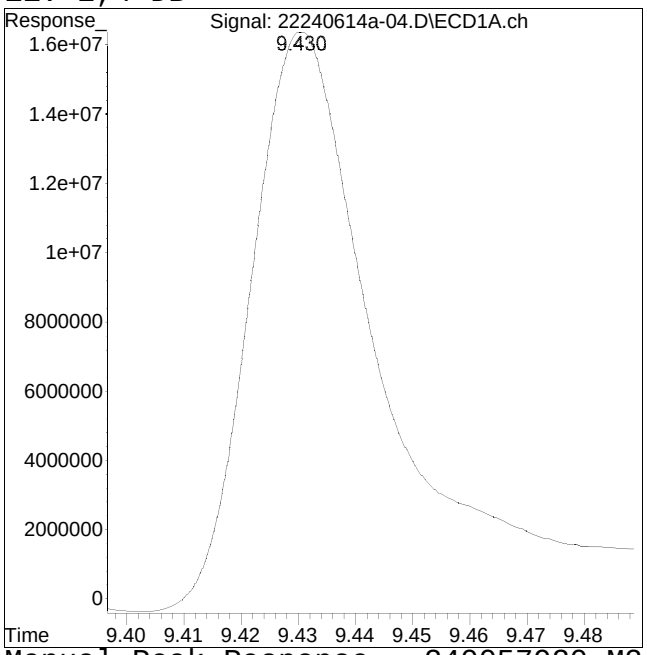
Original Peak Response = 1543756841 Manual Peak Response = 1515186764 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #11: 2,4-DB



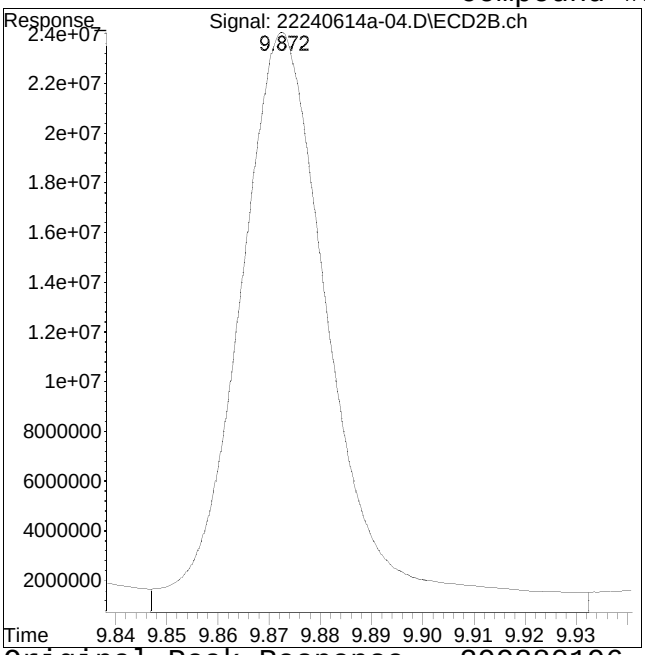


Original Peak Response = 0 Manual Peak Response = 240057920 M2
M2 = Peak not found by automatic integration algorithm.

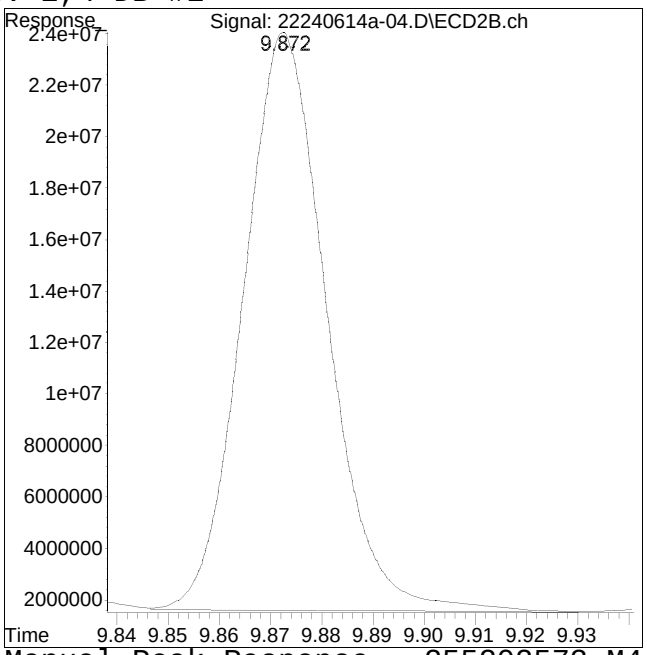
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #24: 2,4-DB #2



Original Peak Response = 299280196



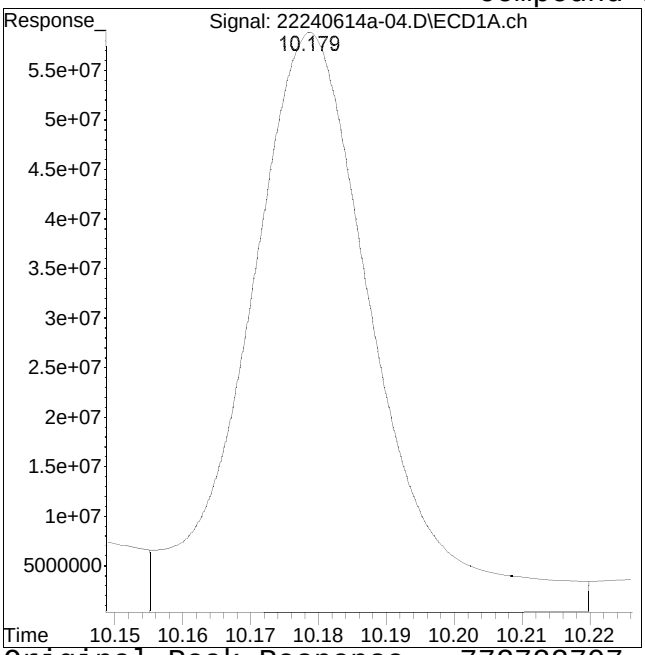
Manual Peak Response = 255202573 M4

M4 = Poor automated baseline construction.

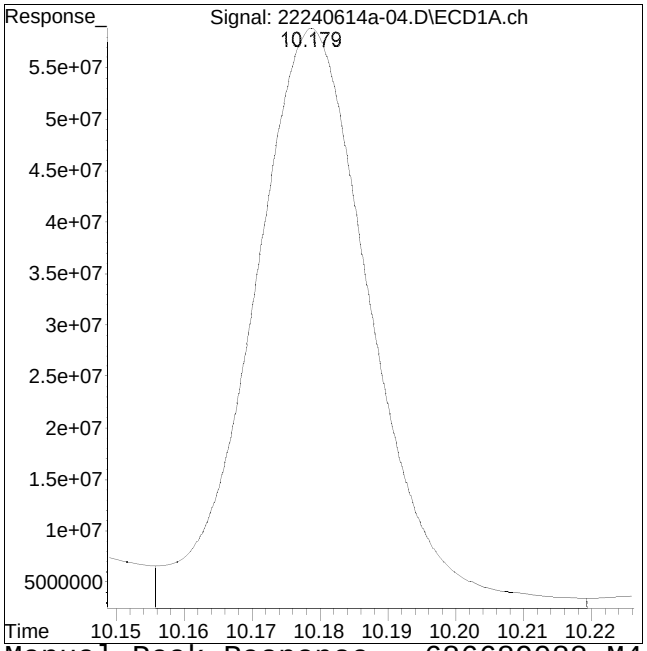
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #12: Dinoseb



Original Peak Response = 772722707



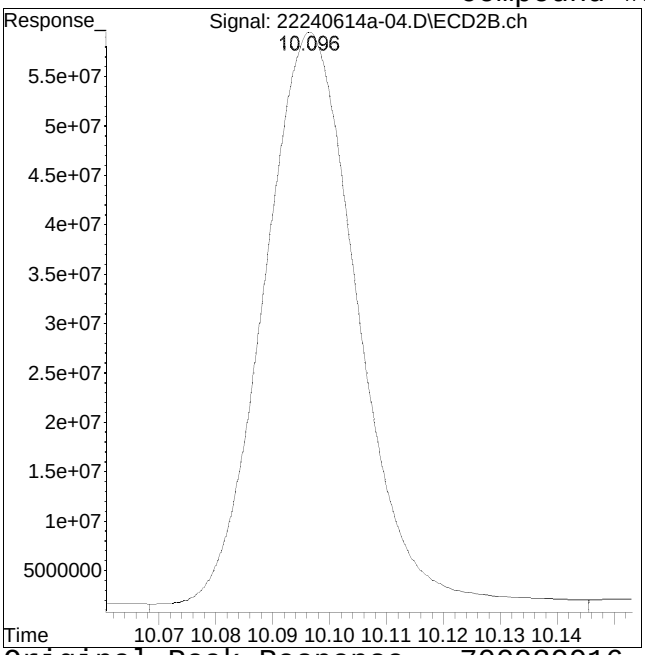
Manual Peak Response = 686689088 M4

M4 = Poor automated baseline construction.

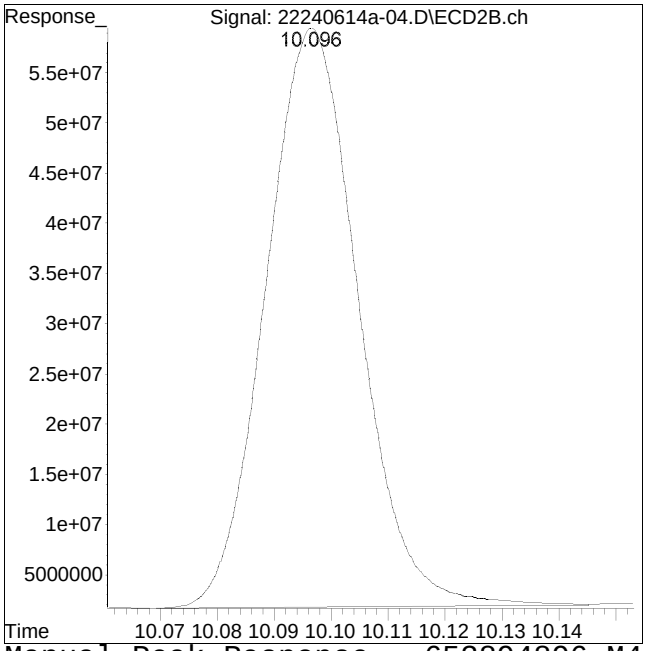
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240614QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240614a-04.D Operator : pest22:akm
Date Inj'd : 6/14/2024 7:09 Instrument : Pest22
Sample : WG1933705-3,42,, 3926 Quant Date : 6/14/2024 8:45 am

Compound #25: Dinoseb #2



Original Peak Response = 700939916



Manual Peak Response = 653894896 M4

M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: Pest
Inst: Pest_22
Date: **04/12/24**
Run: **ical**

Method: 8151
GC: HERB

Seq: wg1907956
IS: pp11408

Vial	Data File	Sample	CCAL	notes	initials
1	22240412i-01	blank,42e,,pp11408			
2	22240412i-02	il1herb,42e,,pp11464 L0.005/5			PEG/EJL 4/12
3	22240412i-03	il2herb,42e,,pp11463 L0.1/10			PEG/EJL 4/12
4	22240412i-04	il3herb,42e,,pp11462 L0.2/20			PEG/EJL 4/12
5	22240412i-05	il4herb,42e,,pp11461 L0.5/50			PEG/EJL 4/12
6	22240412i-06	il5herb,42e,,pp11460 L1/100			PEG/EJL 4/12
7	22240412i-07	il6herb,42e,,pp11459 L2/200			PEG/EJL 4/12
8	22240412i-08	cicv,42e,,pp11458 L0.2/20ICV			PEG/EJL 4/12

Dep.: PEST
Inst: Pest_22
Date: **06/14/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1934262
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
1	22240614a-01	herb11561	a/b: dino high, a: 245t, mcpa, mcpp high, b: mcpp low, 24d high, 06:04			AKM 6/14
2	22240614a-02	WG1933705-1	1,42,, 3926			AKM 6/14
3	22240614a-03	WG1933705-2	2,42,, 3926			AKM 6/14
4	22240614a-04	WG1933705-3	3,42,, 3926			AKM 6/14
5	22240614a-05	L2432293-01	42,,			AKM 6/14
6	22240614a-06	L2433077-05	42,,,R3B			AKM 6/14
7	22240614a-07	L2433077-09	42,,,R3B			AKM 6/14
8	22240614a-08	L2433077-10	42,,,R3B			AKM 6/14
9	22240614a-09	L2433077-13	42,,,R3B			AKM 6/14
10	22240614a-10	L2433077-14	42,,,R3B			AKM 6/14
11	22240614a-11	L2433077-17	42,,,R3B			AKM 6/14
12	22240614a-12	L2433077-18	42,,,R3B			AKM 6/14
13	22240614a-13	L2433077-19	42,,,R3B			AKM 6/14
14	22240614a-14	L2433077-22	42,,,R3B			AKM 6/14
15	22240614a-15	herb11561	a/b: dino high, a: mcp, mcpa, dala high, b: mcpp low. 10:33			AKM 6/14
16	22240614a-16	L2432055-04	42,, p			AKM 6/14
17	22240614a-17	WG1933715-4	42,, ms			AKM 6/14
18	22240614a-18	WG1933715-5	42,, msd			AKM 6/14
19	22240614a-19	L2432055-10	42,,			AKM 6/14
20	22240614a-20	L2432055-12	42,,			AKM 6/14
21	22240614a-21	L2432055-15	42,,			AKM 6/14
22	22240614a-22	L2432296-01	42,,			AKM 6/14
23	22240614a-23	L2432296-02	42,,			AKM 6/14
24	22240614a-24	L2432298-01	42,,			EJL 6/14
25	22240614a-25	herb11561	A/B: dala high, A: mcpp, mcpa, dino high, B: 24db low, 13:39			EJL 6/14
26	22240614a-26	L2432633-02	42,,			EJL 6/14
27	22240614a-27	L2432633-03	42,,			EJL 6/14
28	22240614a-28	L2432633-04	42,,			EJL 6/14
29	22240614a-29	L2433117-01	42,,			EJL 6/14
30	22240614a-30	WG1933932-1	42,, ct	methylated 6/14/24 04:55		EJL 6/14
31	22240614a-31	WG1933932-2	42,, ct	^		EJL 6/14
32	22240614a-32	WG1933932-3	42,, ct	^		EJL 6/14
33	22240614a-33	L2432325-03	42,, ct	^		EJL 6/14
34	22240614a-34	L2432655-04	42,, ct	^		EJL 6/14
35	22240614a-35	L2433011-04	42,, ct	^		EJL 6/14
36	22240614a-36	L2432330-01	42,,,R3E			EJL 6/14
37	22240614a-37	L2432297-02	42,,			EJL 6/14
38	22240614a-38	L2432392-30	42,,			EJL 6/14
39	22240614a-39	herb11561	A/B: dino high, A: mcpp, mcpa high, B: mcpp low, 17:59			EJL 6/14
40	22240614a-40	L2432563-01	42,,,R3E		PEG	EJL 6/17
41	22240614a-41	L2432791-34	42,,			EJL 6/17
42	22240614a-42	L2432633-01	42,,			EJL 6/17

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 11:33 am

Work Group: WG1933705 for Department: 2 Organic Preparation

Created: 13-JUN-24 Due: Operator: SHD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432293-01	24F1089-01	S	HERB-8151	WATER	DONE	U	0613	0614	S0	Amber-A1
L2432633-01	MW-11S	S	HERB-8151	WATER	DONE	U	0618	0618	S0	Amber-A1
L2432633-02	MW-11D	S	HERB-8151	WATER	DONE	U	0618	0618	S0	Amber-A1
L2432633-03	MW-13S	S	HERB-8151	WATER	DONE	U	0618	0618	S0	Amber-A1
L2432633-04	MW-13D	S	HERB-8151	WATER	DONE	U	0618	0618	S0	Amber-A1
L2433117-01	24F1476-01	S	HERB-8151	WATER	DONE	U	0618	0619	S0	Amber-A1
WG1933705-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1933705-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1933705-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				

Comments:

WG1933705-3 WG1933705-2

ORGANIC ELN REPORT

Workgroup: WG1933705

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 24030023
Surrogate Type: Herbicide **Lot #:** PP11596at,11/30/2024,1r,25,1
Spike Type: Herbicides **Lot #:** PP11568an,11/06/2024,d4,10,1
Spike Verify by: FRA
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A060424
25% NaOH	Na060824
Acidified Na2SO4	AS061224
DCM	EI560
Diethyl ether	24030023
Na2S2O3	N/A
NaCl	24C2956246

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 24030023

Additional Reagents/Stds

Acidified Na2SO4	AS061324
Diazomethane	D061324
Hexane	EI504
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2432293-01 SAMP	06/13/24 06:55	Frimpong Agyen	1000	PH>12<2	N/A	.5		06/13/24 07:20	06/13/24 08:50	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
L2432633-01 SAMP	06/13/24 13:02	George Nantwi	1000	PH>12<2	N/A	.5		06/13/24 14:45	06/13/24 16:15	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
L2432633-02 SAMP	06/13/24 13:02	George Nantwi	1000	PH>12<2	N/A	.5		06/13/24 14:45	06/13/24 16:15	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
L2432633-03 SAMP	06/13/24 13:02	George Nantwi	1000	PH>12<2	N/A	.5		06/13/24 14:45	06/13/24 16:15	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
L2432633-04 SAMP	06/13/24 13:02	George Nantwi	1000	PH>12<2	N/A	.5		06/13/24 14:45	06/13/24 16:15	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7

Reported: 18-JUN-24 11:33 AM

ORGANIC ELN REPORT

Workgroup: WG1933705

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2433117-01 SAMP	06/13/24 13:02	George Nantwi	1000	PH>12<2	N/A	.5		06/13/24 14:45	06/13/24 16:15	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
WG1933705-1 BLANK	06/13/24 06:55 **WG1933926**	Frimpong Agyen	1000	PH>12<2	N/A	.5		06/13/24 07:20	06/13/24 08:50	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
WG1933705-2 LCS	06/13/24 06:55	Frimpong Agyen	1000	PH>12<2	N/A	.5	.5	06/13/24 07:20	06/13/24 08:50	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7
WG1933705-3 LCSD	06/13/24 06:55	Frimpong Agyen	1000	PH>12<2	N/A	.5	.5	06/13/24 07:20	06/13/24 08:50	06/14/24 03:00	Frimpong Agyen	0.5	06/14/24 04:50	10	S-EVAP G,N#7

Reported: 18-JUN-24 11:33 AM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-11S (L2432633-01)	92	94	90	127			0
MW-11D (L2432633-02)	87	85	90	118			0
MW-13S (L2432633-03)	91	93	91	131			0
MW-13D (L2432633-04)	97	95	92	127			0
WG1934357-1BLANK	74	77	90	125			0
WG1934357-2LCS	48	48	60	79			0
WG1934357-3LCSD	67	73	80	115			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934357-2 **Analysis Date** : 06/14/24 16:14	**File ID**	: P2240614a-22
LCSD Sample ID	: WG1934357-3 **Analysis Date** : 06/14/24 16:23	**File ID**	: P2240614a-23

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	0.900	50	1.78	1.24	69	32	40-140	50
Aroclor 1260	1.78	0.850	48	1.78	1.21	68	35	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934357-1	**Lab File ID**	: P2240614a-21
Matrix	: WATER	**Extraction Date**	: 06/14/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 06/14/24 16:06	**Analysis Date (2)**	: 06/14/24 16:06
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1934357-2LCS	WG1934357-2	06/14/24 16:14	06/14/24 16:14
WG1934357-3LCSD	WG1934357-3	06/14/24 16:23	06/14/24 16:23
MW-11S	L2432633-01	06/15/24 10:42	06/15/24 10:42
MW-11D	L2432633-02	06/15/24 10:50	06/15/24 10:50
MW-13S	L2432633-03	06/15/24 10:59	06/15/24 10:59
MW-13D	L2432633-04	06/15/24 11:07	06/15/24 11:07

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 05/06/24 05/07/24

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1826224-1	05/06/24 20:49
1232/1262 L4 (250ug/L)	R1826224-2	05/06/24 20:59
1248 L4 (250ug/L)	R1826224-3	05/06/24 21:08
1221/1254 L4 (250ug/L)	R1826224-4	05/06/24 21:18
1016/1260 L2 (50ug/L)	R1826224-5	05/06/24 21:36
1016/1260 L3 (100ug/L)	R1826224-6	05/06/24 21:46
1016/1260 L4 (250ug/L)	R1826224-7	05/06/24 21:55
1016/1260 L5 (500ug/L)	R1826224-8	05/06/24 22:04
1016/1260 L6 (1000ug/L)	R1826224-9	05/06/24 22:14
R1826224-10 ICV	R1826224-10	05/06/24 22:23
R1826224-11 ICV	R1826224-11	05/06/24 22:33
R1826224-12 ICV	R1826224-12	05/06/24 22:42
R1826224-13 ICV	R1826224-13	05/06/24 22:52
1016/1260 L1 (10ug/L)	R1826224-14	05/07/24 15:31
R1826224-15 ICV	R1826224-15	05/07/24 15:41
WG1934325-1 CCAL	WG1934325-1	06/14/24 07:26
WG1934357-1 BLANK	WG1934357-1	06/14/24 16:06
WG1934357-2 LCS	WG1934357-2	06/14/24 16:14
WG1934357-3 LCSD	WG1934357-3	06/14/24 16:23
WG1934764-1 CCAL	WG1934764-1	06/15/24 08:00
MW-11S	L2432633-01	06/15/24 10:42
MW-11D	L2432633-02	06/15/24 10:50
MW-13S	L2432633-03	06/15/24 10:59
MW-13D	L2432633-04	06/15/24 11:07

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 10:42
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240615a-09	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 10:50
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240615a-10	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 10:59
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240615a-11	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 11:07
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240615a-12	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934357-1	**Date Collected**	: NA
Client ID	: WG1934357-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/14/24 16:06
Sample Matrix	: WATER	**Date Extracted**	: 06/14/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240614a-21	**Analyst**	: AD
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:42
Operator : pest2:meo
Sample : L2432633-01,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:02 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.156	1.225	451.8E6	279.7E6	25.000	25.000
	Standard Area 1 : #1 = 398922567				Recovery =	113.25%	
	Standard Area 1 : #2 = 255504119				Recovery =	109.47%	
14) i	2154_1br2nb	1.156	1.225	451.8E6	279.7E6	25.000	25.000
23) i	4268_1br2nb	1.156	1.225	451.8E6	279.7E6	25.000	25.000
34) i	1248_1br2nb	1.156	1.225	451.8E6	279.7E6	25.000	25.000
40) i	3262_1br2nb	1.156	1.225	451.8E6	279.7E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.441	1.598	435.2E6	258.5E6	18.374	18.758
	Spiked Amount 20.000	Range 30 - 150			Recovery =	91.87%	93.79%
3) s	Decachlorobi	4.014	4.522	274.0E6	164.5E6	17.904M4	25.355M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.52%	126.77%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:42
Operator : pest2:meo
Sample : L2432633-01,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:02 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:42
Operator : pest2:meo
Sample : L2432633-01,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:02 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

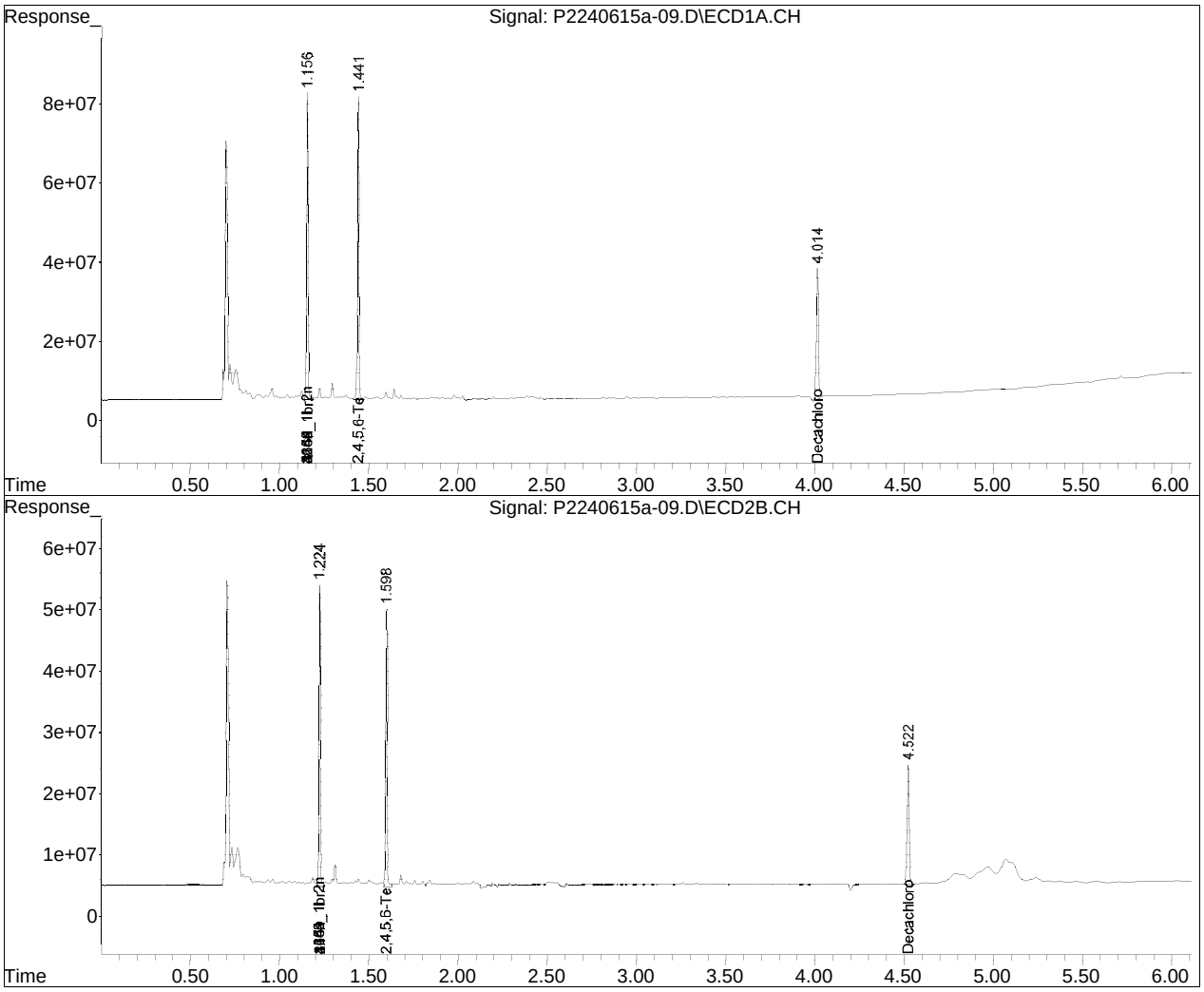
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240615a-04.D•

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:42
Operator : pest2:meo
Sample : L2432633-01,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:02 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

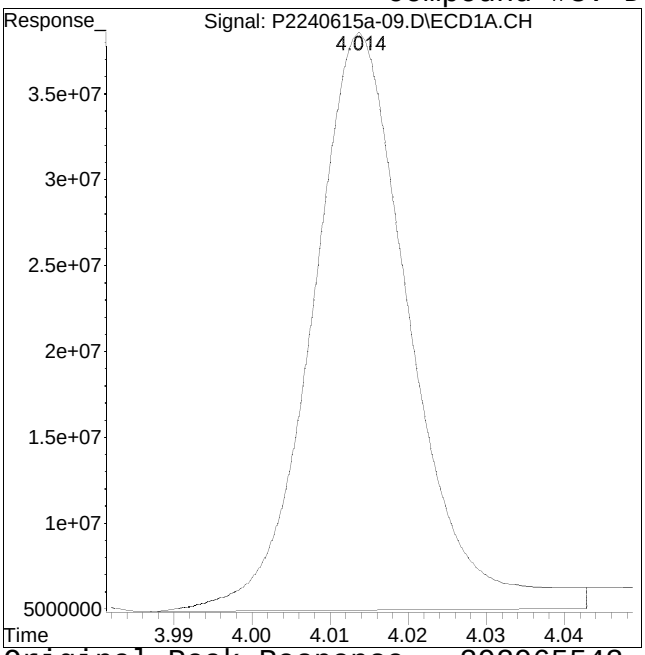
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

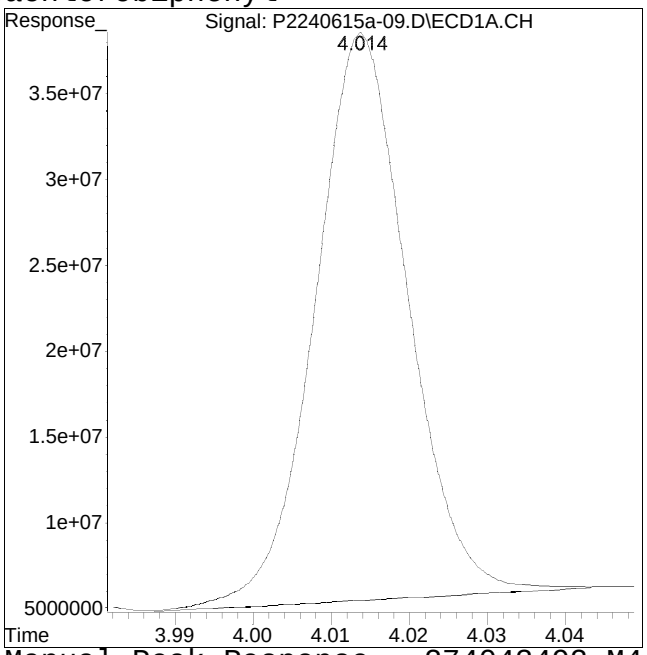


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-09.D Operator : pest2:meo
Date Inj'd : 6/15/2024 10:42 Instrument : Pest 2
Sample : L2432633-01,42,, Quant Date : 6/15/2024 1:27 pm

Compound #3: Decachlorobiphenyl



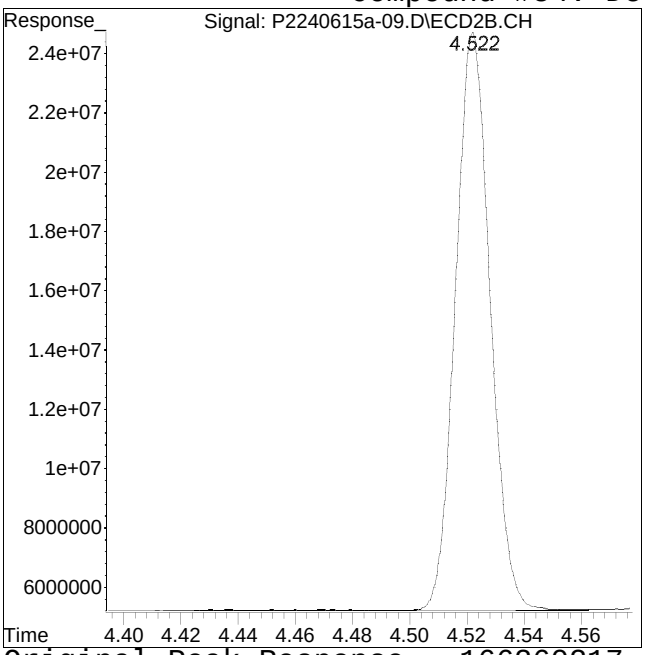


Original Peak Response = 292965543 Manual Peak Response = 274043492 M4
M4 = Poor automated baseline construction.

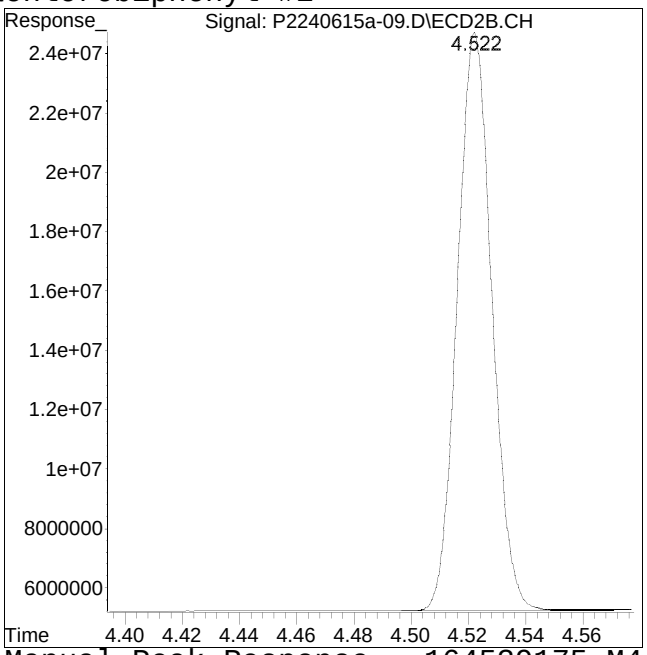
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-09.D Operator : pest2:meo
Date Inj'd : 6/15/2024 10:42 Instrument : Pest 2
Sample : L2432633-01,42,, Quant Date : 6/15/2024 1:27 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 166260217



Manual Peak Response = 164539175 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:50
Operator : pest2:meo
Sample : L2432633-02,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:06 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.157	1.226	417.5E6	271.3E6	25.000	25.000
	Standard Area 1 : #1 = 398922567				Recovery =	104.66%	
	Standard Area 1 : #2 = 255504119				Recovery =	106.18%	
14) i	2154_1br2nb	1.157	1.226	417.5E6	271.3E6	25.000	25.000
23) i	4268_1br2nb	1.157	1.226	417.5E6	271.3E6	25.000	25.000
34) i	1248_1br2nb	1.157	1.226	417.5E6	271.3E6	25.000	25.000
40) i	3262_1br2nb	1.157	1.226	417.5E6	271.3E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.441	1.599	380.3E6	227.3E6	17.371	17.005
	Spiked Amount 20.000	Range 30 - 150			Recovery =	86.85%	85.02%
3) s	Decachlorobi	4.011	4.522	255.8E6	148.2E6	18.082M4	23.537
	Spiked Amount 20.000	Range 30 - 150			Recovery =	90.41%	117.69%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:50
Operator : pest2:meo
Sample : L2432633-02,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:06 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:50
Operator : pest2:meo
Sample : L2432633-02,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:06 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

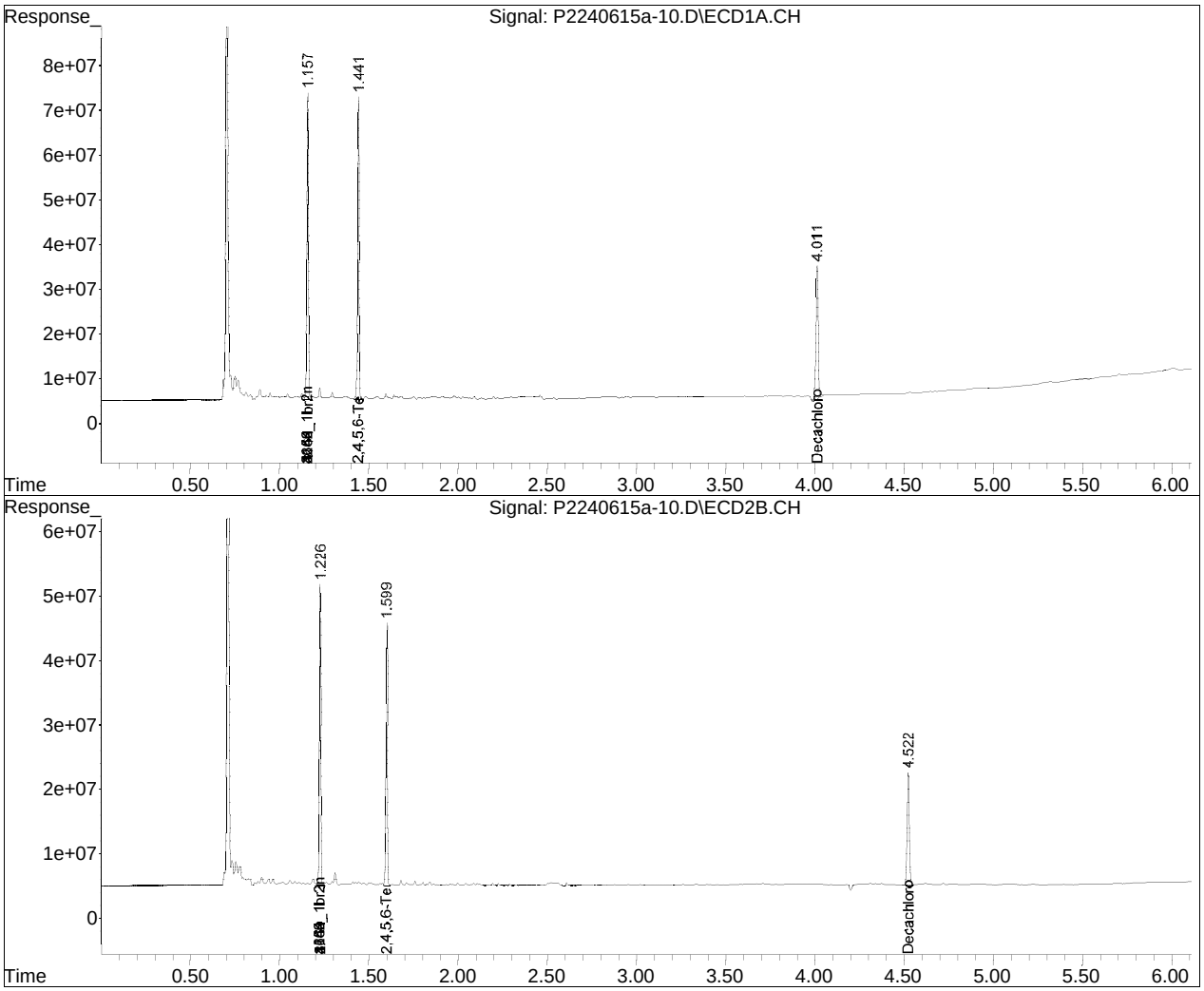
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240615a-04.D•

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:50
Operator : pest2:meo
Sample : L2432633-02,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:06 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

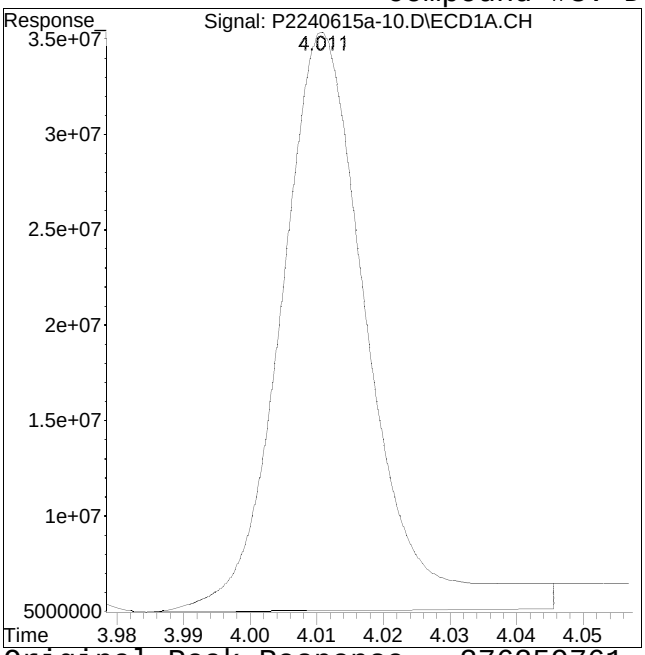
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



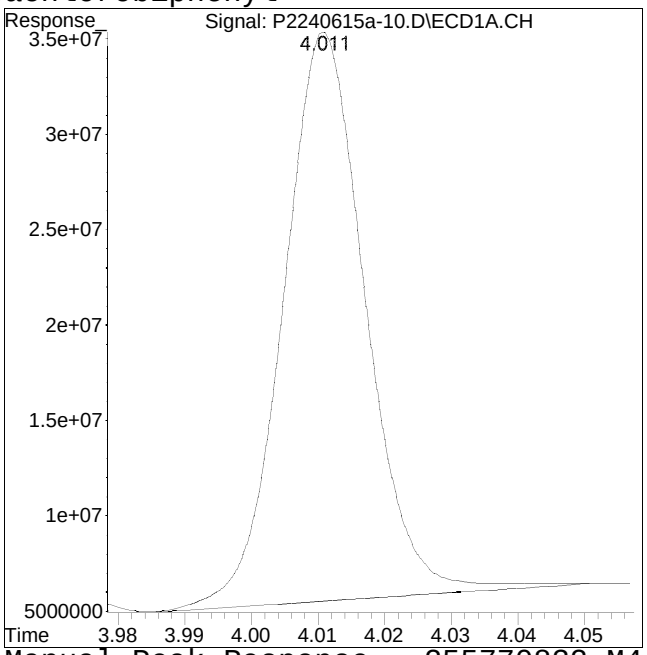
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-10.D Operator : pest2:meo
Date Inj'd : 6/15/2024 10:50 Instrument : Pest 2
Sample : L2432633-02,42,, Quant Date : 6/15/2024 1:27 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 276259761



Manual Peak Response = 255770832 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:59
Operator : pest2:meo
Sample : L2432633-03,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:09 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.157	1.227	437.5E6	271.8E6	25.000	25.000
	Standard Area 1 : #1 = 398922567				Recovery =	109.66%	
	Standard Area 1 : #2 = 255504119				Recovery =	106.36%	
14) i	2154_1br2nb	1.157	1.227	437.5E6	271.8E6	25.000	25.000
23) i	4268_1br2nb	1.157	1.227	437.5E6	271.8E6	25.000	25.000
34) i	1248_1br2nb	1.157	1.227	437.5E6	271.8E6	25.000	25.000
40) i	3262_1br2nb	1.157	1.227	437.5E6	271.8E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.442	1.600	419.6E6	248.7E6	18.295	18.575
	Spiked Amount 20.000	Range 30 - 150			Recovery =	91.48%	92.88%
3) s	Decachlorobi	4.011	4.522	268.7E6	165.1E6	18.132M4	26.186
	Spiked Amount 20.000	Range 30 - 150			Recovery =	90.66%	130.93%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:59
Operator : pest2:meo
Sample : L2432633-03,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:09 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:59
Operator : pest2:meo
Sample : L2432633-03,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:09 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

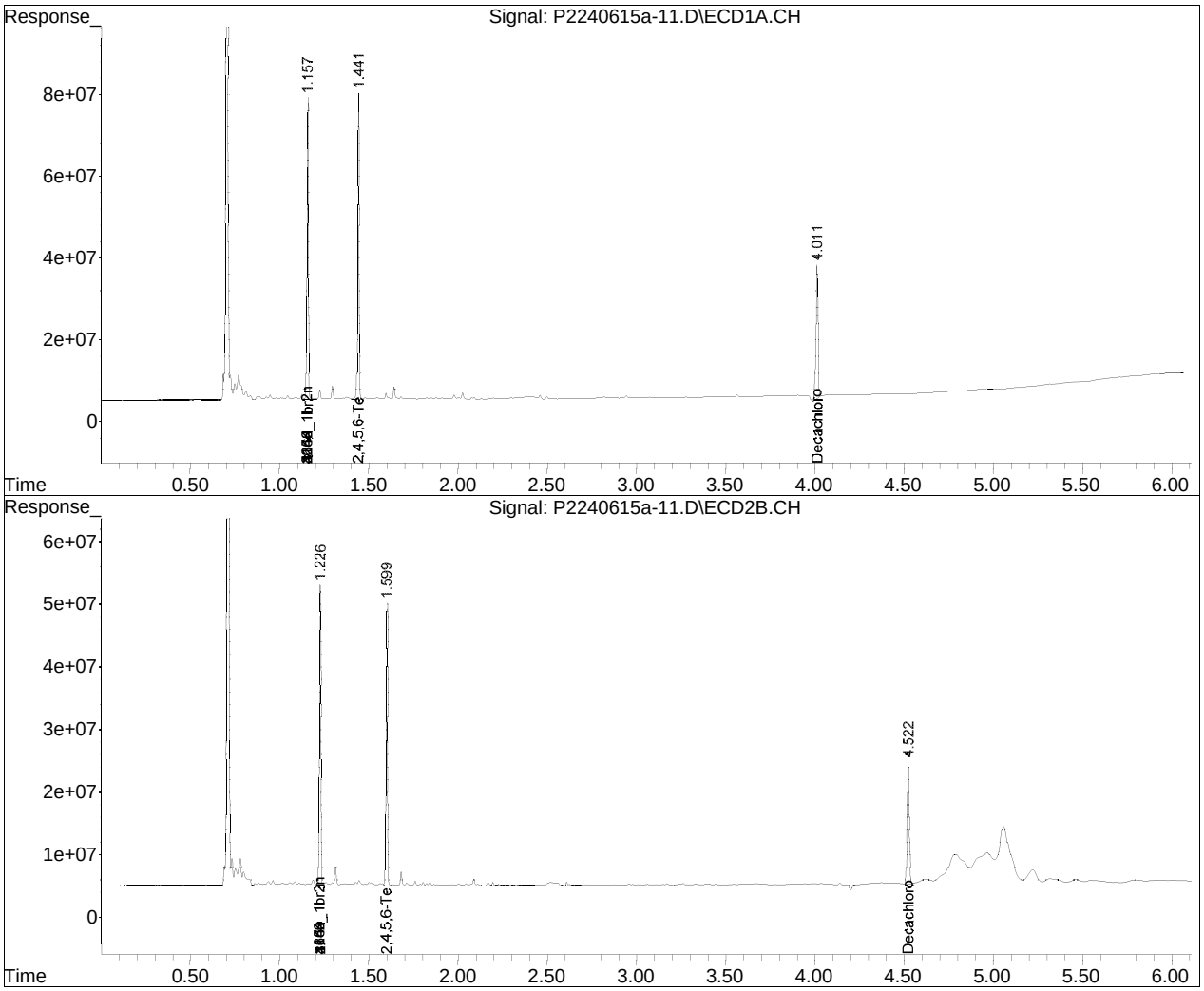
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240615a-04.D•

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 10:59
Operator : pest2:meo
Sample : L2432633-03,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:09 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

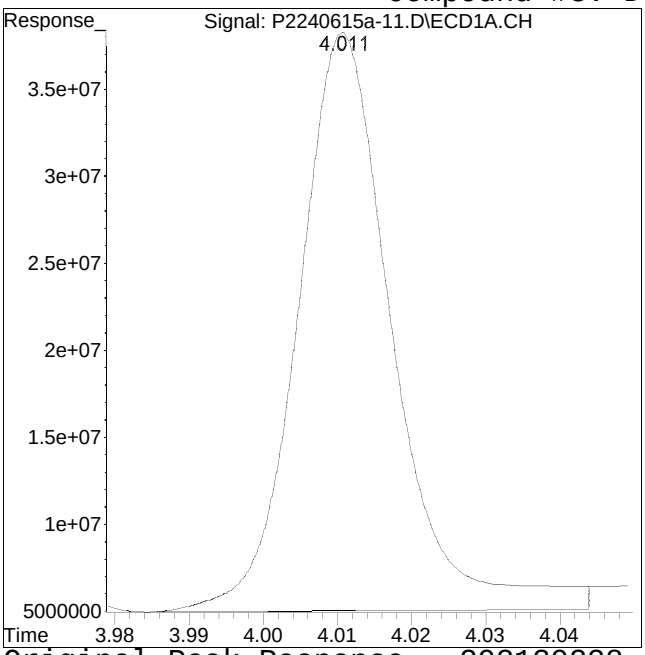
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

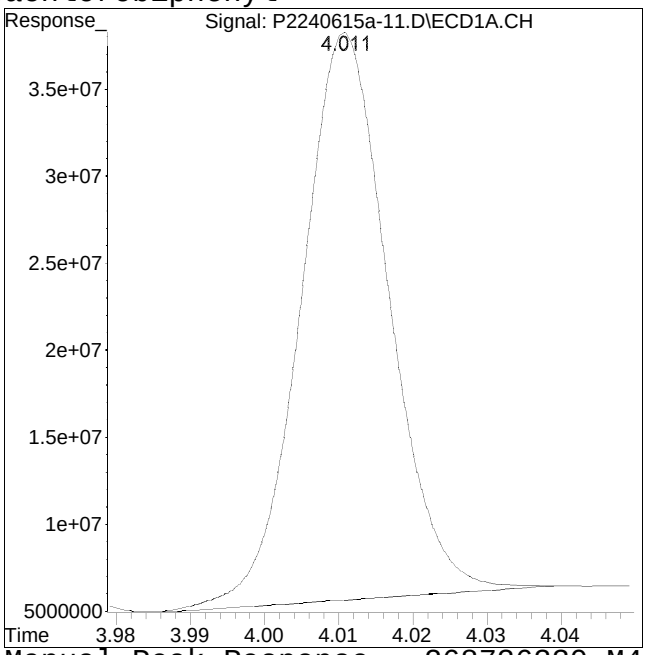


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-11.D Operator : pest2:meo
Date Inj'd : 6/15/2024 10:59 Instrument : Pest 2
Sample : L2432633-03,42,, Quant Date : 6/15/2024 1:27 pm

Compound #3: Decachlorobiphenyl





Original Peak Response = 293139228 Manual Peak Response = 268736330 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 11:07
Operator : pest2:meo
Sample : L2432633-04,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:13 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.158	1.228	410.8E6	262.2E6	25.000	25.000
	Standard Area 1 : #1 = 398922567				Recovery =	102.98%	
	Standard Area 1 : #2 = 255504119				Recovery =	102.62%	
14) i	2154_1br2nb	1.158	1.228	410.8E6	262.2E6	25.000	25.000
23) i	4268_1br2nb	1.158	1.228	410.8E6	262.2E6	25.000	25.000
34) i	1248_1br2nb	1.158	1.228	410.8E6	262.2E6	25.000	25.000
40) i	3262_1br2nb	1.158	1.228	410.8E6	262.2E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.442	1.601	416.1E6	246.7E6	19.316	19.096
	Spiked Amount 20.000	Range 30 - 150			Recovery =	96.58%	95.48%
3) s	Decachlorobi	4.012	4.523	256.2E6	154.0E6	18.408M4	25.317M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.04%	126.58%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 11:07
Operator : pest2:meo
Sample : L2432633-04,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:13 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 11:07
Operator : pest2:meo
Sample : L2432633-04,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:13 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240615a\P2240615a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

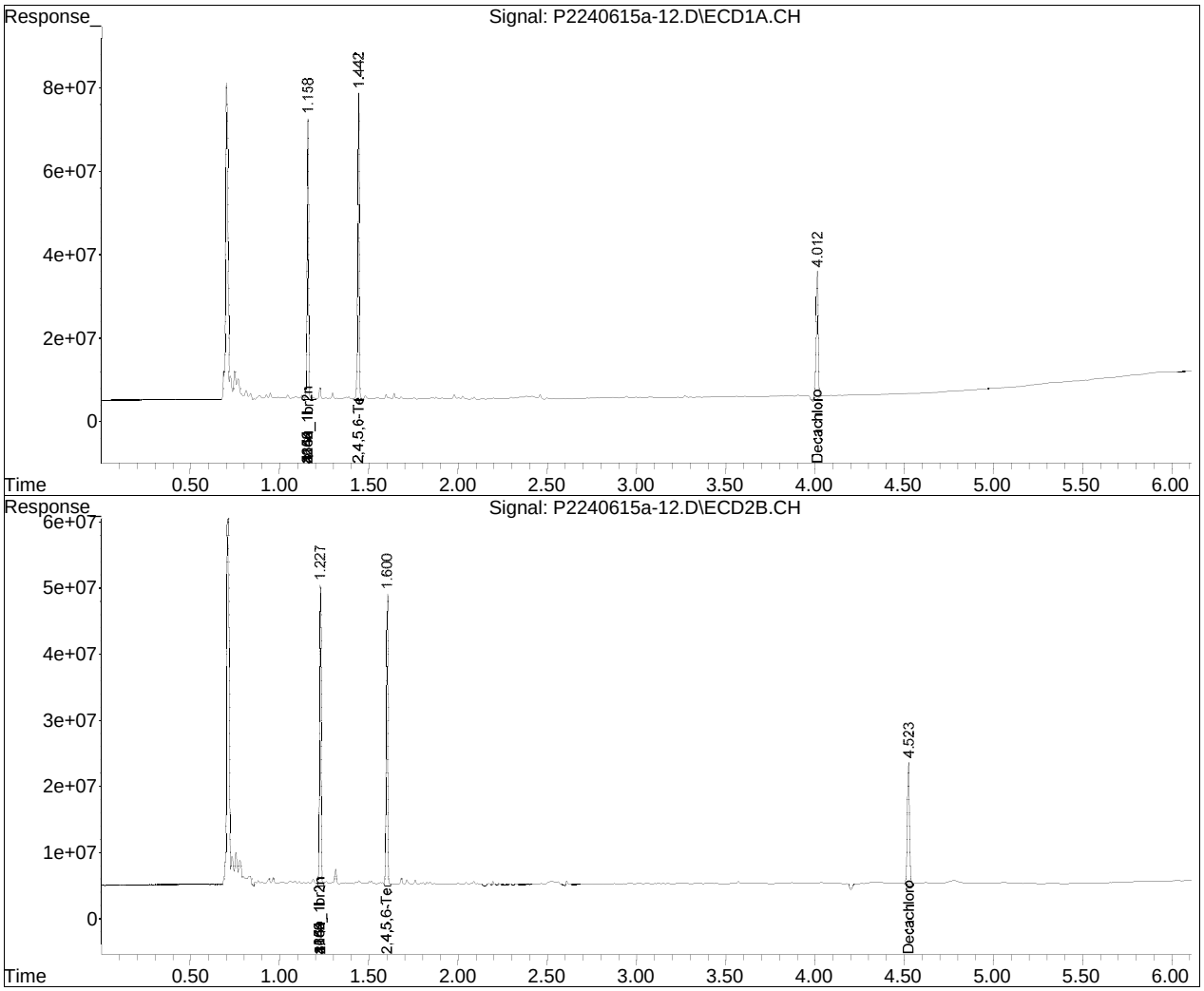
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240615a-04.D•

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 11:07
Operator : pest2:meo
Sample : L2432633-04,42,,
Misc : WG1934764,WG1934357,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 13:27:13 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

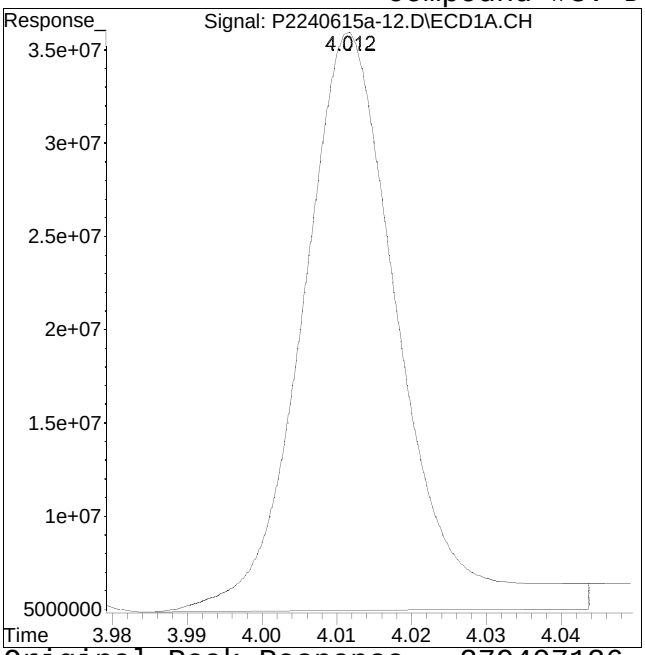
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

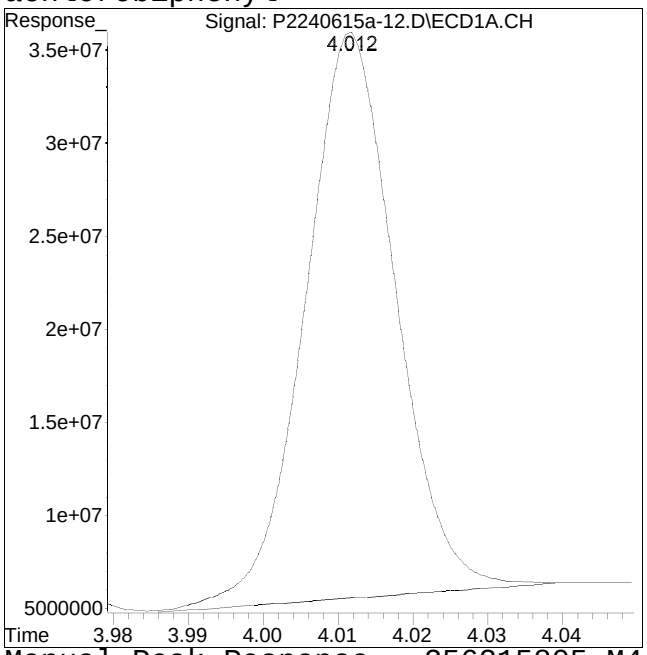


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-12.D Operator : pest2:meo
Date Inj'd : 6/15/2024 11:07 Instrument : Pest 2
Sample : L2432633-04,42,, Quant Date : 6/15/2024 1:27 pm

Compound #3: Decachlorobiphenyl



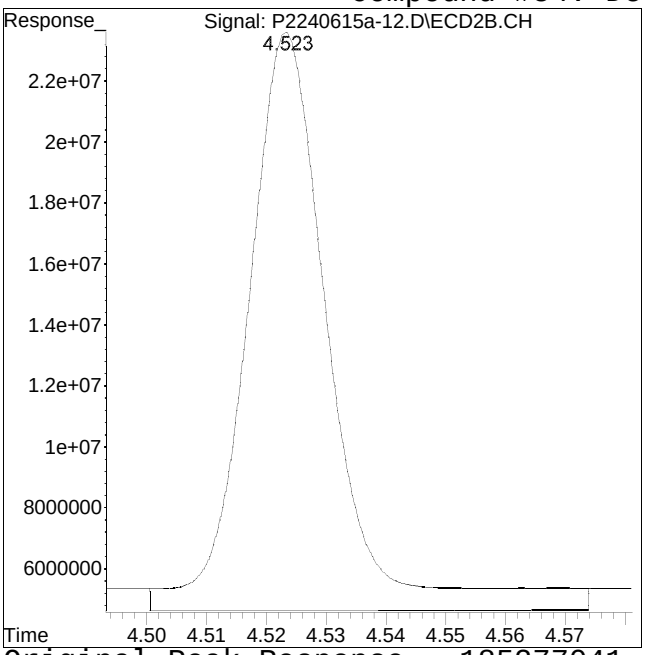


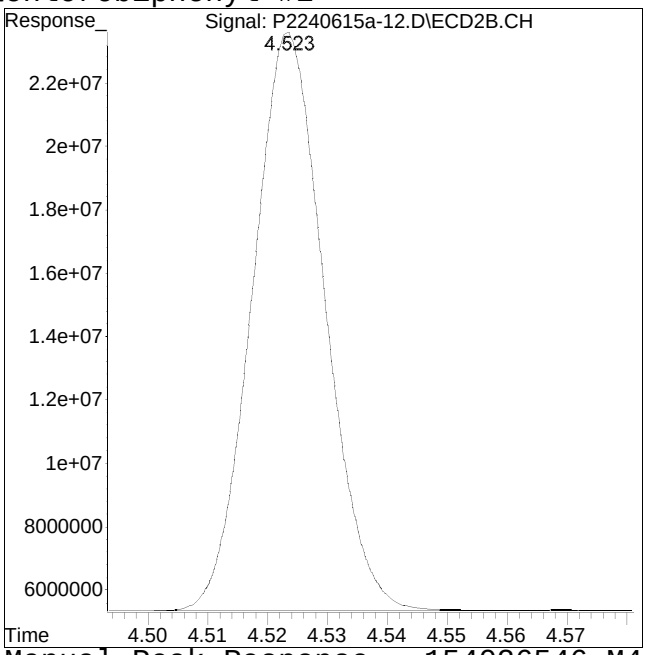
Original Peak Response = 279407126 Manual Peak Response = 256215805 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-12.D Operator : pest2:meo
Date Inj'd : 6/15/2024 11:07 Instrument : Pest 2
Sample : L2432633-04,42,, Quant Date : 6/15/2024 1:27 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 185277041 Manual Peak Response = 154026546 M4
M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3) s	Decachlorobip	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4) l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5) l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6) l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7) l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8) l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9) l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10) l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11) l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12) l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13) l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14) i	2154_1br2nb	----------ISTD----------							
15) l3	1221-2				0.015			0.015	0.00
16) l3	1221-3				0.009			0.009	0.00
17) l3	1221-4				0.035			0.035	0.00
18) l4	1254-1				0.050			0.050	0.00
19) l4	1254-2				0.090			0.090	0.00
20) l4	1254-3				0.095			0.095	0.00
21) l4	1254-4				0.067			0.067	0.00
22) l4	1254-5				0.091			0.091	0.00
23) i	4268_1br2nb	----------ISTD----------							
24) l6	1242-1				0.019			0.019	0.00
25) l6	1242-2				0.040			0.040	0.00
26) l6	1242-3				0.087			0.087	0.00
27) l6	1242-4				0.035			0.035	0.00
28) l6	1242-5				0.027			0.027	0.00
29) l9	1268-1				0.181			0.181	0.00
30) l9	1268-2				0.167			0.167	0.00
31) l9	1268-3				0.133			0.133	0.00
32) l9	1268-4				0.058			0.058	0.00
33) l9	1268-5				0.392			0.392	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.057			0.057	0.00
36) l7	1248-2				0.074			0.074	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

Compound	1	2	3	4	5	6	Avg	%RSD
37) l7 1248-3				0.065			0.065	0.00
38) l7 1248-4				0.058			0.058	0.00
39) l7 1248-5				0.050			0.050	0.00
40) i 3262_1br2nb				----------ISTD----------				
41) l5 1232-1				0.026			0.026	0.00
42) l5 1232-2				0.024			0.024	0.00
43) l5 1232-3				0.050			0.050	0.00
44) l5 1232-4				0.020			0.020	0.00
45) l5 1232-5				0.015			0.015	0.00
46) l8 1262-1				0.070			0.070	0.00
47) l8 1262-2				0.091			0.091	0.00
48) l8 1262-3				0.079			0.079	0.00
49) l8 1262-4				0.160			0.160	0.00
50) l8 1262-5				0.050			0.050	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40
3)	s	Decachlorobip	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.043			0.043	0.00
38) l7	1248-4				0.048			0.048	0.00
39) l7	1248-5				0.054			0.054	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.025			0.025	0.00
42) l5	1232-2				0.025			0.025	0.00
43) l5	1232-3				0.045			0.045	0.00
44) l5	1232-4				0.018			0.018	0.00
45) l5	1232-5				0.013			0.013	0.00
46) l8	1262-1				0.049			0.049	0.00
47) l8	1262-2				0.065			0.065	0.00
48) l8	1262-3				0.059			0.059	0.00
49) l8	1262-4				0.110			0.110	0.00
50) l8	1262-5				0.039			0.039	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip...	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-2				0.167			0.167	0.00
31) l9	1268-3				0.133			0.133	0.00
32) l9	1268-4				0.058			0.058	0.00
33) l9	1268-5				0.392			0.392	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.057			0.057	0.00
36) l7	1248-2				0.074			0.074	0.00
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb	----------ISTD----------							
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00
37)	l7	1248-3				0.043			0.043	0.00
38)	l7	1248-4				0.048			0.048	0.00
39)	l7	1248-5				0.054			0.054	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.025			0.025	0.00
42)	l5	1232-2				0.025			0.025	0.00
43)	l5	1232-3				0.045			0.045	0.00
44)	l5	1232-4				0.018			0.018	0.00
45)	l5	1232-5				0.013			0.013	0.00
46)	l8	1262-1				0.049			0.049	0.00
47)	l8	1262-2				0.065			0.065	0.00
48)	l8	1262-3				0.059			0.059	0.00
49)	l8	1262-4				0.110			0.110	0.00
50)	l8	1262-5				0.039			0.039	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.158	1.226	376.1E6	277.5E6	25.000M4	25.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.584	1.803	70147651	48400578	248.875	249.806
25) l6	1242-2	1.726	1.975	151.2E6	105.3E6	248.875	249.806
26) l6	1242-3	1.915	2.176	325.9E6	201.7E6	248.875	249.806
27) l6	1242-4	1.970	2.236	130.4E6	81145843	248.875	249.806
28) l6	1242-5	2.324	2.622	101.4E6	60532235	248.875	249.806
Sum	1242-1			779.0E6	497.1E6	1244.373	1249.031
Average	1242-1					248.875	249.806
29) l9	1268-1	3.452	3.878	679.3E6	329.4E6	248.875	249.806
30) l9	1268-2	3.473	3.904	626.5E6	304.6E6	248.875	249.806
31) l9	1268-3	3.575	4.046	499.6E6	249.5E6	248.875	249.806
32) l9	1268-4	3.763	4.198	219.2E6	108.5E6	248.875	249.806
33) l9	1268-5	3.917	4.384	1476.1E6	679.6E6	248.875	249.806
Sum	1268-1			3500.7E6	1671.5E6	N.D.	N.D. D
Average	1268-1					248.875	249.806
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

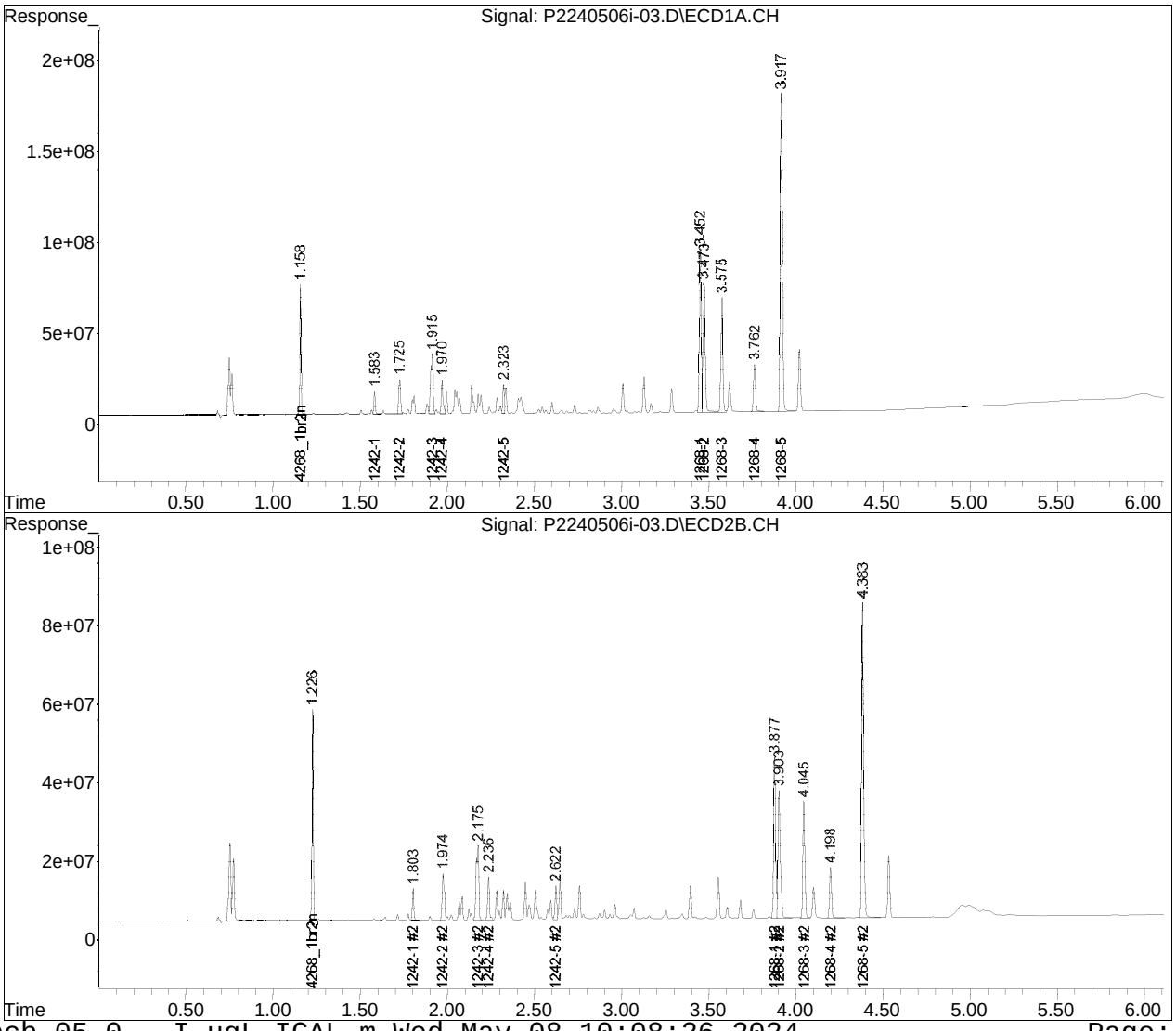
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

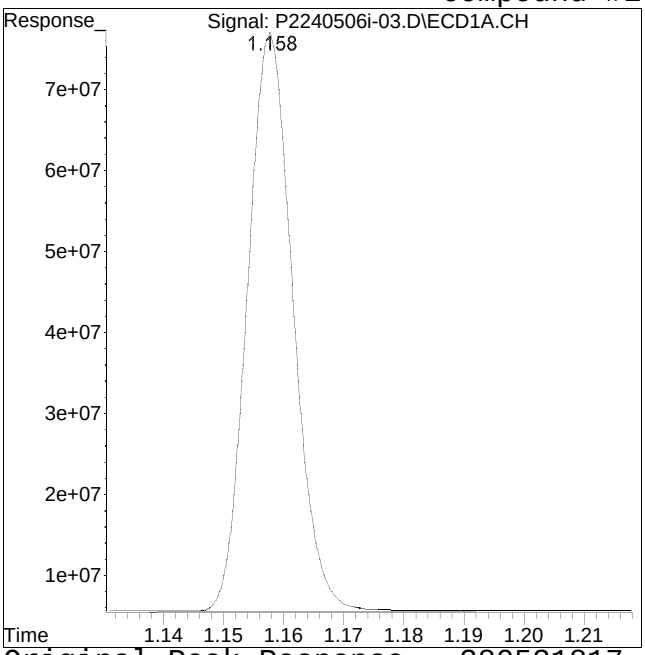
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

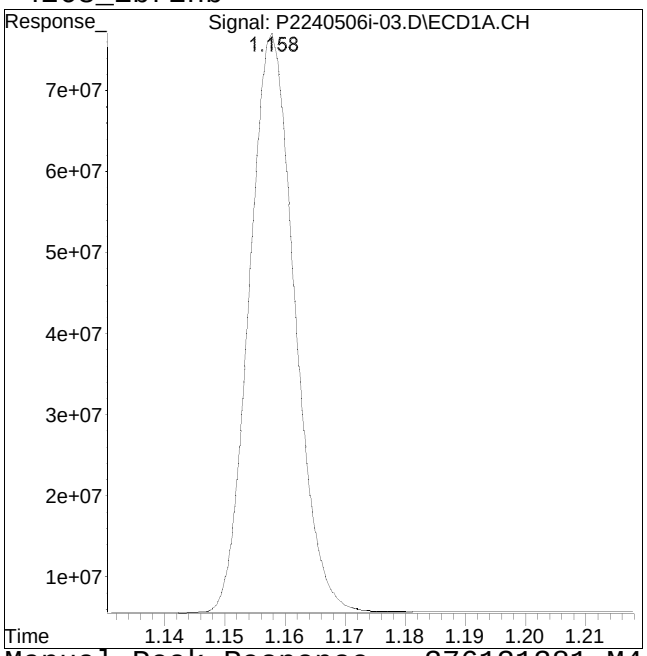


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #23: 4268_1br2nb



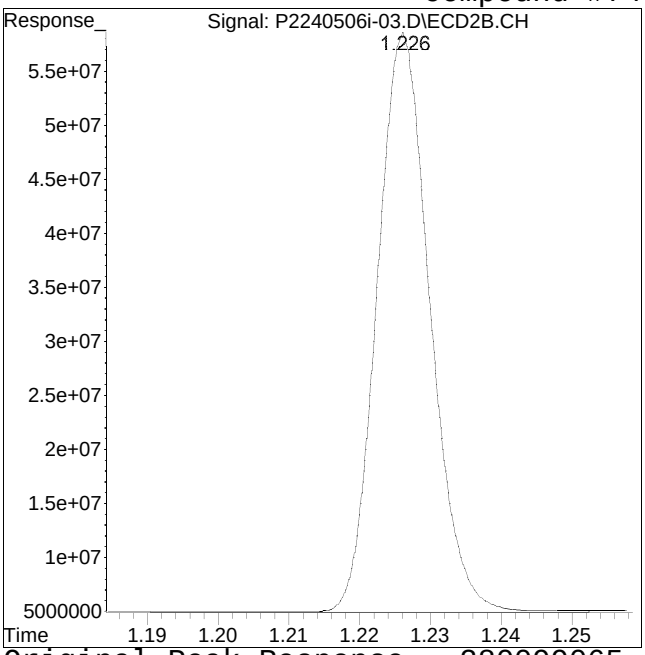


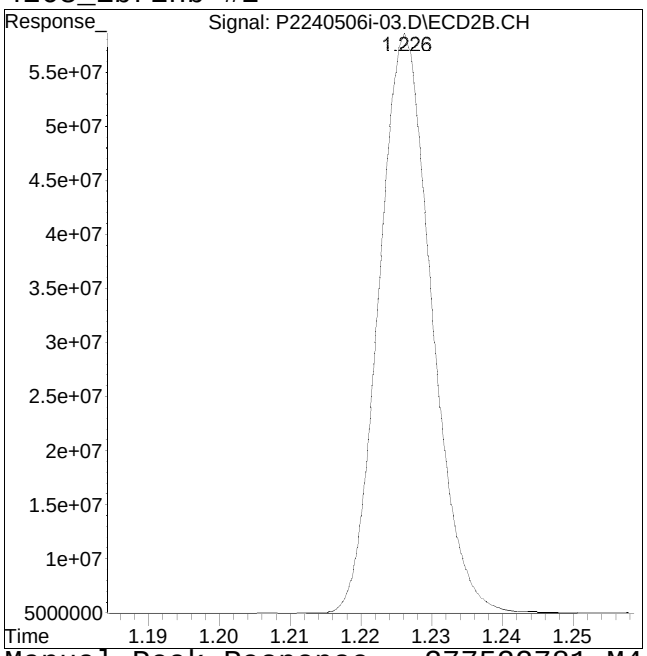
Original Peak Response = 380531817 Manual Peak Response = 376131381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #74: 4268_1br2nb #2





Original Peak Response = 280099065 Manual Peak Response = 277522781 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.159	1.227	378.8E6	271.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.584	1.804	98916572	67532754	250.000	250.000
42) l5	1232-2	1.726	1.975	90910466	67081964	250.000	250.000
43) l5	1232-3	1.915	2.177	190.1E6	121.6E6	250.000	250.000
44) l5	1232-4	1.971	2.237	77287496	49144931	250.000	250.000
45) l5	1232-5	2.324	2.624	56698612	35277580	250.000	250.000
Sum	1232-1			514.0E6	340.6E6	1250.000	1250.000
Average	1232-1					250.000	250.000
46) l8	1262-1	2.816	3.160	266.8E6	132.0E6	250.000	250.000
47) l8	1262-2	3.008	3.394	343.3E6	176.7E6	250.000	250.000
48) l8	1262-3	3.131	3.553	300.5E6	160.2E6	250.000	250.000
49) l8	1262-4	3.287	3.682	606.5E6	298.5E6	249.567M3	250.000
50) l8	1262-5	3.762	4.200	188.6E6	105.4E6	250.000	250.000
Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

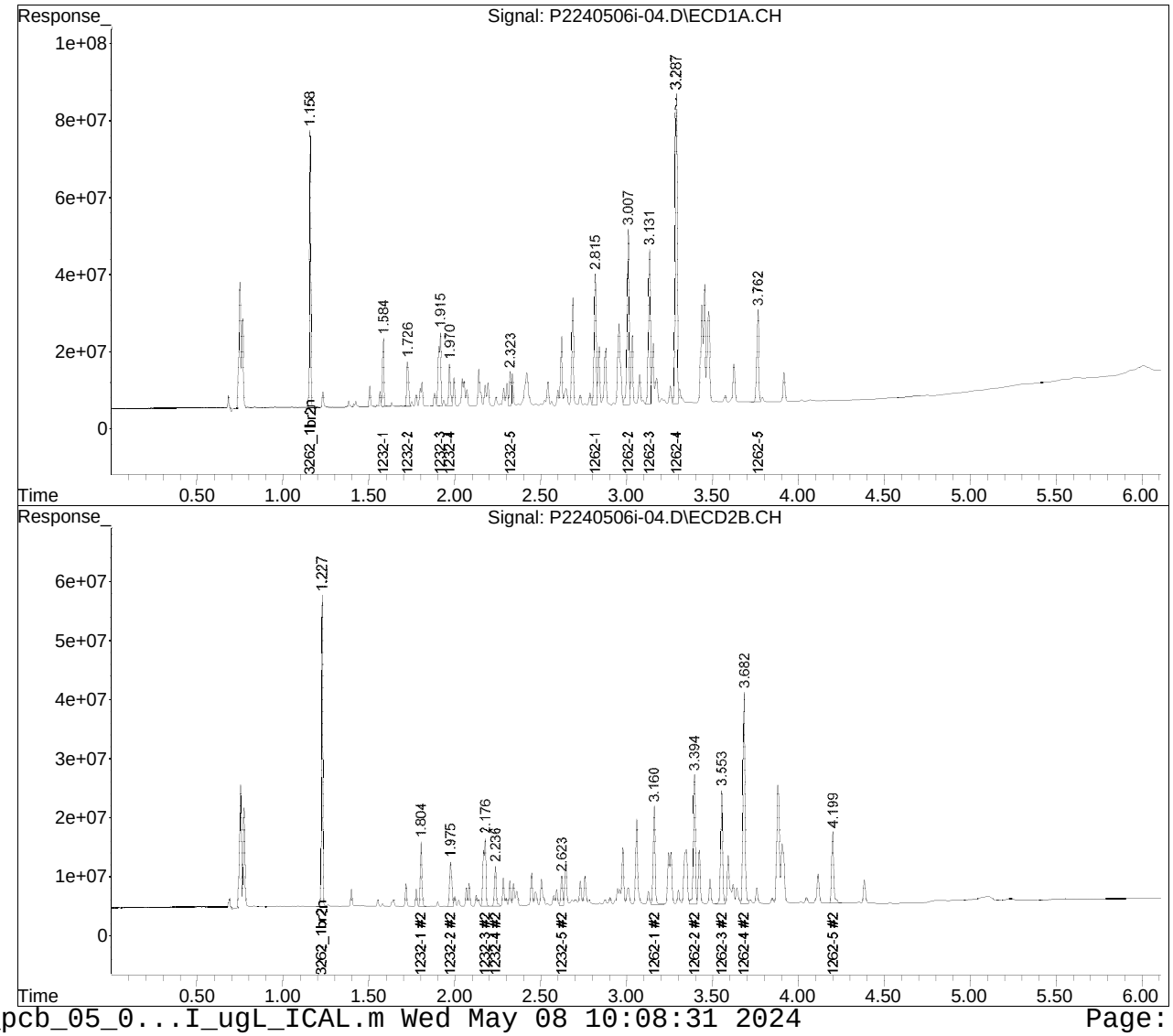
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

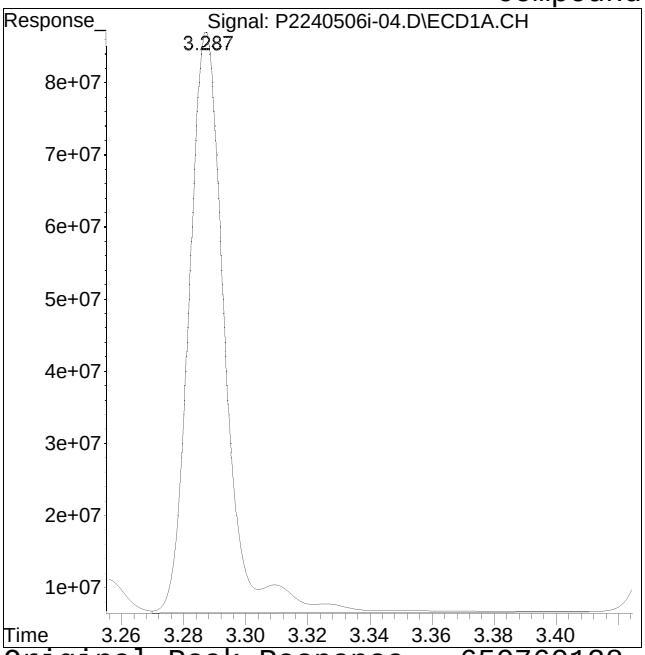
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

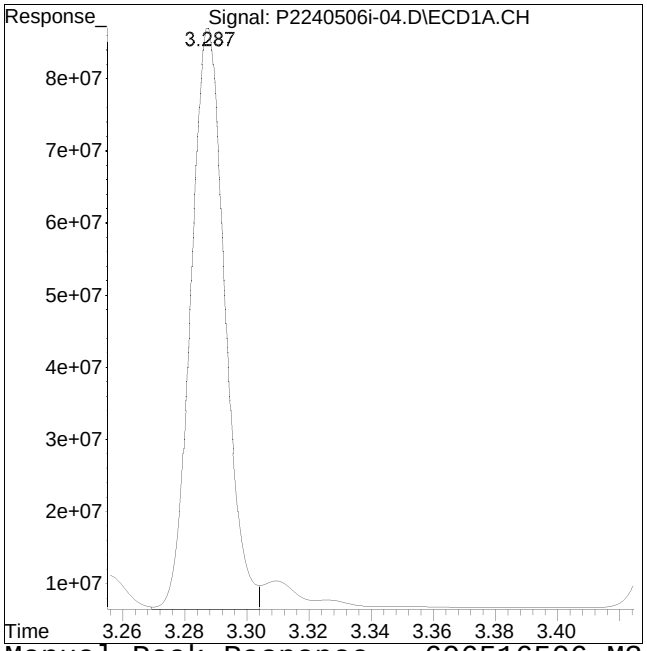


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-04.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:59 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 5/7/2024 3:43 pm

Compound #49: 1262-4





Original Peak Response = 650760128 Manual Peak Response = 606516506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.159	1.228	395.7E6	290.0E6	25.000	25.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.907	2.167	225.8E6	150.7E6	250.000	245.071M1
36) l7	1248-2	2.045	2.322	291.3E6	99774187	248.952M1	250.000
37) l7	1248-3	2.141	2.448	257.5E6	125.4E6	250.000	250.000
38) l7	1248-4	2.324	2.624	229.7E6	138.0E6	250.000	250.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.336	2.647	199.1E6	157.4E6	260.778	250.000
Sum	1248-1			1203.4E6	671.4E6	N.D.	N.D. D
Average	1248-1					251.946	249.014
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

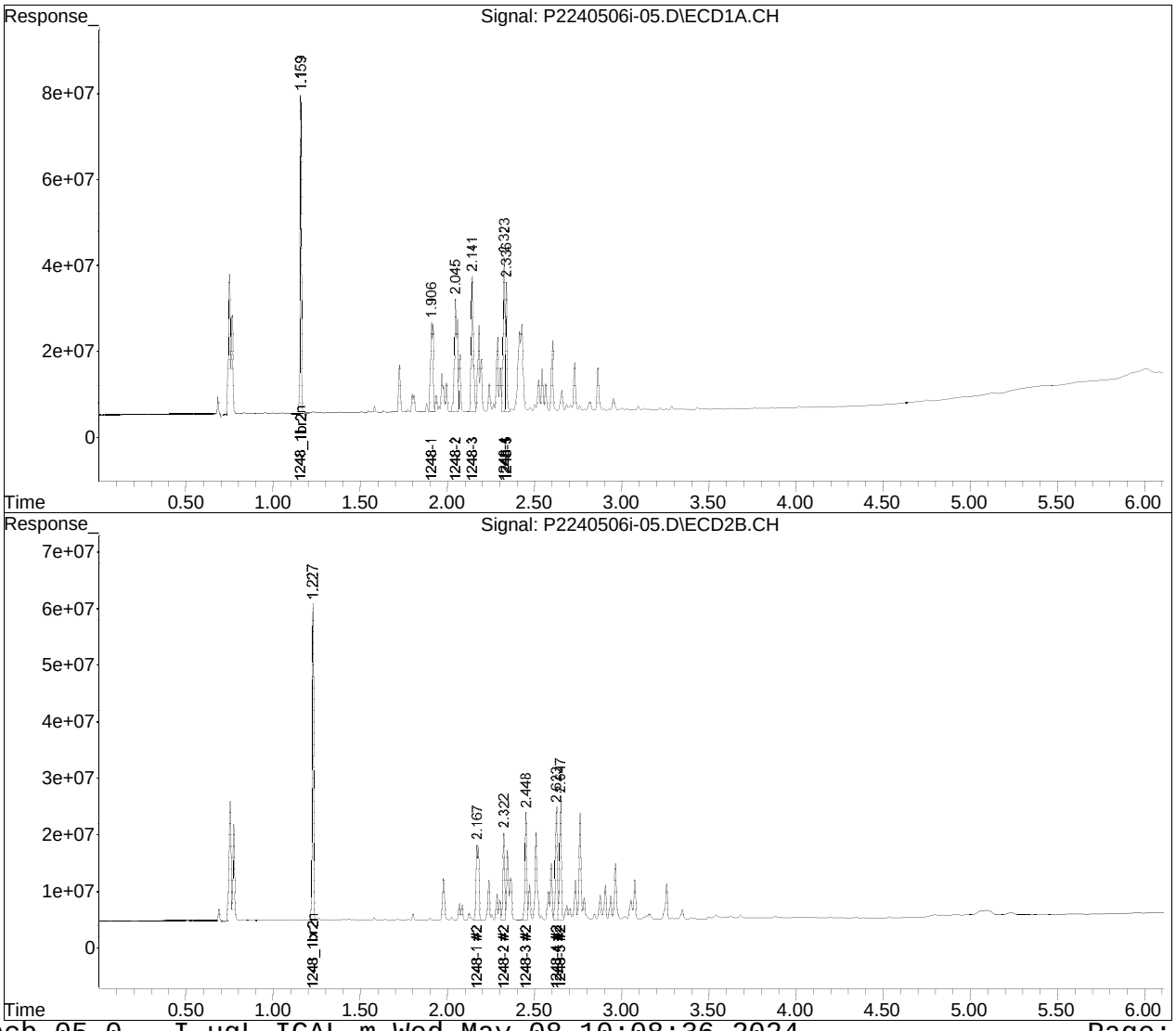
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

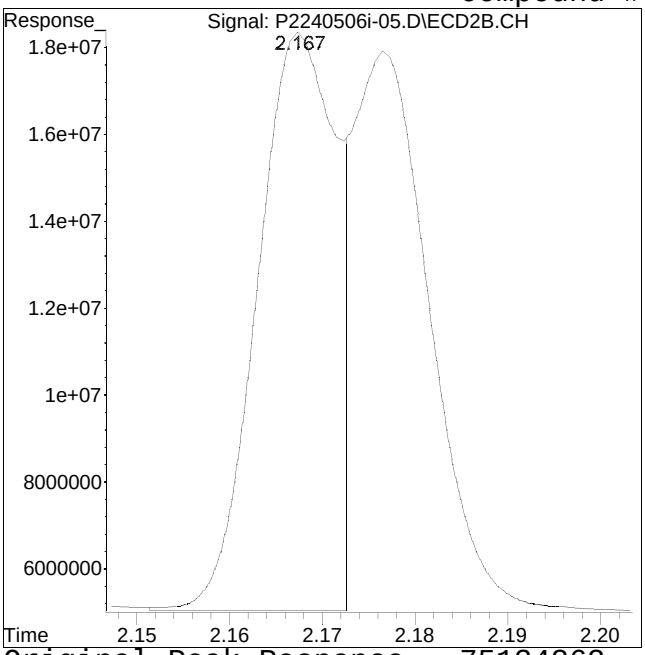
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

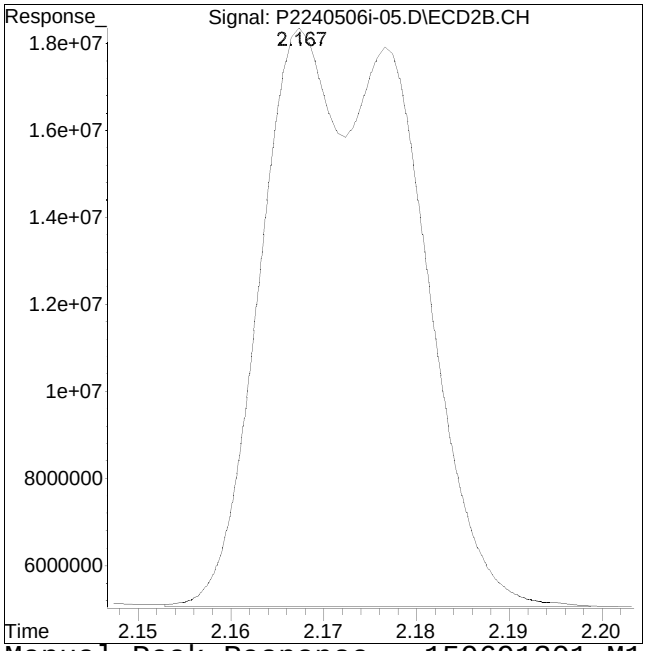


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #86: 1248-1 #2



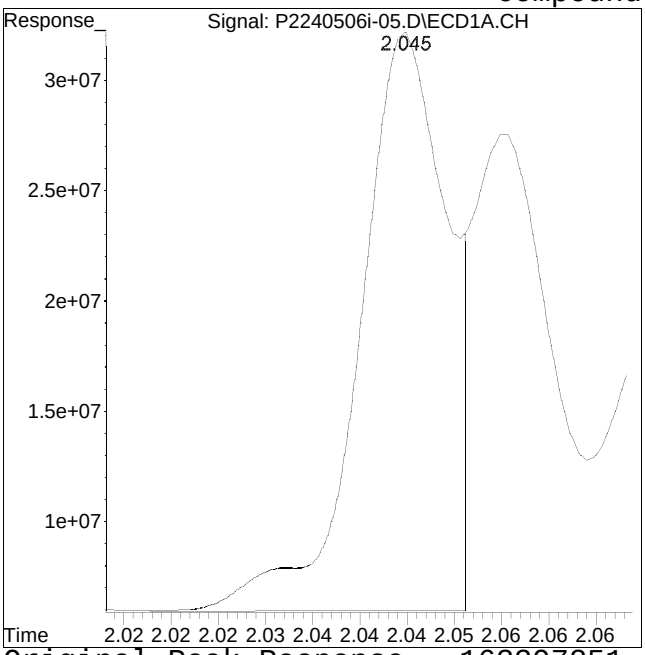


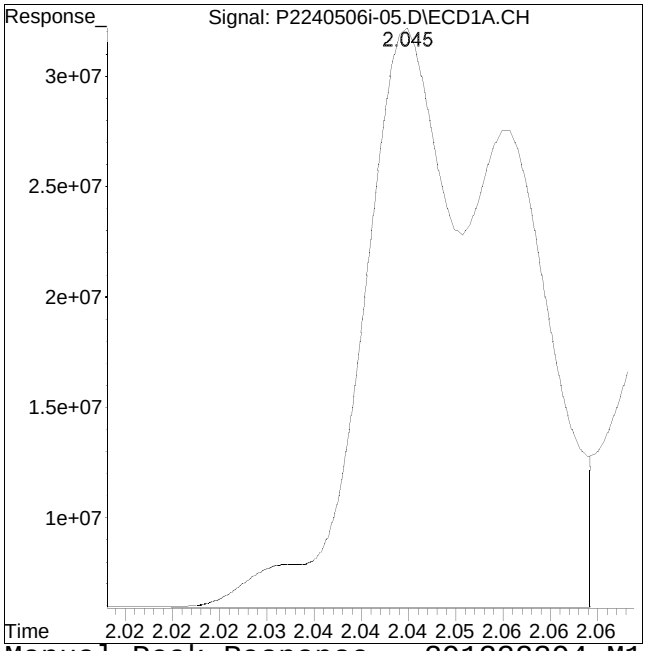
Original Peak Response = 75134262 Manual Peak Response = 150691301 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #36: 1248-2





Original Peak Response = 163397251 Manual Peak Response = 291332394 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.159	1.228	368.2E6	270.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.508	1.719	55425335	41450915	258.591	253.137
16) l3	1221-3	1.567	1.779	34088987	25570999	258.782M3	253.137

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	1.584	1.805	133.6E6	92463612	259.046M3	253.137
Sum	1221-2			223.1E6	159.5E6	776.419	759.412
Average	1221-2					258.806	253.137
18) l4	1254-1	2.305	2.646	189.9E6	126.2E6	256.824M3	253.137
19) l4	1254-2	2.418	2.733	334.3E6	143.9E6	253.515M3	253.137
20) l4	1254-3	2.602	2.963	362.1E6	212.5E6	258.591	253.137
21) l4	1254-4	2.732	3.074	253.4E6	140.0E6	258.591	269.685
22) l4	1254-5	2.954	3.350	347.6E6	193.6E6	258.591	253.137
Sum	1254-1			1487.3E6	816.2E6	N.D.	N.D. D
Average	1254-1					257.222	256.447
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

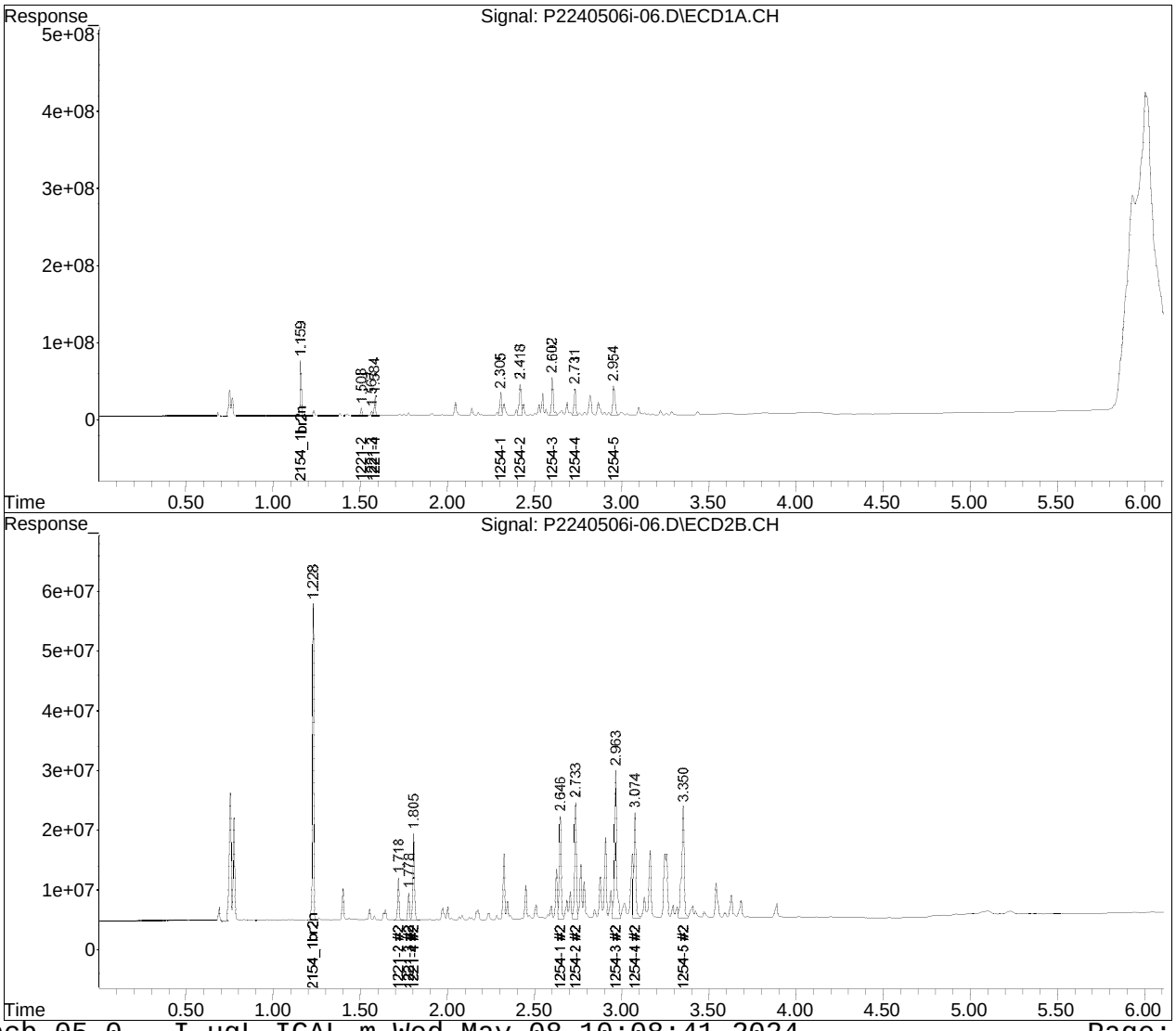
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

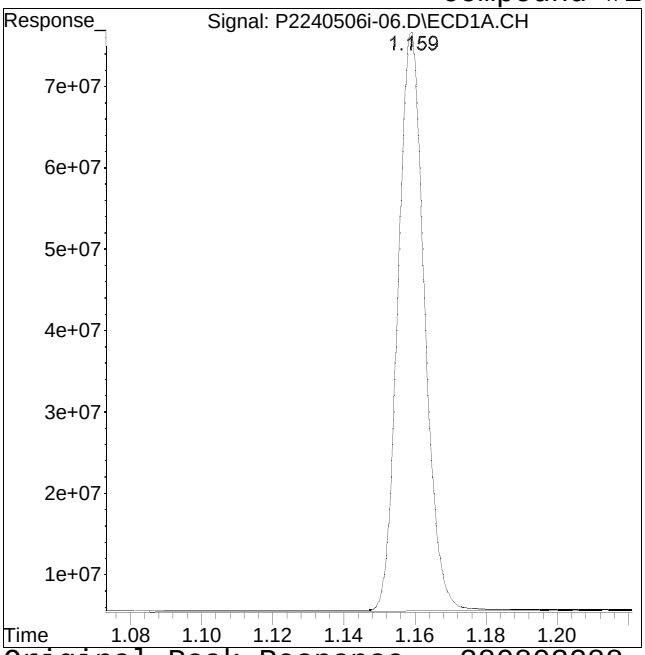
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

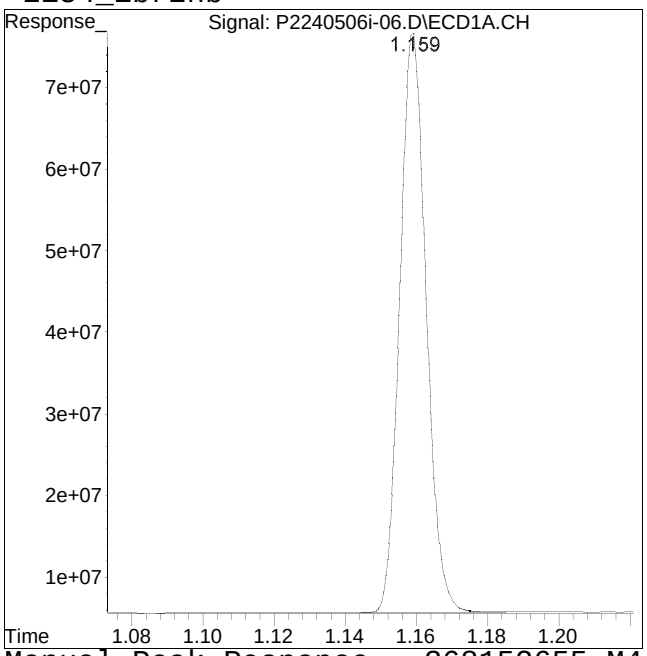


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #14: 2154_1br2nb



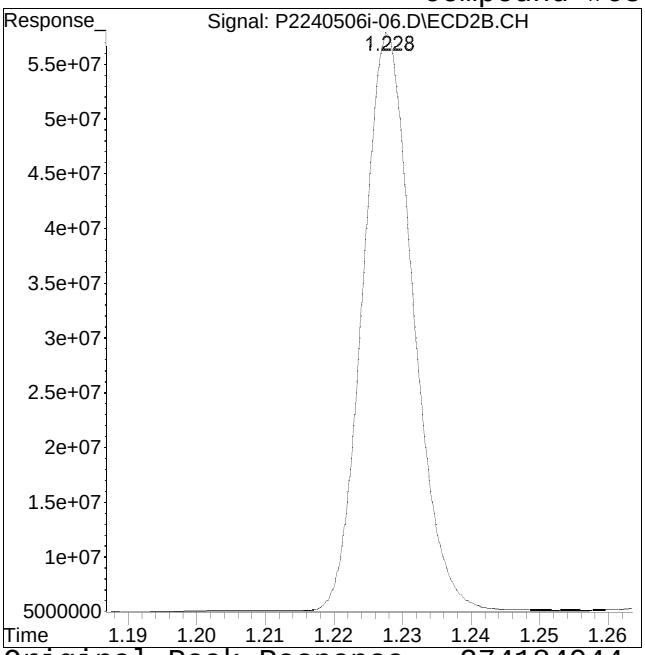


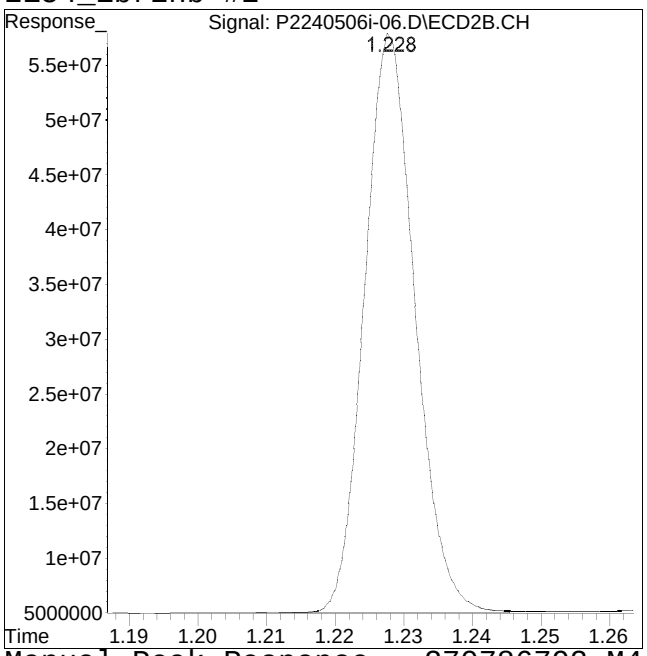
Original Peak Response = 380803288 Manual Peak Response = 368152655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #65: 2154_1br2nb #2



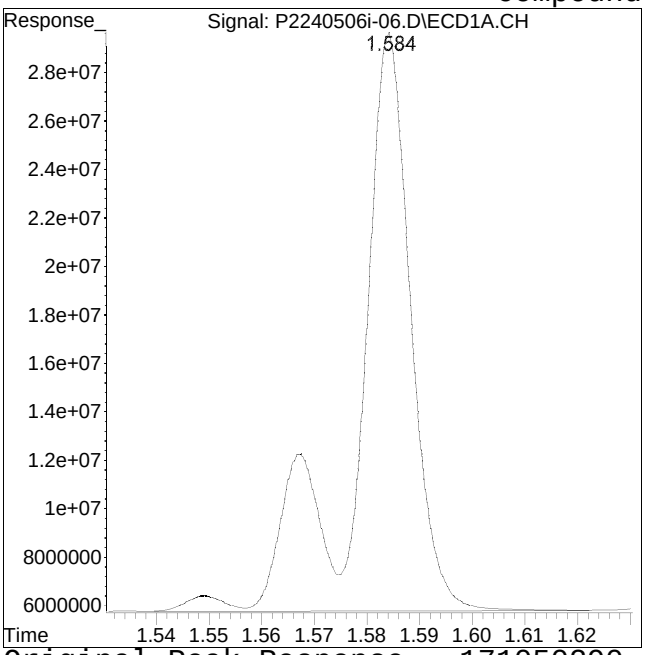


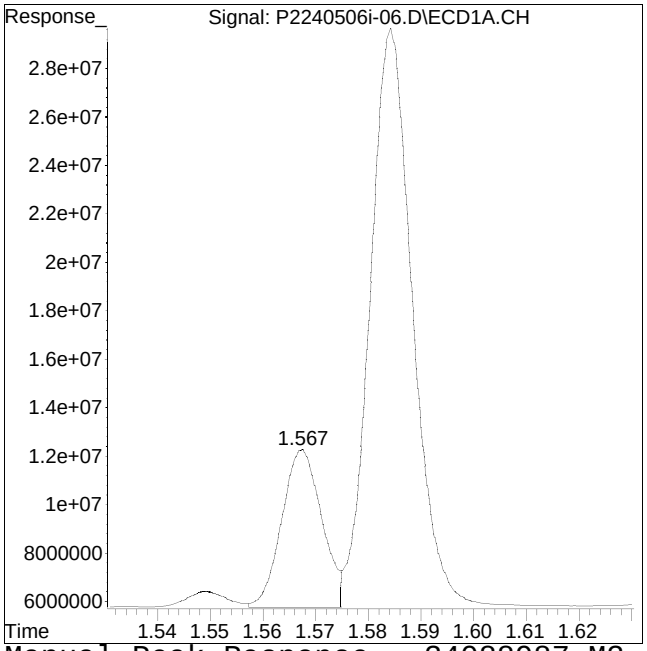
Original Peak Response = 274184944 Manual Peak Response = 270786792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #16: 1221-3



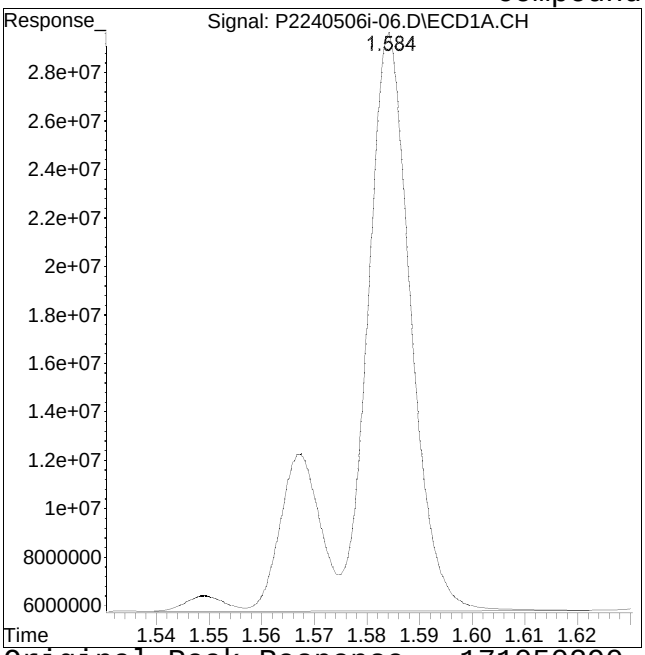


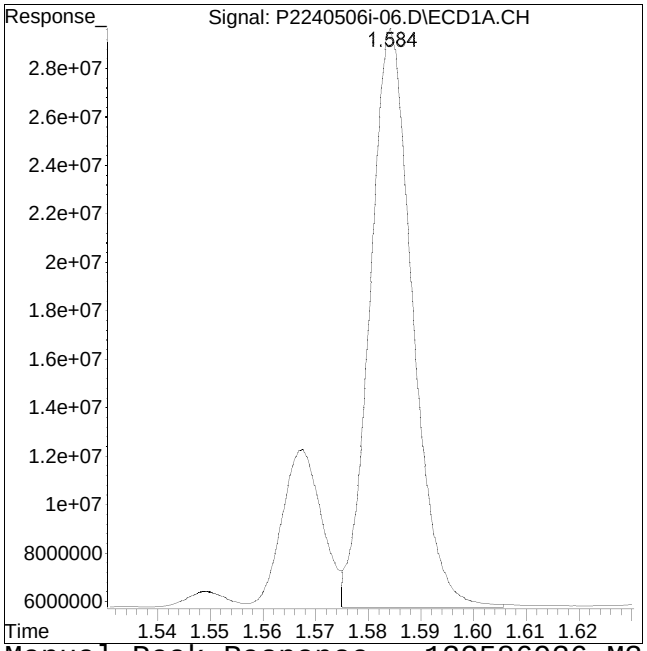
Original Peak Response = 171050290 Manual Peak Response = 34088987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #17: 1221-4



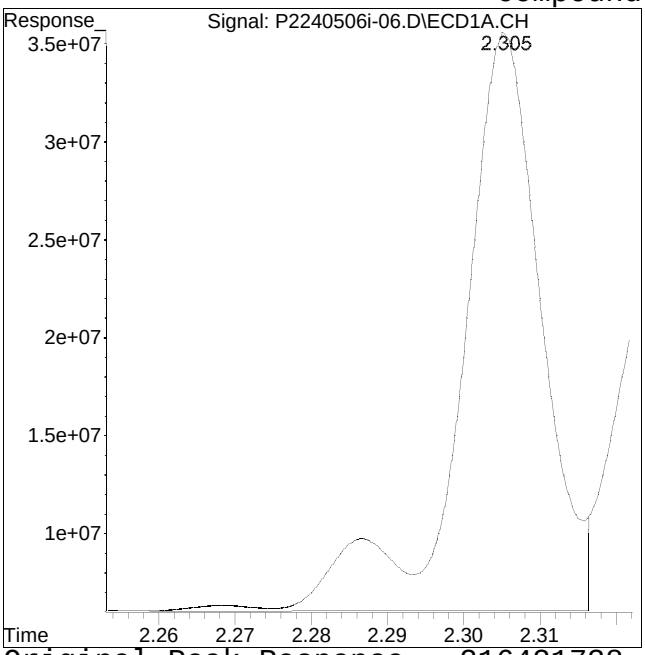


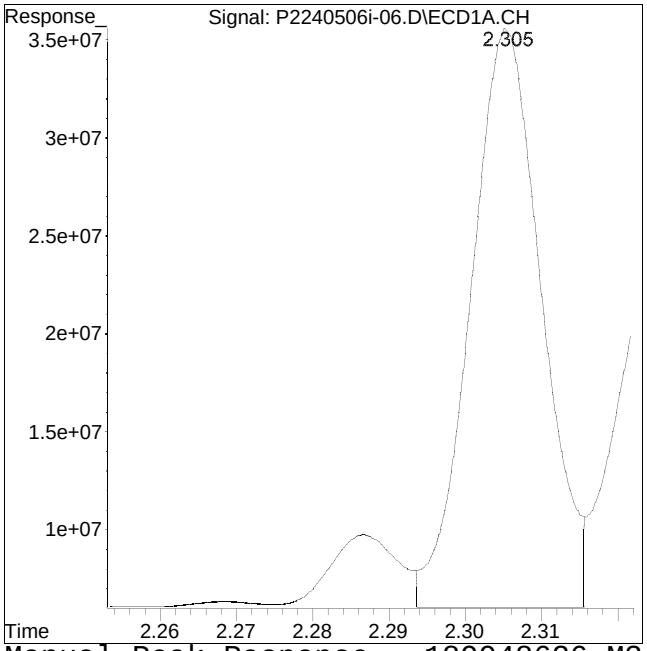
Original Peak Response = 171050290 Manual Peak Response = 133586936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #18: 1254-1



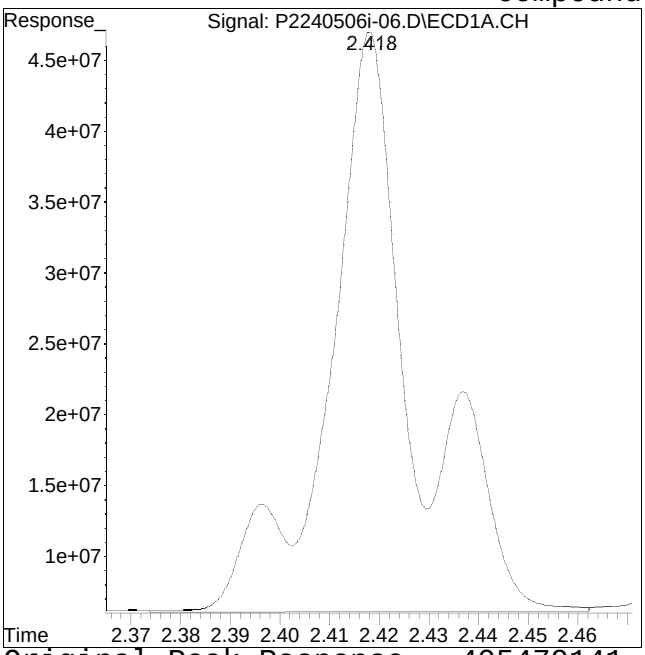


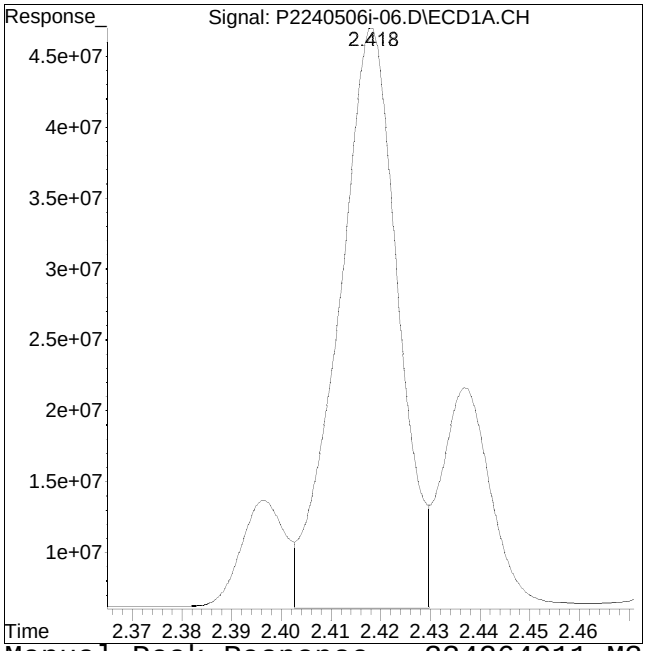
Original Peak Response = 216421738 Manual Peak Response = 189948626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #19: 1254-2





Original Peak Response = 495479141 Manual Peak Response = 334264911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	427.9E6	307.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	67030846	48767818	2.923	3.001
	Spiked Amount 20.000	Range 30 - 150		Recovery =		14.62%#	15.00%#
3) s	Decachlorobi	4.021	4.535	89819738	49489705	1.018M4	6.253M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		5.09%#	31.26%
	Target Compounds						
4) l1	1016-1	1.586	1.806	19864562	14014682	44.922	49.629
5) l1	1016-2	1.727	1.978	44044956	31223629	51.763M1	49.840
6) l1	1016-3	1.917	2.179	83622291	59884413	46.126	47.891
7) l1	1016-4	1.972	2.239	34314487	23349042	46.249M3	46.682
8) l1	1016-5	2.143	2.450	37922778	18676230	46.023	41.140M4
	Sum 1016-1			219.8E6	147.1E6	235.083	235.181
	Average 1016-1					47.017	47.036
9) l2	1260-1	2.686	3.060	55225089	31043678	40.986M4	35.272M4
10) l2	1260-2	2.817	3.162	82457614	38768910	1.109M4	36.451M4
11) l2	1260-3	3.133	3.555	49330916	32395410	38.777M4	37.384
12) l2	1260-4	3.288	3.684	106.8E6	63773305	2.871M4	49.188

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.437	3.886	73865657	44351592	4.149M1	48.488
Sum	1260-1			367.6E6	210.3E6	N.D.	N.D. D
Average	1260-1					17.578	41.356 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

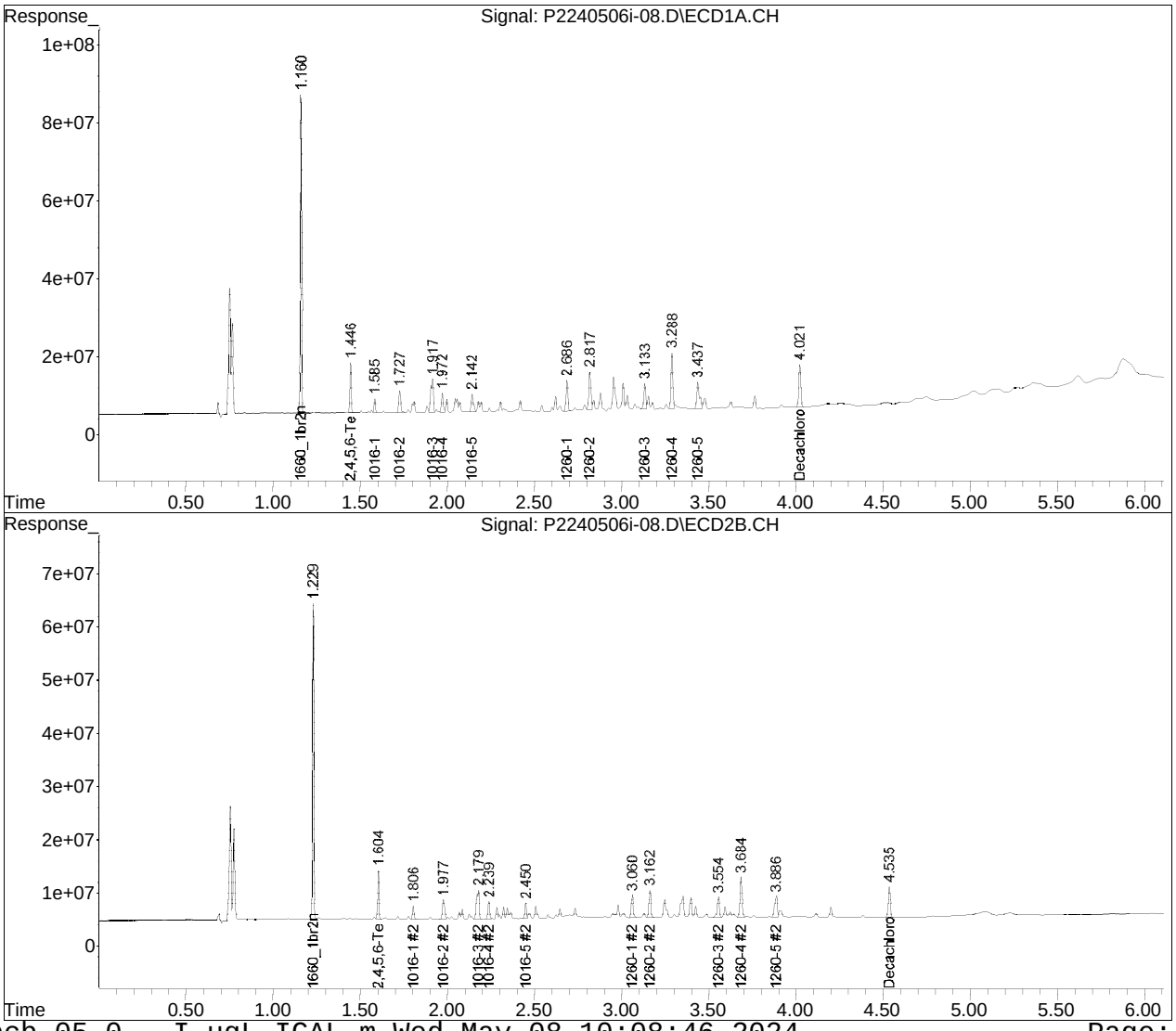
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

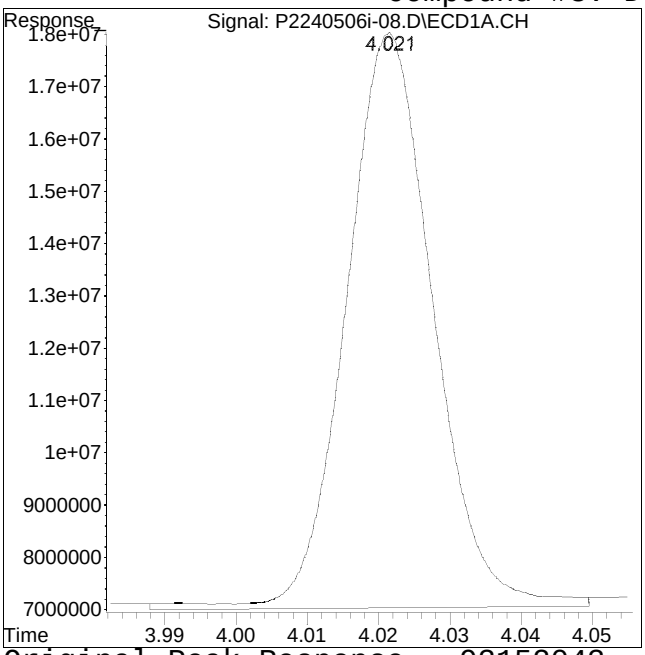
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



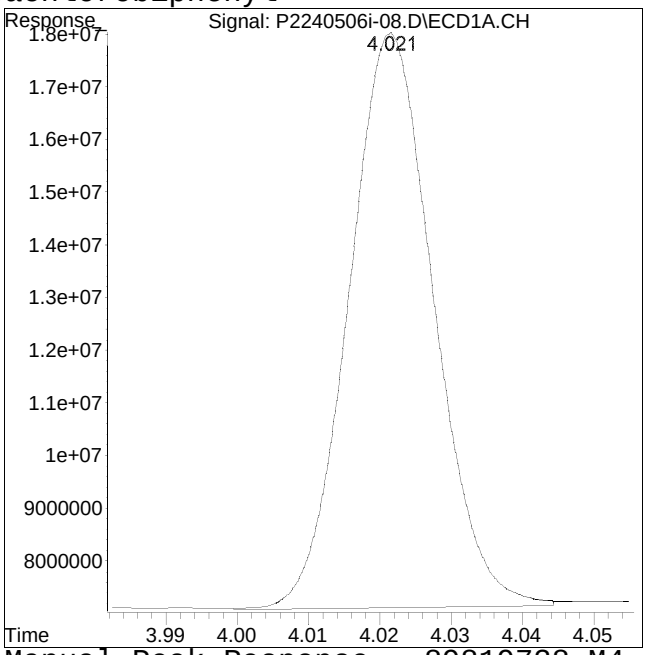
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 93152043



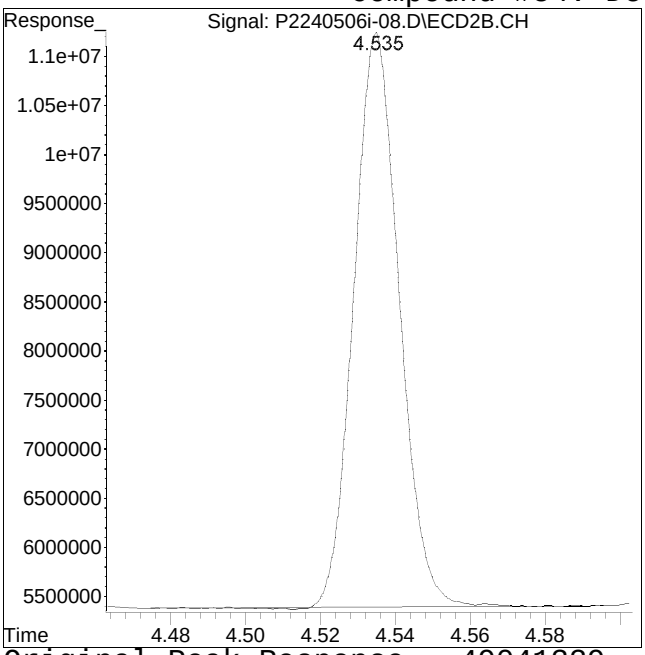
Manual Peak Response = 89819738 M4

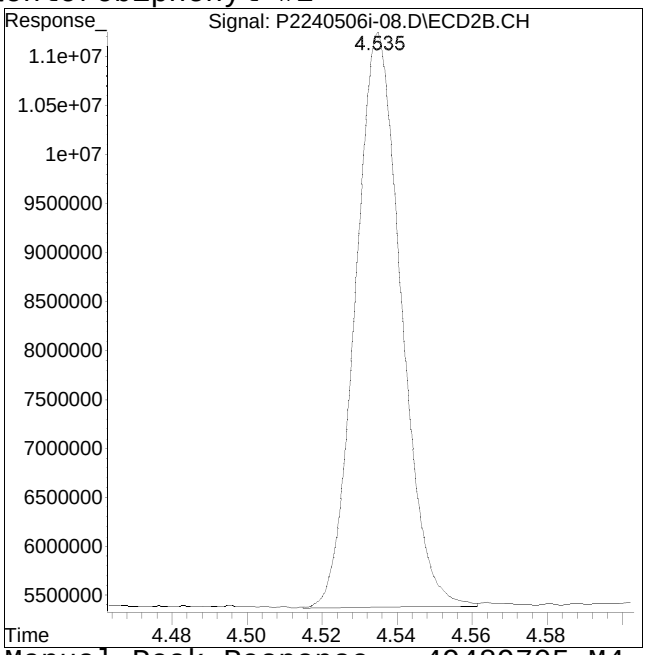
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



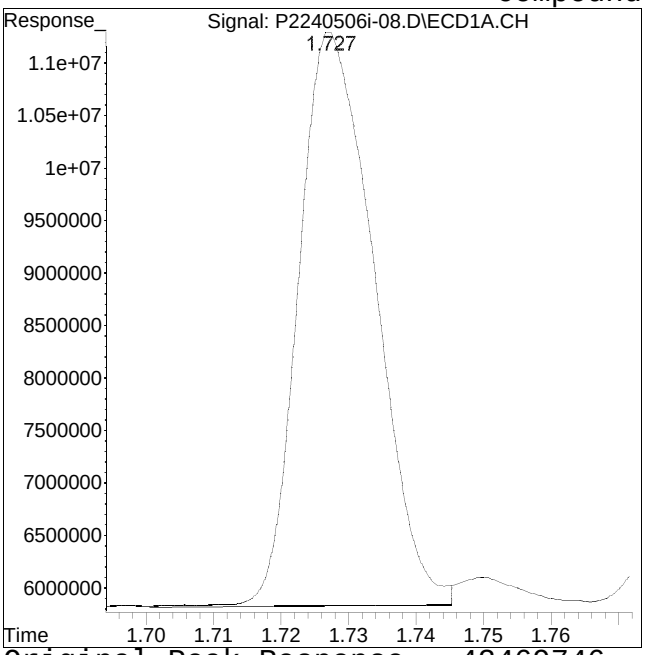


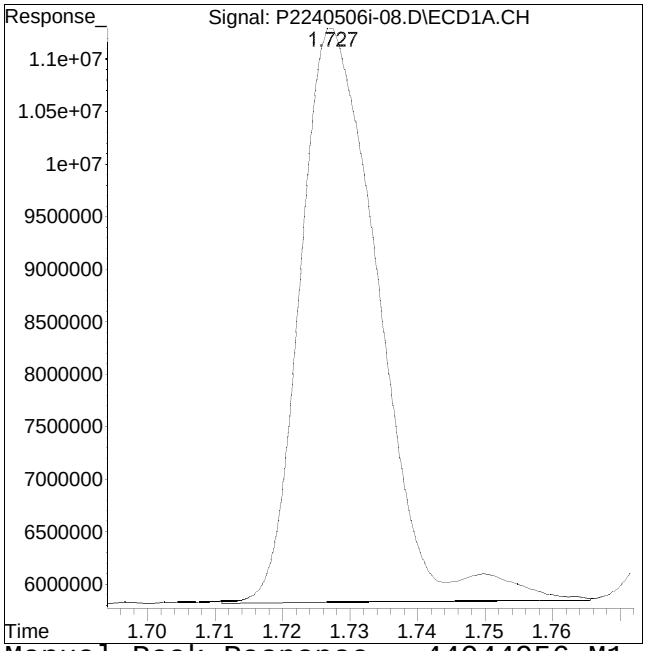
Original Peak Response = 49041339 Manual Peak Response = 49489705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #5: 1016-2



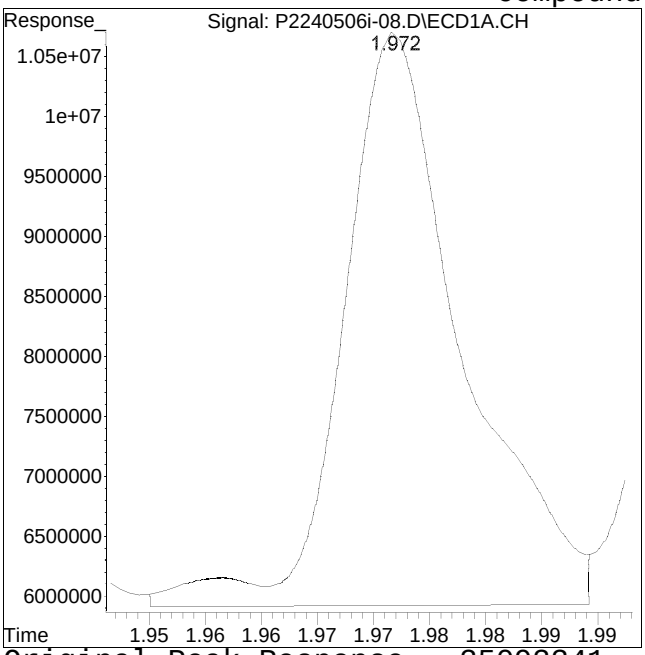


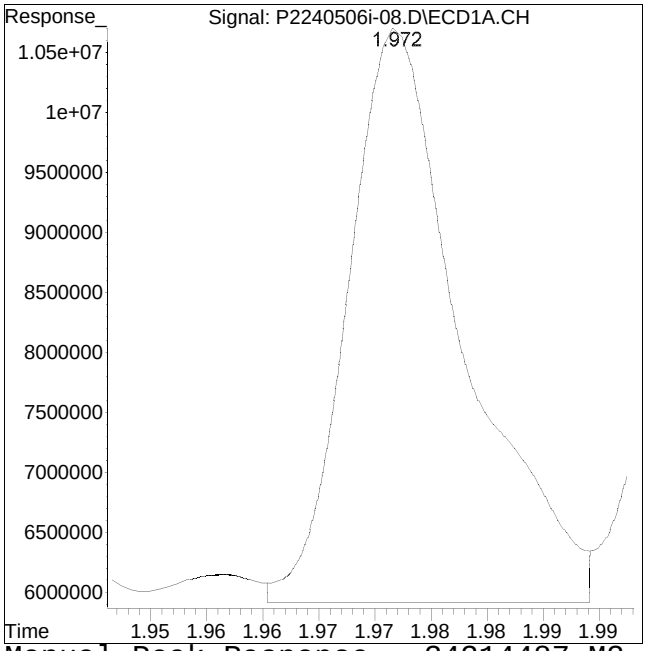
Original Peak Response = 42469746 Manual Peak Response = 44044956 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #7: 1016-4



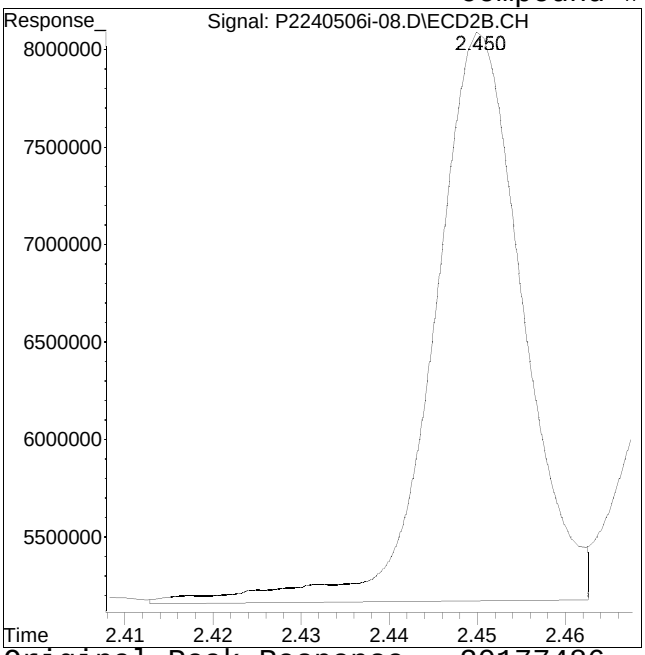


Original Peak Response = 35093341 Manual Peak Response = 34314487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

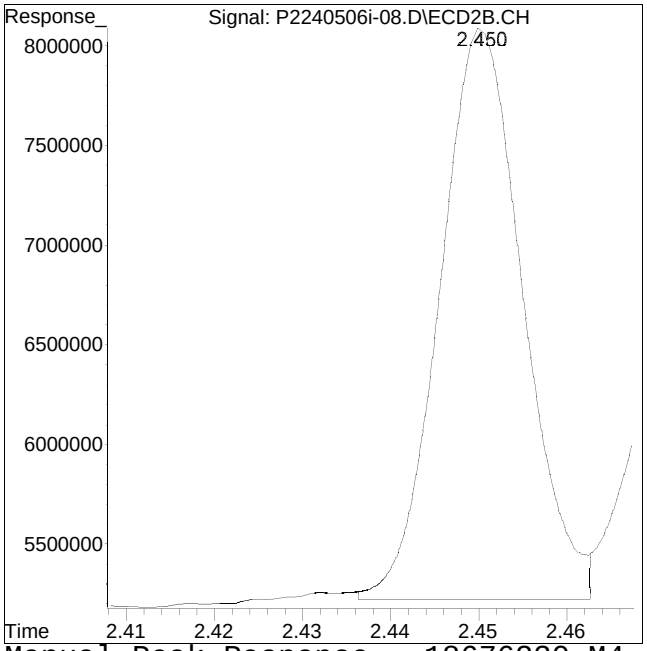
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #59: 1016-5 #2



Original Peak Response = 20177486



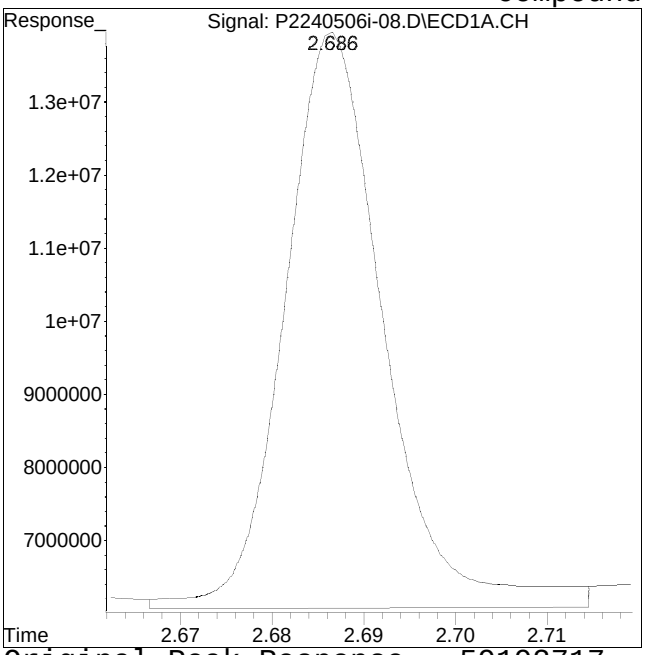
Manual Peak Response = 18676230 M4

M4 = Poor automated baseline construction.

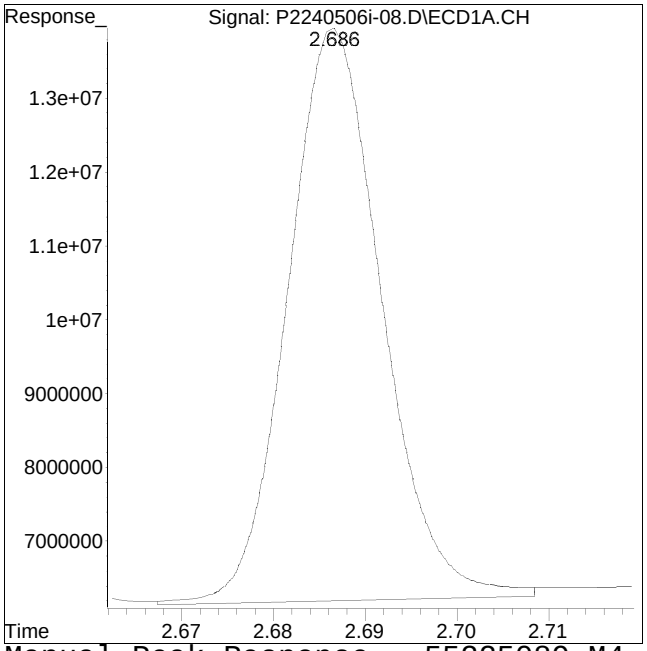
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



Original Peak Response = 59192717



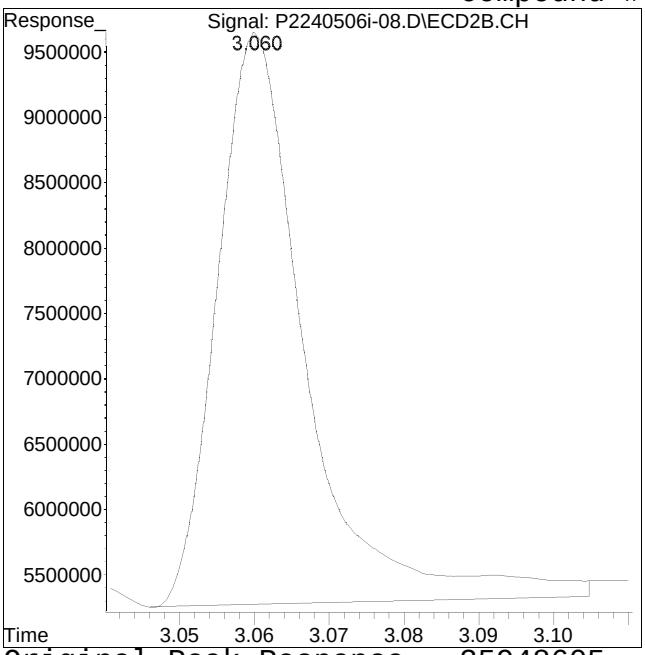
Manual Peak Response = 55225089 M4

M4 = Poor automated baseline construction.

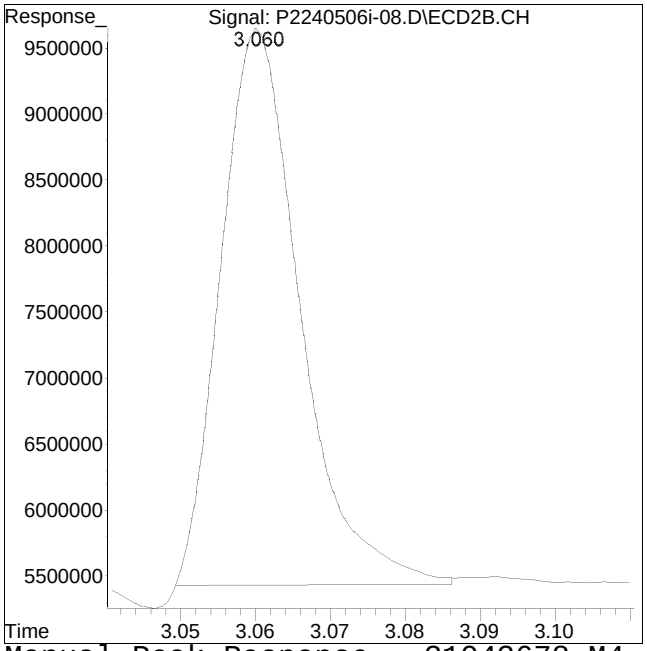
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #60: 1260-1 #2



Original Peak Response = 35948605

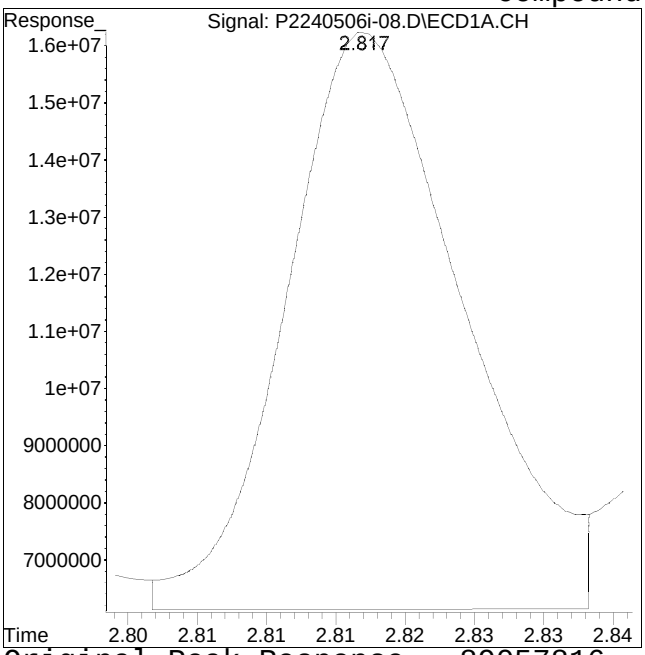


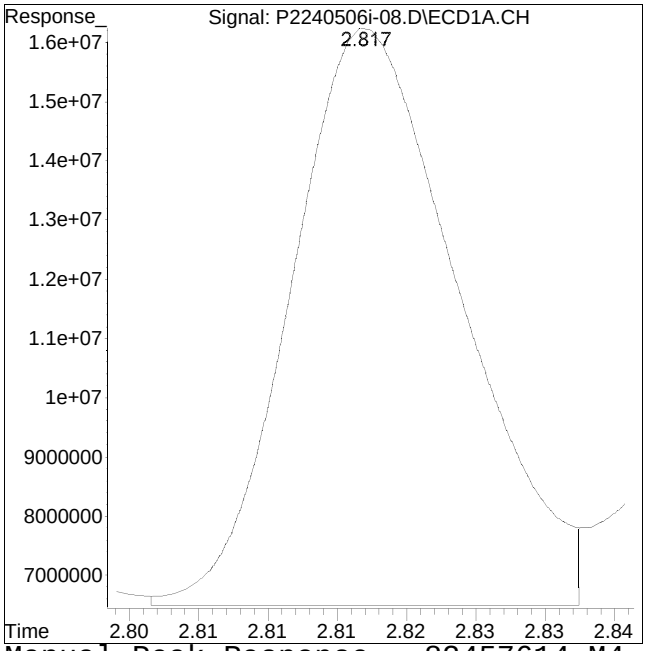
Manual Peak Response = 31043678 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #10: 1260-2



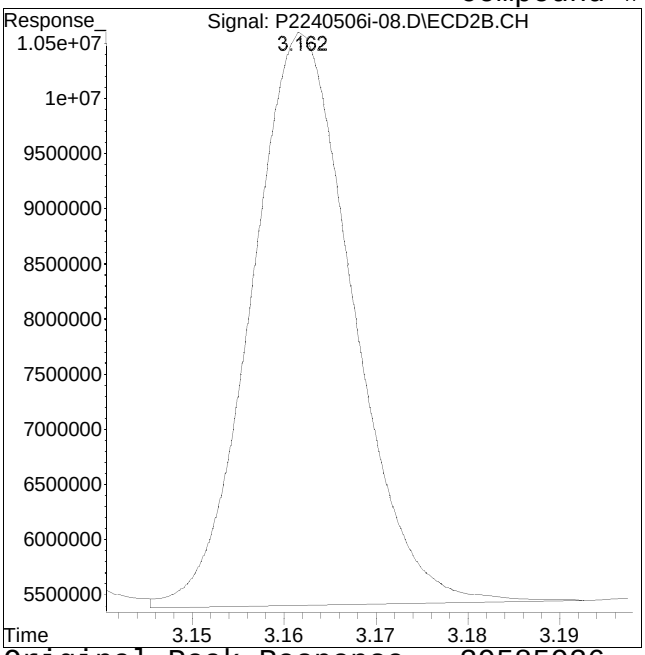


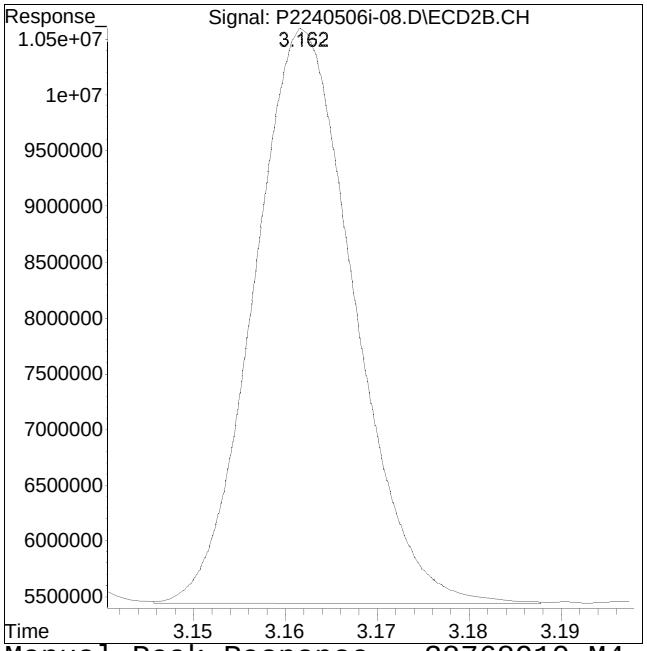
Original Peak Response = 89057816 Manual Peak Response = 82457614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #61: 1260-2 #2



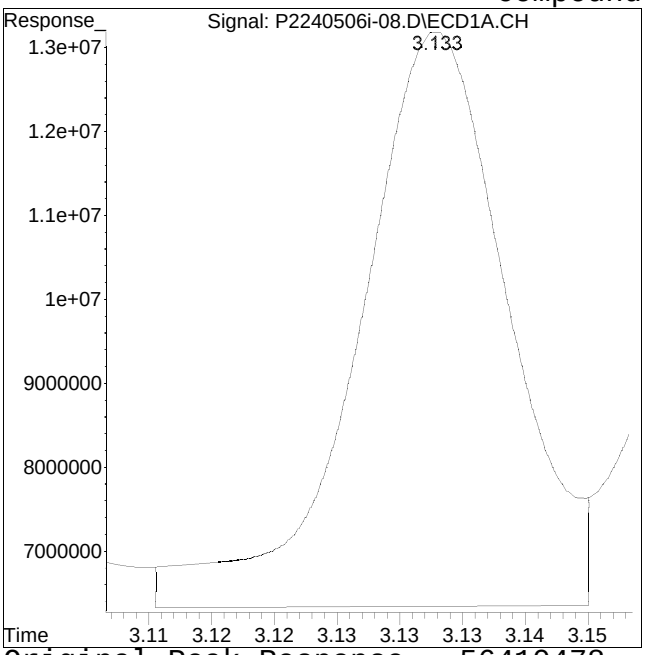


Original Peak Response = 39585936 Manual Peak Response = 38768910 M4
M4 = Poor automated baseline construction.

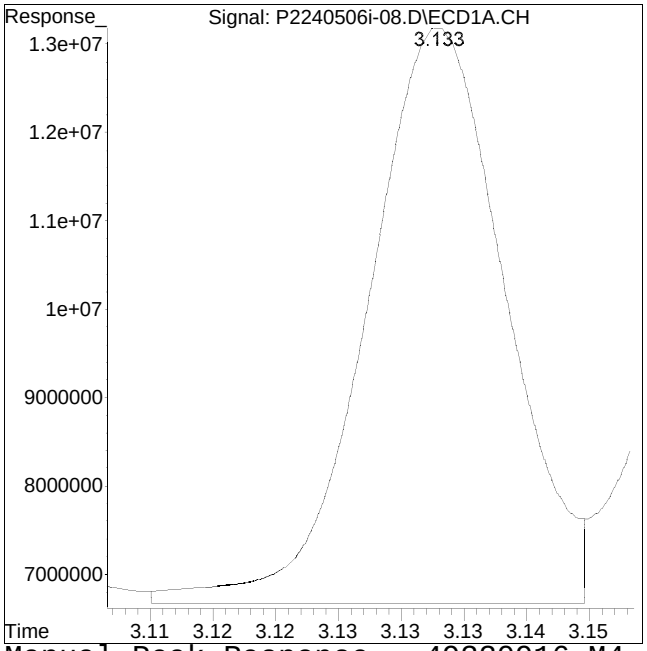
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #11: 1260-3



Original Peak Response = 56410478



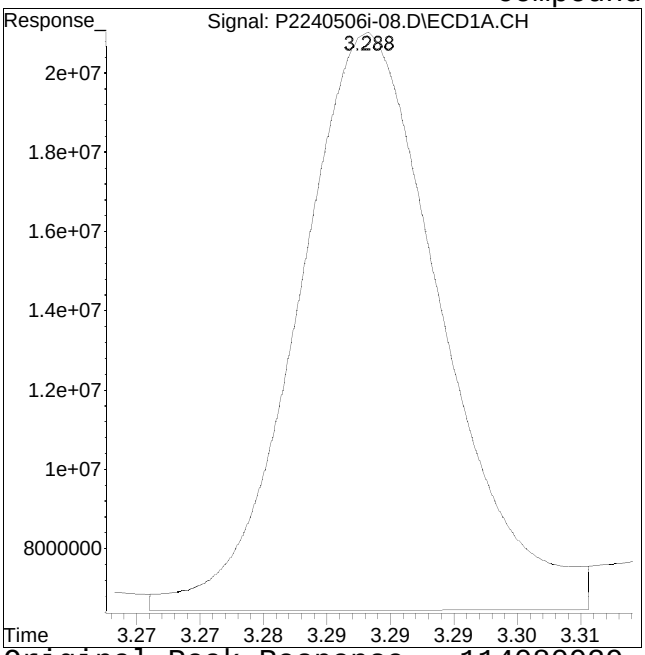
Manual Peak Response = 49330916 M4

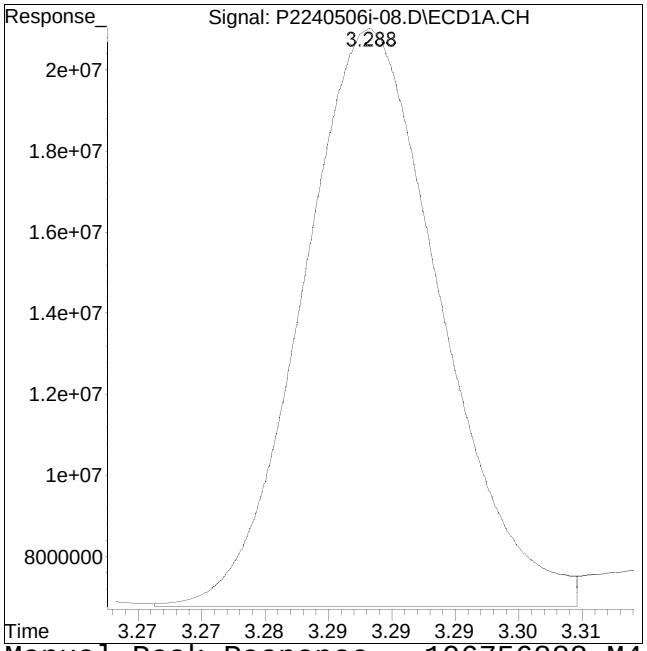
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #12: 1260-4



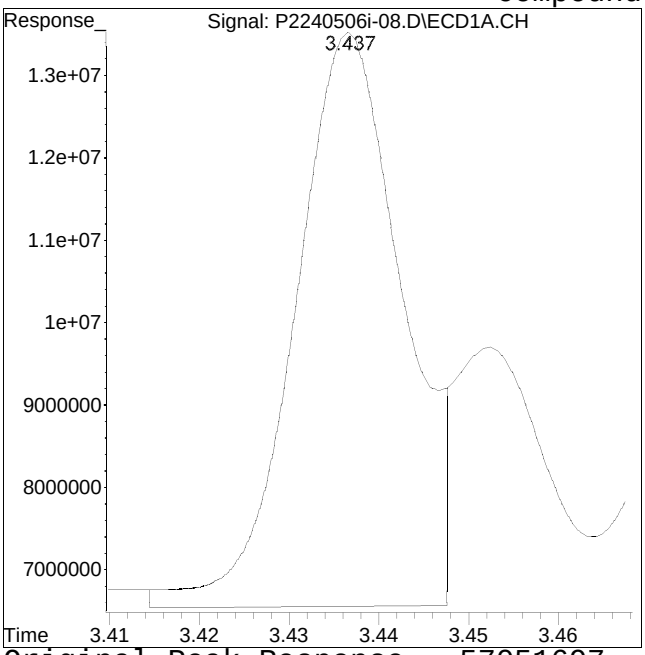


Original Peak Response = 114080929 Manual Peak Response = 106756888 M4
M4 = Poor automated baseline construction.

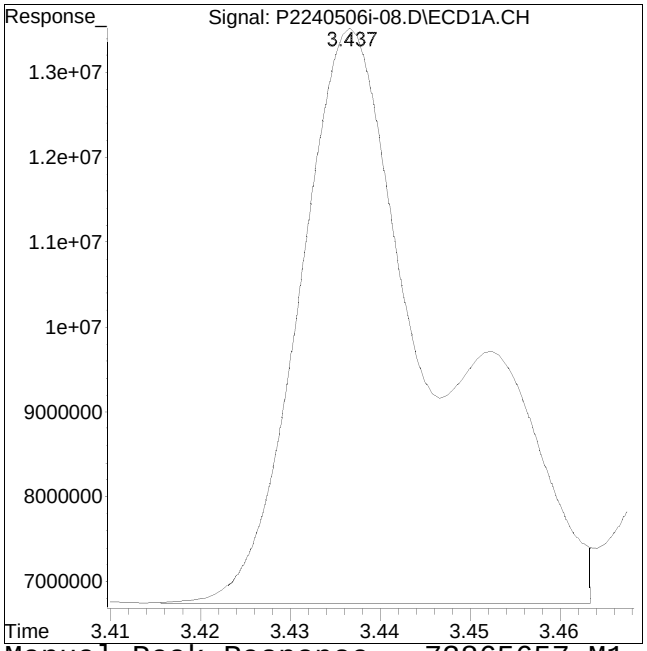
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5



Original Peak Response = 57051697



Manual Peak Response = 73865657 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	407.8E6	304.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	125.8E6	90520079	5.928	5.735
Spiked Amount	20.000	Range 30 - 150		Recovery =		29.64%#	28.68%#
3) s	Decachlorobi	4.021	4.535	162.9E6	89288357	2.685M4	11.498M4
Spiked Amount	20.000	Range 30 - 150		Recovery =		13.43%#	57.49%
	Target Compounds						
4) l1	1016-1	1.586	1.806	36249062	25493685	89.016	91.259
5) l1	1016-2	1.728	1.978	80757307	56271795	99.632	90.670
6) l1	1016-3	1.917	2.179	156.8E6	107.7E6	93.131	88.087
7) l1	1016-4	1.972	2.239	64161863	41654032	92.391	85.875
8) l1	1016-5	2.142	2.450	69303987	36552504	90.644M4	84.313
Sum	1016-1			407.2E6	267.7E6	464.814	440.205
Average	1016-1					92.963	88.041
9) l2	1260-1	2.686	3.061	99905923	59864552	82.817M4	73.045
10) l2	1260-2	2.817	3.162	155.3E6	75121033	3.250	77.855
11) l2	1260-3	3.133	3.555	97615758	59258669	85.330	75.289
12) l2	1260-4	3.289	3.684	200.6E6	115.2E6	8.236	90.108
13) l2	1260-5	3.437	3.886	139.3E6	80354238	11.929M1	89.485
Sum	1260-1			692.7E6	389.8E6	N.D.	N.D. D
Average	1260-1					38.312	81.156 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

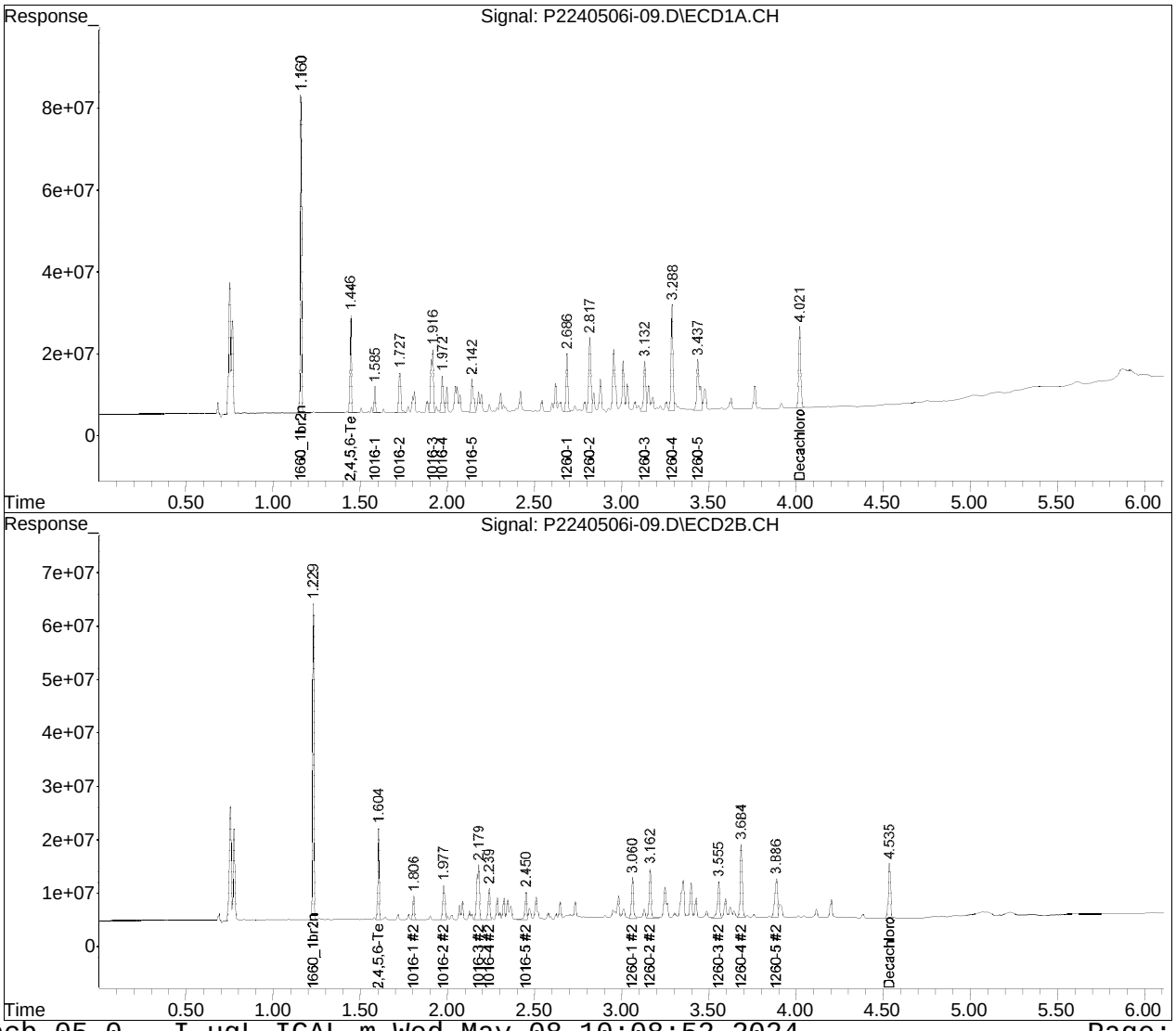
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

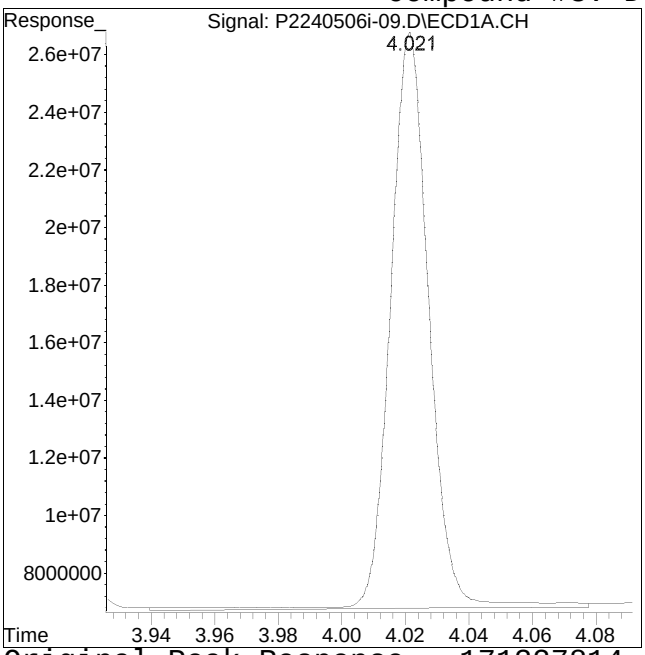
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

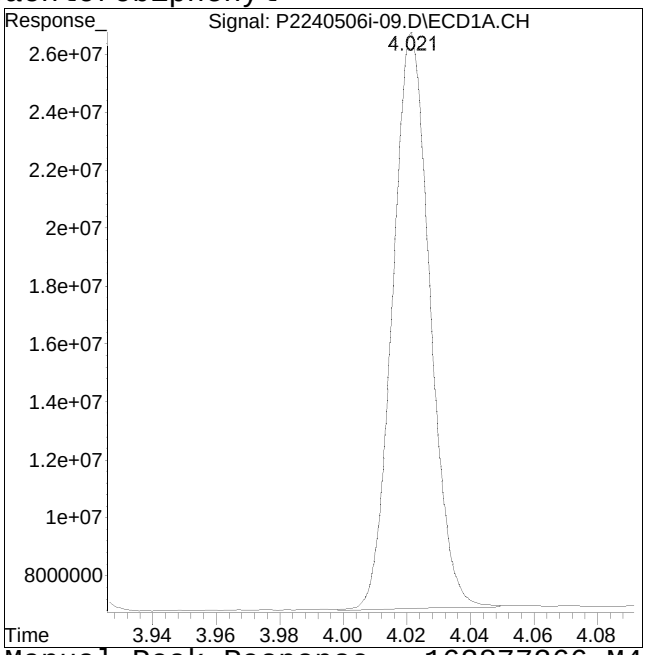


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



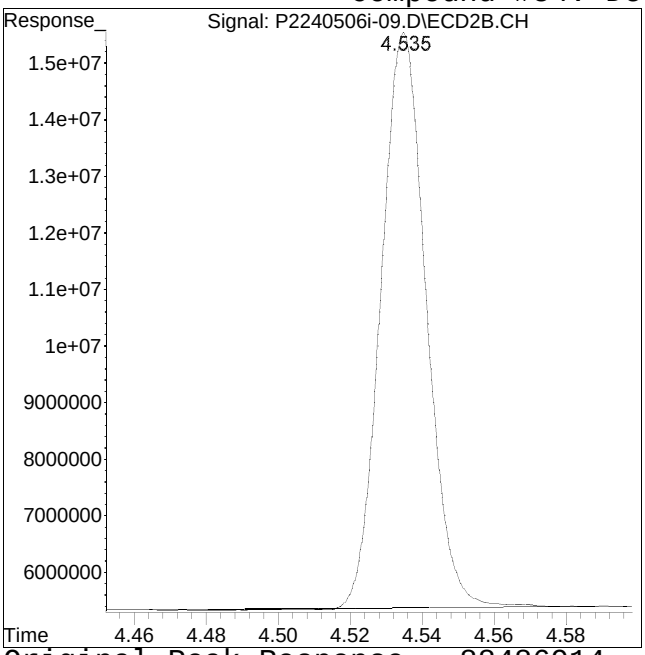


Original Peak Response = 171327814 Manual Peak Response = 162877366 M4
M4 = Poor automated baseline construction.

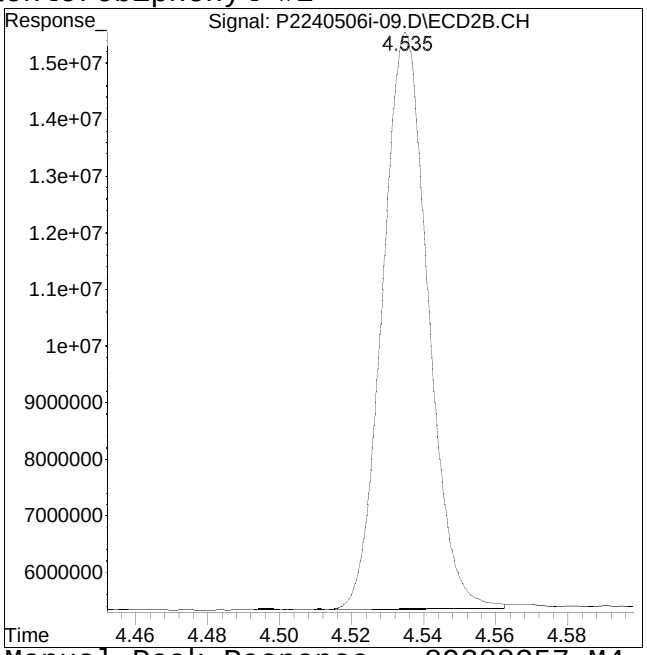
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 88486914



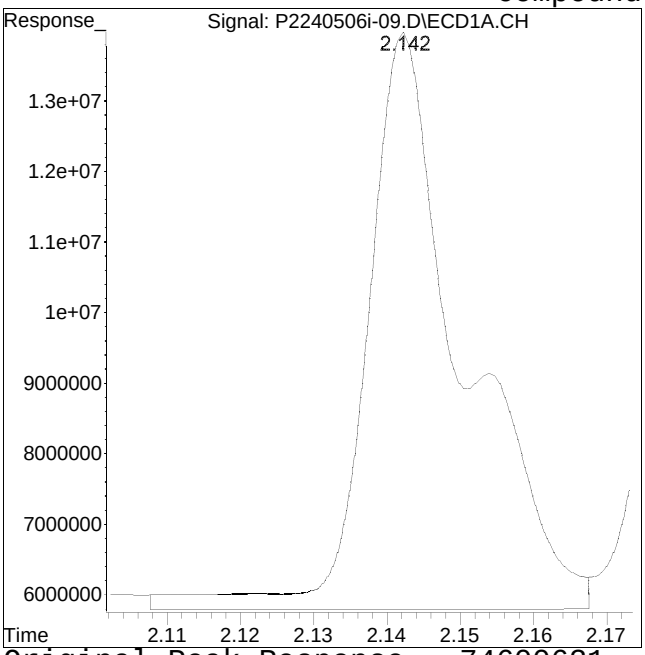
Manual Peak Response = 89288357 M4

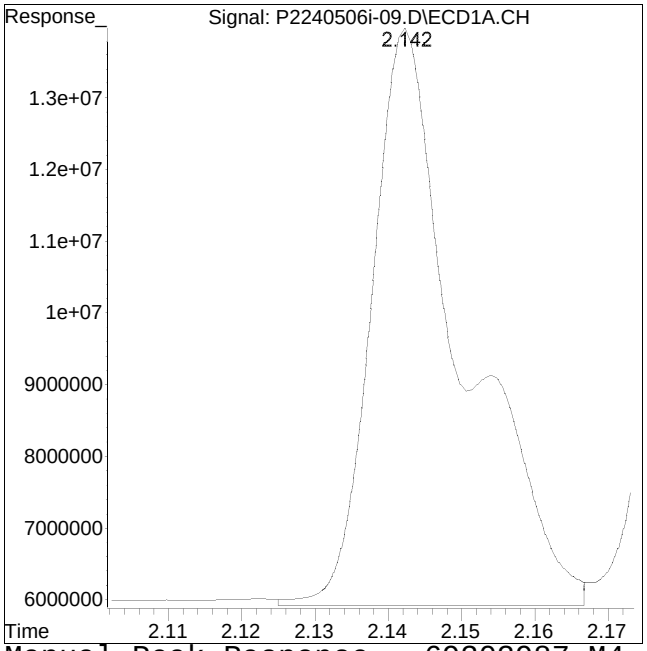
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #8: 1016-5



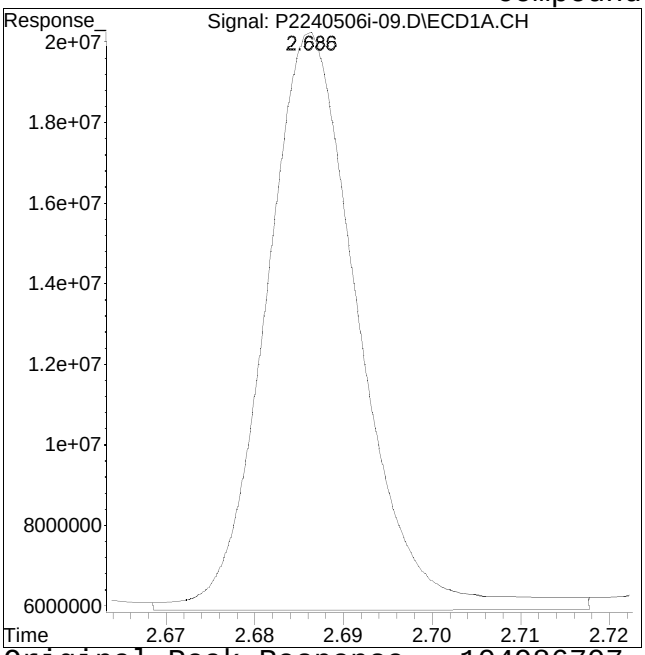


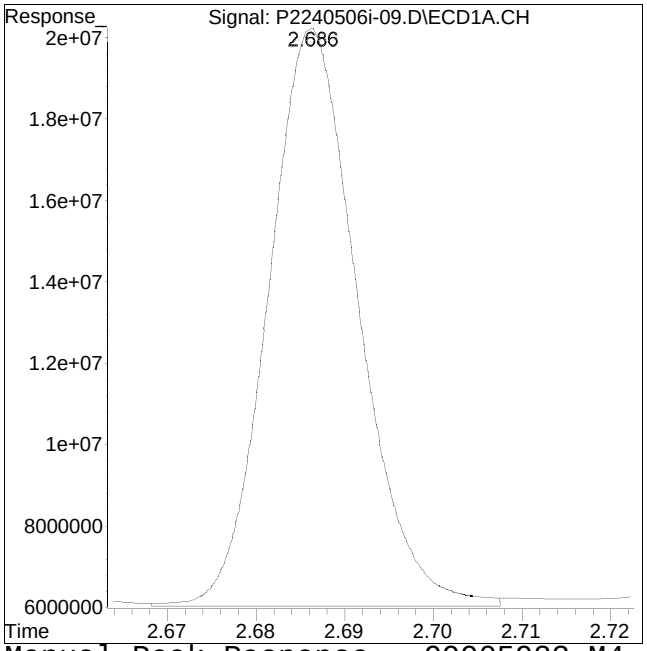
Original Peak Response = 74600631 Manual Peak Response = 69303987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



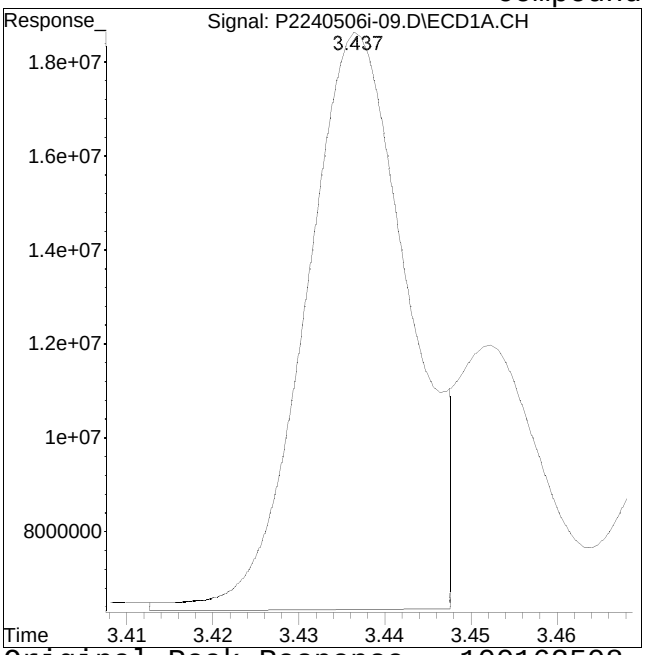


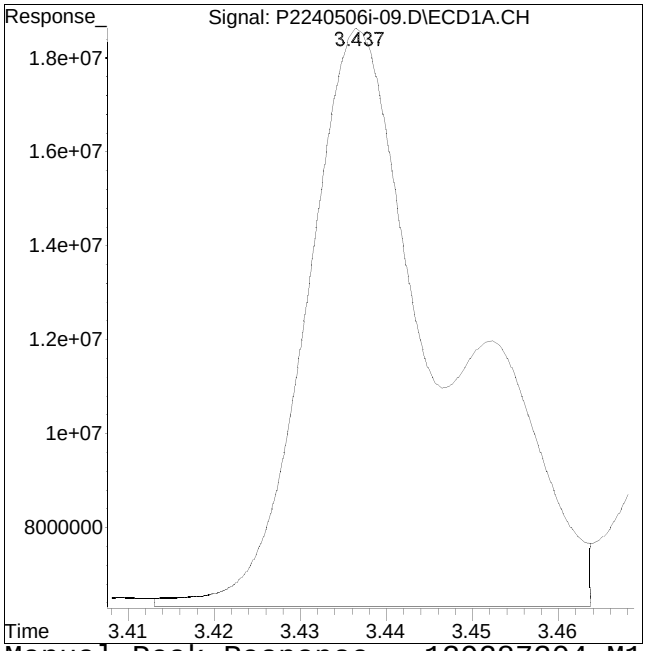
Original Peak Response = 104986707 Manual Peak Response = 99905923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 100162508 Manual Peak Response = 139287304 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	411.7E6	309.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	440.1E6	304.5E6	20.928	19.488
Spiked Amount	20.000	Range 30 - 150		Recovery =		104.64%	97.44%
3) s	Decachlorobi	4.022	4.536	551.8E6	271.9E6	11.192	35.423
Spiked Amount	20.000	Range 30 - 150		Recovery =		55.96%	177.12%#
	Target Compounds						
4) l1	1016-1	1.586	1.806	112.2E6	79371159	280.686	285.782
5) l1	1016-2	1.728	1.978	251.1E6	174.4E6	307.207	283.030
6) l1	1016-3	1.917	2.179	526.9E6	348.1E6	315.467	288.731
7) l1	1016-4	1.972	2.239	206.5E6	132.5E6	300.281	278.595
8) l1	1016-5	2.143	2.450	225.4E6	110.5E6	293.818	260.901
Sum	1016-1			1322.1E6	844.8E6	1497.458	1397.039
Average	1016-1					299.492	279.408
9) l2	1260-1	2.686	3.060	324.1E6	185.1E6	278.182	238.257
10) l2	1260-2	2.817	3.162	492.4E6	220.8E6	13.461	238.363
11) l2	1260-3	3.133	3.555	306.0E6	178.1E6	278.618	237.246
12) l2	1260-4	3.289	3.684	666.9E6	358.9E6	35.206	283.117
13) l2	1260-5	3.437	3.886	465.8E6	250.2E6	51.221M1	281.492
Sum	1260-1			2255.2E6	1193.0E6	N.D.	N.D. D
Average	1260-1					131.338	255.695 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

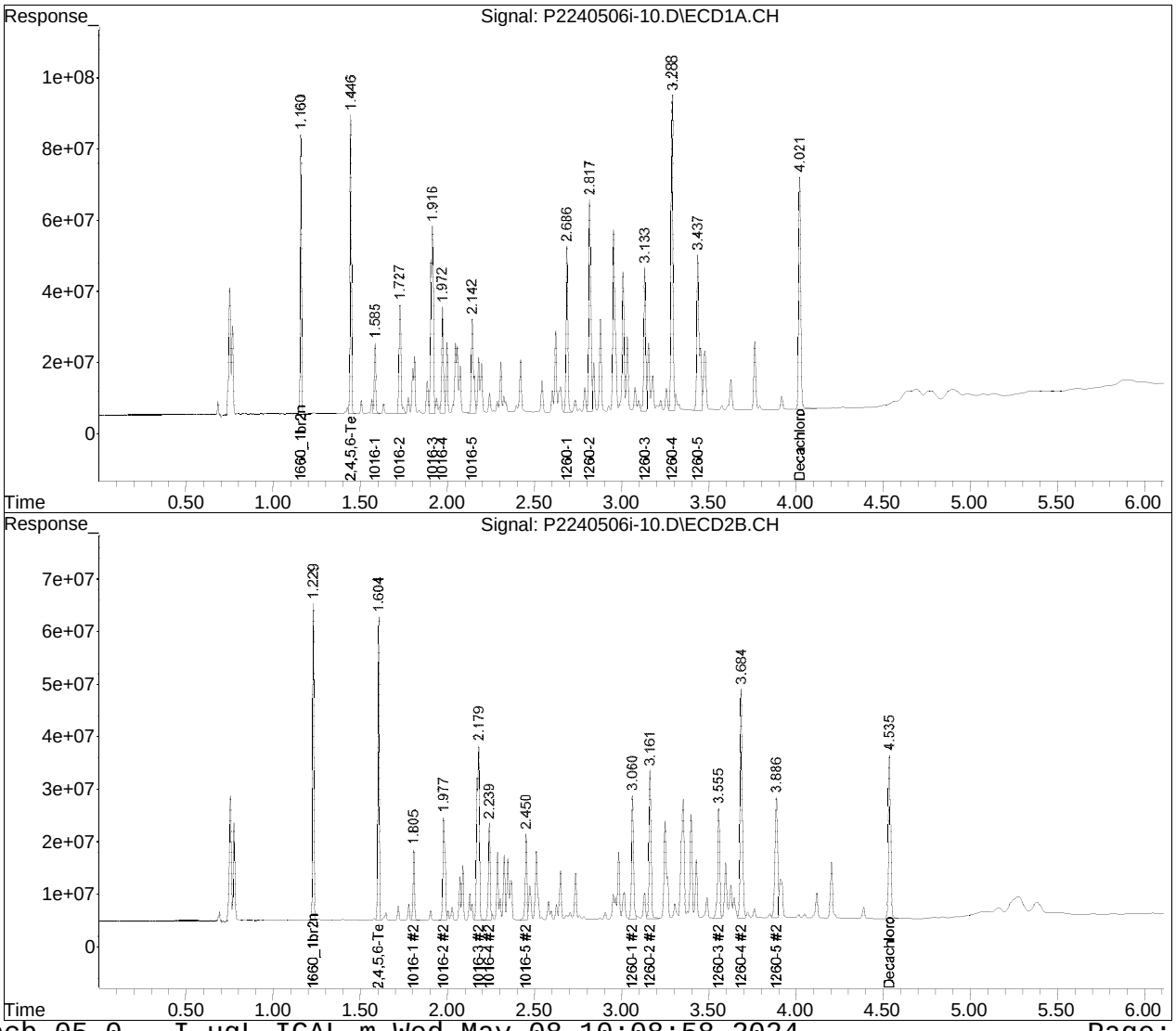
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

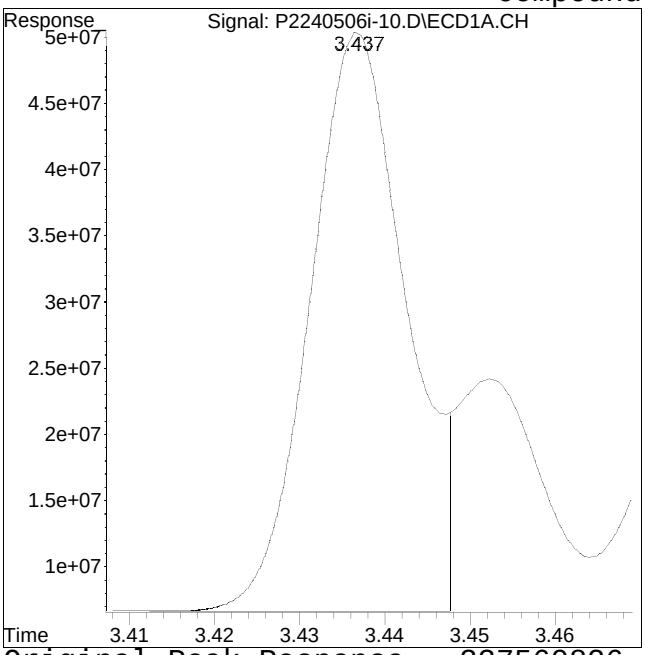
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

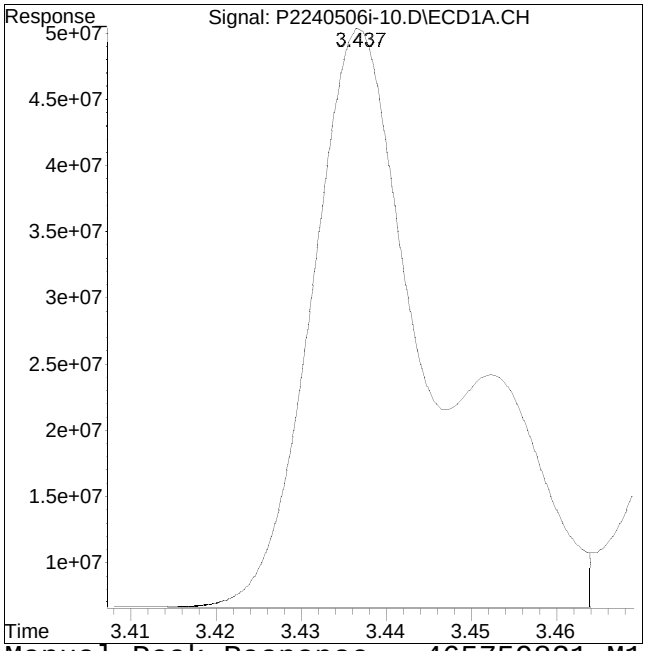


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-10.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:55 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 337560826 Manual Peak Response = 465759821 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	415.5E6	312.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	709.8E6	477.1E6	33.443	30.273
	Spiked Amount	20.000	Range 30 - 150		Recovery =	167.21%#	151.36%#
3) s	Decachlorobi	4.022	4.536	878.0E6	426.7E6	17.644	55.122
	Spiked Amount	20.000	Range 30 - 150		Recovery =	88.22%	275.61%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	175.4E6	121.0E6	434.757	431.996
5) l1	1016-2	1.727	1.978	392.1E6	263.3E6	475.280M1	423.742
6) l1	1016-3	1.917	2.179	836.6E6	534.7E6	496.332	439.704
7) l1	1016-4	1.972	2.239	325.4E6	201.9E6	468.913M3	421.018M3
8) l1	1016-5	2.143	2.450	354.7E6	165.1E6	458.196	386.567
Sum	1016-1			2084.3E6	1285.9E6	2333.478	2103.027
Average	1016-1					466.696	420.605
9) l2	1260-1	2.687	3.061	510.9E6	302.2E6	434.496	385.766
10) l2	1260-2	2.817	3.163	779.2E6	358.7E6	21.109	383.873
11) l2	1260-3	3.133	3.555	486.1E6	279.5E6	438.536	369.268
12) l2	1260-4	3.289	3.685	1064.5E6	561.4E6	55.681	439.112
13) l2	1260-5	3.437	3.887	741.6E6	390.9E6	81.944M1	436.141
Sum	1260-1			3582.3E6	1892.7E6	N.D.	N.D. D
Average	1260-1					206.353	402.832 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

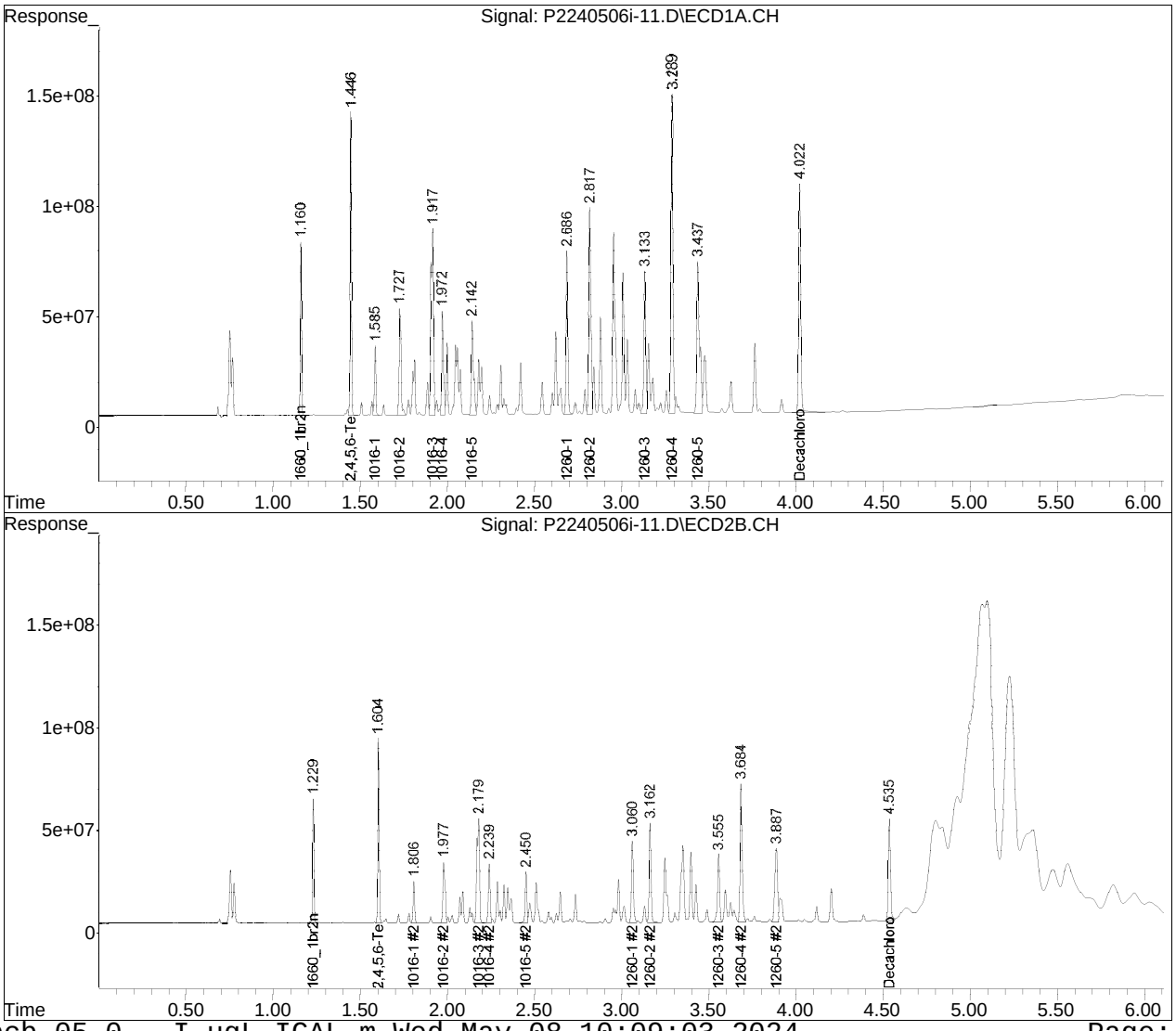
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

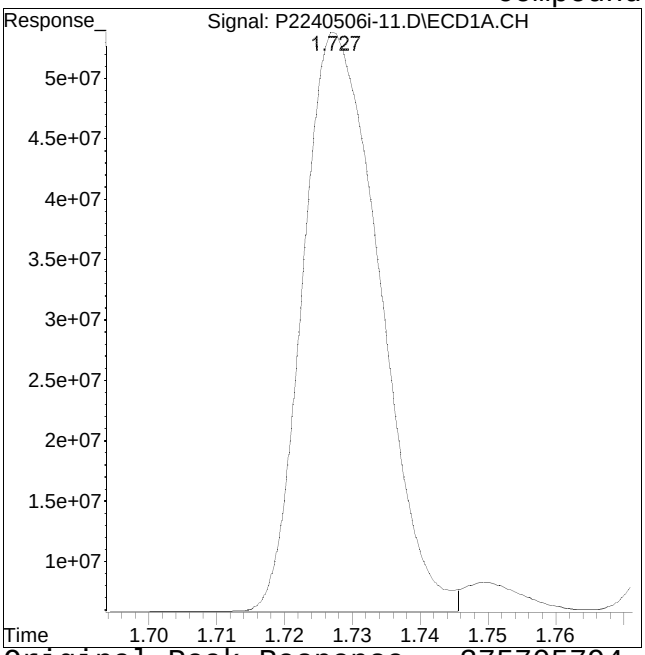
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

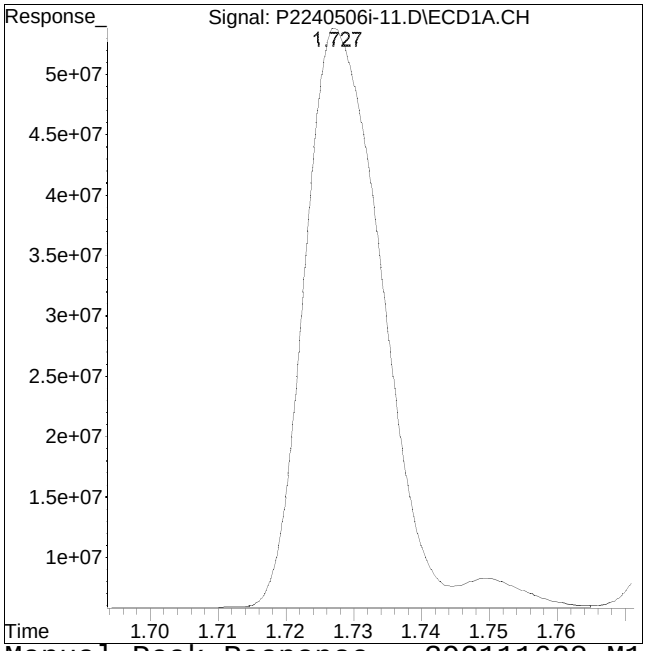


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



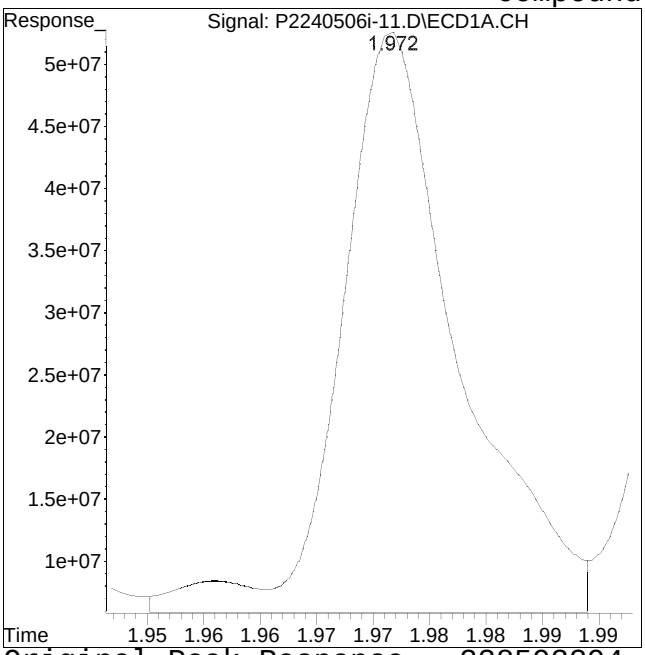


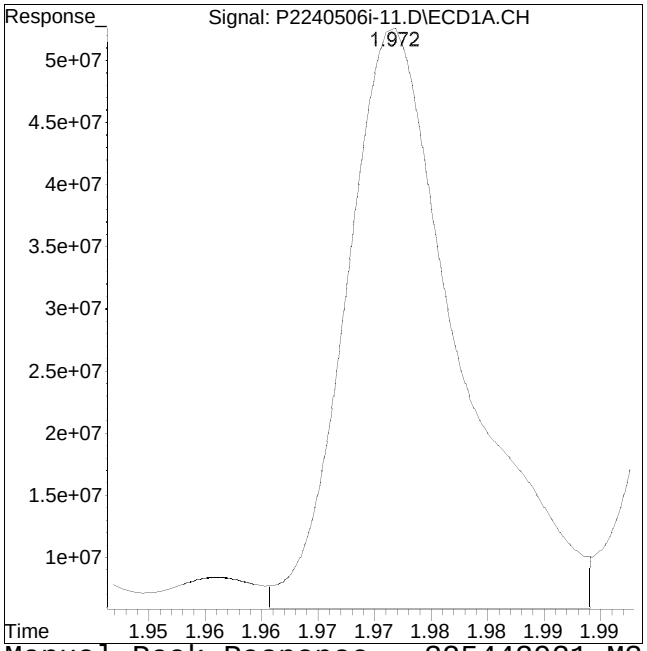
Original Peak Response = 375705794 Manual Peak Response = 392111628 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



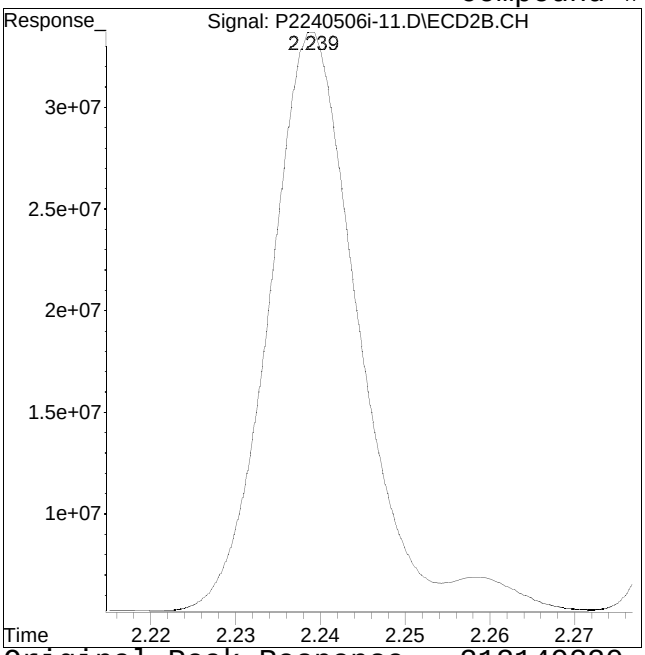


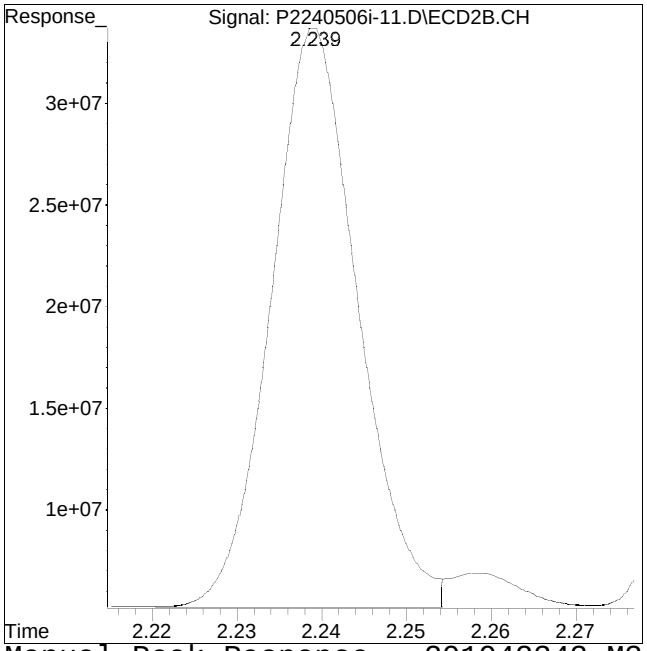
Original Peak Response = 338593394 Manual Peak Response = 325443921 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



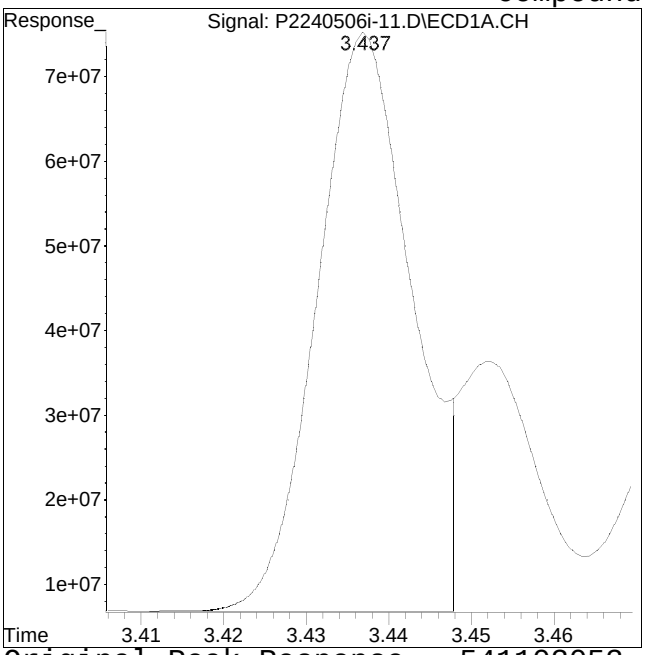


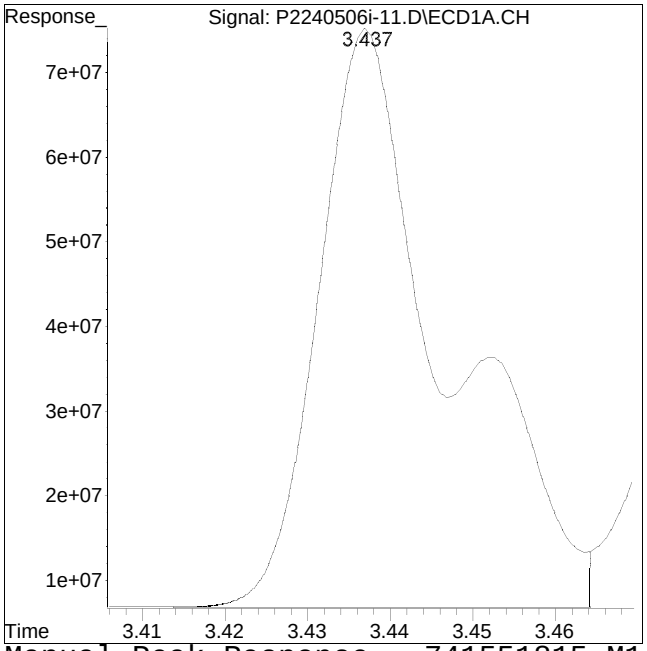
Original Peak Response = 212149220 Manual Peak Response = 201942343 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 541103053 Manual Peak Response = 741551815 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	401.7E6	305.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	1463.5E6	957.9E6	70.673M3	62.850
	Spiked Amount	20.000	Range 30 - 150		Recovery =	353.37%#	314.25%#
3) s	Decachlorobi	4.023	4.535	1761.5E6	817.7E6	42.812	111.103M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	214.06%#	555.51%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	342.3E6	232.3E6	900.980M3	871.969
5) l1	1016-2	1.728	1.978	765.1E6	503.6E6	976.532M1	855.096
6) l1	1016-3	1.917	2.180	1690.8E6	1044.7E6	1038.946M3	900.390
7) l1	1016-4	1.972	2.239	662.4E6	383.2E6	991.931M3	836.439M3
8) l1	1016-5	2.143	2.451	720.0E6	317.8E6	978.184	797.334
Sum	1016-1			4180.7E6	2481.6E6	4886.574	4261.228
Average	1016-1					977.315	852.246
9) l2	1260-1	2.688	3.061	1033.5E6	527.7E6	939.787	721.882
10) l2	1260-2	2.817	3.162	1568.2E6	627.9E6	54.345M3	720.794M4
11) l2	1260-3	3.134	3.555	996.8E6	522.5E6	959.541	744.967M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.290	3.685	2155.4E6	1058.3E6	141.797M3	867.797M4
13) l2	1260-5	3.438	3.887	1531.1E6	741.7E6	212.374	868.512M4
Sum	1260-1			7285.0E6	3478.2E6	N.D.	N.D. D
Average	1260-1					461.569	784.790 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

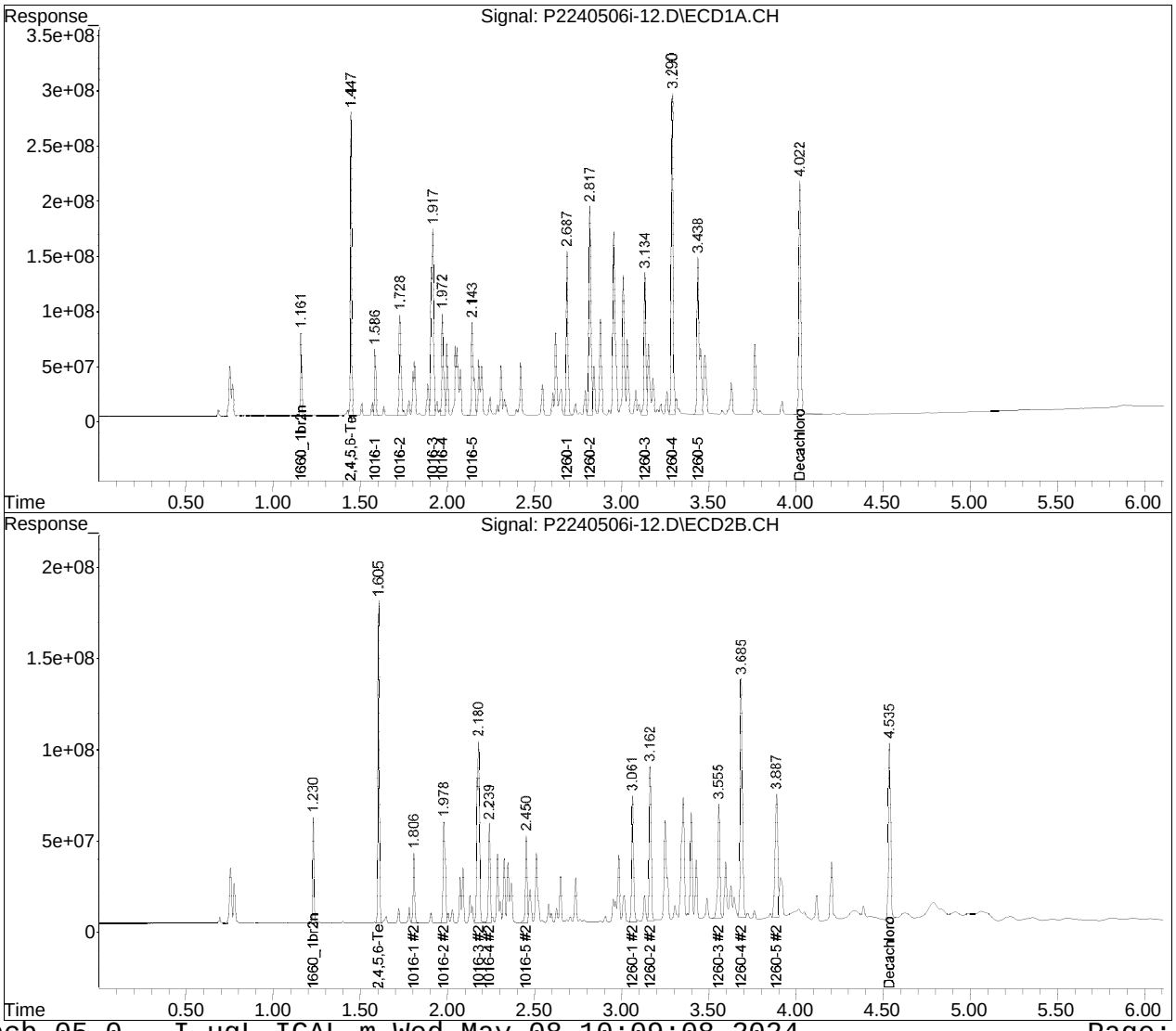
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

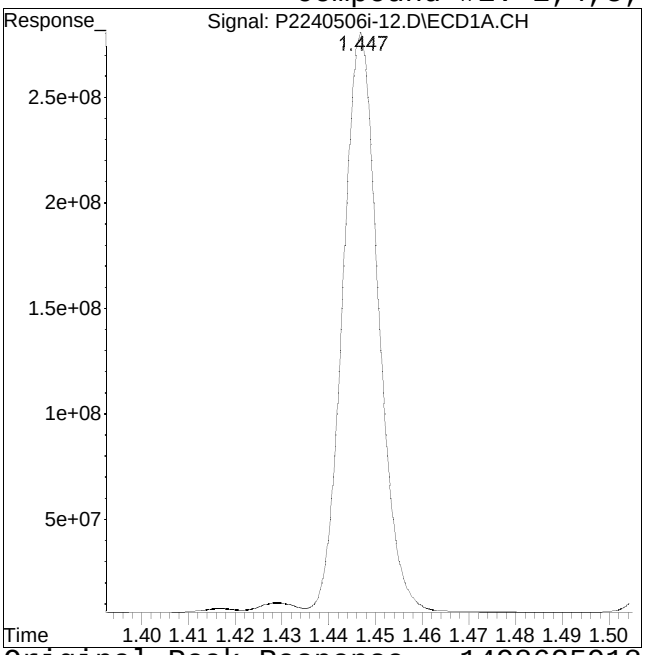
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

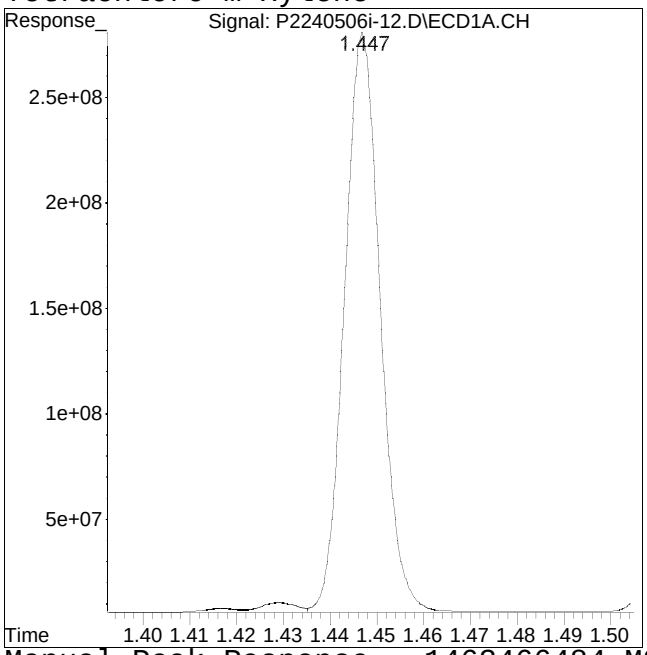


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



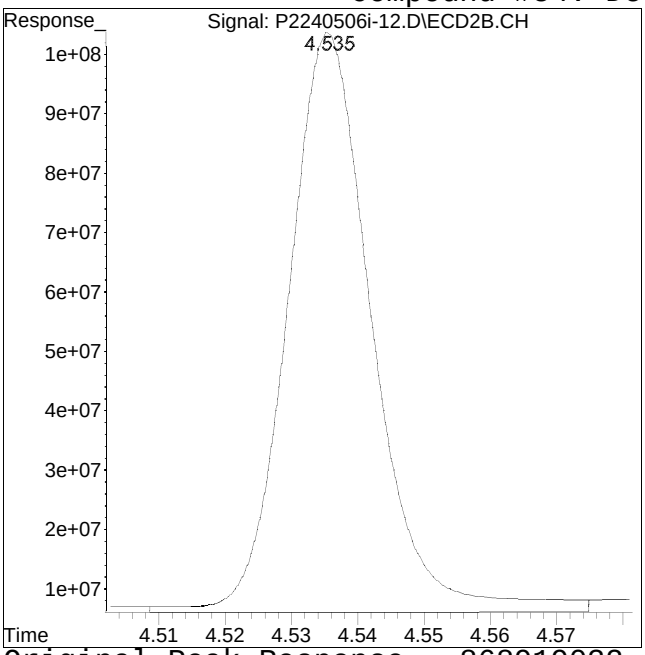


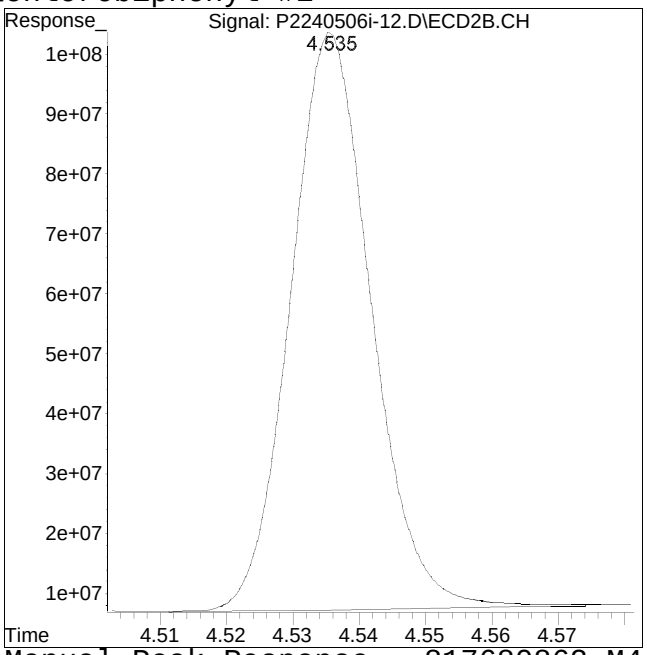
Original Peak Response = 1498625918 Manual Peak Response = 1463466484 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #54: Decachlorobiphenyl #2



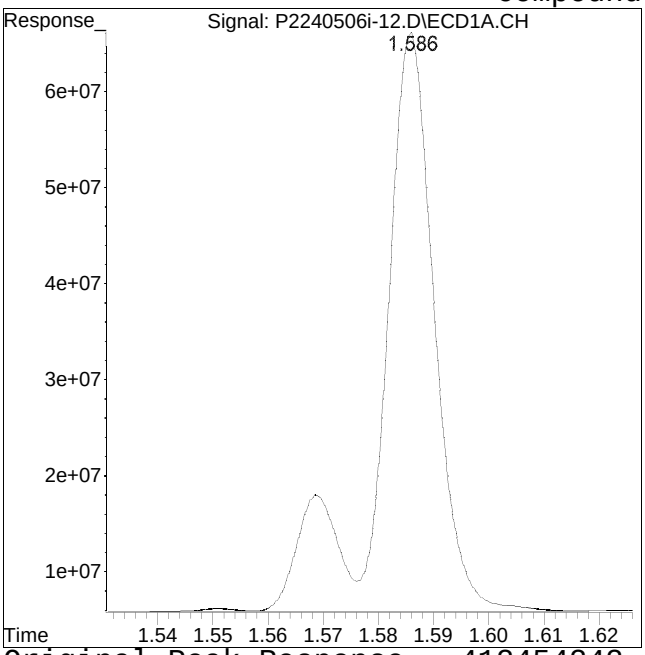


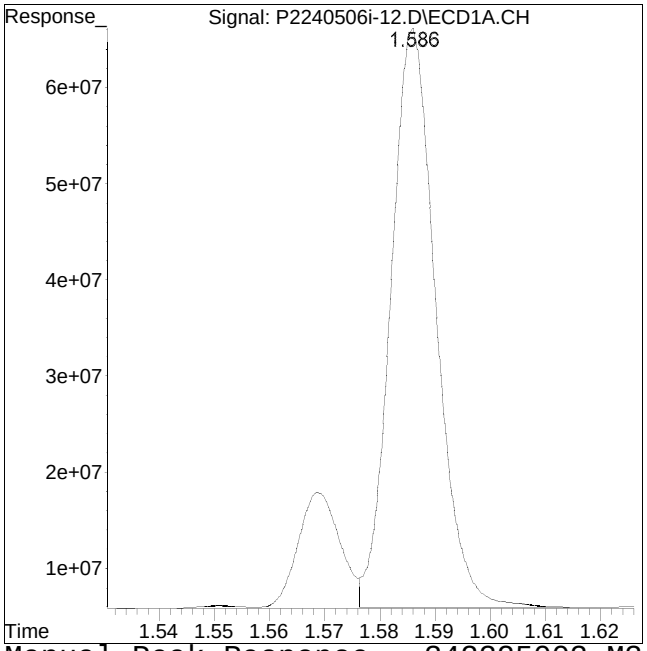
Original Peak Response = 868919032 Manual Peak Response = 817680862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #4: 1016-1



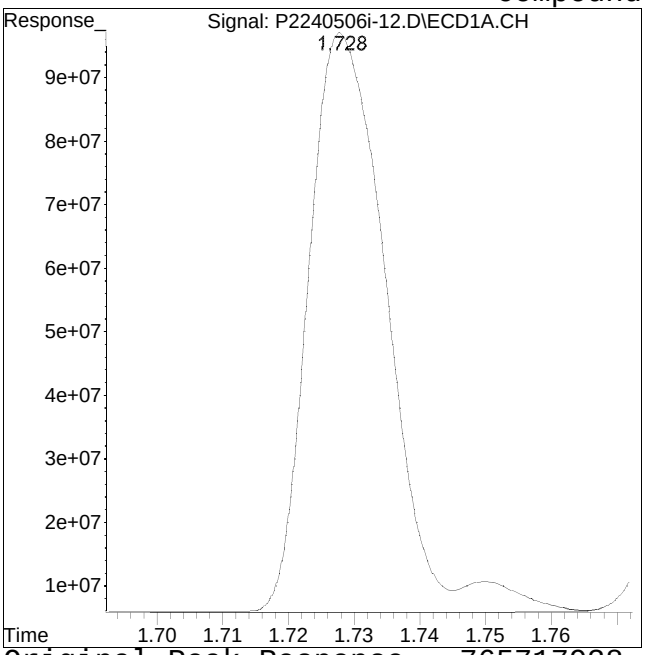


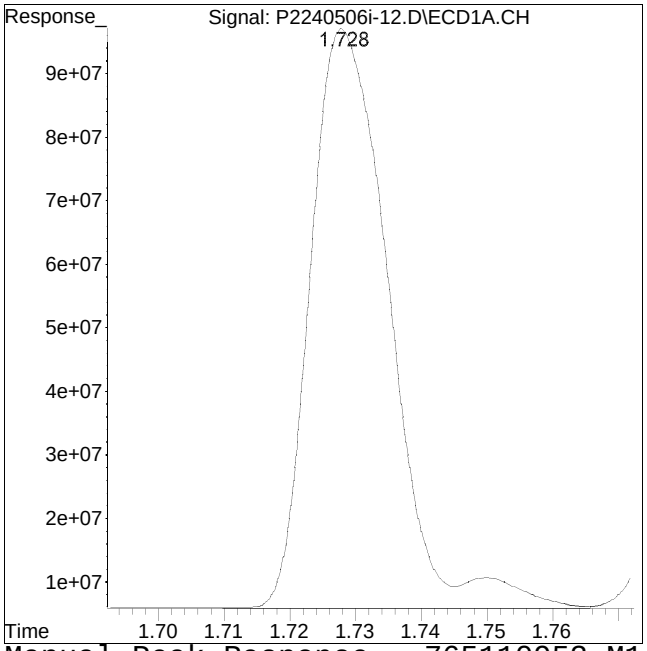
Original Peak Response = 412454242 Manual Peak Response = 342325003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



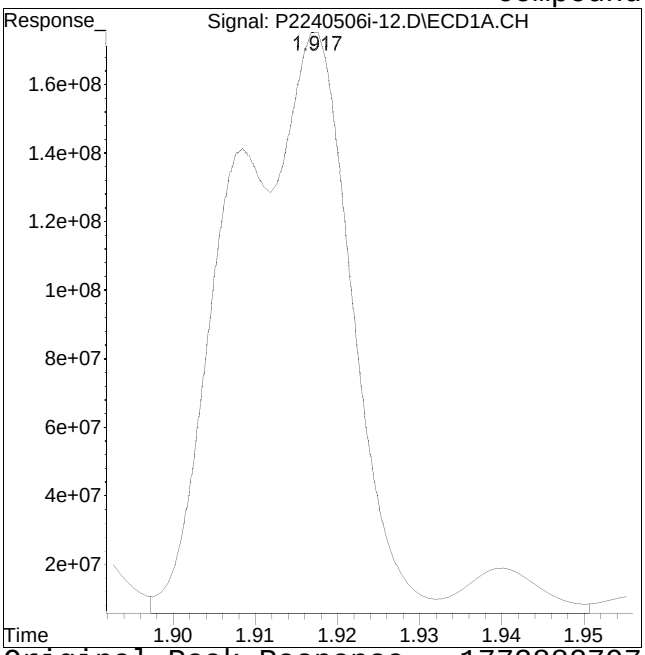


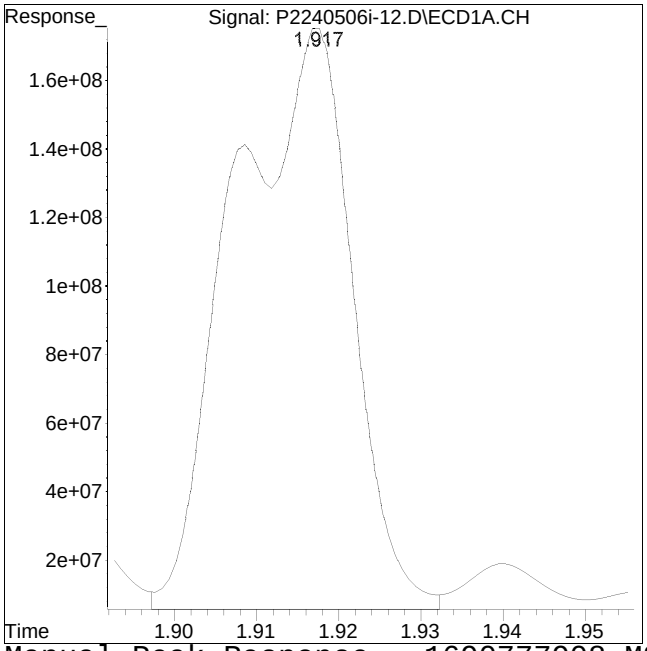
Original Peak Response = 765717938 Manual Peak Response = 765110953 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #6: 1016-3



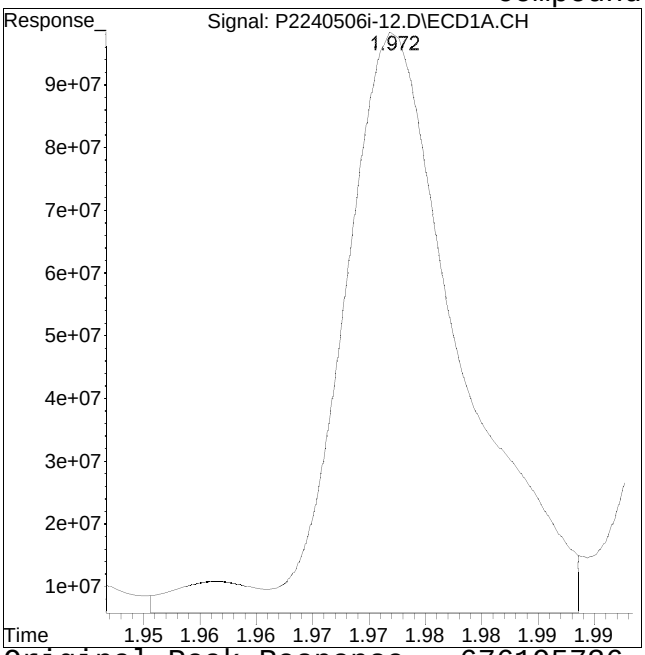


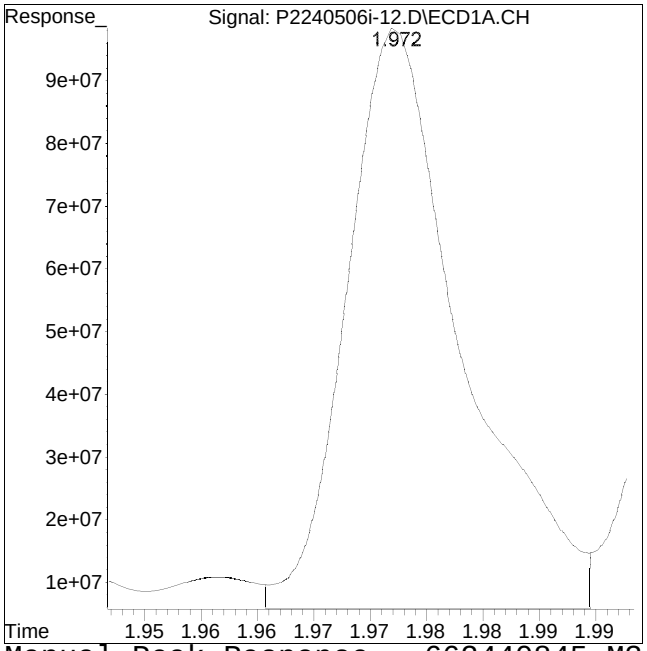
Original Peak Response = 1773882797 Manual Peak Response = 1690777908 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



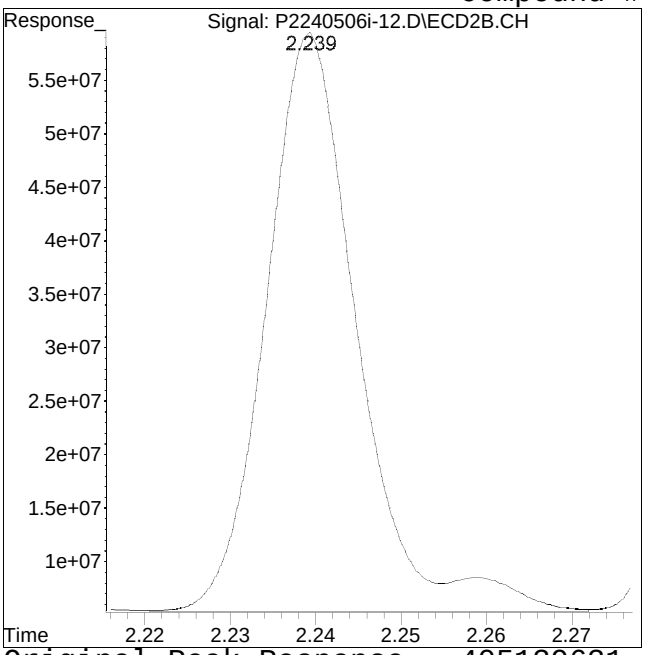


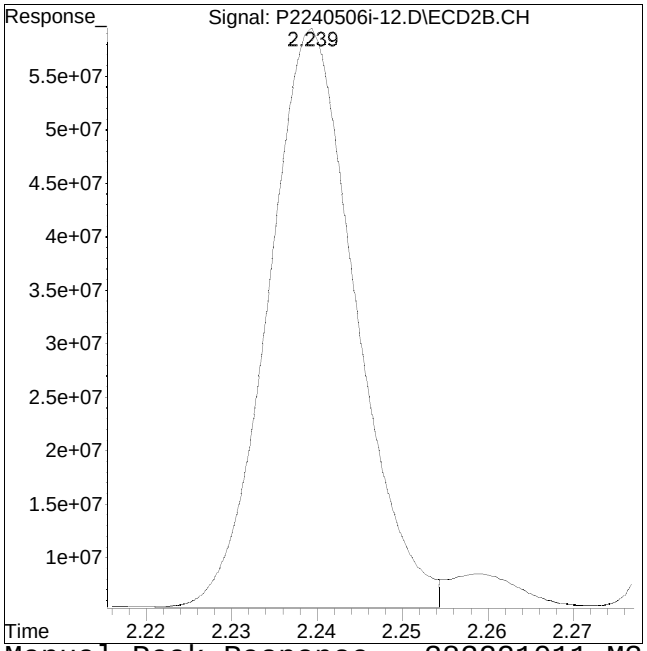
Original Peak Response = 676195736 Manual Peak Response = 662440845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



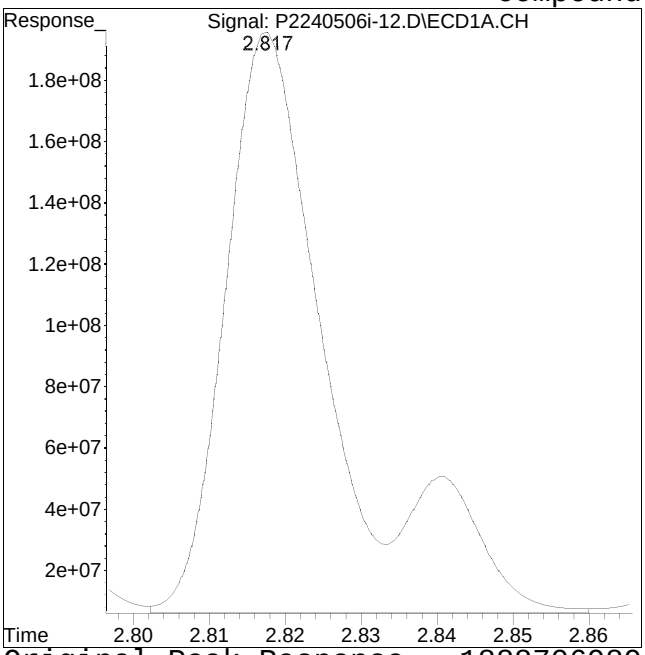


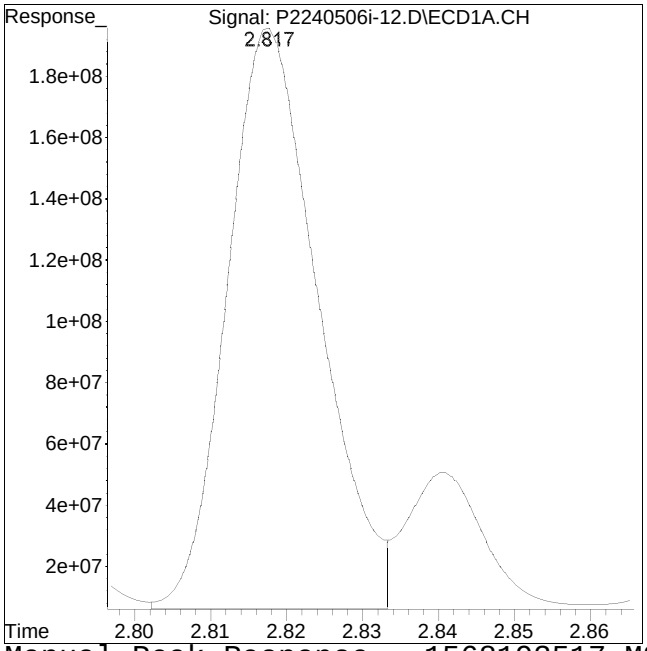
Original Peak Response = 405139631 Manual Peak Response = 383221011 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #10: 1260-2



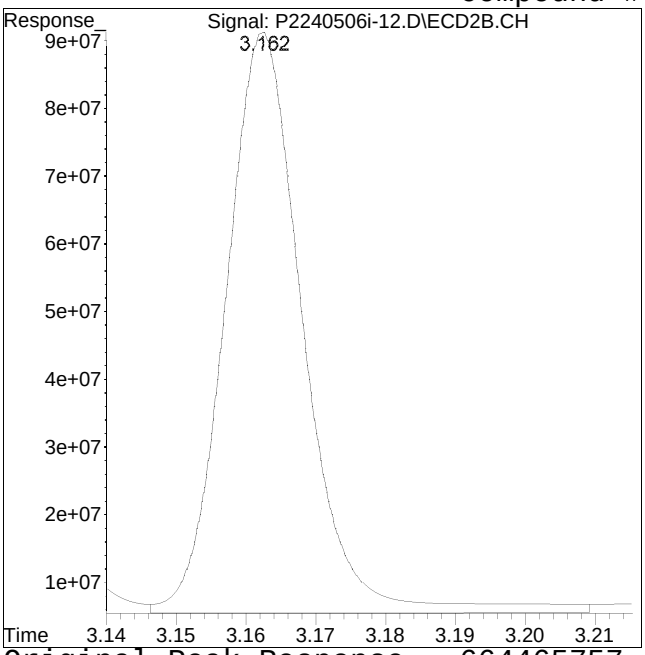


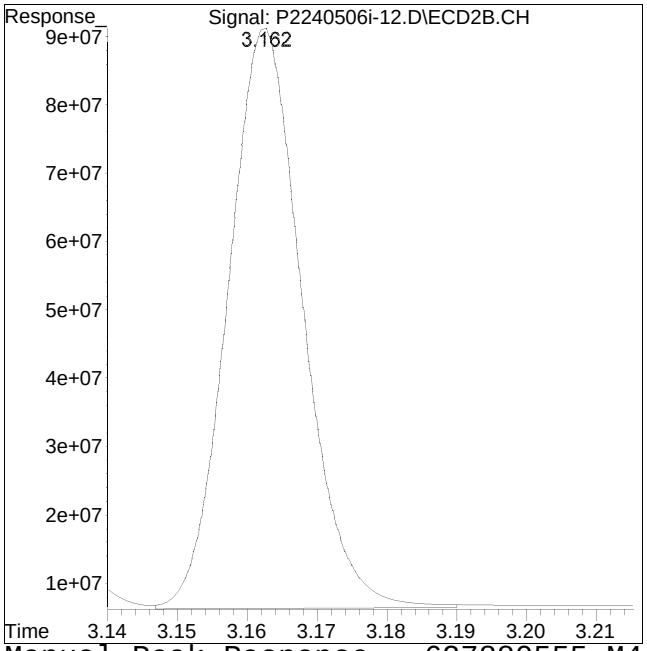
Original Peak Response = 1888706989 Manual Peak Response = 1568193517 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #61: 1260-2 #2



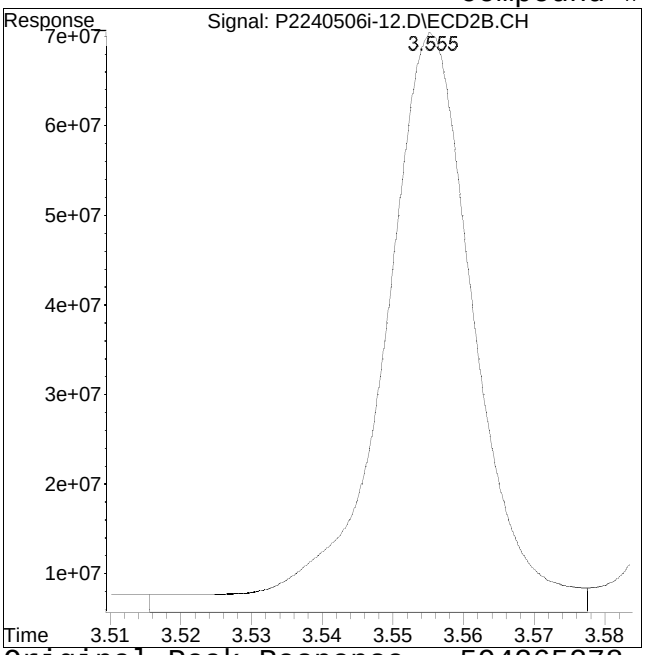


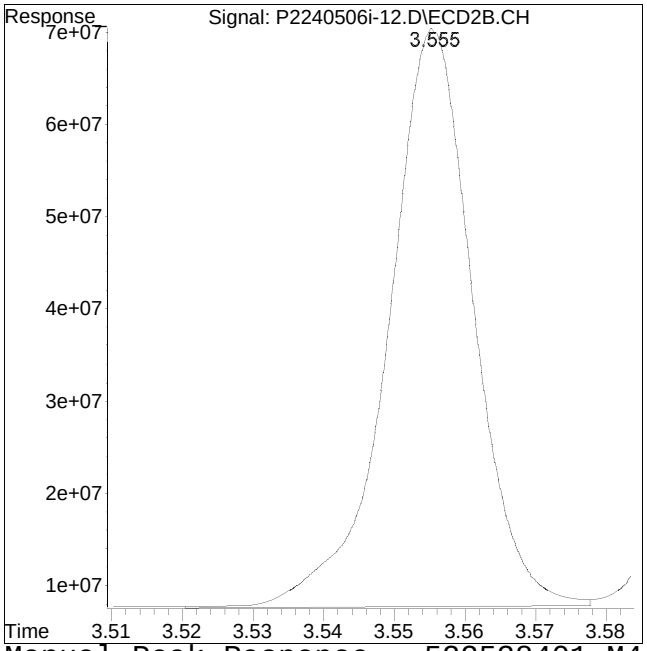
Original Peak Response = 664465757 Manual Peak Response = 627880555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #62: 1260-3 #2



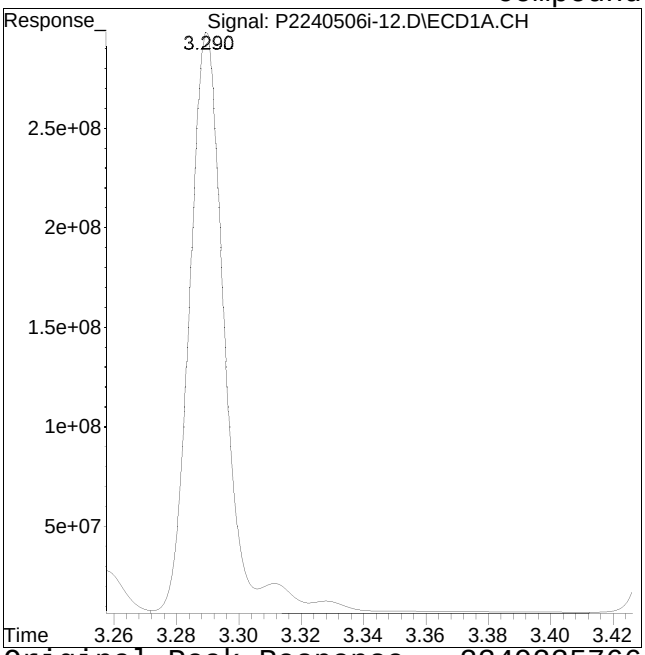


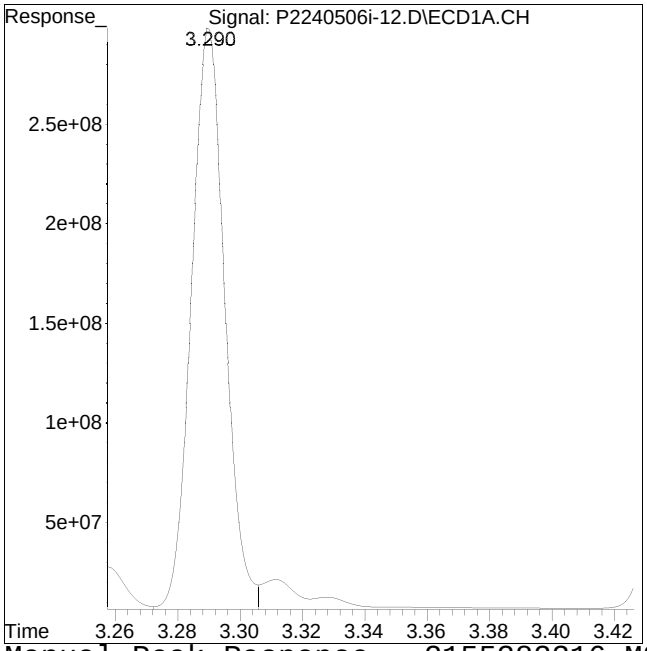
Original Peak Response = 594265278 Manual Peak Response = 522538401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #12: 1260-4



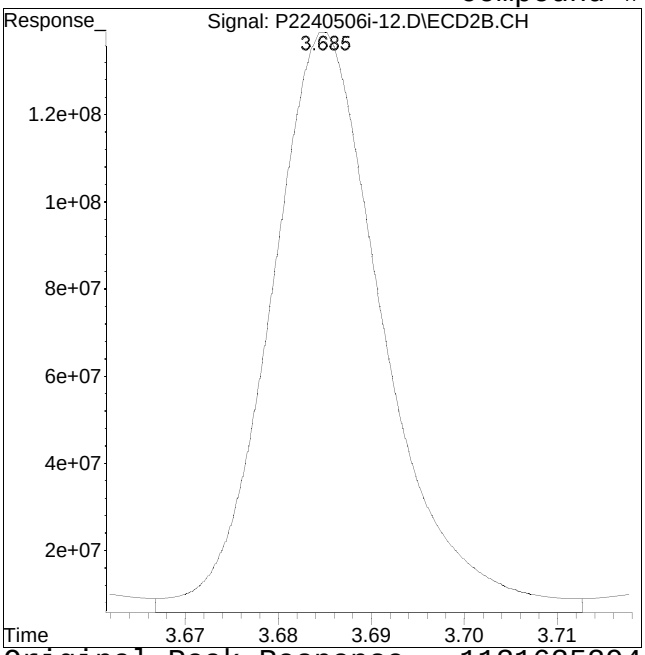


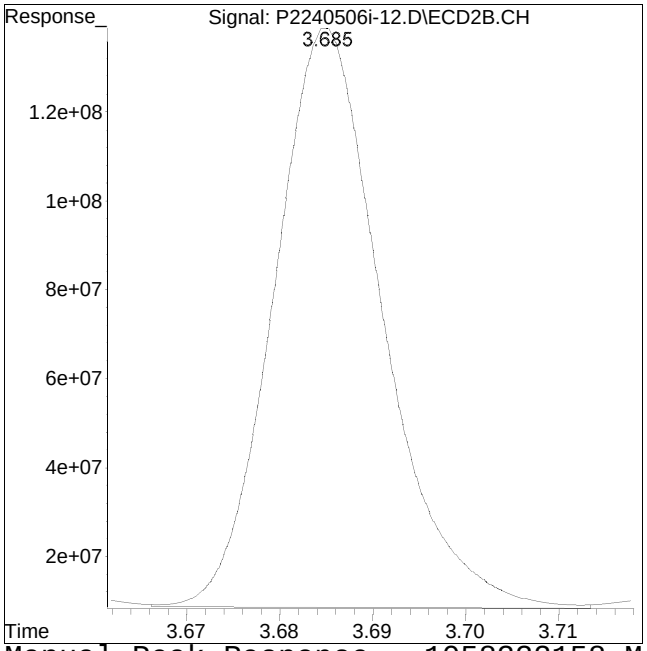
Original Peak Response = 2349235766 Manual Peak Response = 2155382316 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #63: 1260-4 #2



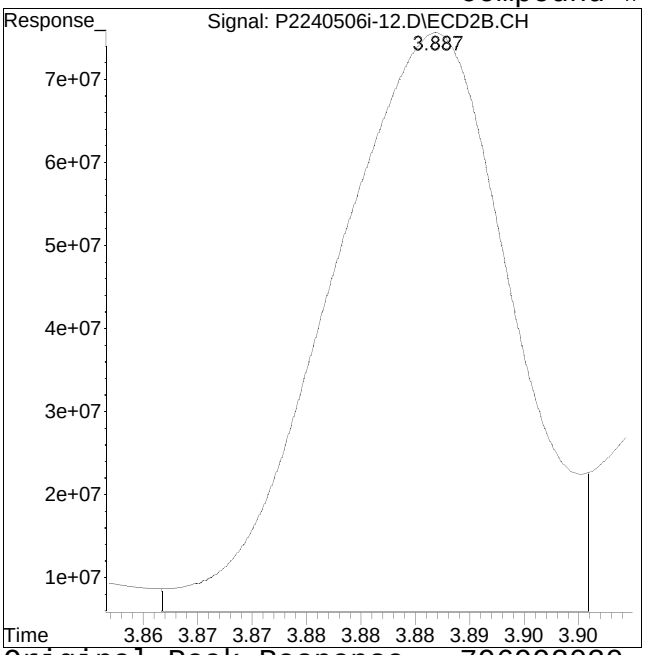


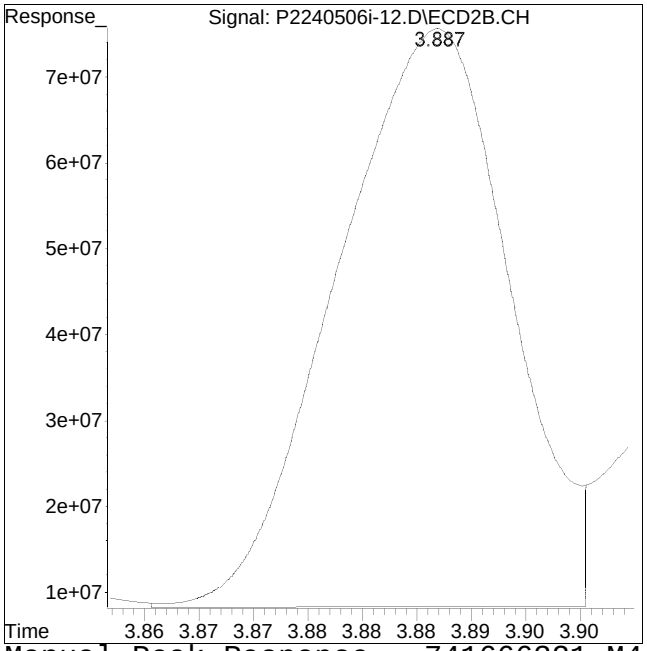
Original Peak Response = 1131625294 Manual Peak Response = 1058332158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #64: 1260-5 #2





Original Peak Response = 796992030 Manual Peak Response = 741666321 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	90	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.427	-8.8	78	0.00
3	s	Decachlorobiphenyl		0.847	1.620	-91.3#	142	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	99	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
24	l6	1242-1		0.019	0.020	-5.3	108	0.00
25	l6	1242-2		0.040	0.044	-10.0	109	0.00
26	l6	1242-3		0.087	0.093	-6.9	108	0.00
27	l6	1242-4		0.035	0.037	-5.7	108	0.00
28	l6	1242-5		0.027	0.030	-11.1	113	0.00
29	l9	1268-1		0.181	0.210	-16.0	117	0.00
30	l9	1268-2		0.167	0.189	-13.2	114	0.00
31	l9	1268-3		0.133	0.140	-5.3	106	0.00
32	l9	1268-4		0.058	0.060	-3.4	103	0.00
33	l9	1268-5		0.392	0.394	-0.5	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.312	-6.5	79	0.00
3	s	Decachlorobiphenyl		0.580	1.038	-79.0#	141	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	104	0.00
24	l6	1242-1		0.017	0.018	-5.9	110	0.00
25	l6	1242-2		0.038	0.042	-10.5	114	0.00
26	l6	1242-3		0.073	0.081	-11.0	116	0.00
27	l6	1242-4		0.029	0.033	-13.8	116	0.00
28	l6	1242-5		0.022	0.024	-9.1	114	0.00
29	l9	1268-1		0.119	0.148	-24.4#	130	0.00
30	l9	1268-2		0.110	0.132	-20.0#	124	0.00
31	l9	1268-3		0.090	0.100	-11.1	115	0.00
32	l9	1268-4		0.039	0.044	-12.8	117	0.00
33	l9	1268-5		0.245	0.259	-5.7	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	106	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
14) i	2154_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	344.8E6	241.7E6	17.413M3	17.048
	Spiked Amount	20.000	Range 30 - 150		Recovery =	87.06%	85.24%
3) s	Decachlorobi	4.022	4.535	783.1E6	382.4E6	61.211	57.275
	Spiked Amount	20.000	Range 30 - 150		Recovery =	306.06%#	286.38%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.586	1.807	75468361	53100596	267.907	264.555
25) l6	1242-2	1.728	1.978	164.8E6	119.6E6	271.401	273.942
26) l6	1242-3	1.917	2.179	351.7E6	233.7E6	268.799	279.373
27) l6	1242-4	1.972	2.239	140.3E6	93849056	267.894M3	278.888
28) l6	1242-5	2.325	2.626	114.8E6	68908851	281.749	274.508
Sum	1242-1			847.0E6	569.2E6	1357.749	1371.266
Average	1242-1					271.550	274.253
29) l9	1268-1	3.453	3.880	794.0E6	427.1E6	291.052	312.719M4
30) l9	1268-2	3.474	3.906	715.4E6	378.4E6	284.372	299.523M4
31) l9	1268-3	3.576	4.048	529.1E6	286.9E6	263.733	277.288M4
32) l9	1268-4	3.764	4.201	225.4E6	126.4E6	255.990	281.014M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	3.918	4.386	1486.1E6	746.4E6	250.706	264.852M4
Sum	1268-1			3750.0E6	1965.2E6	1345.852	1435.397
Average	1268-1					269.170	287.079
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

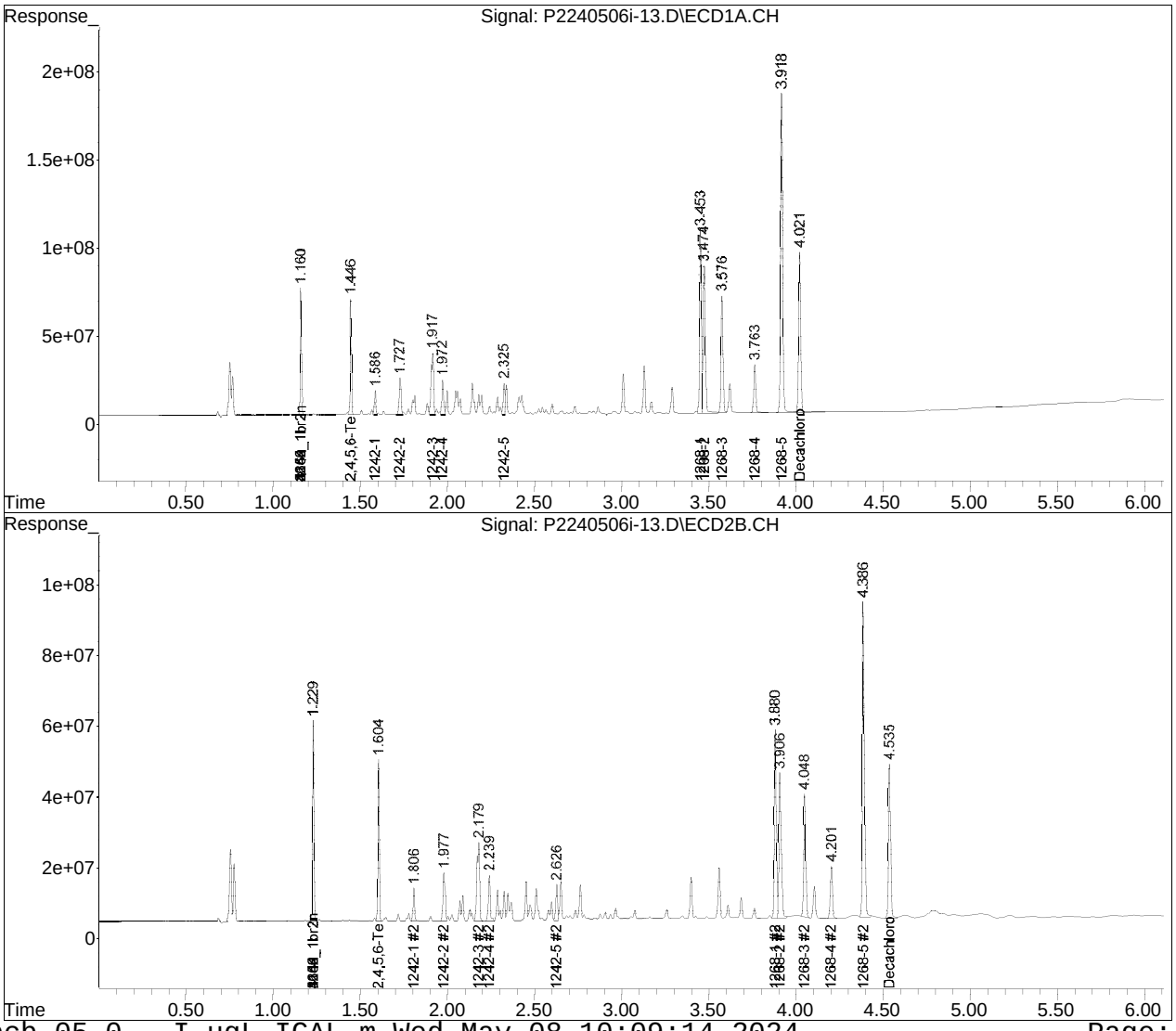
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

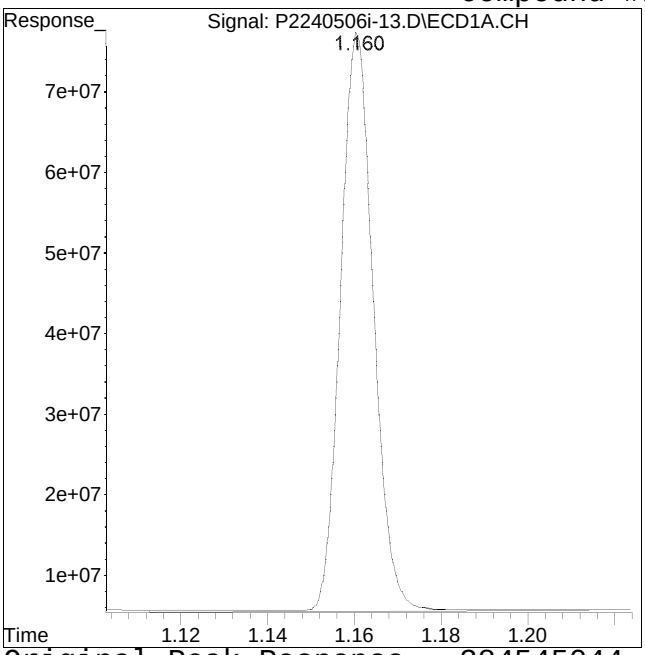
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

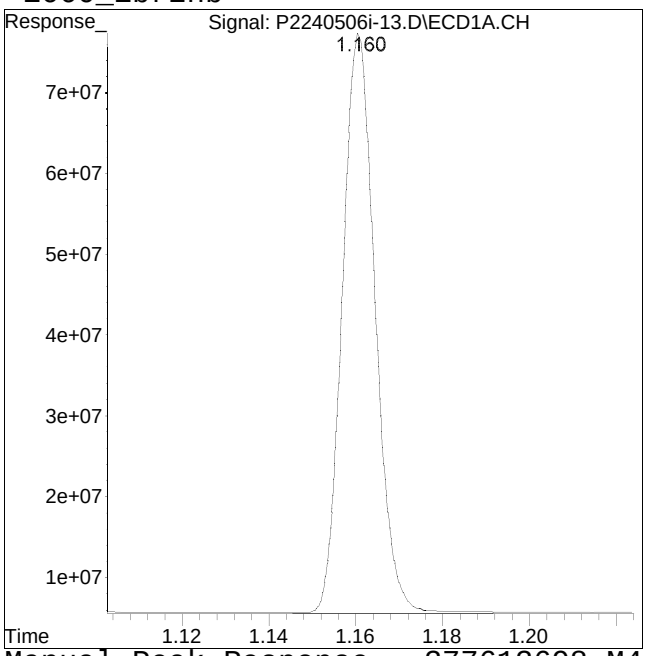


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #1: 1660_1br2nb



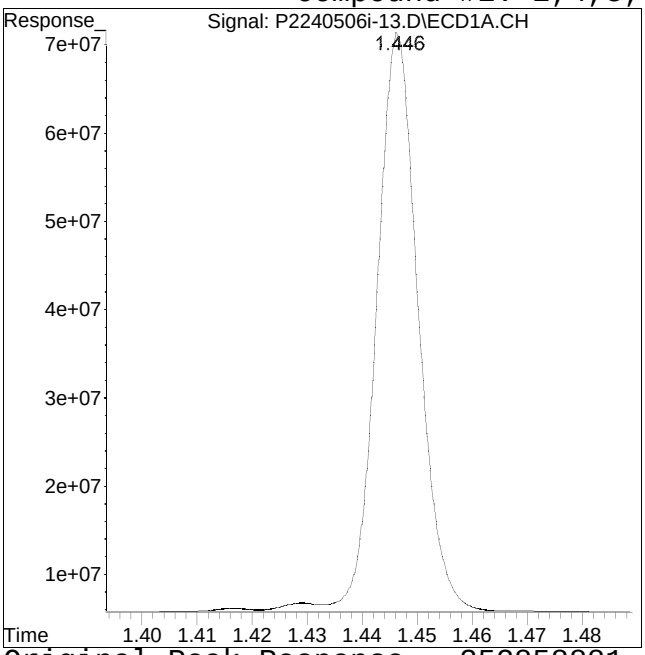


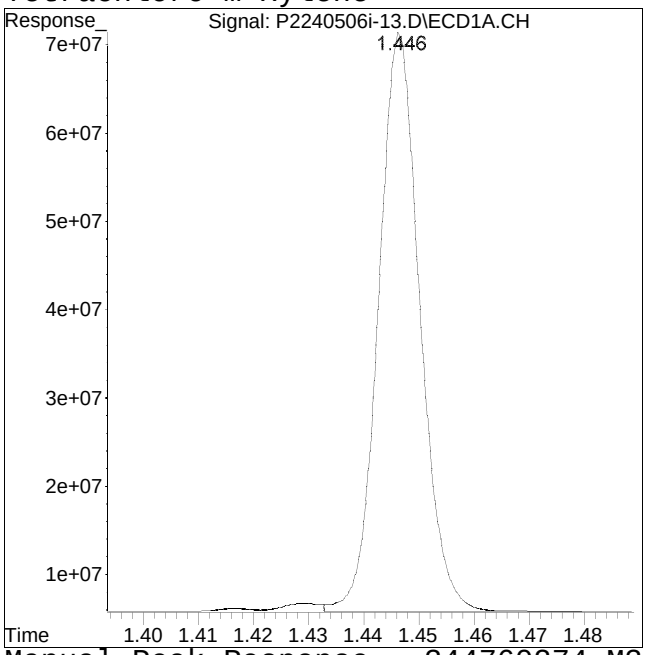
Original Peak Response = 384545044 Manual Peak Response = 377613698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



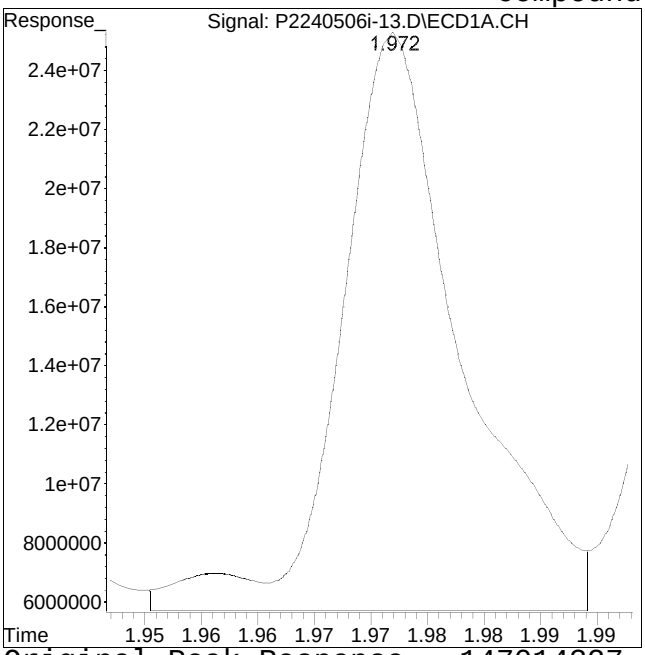


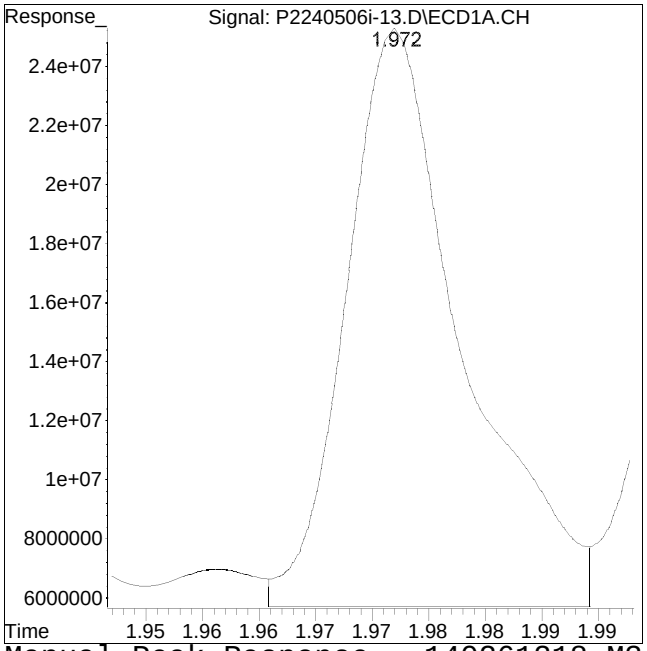
Original Peak Response = 352858881 Manual Peak Response = 344760274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #27: 1242-4



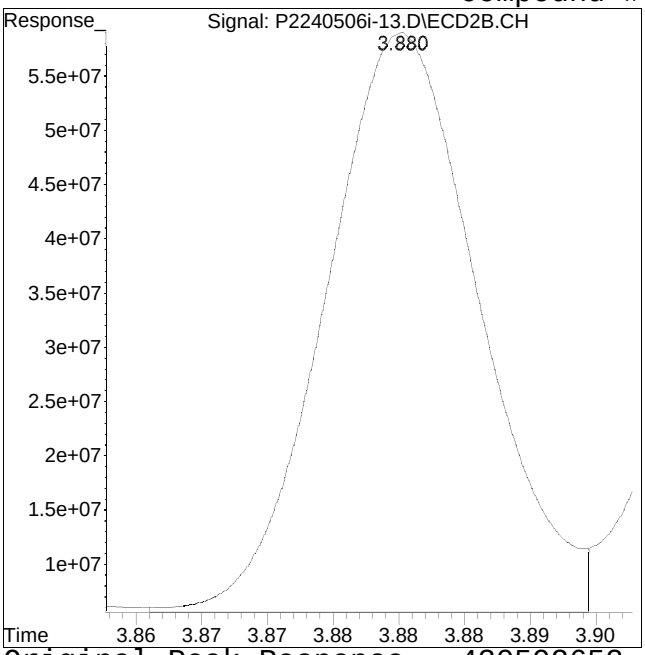


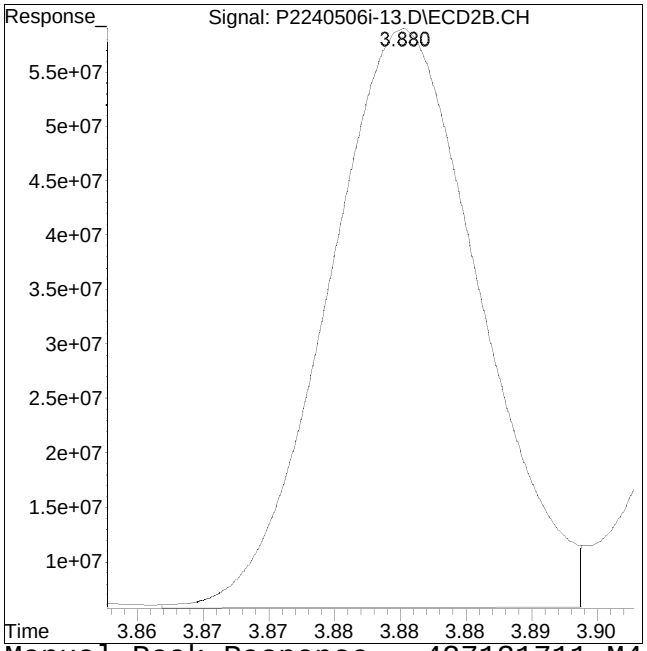
Original Peak Response = 147014327 Manual Peak Response = 140261218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #80: 1268-1 #2



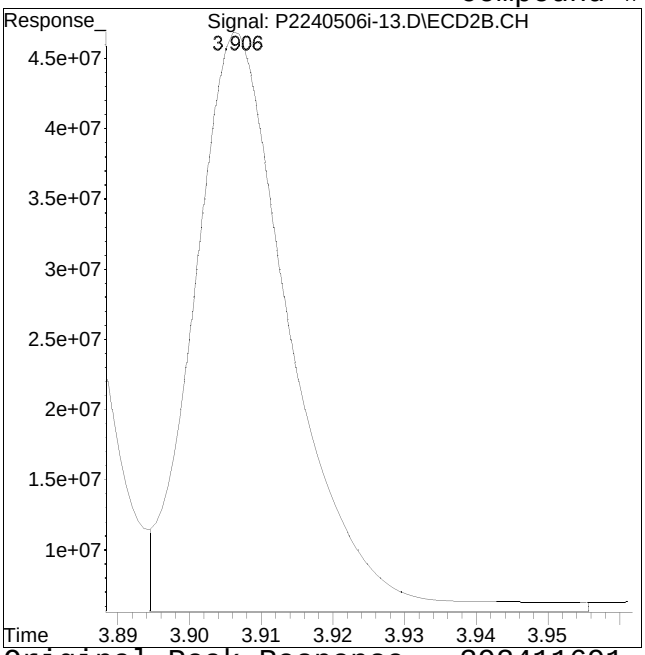


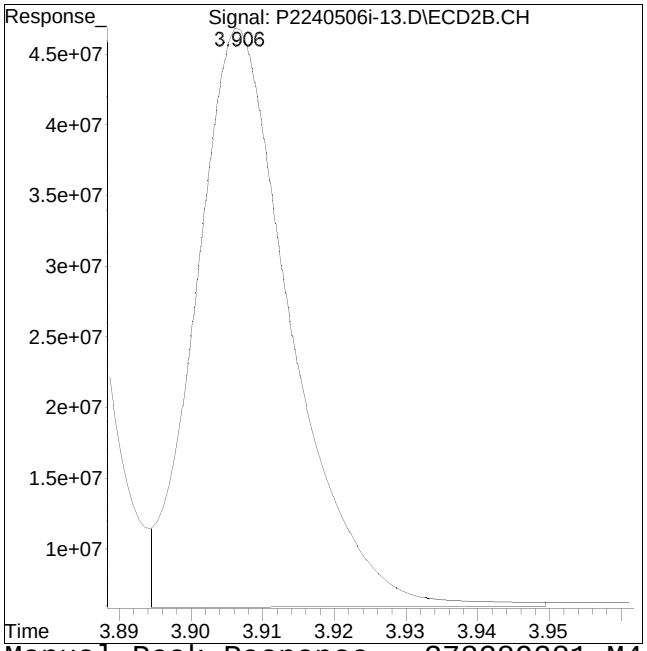
Original Peak Response = 430592652 Manual Peak Response = 427131711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #81: 1268-2 #2



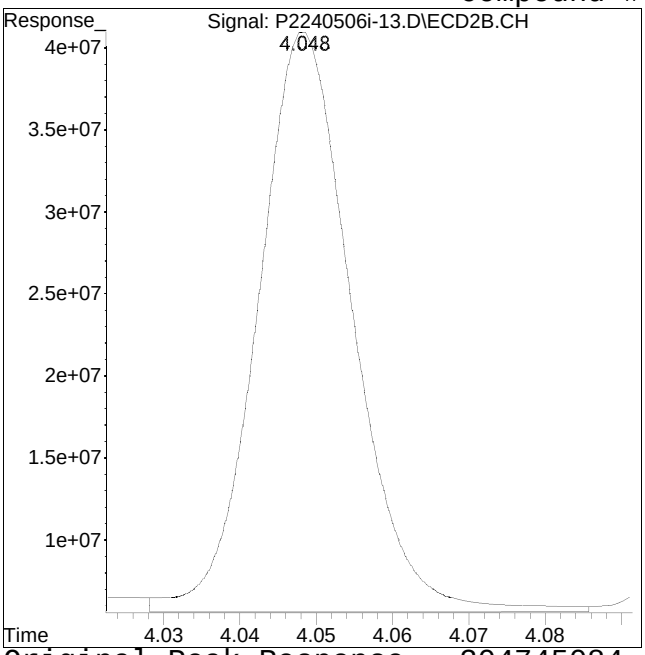


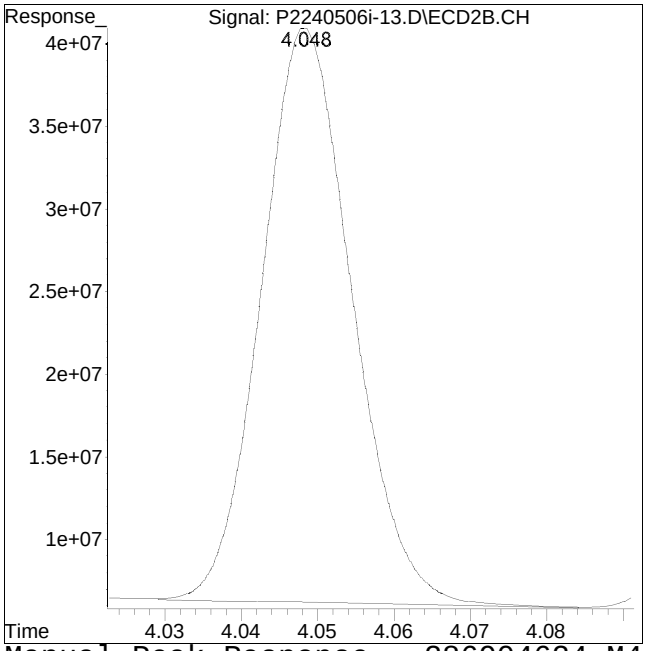
Original Peak Response = 392411691 Manual Peak Response = 378389281 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #82: 1268-3 #2



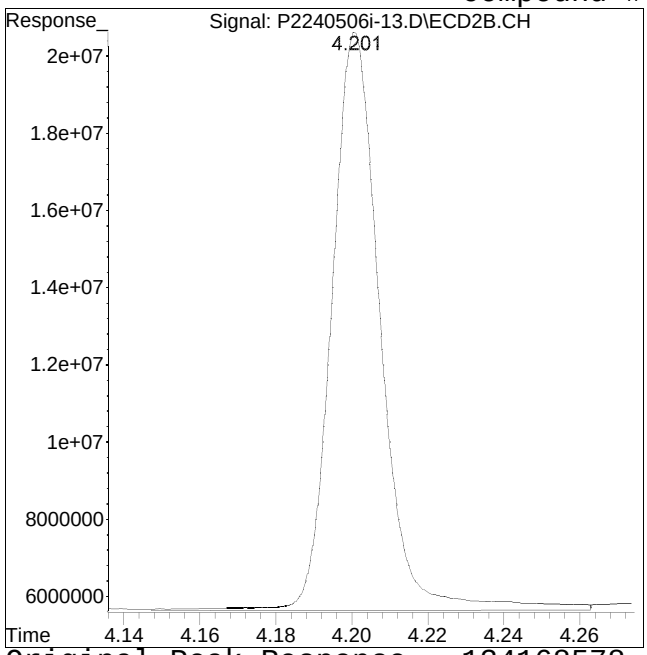


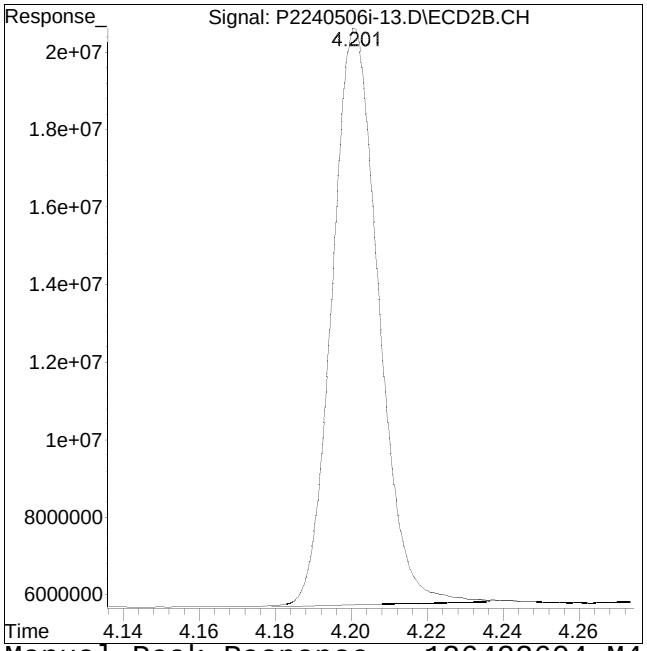
Original Peak Response = 304745084 Manual Peak Response = 286904624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #83: 1268-4 #2



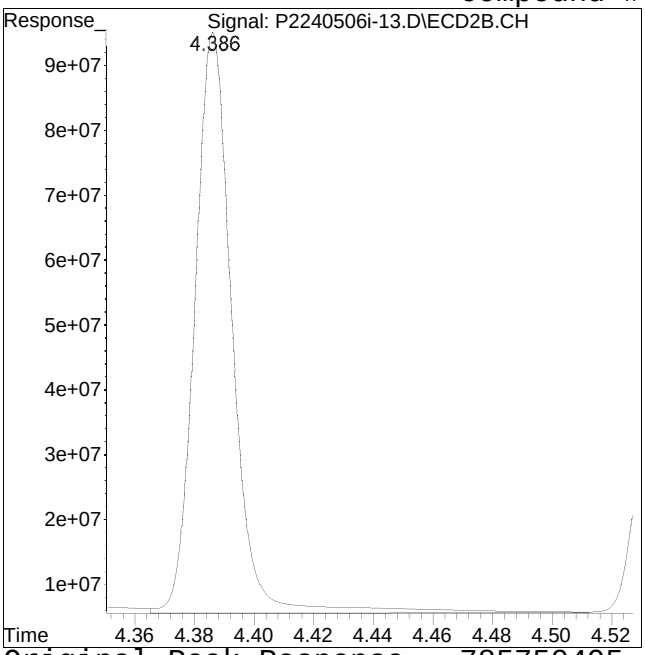


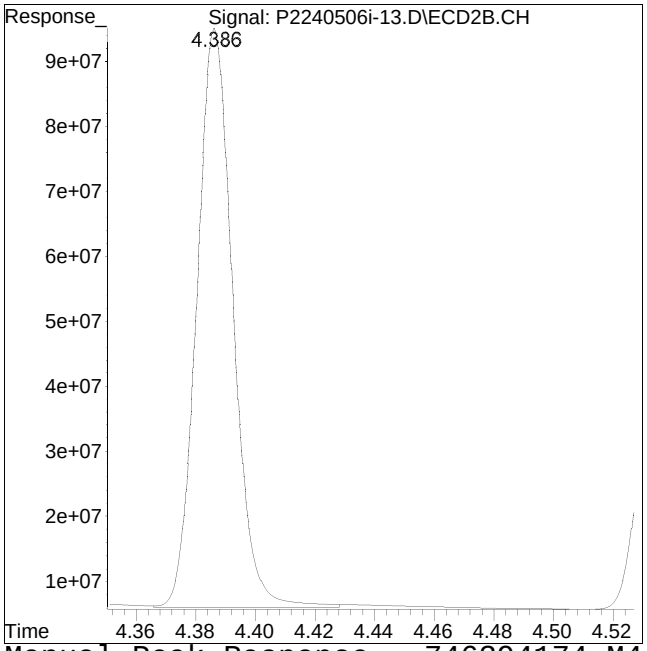
Original Peak Response = 134168578 Manual Peak Response = 126422604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #84: 1268-5 #2





Original Peak Response = 785750495 Manual Peak Response = 746394174 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	86	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.359	-3.7	71	0.00
3	s	Decachlorobiphenyl		0.847	0.985	-16.3	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	95	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	96	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	91	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.026	0.028	-7.7	101	0.00
42	l5	1232-2		0.024	0.023	4.2	91	0.00
43	l5	1232-3		0.050	0.048	4.0	91	0.00
44	l5	1232-4		0.020	0.020	0.0	93	0.00
45	l5	1232-5		0.015	0.014	6.7	92	0.00
46	l8	1262-1		0.070	0.072	-2.9	97	0.00
47	l8	1262-2		0.091	0.091	0.0	95	0.00
48	l8	1262-3		0.079	0.078	1.3	94	0.00
49	l8	1262-4		0.160	0.154	3.8	91	0.00
50	l8	1262-5		0.050	0.049	2.0	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.231	0.1	73	0.00
3	s	Decachlorobiphenyl		0.580	0.649	-11.9	86	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00
41	l5	1232-1		0.025	0.026	-4.0	108	0.00
42	l5	1232-2		0.025	0.024	4.0	100	0.00
43	l5	1232-3		0.045	0.043	4.4	99	0.00
44	l5	1232-4		0.018	0.017	5.6	100	0.00
45	l5	1232-5		0.013	0.011	15.4	91	0.00
46	l8	1262-1		0.049	0.047	4.1	99	0.00
47	l8	1262-2		0.065	0.062	4.6	99	0.00
48	l8	1262-3		0.059	0.057	3.4	100	0.00
49	l8	1262-4		0.110	0.105	4.5	99	0.00
50	l8	1262-5		0.039	0.039	0.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19 l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20 l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21 l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22 l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
24 l6	1242-1	0.019	0.000	100.0#	0#	-1.58#
25 l6	1242-2	0.040	0.000	100.0#	0#	-1.73#
26 l6	1242-3	0.087	0.000	100.0#	0#	-1.91#
27 l6	1242-4	0.035	0.000	100.0#	0#	-1.97#
28 l6	1242-5	0.027	0.000	100.0#	0#	-2.32#
29 l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30 l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31 l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32 l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33 l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36 l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37 l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38 l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39 l7	1248-5	0.050	0.000	100.0#	0#	-2.34#

Signal #2

4 l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5 l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6 l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7 l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8 l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9 l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10 l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11 l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
14) i	2154_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	313.7E6	221.8E6	16.592M3	15.985
	Spiked Amount	20.000	Range 30 - 150		Recovery =	82.96%	79.92%
3) s	Decachlorobi	4.023	4.536	454.7E6	233.8E6	37.216	35.778
	Spiked Amount	20.000	Range 30 - 150		Recovery =	186.08%#	178.89%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.587	1.806	100.3E6	72884282	266.130	260.213M4
42) l5	1232-2	1.729	1.978	82707706	67314394	238.896	241.942
43) l5	1232-3	1.918	2.180	173.9E6	120.8E6	240.092	239.618
44) l5	1232-4	1.973	2.240	71566461	48899768	243.151	239.904
45) l5	1232-5	2.327	2.627	51913229	32015172	240.426	218.810
Sum	1232-1			480.3E6	341.9E6	1228.696	1200.487
Average	1232-1					245.739	240.097
46) l8	1262-1	2.818	3.163	258.8E6	131.1E6	254.785	239.557
47) l8	1262-2	3.010	3.397	327.2E6	174.2E6	250.297	237.637
48) l8	1262-3	3.134	3.556	281.9E6	159.6E6	246.303	240.220
49) l8	1262-4	3.290	3.685	554.6E6	296.5E6	240.099	239.507
50) l8	1262-5	3.765	4.202	176.8E6	109.5E6	246.126M4	250.504
Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

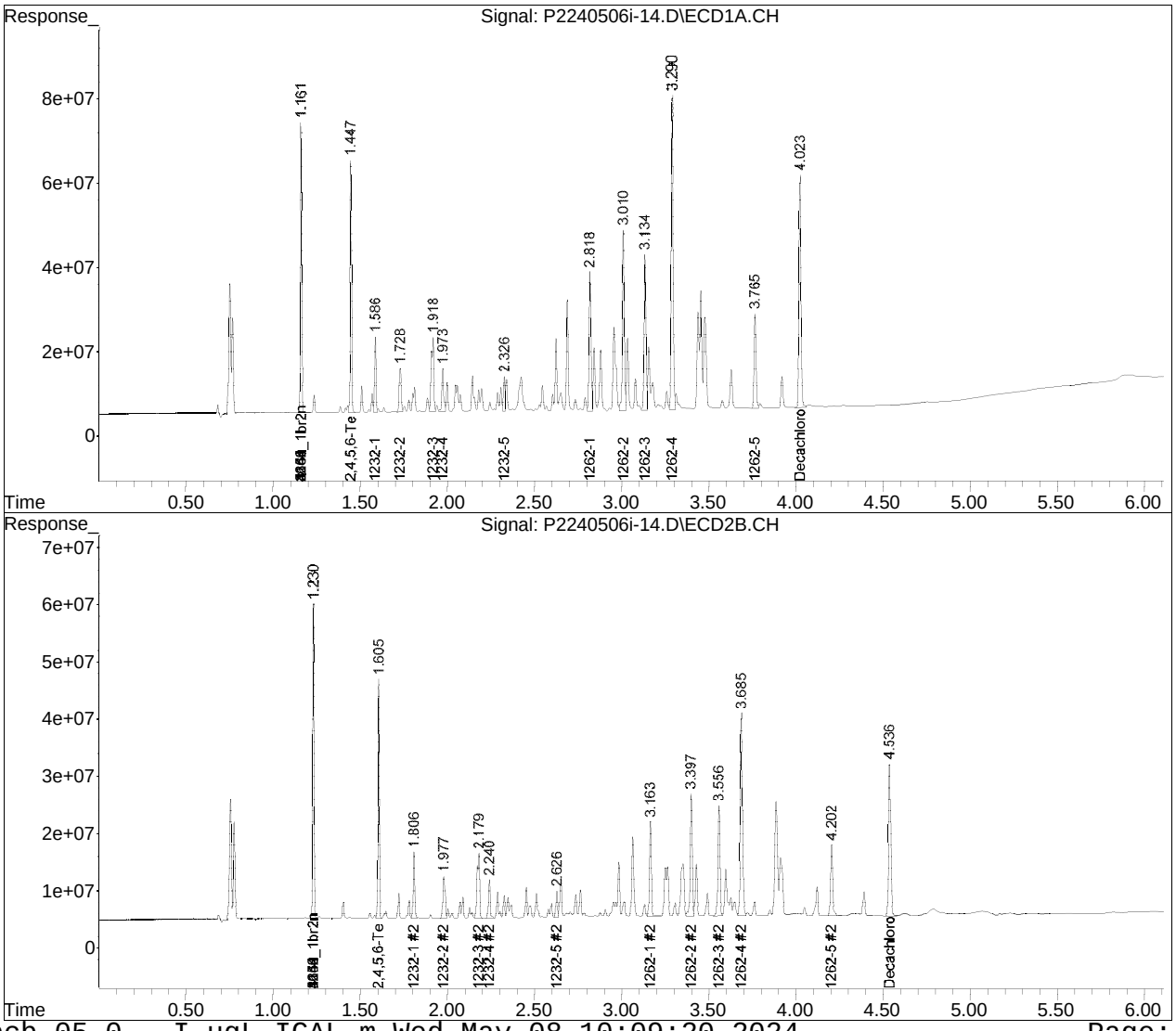
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

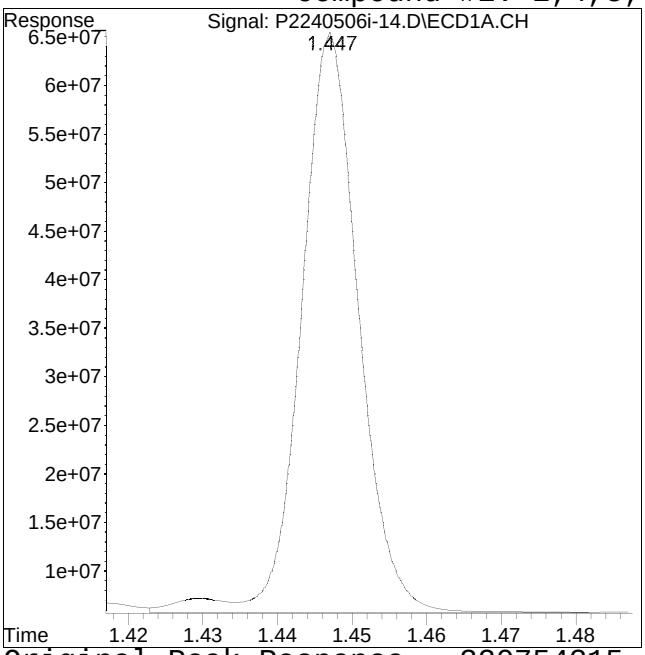
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

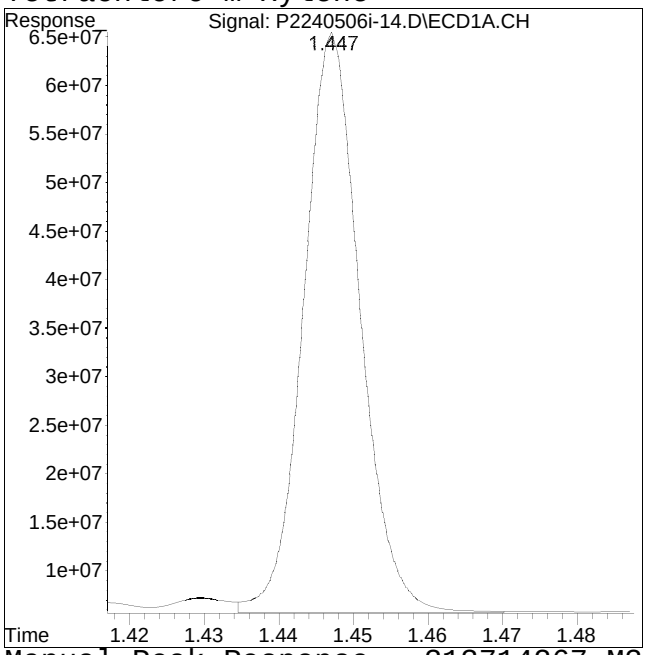


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



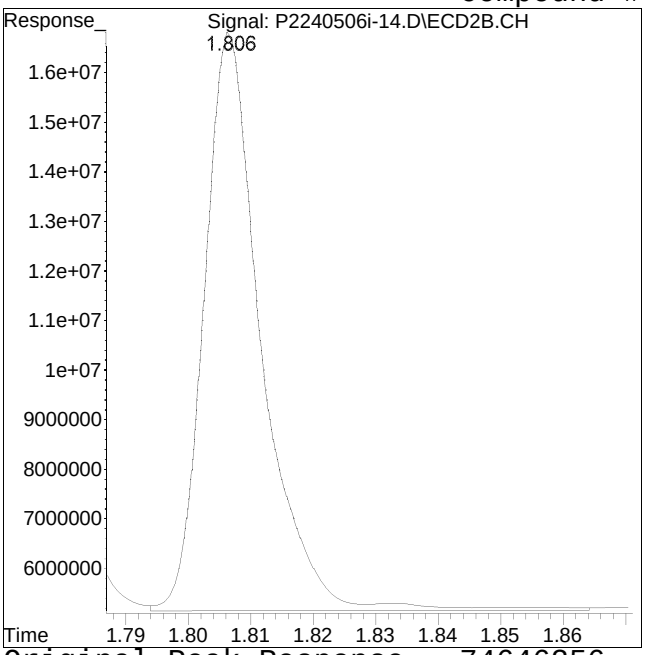


Original Peak Response = 320754315 Manual Peak Response = 313714267 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

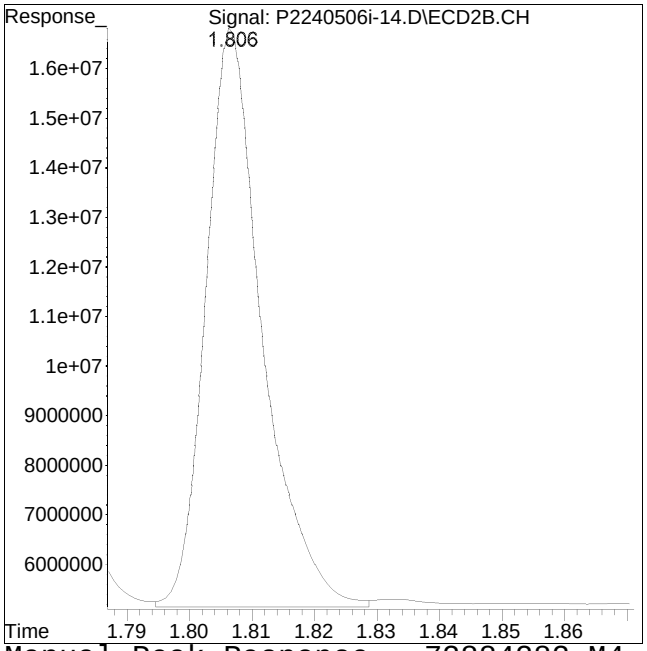
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #92: 1232-1 #2



Original Peak Response = 74646256



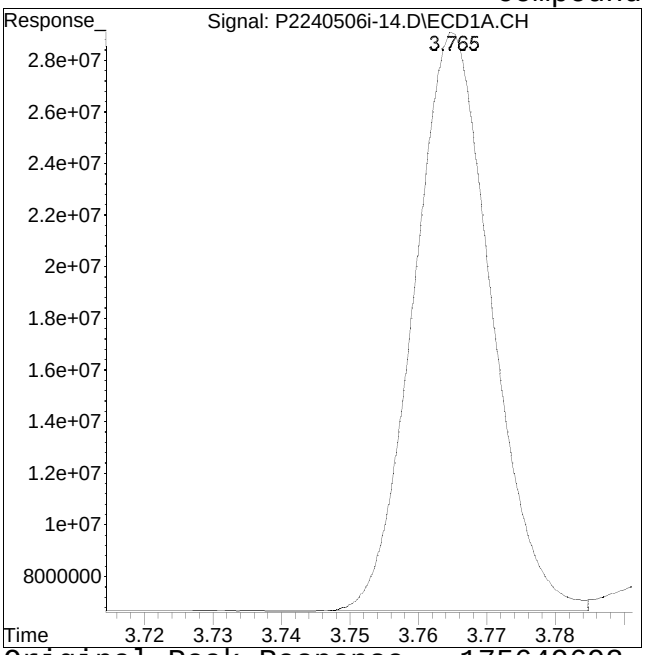
Manual Peak Response = 72884282 M4

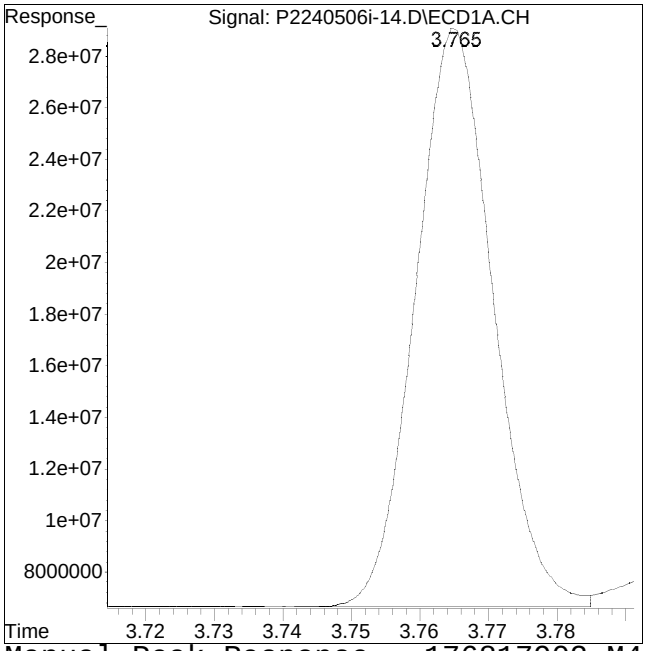
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #50: 1262-5





Original Peak Response = 175649692 Manual Peak Response = 176817902 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.298	1.0	74	0.00
3	s	Decachlorobiphenyl		0.847	0.986	-16.4	90	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	104	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
35	l7	1248-1		0.057	0.060	-5.3	105	0.01
36	l7	1248-2		0.074	0.065	12.2	89	0.00
37	l7	1248-3		0.065	0.059	9.2	90	0.00
38	l7	1248-4		0.058	0.052	10.3	90	0.00
39	l7	1248-5		0.050	0.051	-2.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.222	0.8	75	0.00
3	s	Decachlorobiphenyl		0.580	0.675	-16.4	93	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
35	l7	1248-1		0.052	0.056	-7.7	109	0.01
36	l7	1248-2		0.034	0.032	5.9	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.043	0.040	7.0	92	0.00
38	l7	1248-4		0.048	0.044	8.3	92	0.00
39	l7	1248-5		0.054	0.052	3.7	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9 1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9 1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9 1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9 1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9 1268-5	0.392	0.000	100.0#	0#	-3.92#
41	l5 1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5 1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5 1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5 1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5 1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8 1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8 1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8 1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8 1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8 1262-5	0.050	0.000	100.0#	0#	-3.76#
	Signal #2					
4	l1 1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1 1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1 1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1 1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1 1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2 1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2 1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2 1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2 1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2 1260-5	0.066	0.000	100.0#	0#	-3.89#
15	l3 1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3 1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3 1221-4	0.034	0.000	100.0#	0#	-1.81#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
14) i	2154_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
23) i	4268_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
34) i	1248_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
40) i	3262_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	327.8E6	228.4E6	15.843	15.872
	Spiked Amount 20.000	Range 30 - 150		Recovery =		79.22%	79.36%
3) s	Decachlorobi	4.022	4.537	498.3E6	252.5E6	37.269	37.259
	Spiked Amount 20.000	Range 30 - 150		Recovery =		186.34%#	186.30%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.918	2.179	237.0E6	165.0E6	263.140	271.725
36) l7	1248-2	2.047	2.325	258.1E6	92555766	222.123M1	230.259
37) l7	1248-3	2.144	2.451	232.7E6	115.4E6	226.522	228.395
38) l7	1248-4	2.326	2.626	206.5E6	127.5E6	225.373	229.278
39) l7	1248-5	2.339	2.650	201.3E6	150.8E6	253.464	237.742

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			1135.7E6	651.2E6	1190.621	1197.399
Average	1248-1					238.124	239.480
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

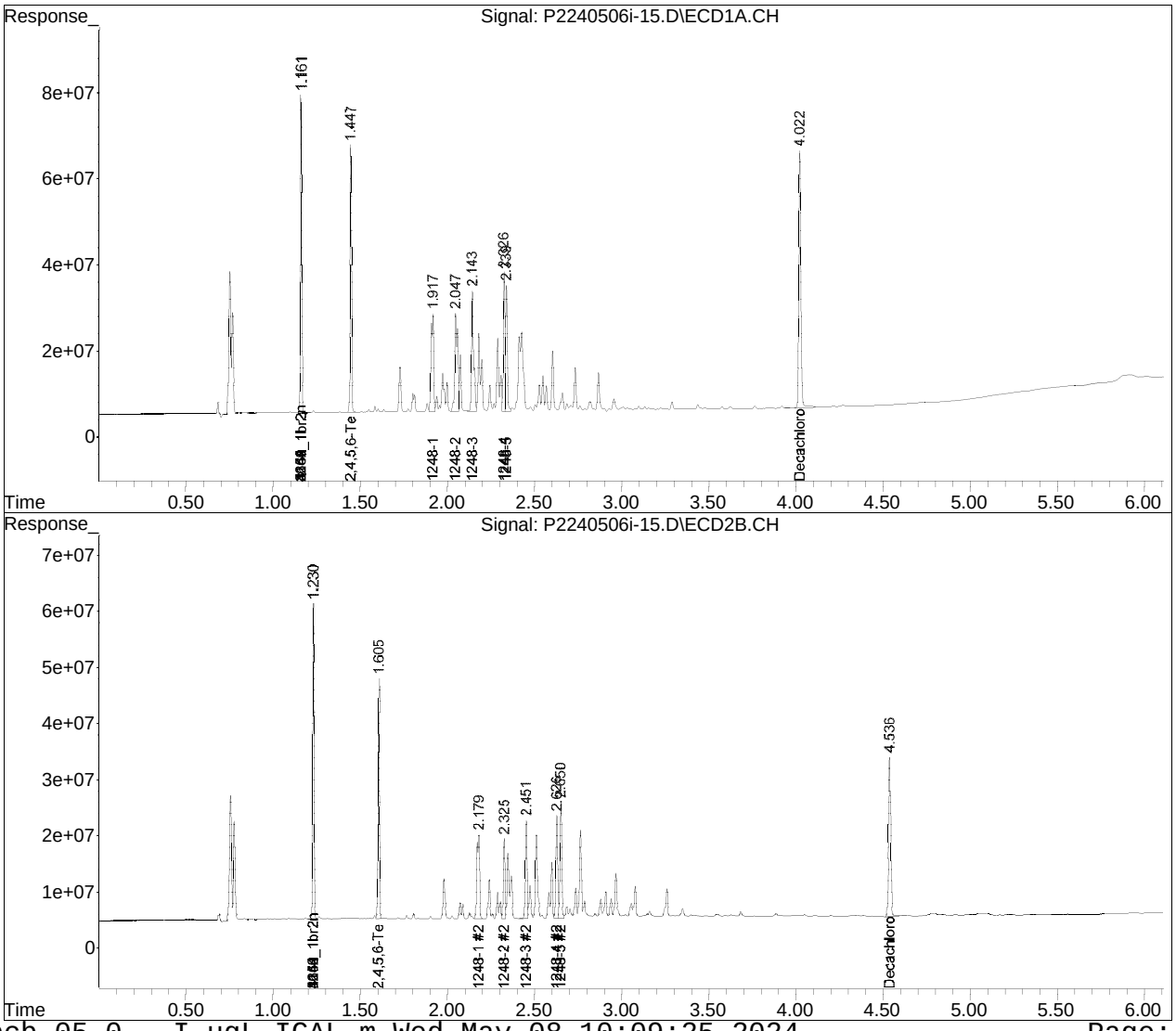
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

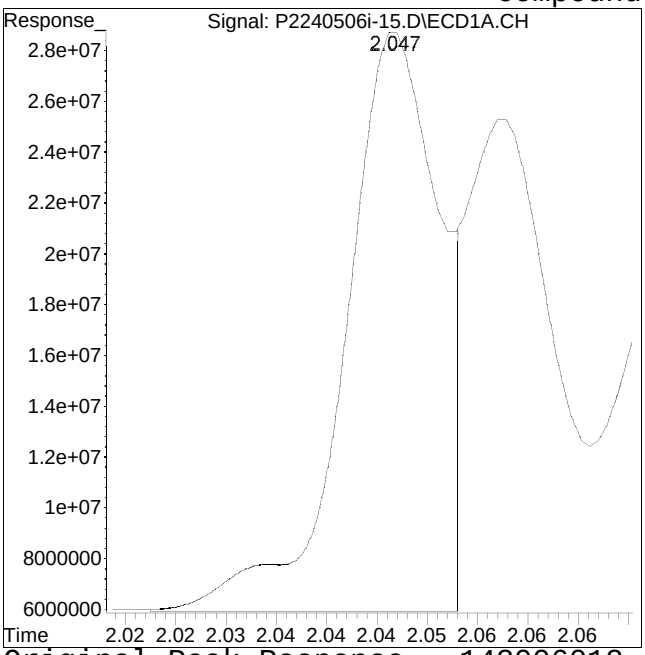
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

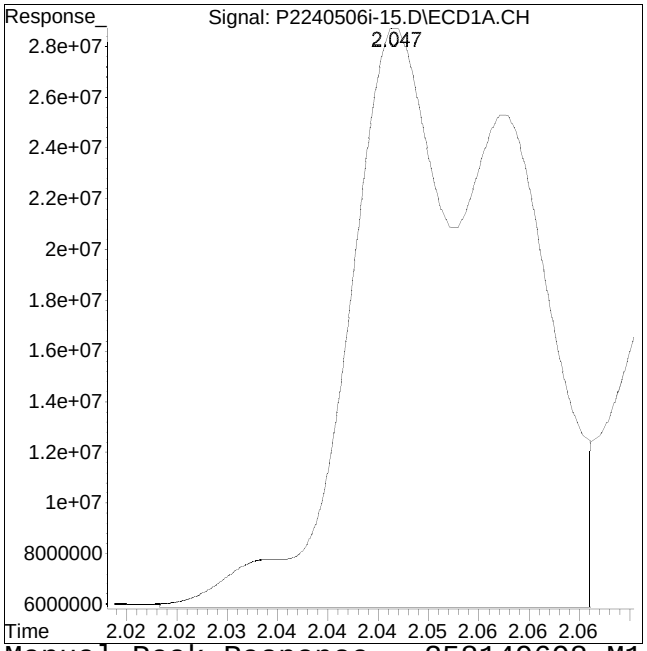


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-15.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:42 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 5/7/2024 4:44 pm

Compound #36: 1248-2





Original Peak Response = 143006012 Manual Peak Response = 258149698 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.178	10.1	70	0.00
3	s	Decachlorobiphenyl		0.847	0.861	-1.7	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
15	l3	1221-2		0.015	0.012	20.0	87	0.00
16	l3	1221-3		0.00895	0.00709	20.8#	85	0.00
17	l3	1221-4		0.035	0.028	20.0#	87	0.00
18	l4	1254-1		0.050	0.044	12.0	93	0.00
19	l4	1254-2		0.090	0.080	11.1	96	0.00
20	l4	1254-3		0.095	0.085	10.5	96	0.00
21	l4	1254-4		0.067	0.059	11.9	95	0.00
22	l4	1254-5		0.091	0.077	15.4	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	103	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.119	9.2	71	0.00
3	s	Decachlorobiphenyl		0.580	0.612	-5.5	87	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-2		0.015	0.012	20.0	88	0.00
16	l3	1221-3		0.00933	0.00756	19.0	90	0.00
17	l3	1221-4		0.034	0.028	17.6	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.046	0.042	8.7	101	0.00
19	l4	1254-2		0.052	0.047	9.6	100	0.00
20	l4	1254-3		0.078	0.070	10.3	100	0.00
21	l4	1254-4		0.048	0.047	2.1	108	0.00
22	l4	1254-5		0.071	0.060	15.5	94	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1		0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2		0.167	0.000	100.0#	0#	-3.47#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	308.2E6	217.5E6	14.382	14.534
	Spiked Amount	20.000	Range 30 - 150		Recovery =	71.91%	72.67%
3) s	Decachlorobi	4.022	4.536	450.5E6	237.9E6	32.528M4	33.753
	Spiked Amount	20.000	Range 30 - 150		Recovery =	162.64%#	168.77%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.510	1.721	48108664	36664748	202.154	199.604
16) l3	1221-3	1.569	1.780	28986702	22977877	198.186	202.776M3
17) l3	1221-4	1.586	1.806	116.3E6	84020572	203.181M3	205.054M3
	Sum 1221-2			193.4E6	143.7E6	603.521	607.434
Average	1221-2					201.174	202.478
18) l4	1254-1	2.307	2.648	178.5E6	127.6E6	217.391	228.228
19) l4	1254-2	2.420	2.735	328.7E6	143.4E6	224.511	224.888
20) l4	1254-3	2.603	2.965	348.0E6	212.7E6	223.820M1	225.847
21) l4	1254-4	2.733	3.076	240.7E6	141.4E6	221.185	242.784
22) l4	1254-5	2.956	3.352	313.0E6	182.3E6	209.753	212.443
	Sum 1254-1			1408.9E6	807.4E6	1096.660	1134.191
Average	1254-1					219.332	226.838
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

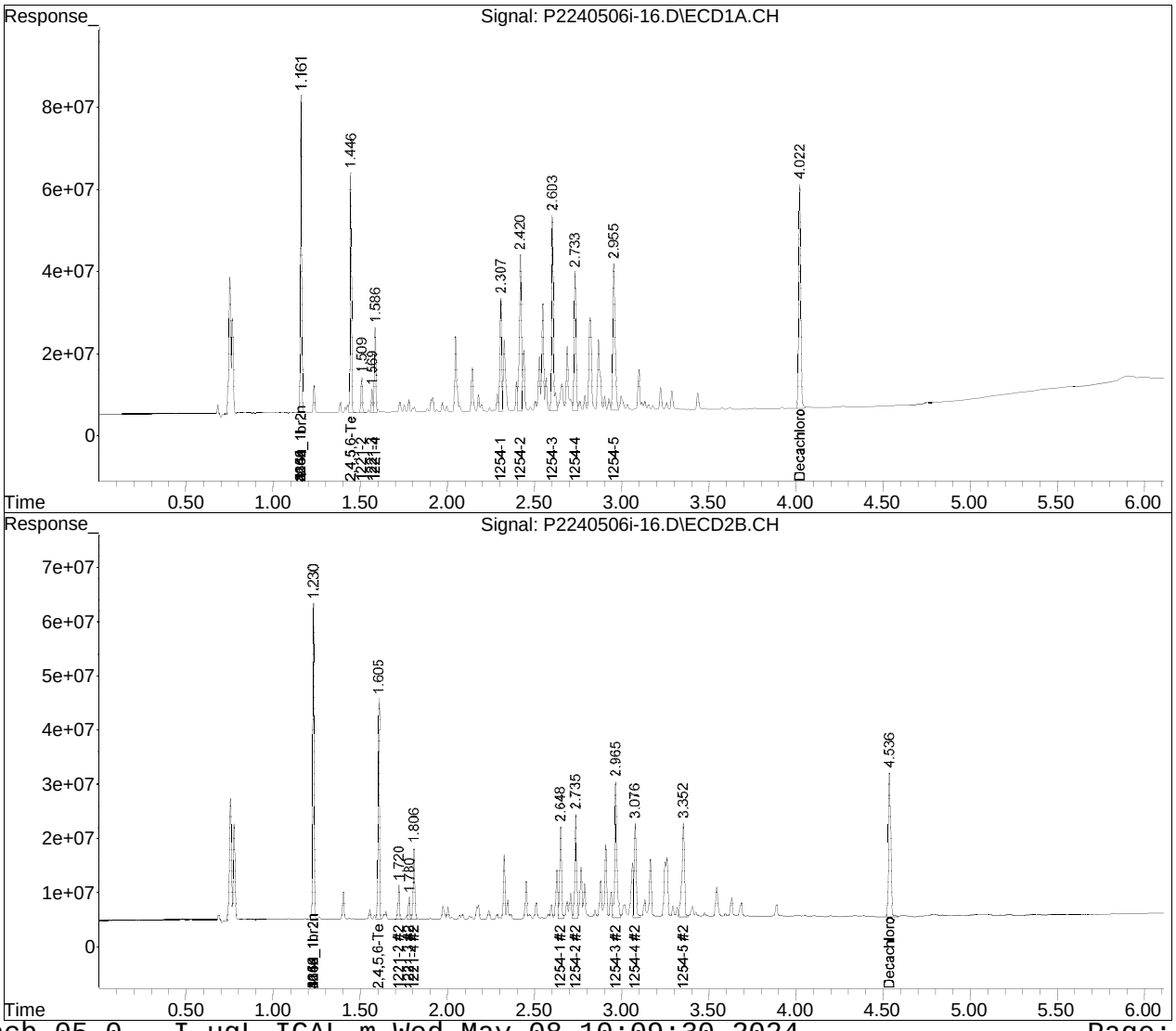
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

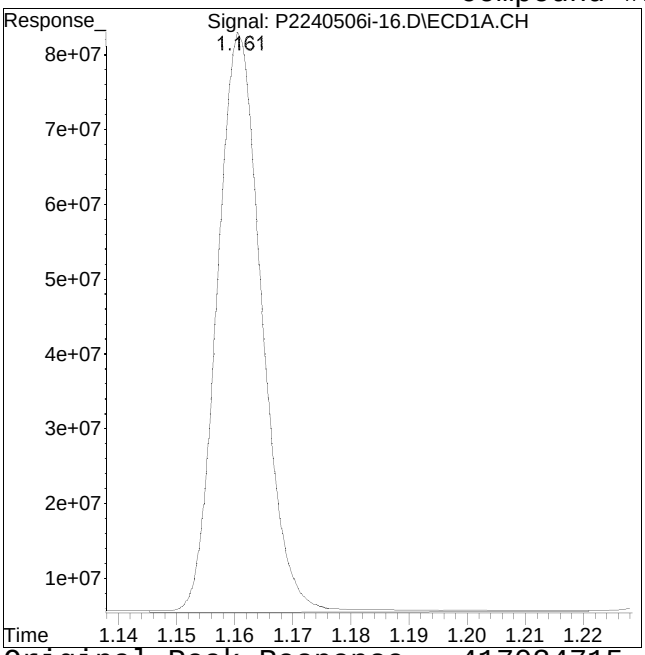
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

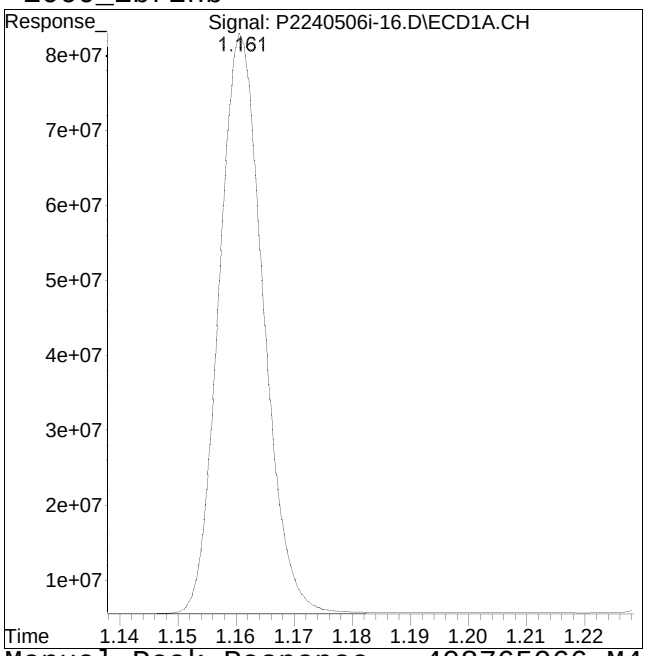


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #1: 1660_1br2nb



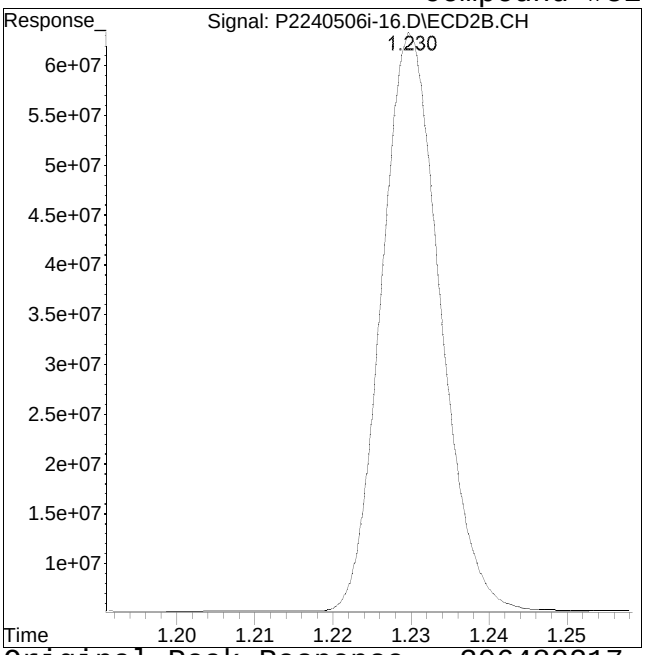


Original Peak Response = 417034715 Manual Peak Response = 408765066 M4
M4 = Poor automated baseline construction.

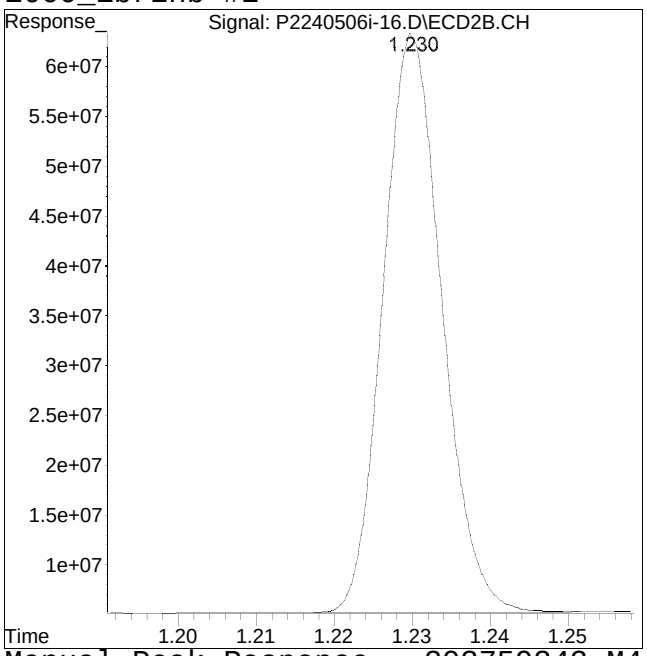
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 306480217



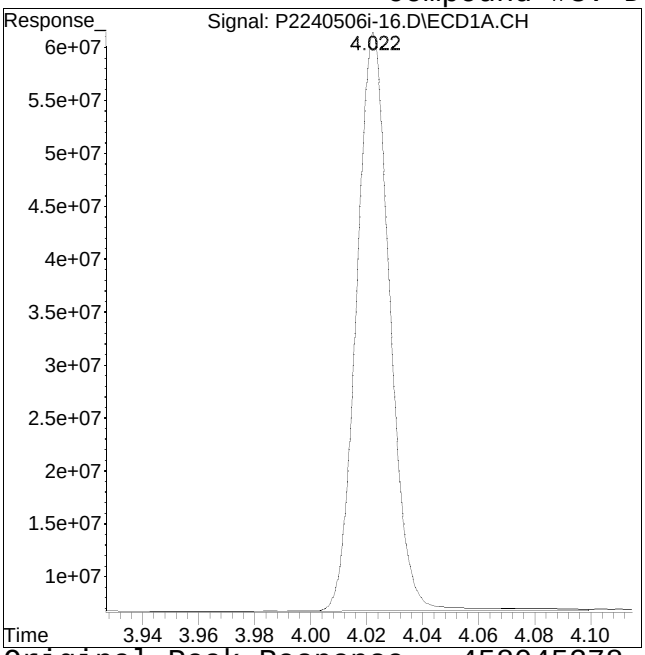
Manual Peak Response = 303759342 M4

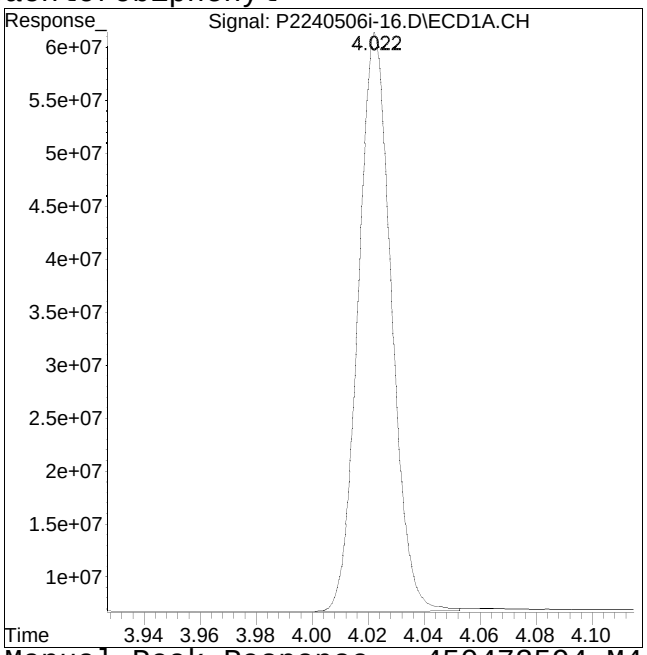
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #3: Decachlorobiphenyl



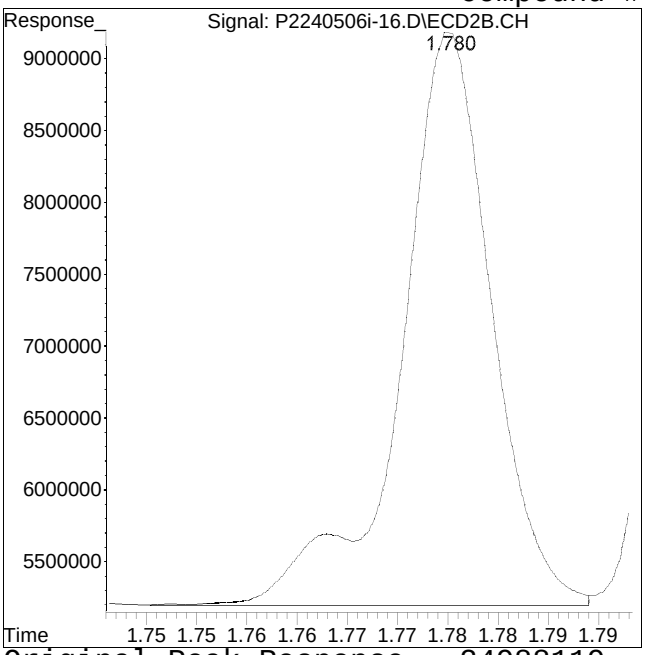


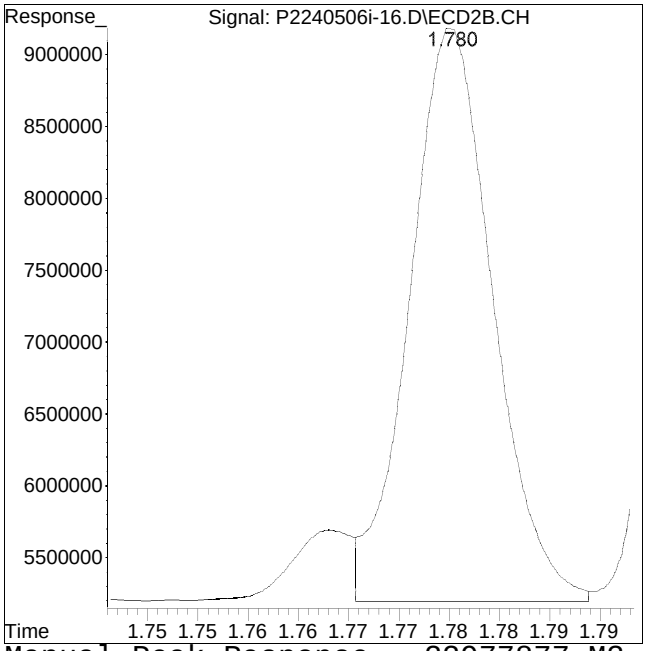
Original Peak Response = 458045378 Manual Peak Response = 450473594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #67: 1221-3 #2



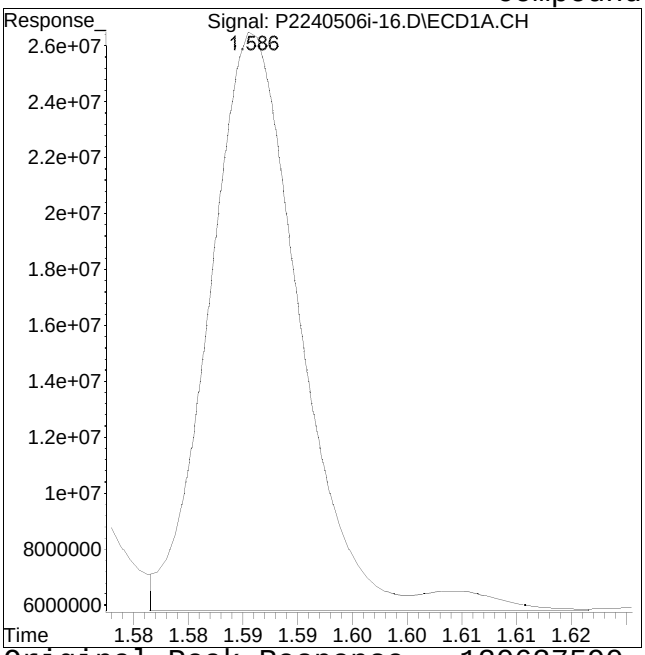


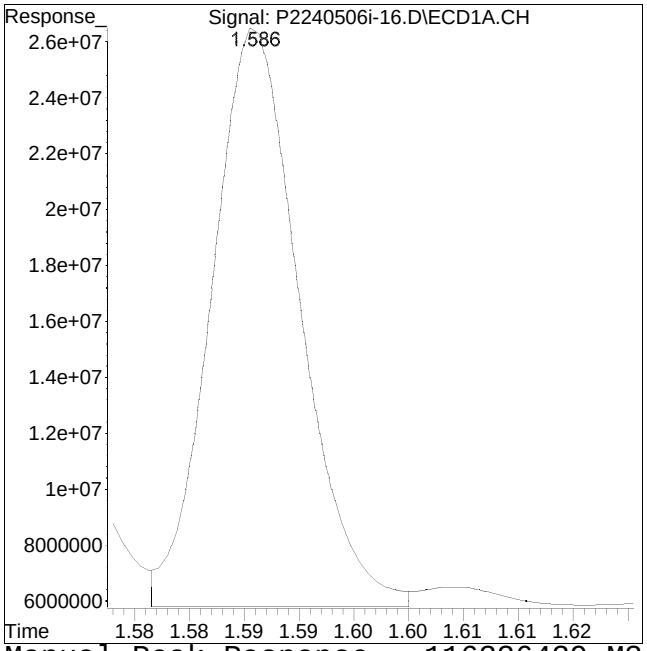
Original Peak Response = 24988119 Manual Peak Response = 22977877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #17: 1221-4



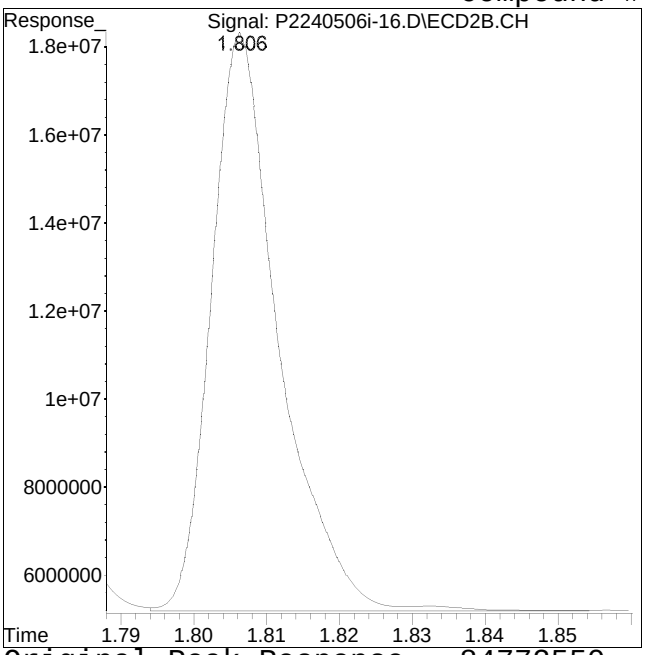


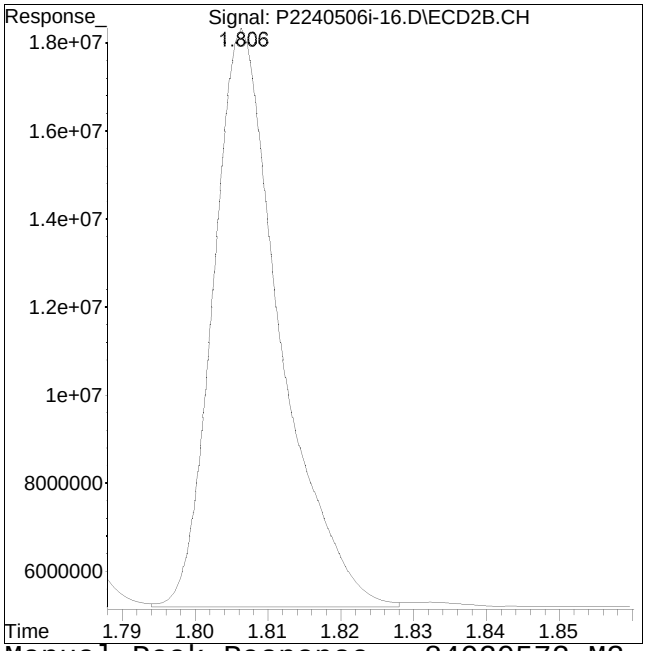
Original Peak Response = 120637590 Manual Peak Response = 116336439 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #68: 1221-4 #2



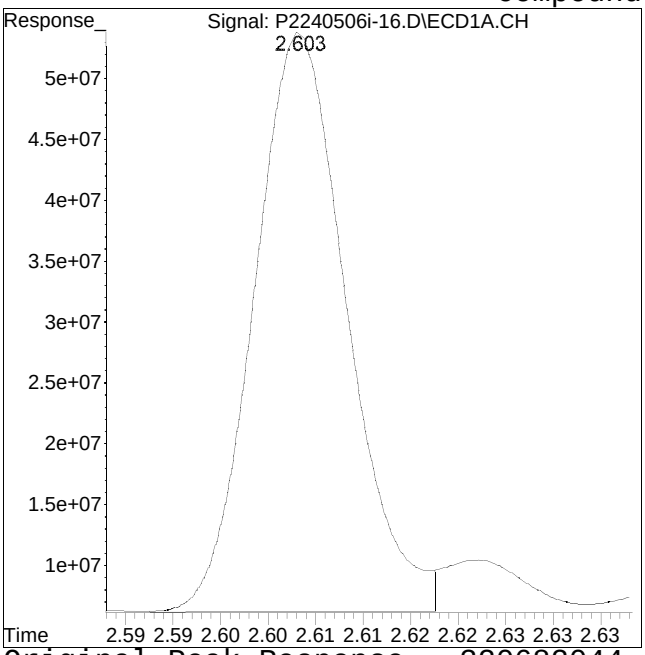


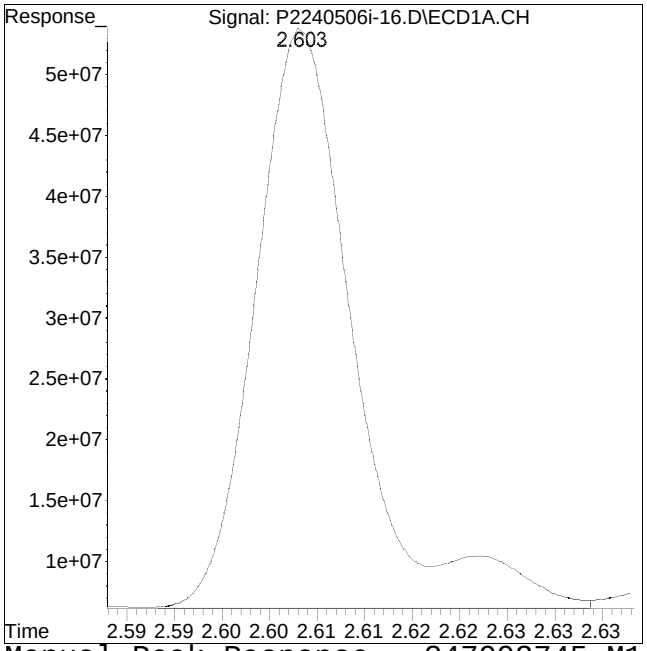
Original Peak Response = 84772550 Manual Peak Response = 84020572 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #20: 1254-3





Original Peak Response = 320682044 Manual Peak Response = 347993745 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.225	441.4E6	313.8E6	25.000	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.601	11388483	8343622	0.492	0.535
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.46%#	2.68%#
3) s	Decachlorobi	4.023	4.533	16750063	8510498	0.419M4	1.148M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.10%#	5.74%#
	Target Compounds						
4) l1	1016-1	1.584	1.803	3450981	2331136	8.405M4	8.707M5
5) l1	1016-2	1.726	1.975	6769076	5116199	7.846M4	8.669M4
6) l1	1016-3	1.916	2.176	13963884	10750016	7.759M4	9.175M4
7) l1	1016-4	1.971	2.236	5637064	3338891	7.770M3	7.351M4
8) l1	1016-5	2.142	2.447	6947810	3199324	8.725M4	8.197M4
	Sum 1016-1			36768814	24735565	40.505	42.098
	Average 1016-1					8.101	8.420
9) l2	1260-1	2.687	3.058	10067369	9159323	8.631M4	13.100M4
10) l2	1260-2	2.817	3.159	14349523	8268142	0.538M4	9.726M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.134	3.553	8892637	5160934	8.062M4	7.483M4
12) l2	1260-4	3.290	3.682	18580326	10937126	1.300M3	8.930M4
13) l2	1260-5	3.438	3.884	13302799	6780440	1.855M4	7.906M3
Sum	1260-1			65192654	40305965	N.D.	N.D. D
Average	1260-1					4.077	9.429 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

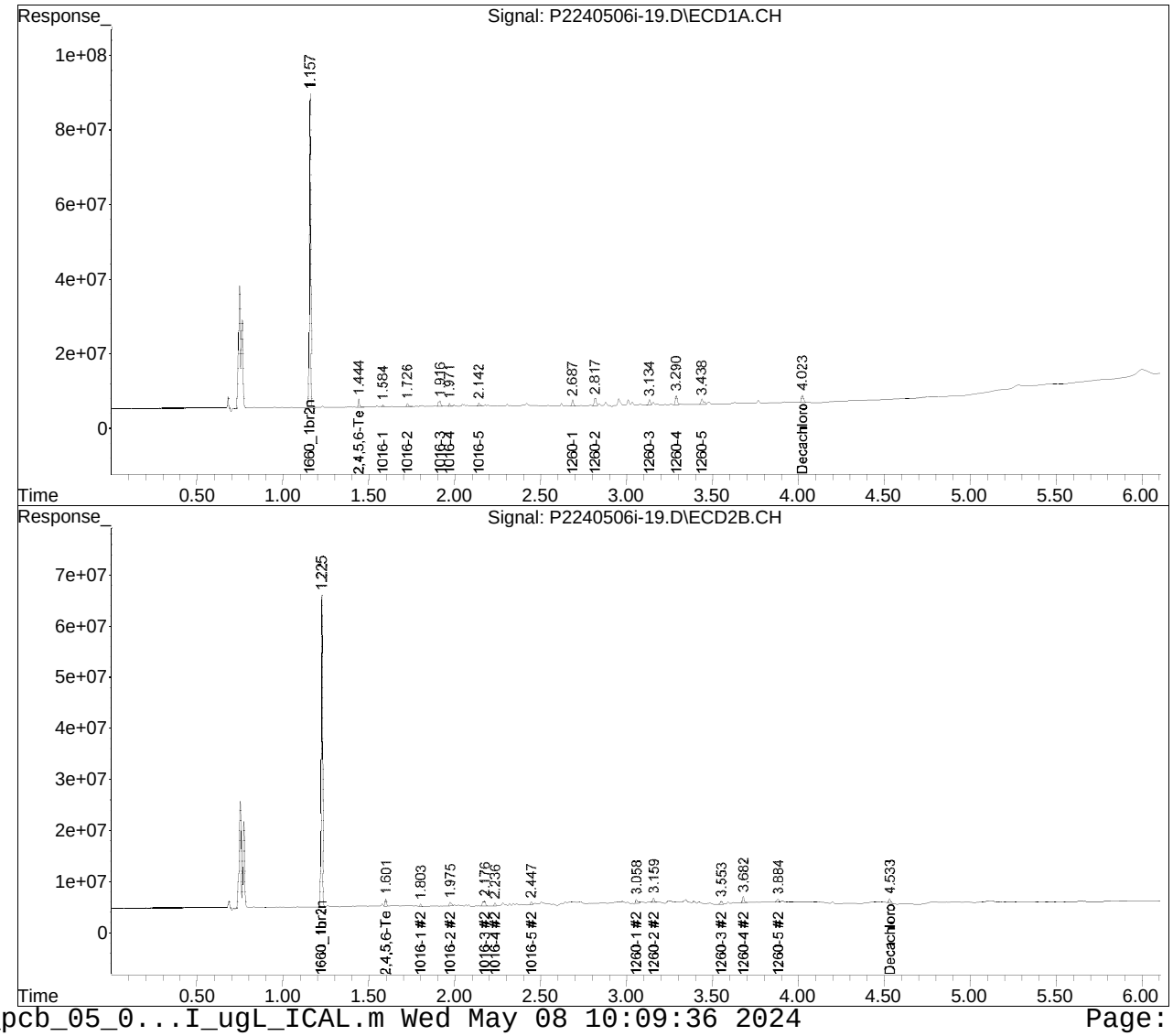
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

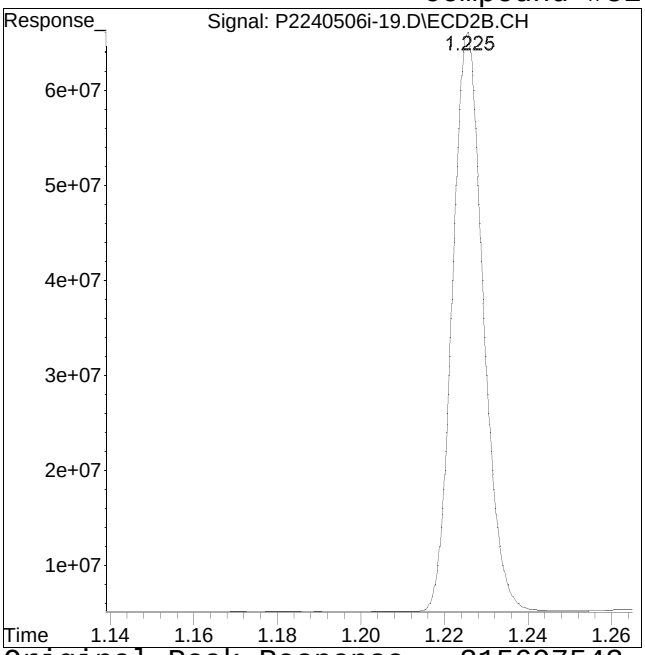
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

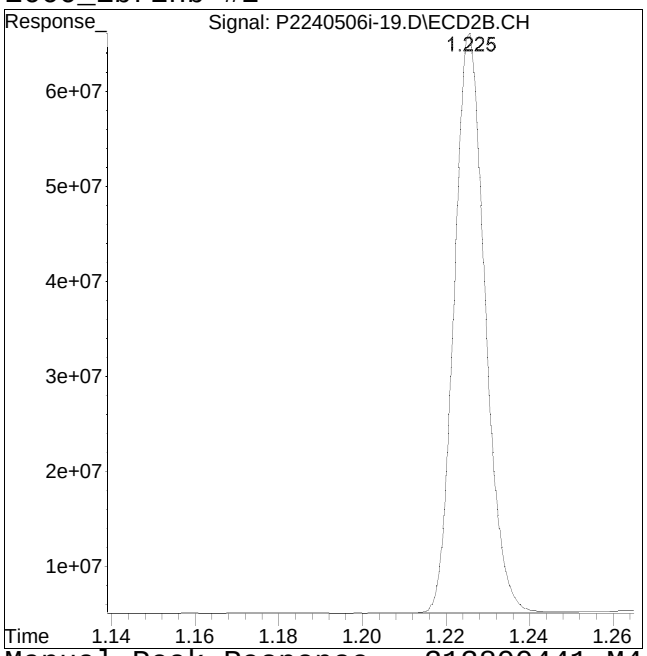


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #52: 1660_1br2nb #2



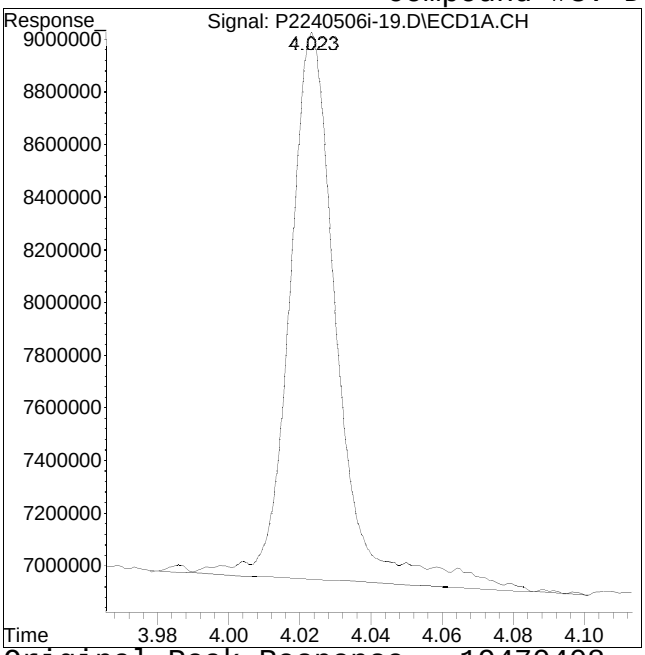


Original Peak Response = 315697543 Manual Peak Response = 313800441 M4
M4 = Poor automated baseline construction.

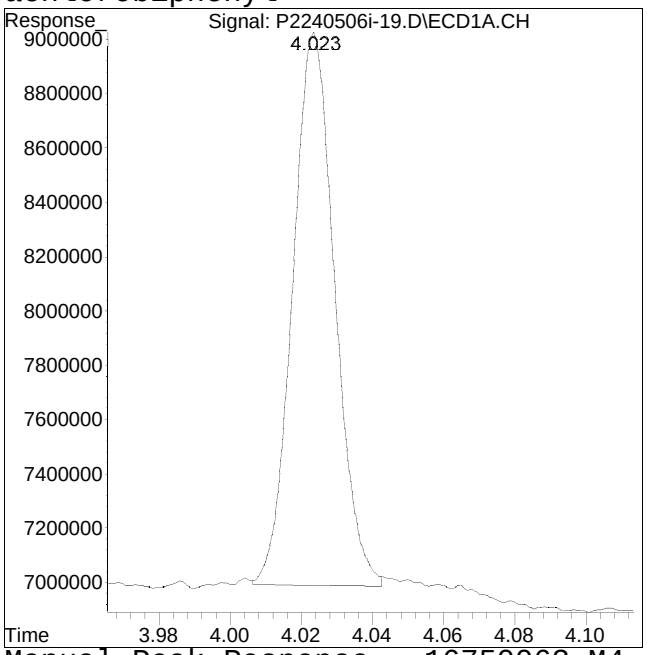
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 19470408



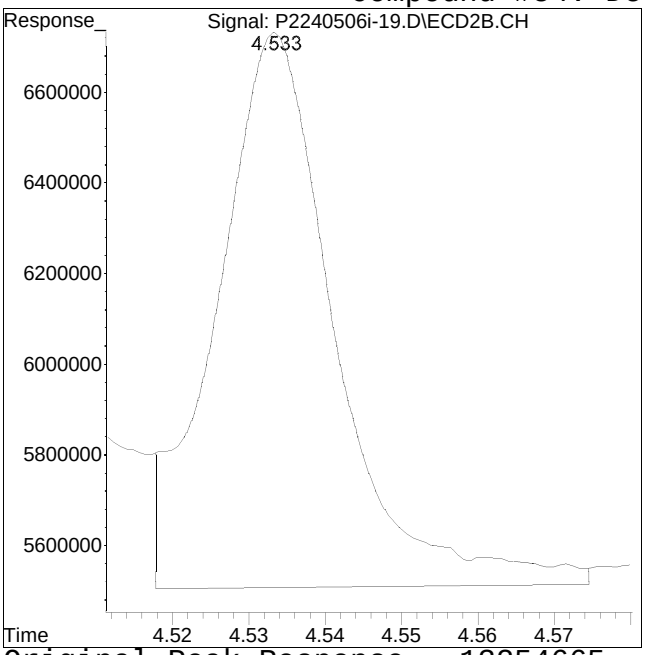
Manual Peak Response = 16750063 M4

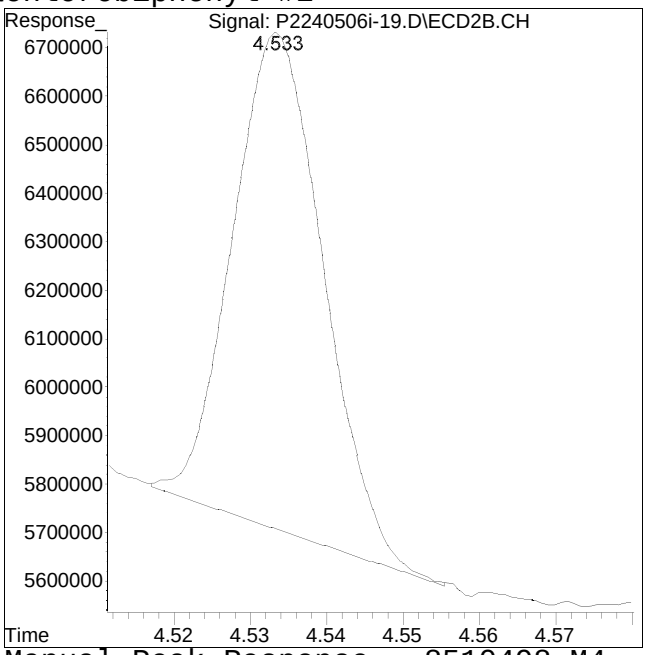
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #54: Decachlorobiphenyl #2



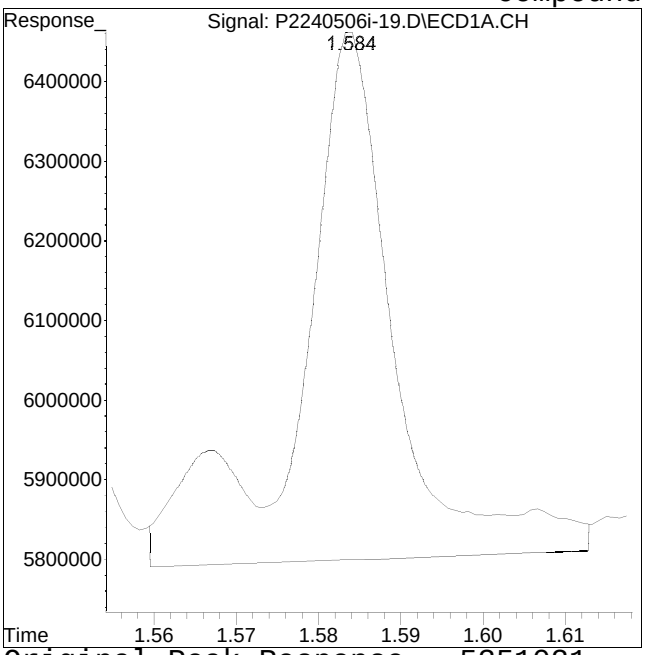


Original Peak Response = 13254665 Manual Peak Response = 8510498 M4
M4 = Poor automated baseline construction.

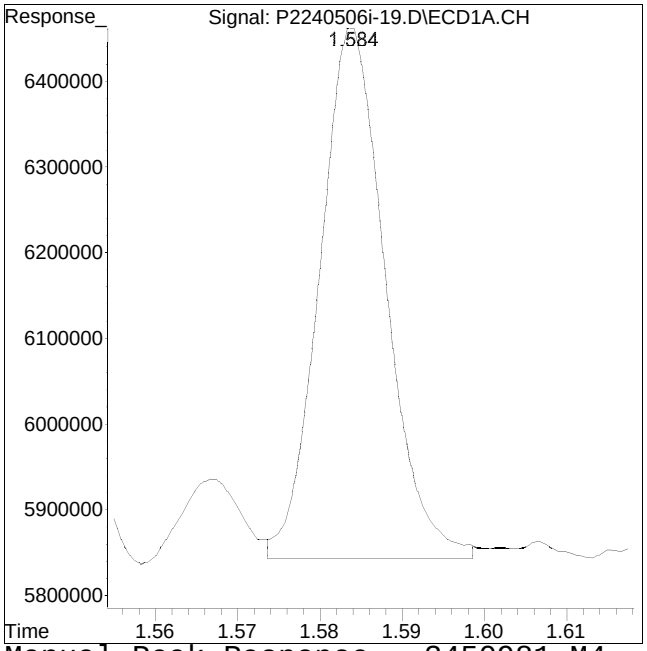
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #4: 1016-1



Original Peak Response = 5351021



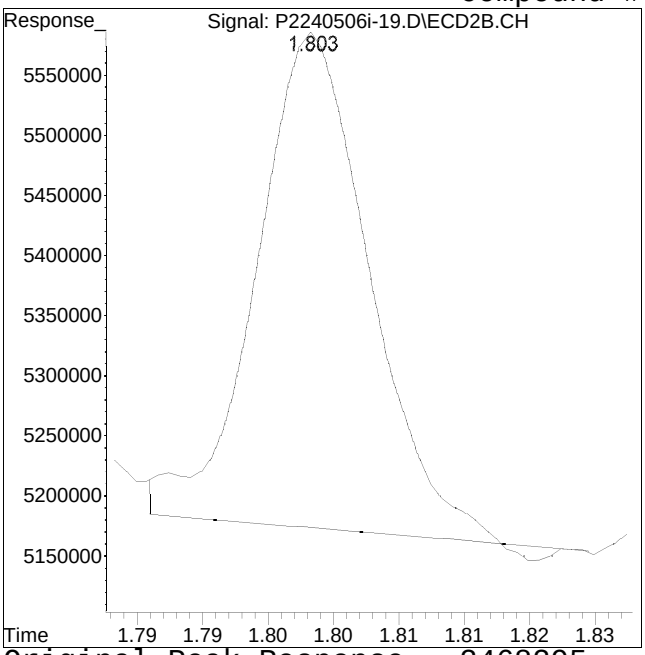
Manual Peak Response = 3450981 M4

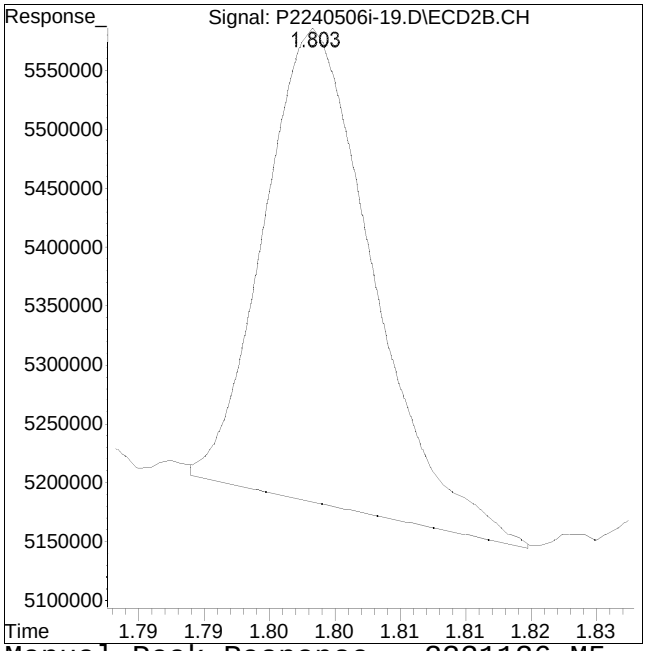
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #55: 1016-1 #2



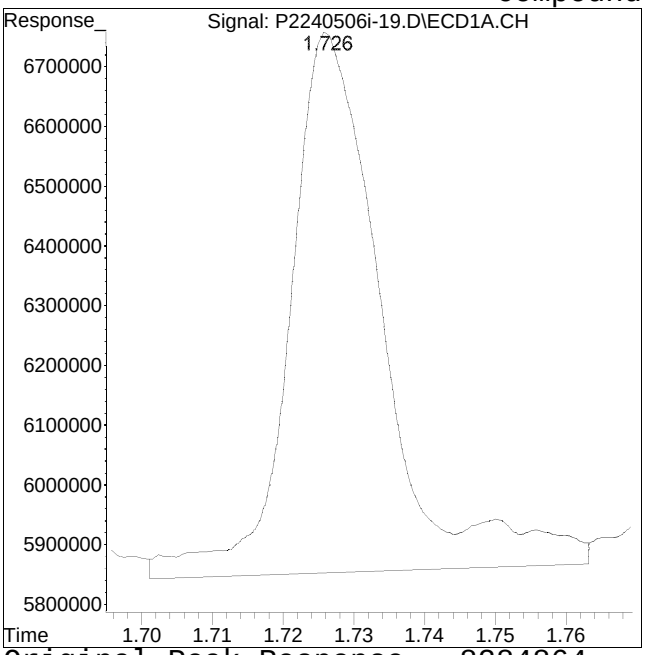


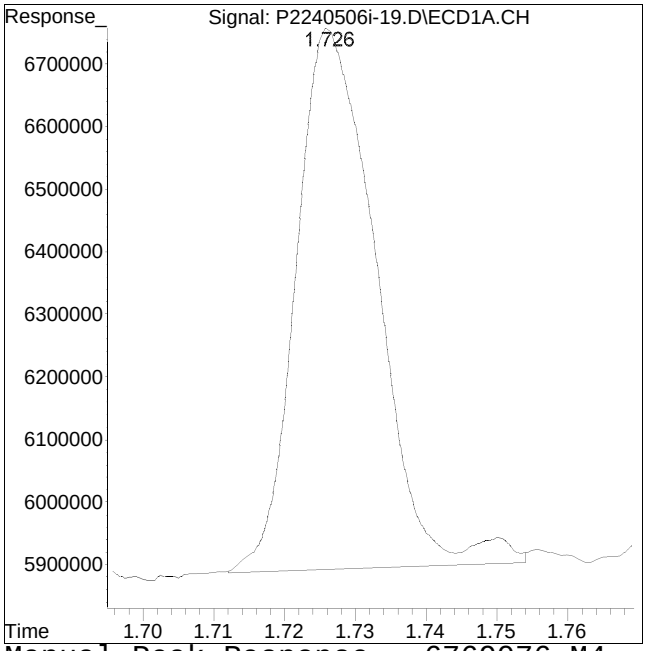
Original Peak Response = 2468295 Manual Peak Response = 2331136 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #5: 1016-2



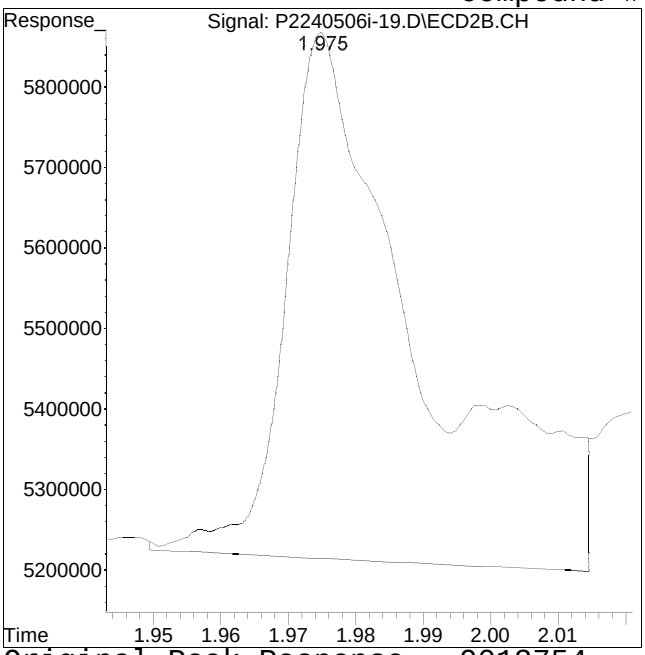


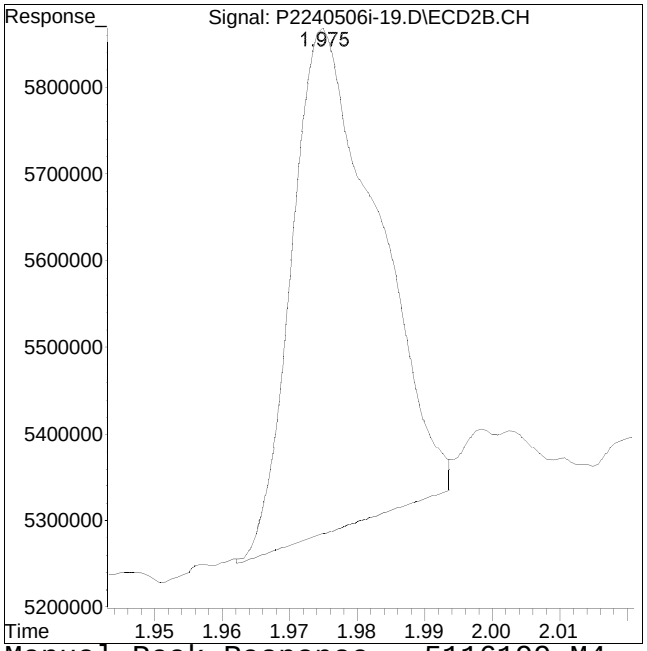
Original Peak Response = 8284864 Manual Peak Response = 6769076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #56: 1016-2 #2



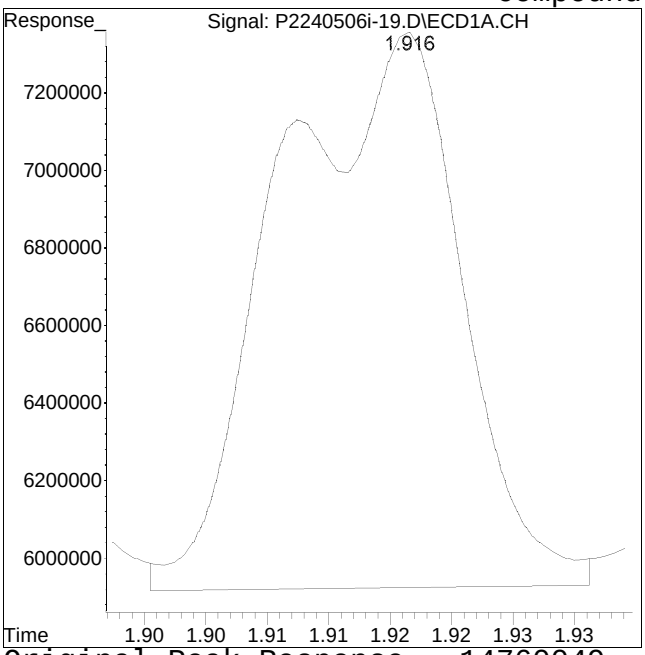


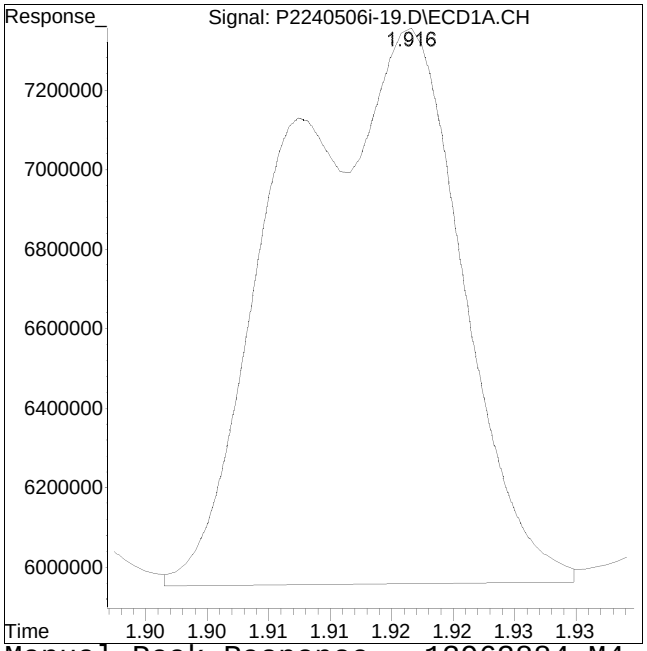
Original Peak Response = 9013754 Manual Peak Response = 5116199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #6: 1016-3



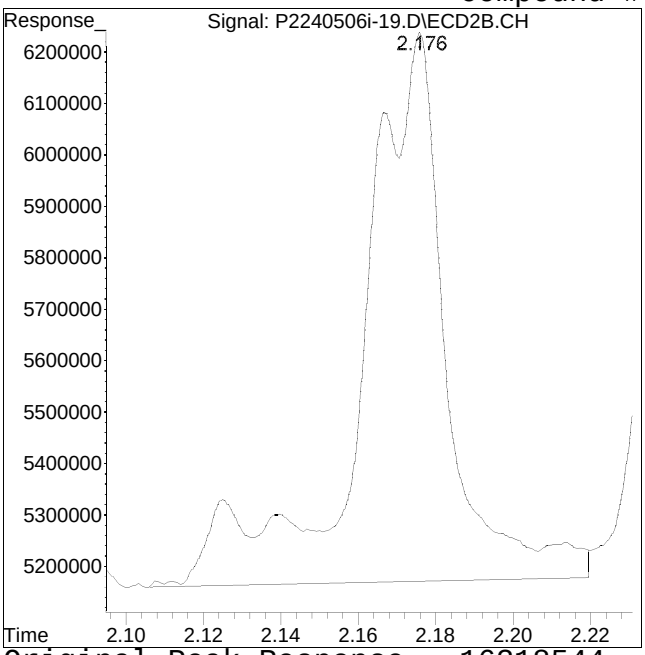


Original Peak Response = 14760049 Manual Peak Response = 13963884 M4
M4 = Poor automated baseline construction.

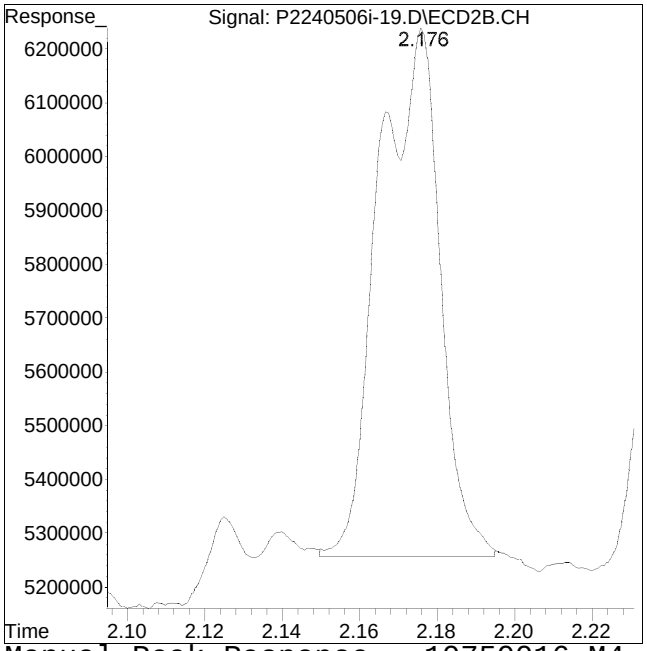
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #57: 1016-3 #2



Original Peak Response = 16318544



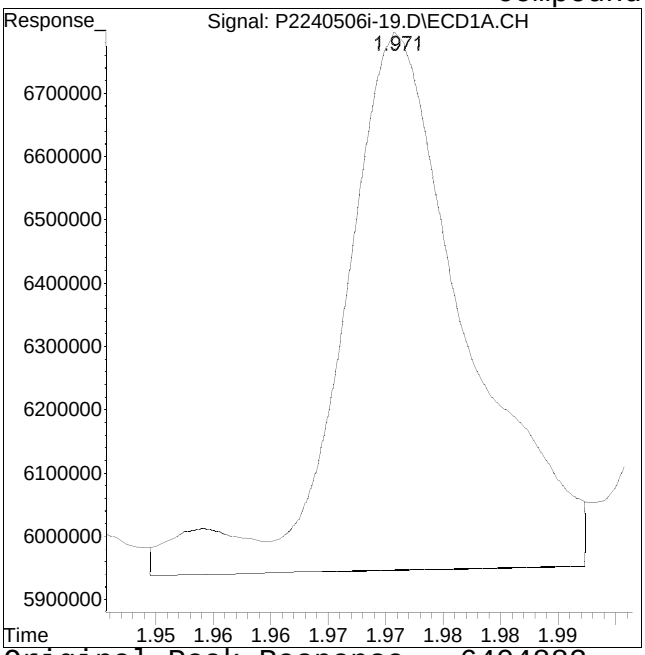
Manual Peak Response = 10750016 M4

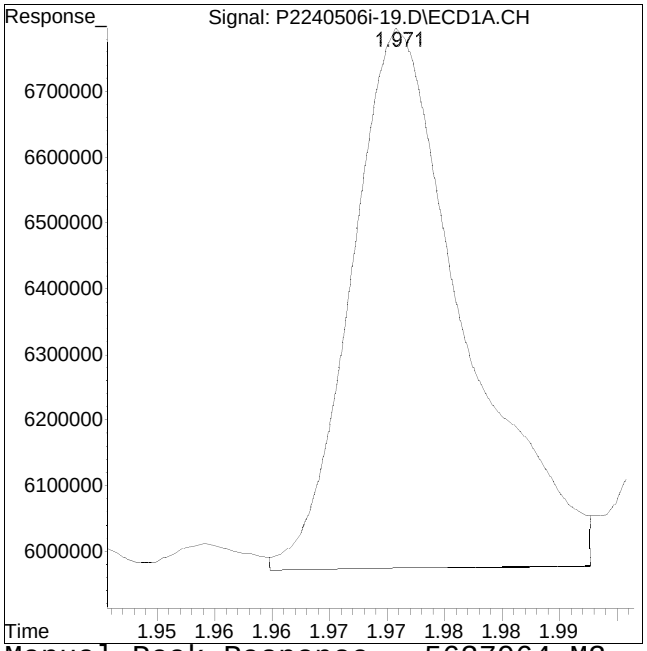
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #7: 1016-4



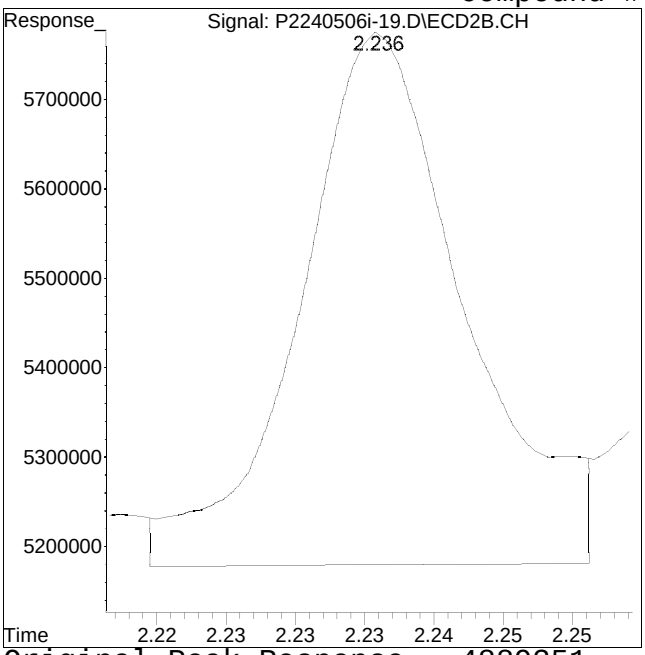


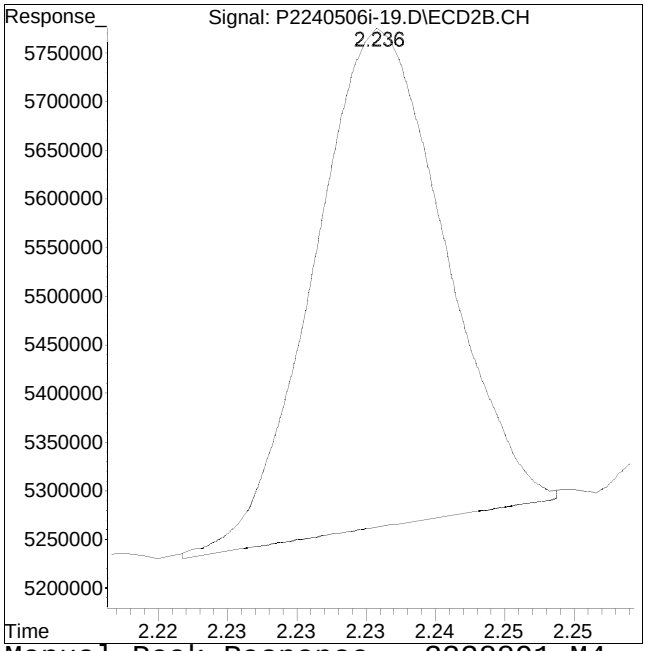
Original Peak Response = 6404883 Manual Peak Response = 5637064 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #58: 1016-4 #2



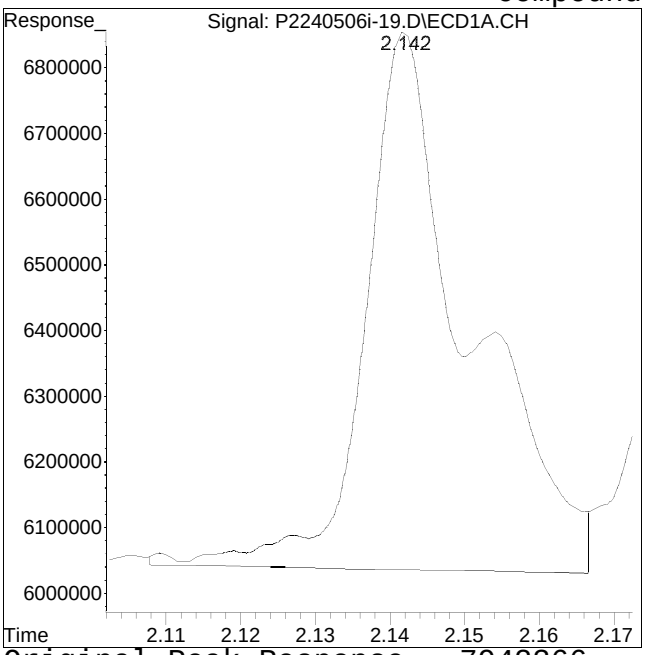


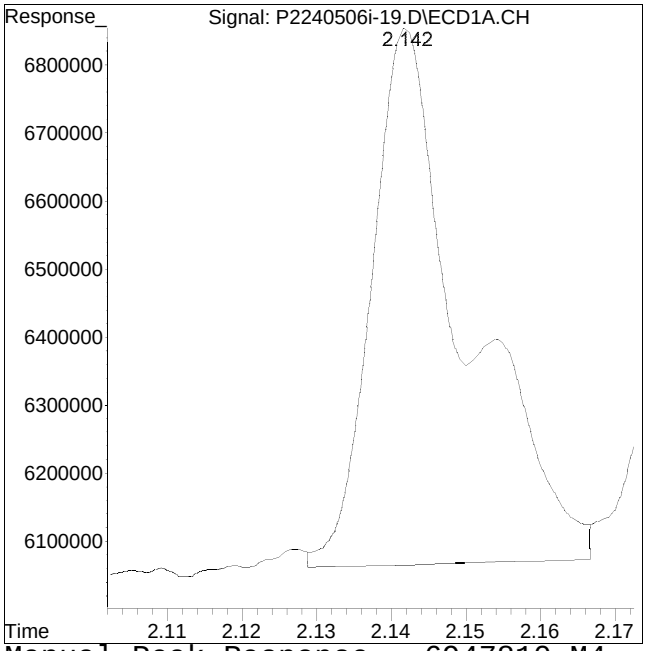
Original Peak Response = 4889351 Manual Peak Response = 3338891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #8: 1016-5



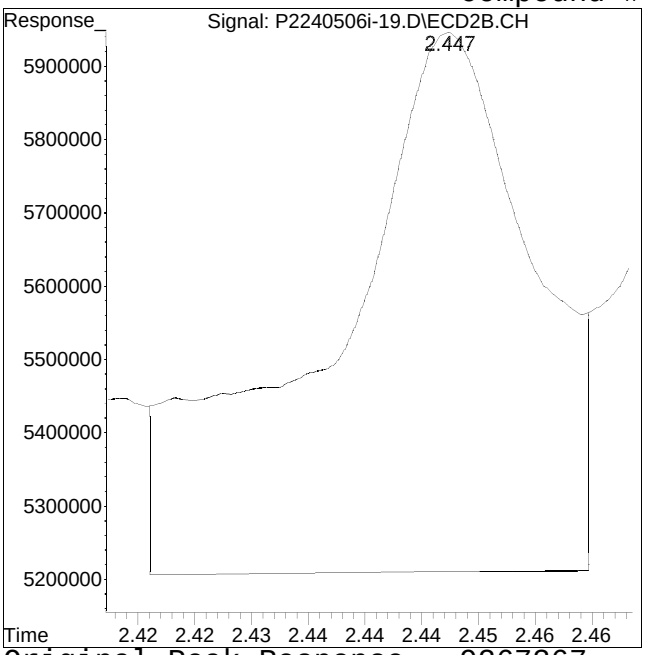


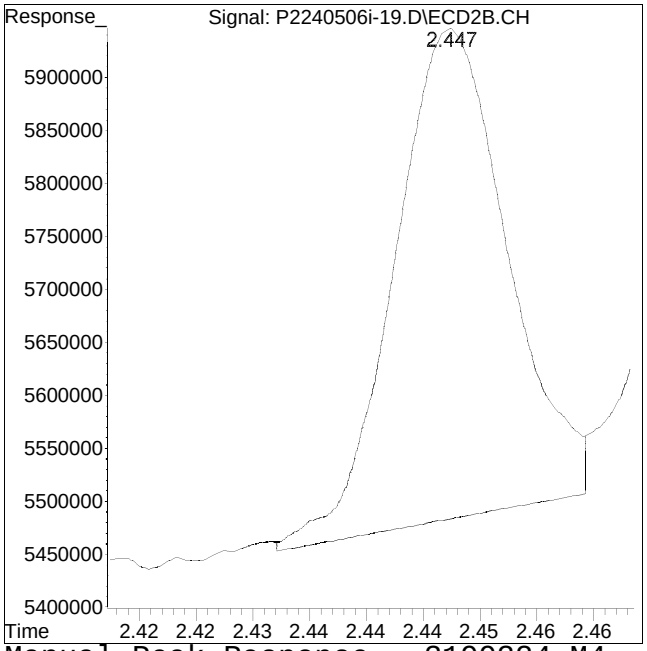
Original Peak Response = 7942366 Manual Peak Response = 6947810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #59: 1016-5 #2



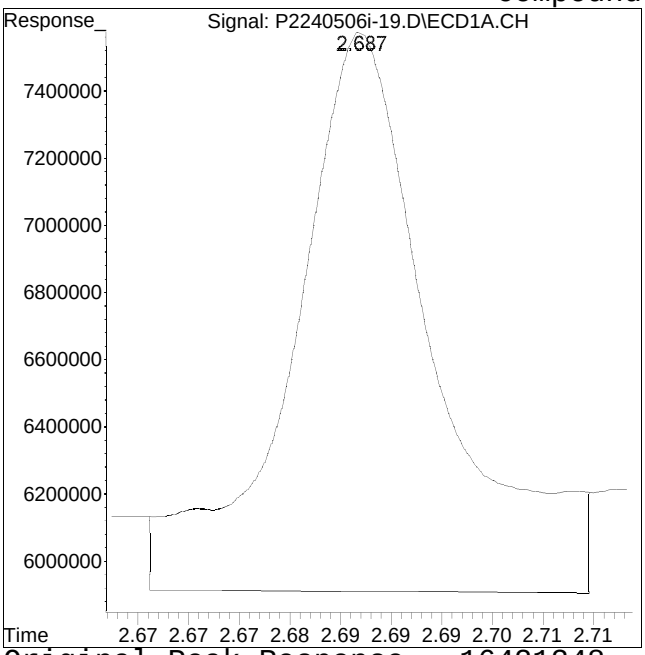


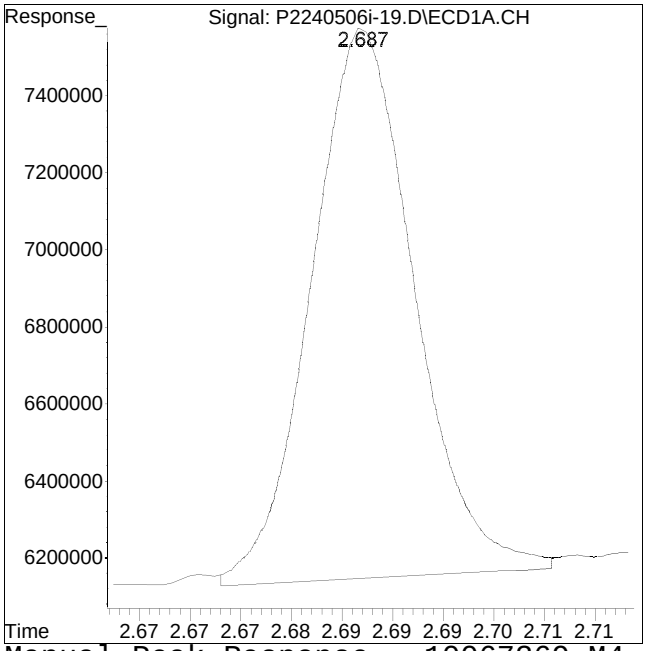
Original Peak Response = 9267367 Manual Peak Response = 3199324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #9: 1260-1



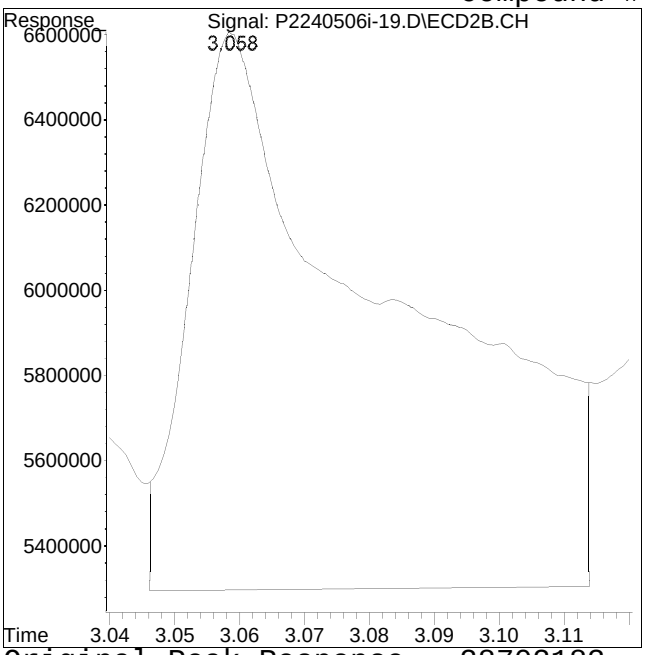


Original Peak Response = 16421248 Manual Peak Response = 10067369 M4
M4 = Poor automated baseline construction.

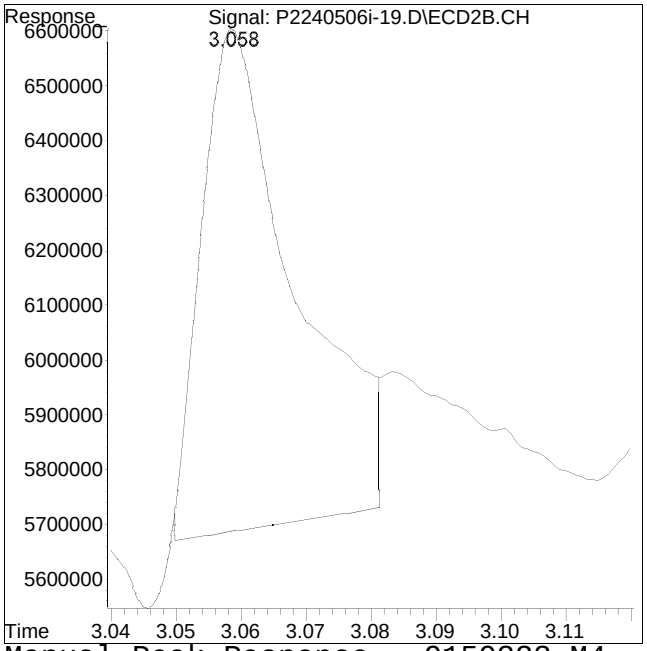
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #60: 1260-1 #2



Original Peak Response = 28702183



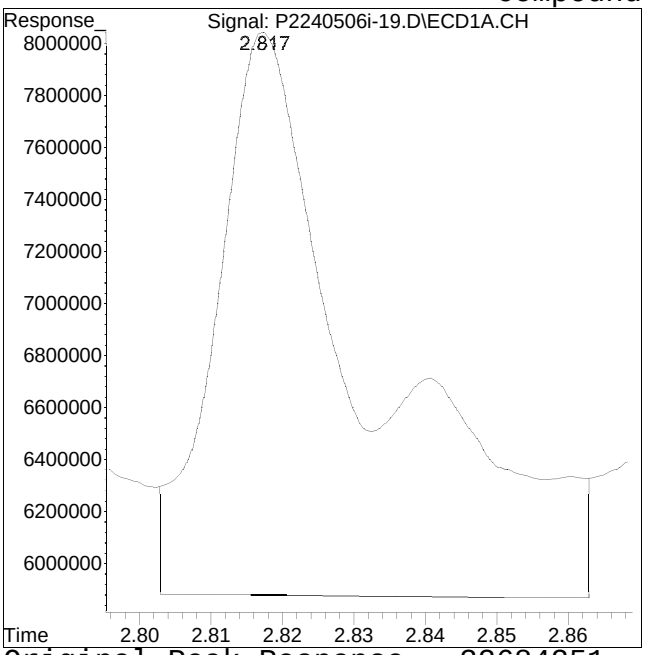
Manual Peak Response = 9159323 M4

M4 = Poor automated baseline construction.

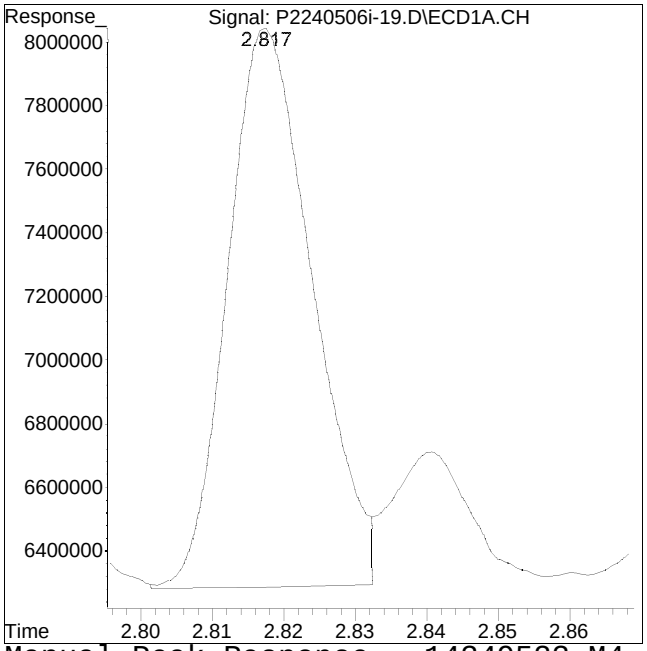
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #10: 1260-2



Original Peak Response = 32684251



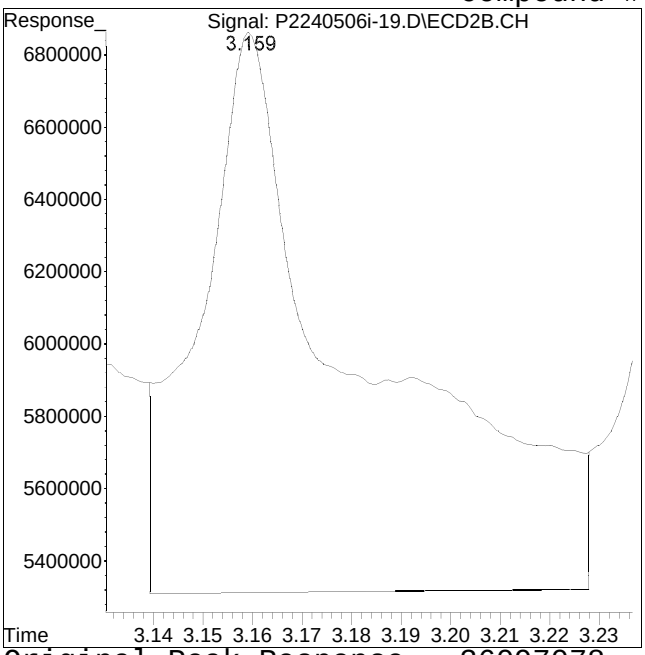
Manual Peak Response = 14349523 M4

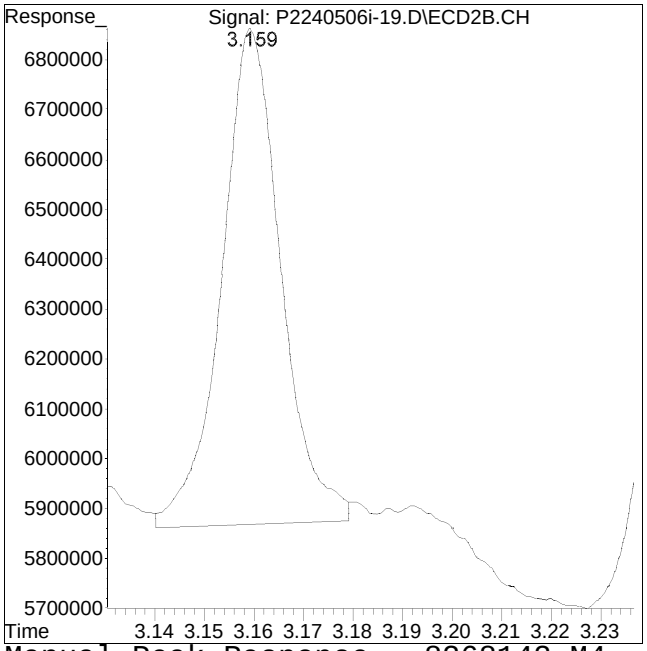
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #61: 1260-2 #2



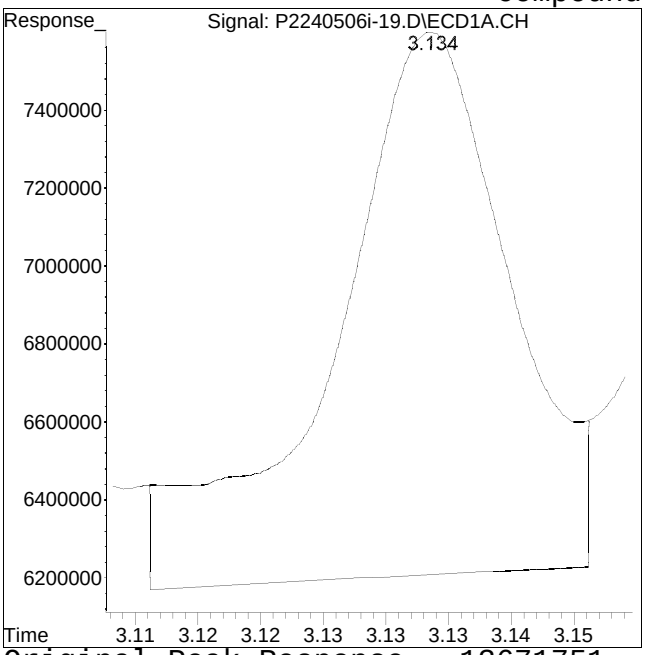


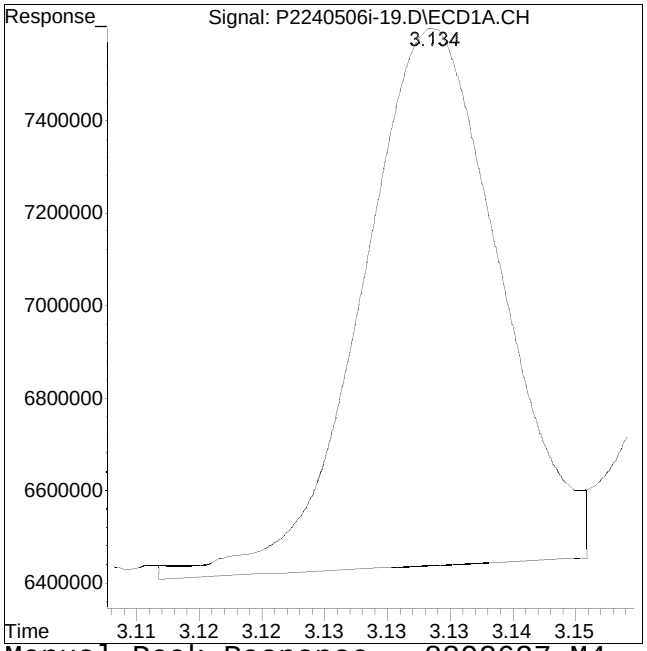
Original Peak Response = 36097078 Manual Peak Response = 8268142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #11: 1260-3



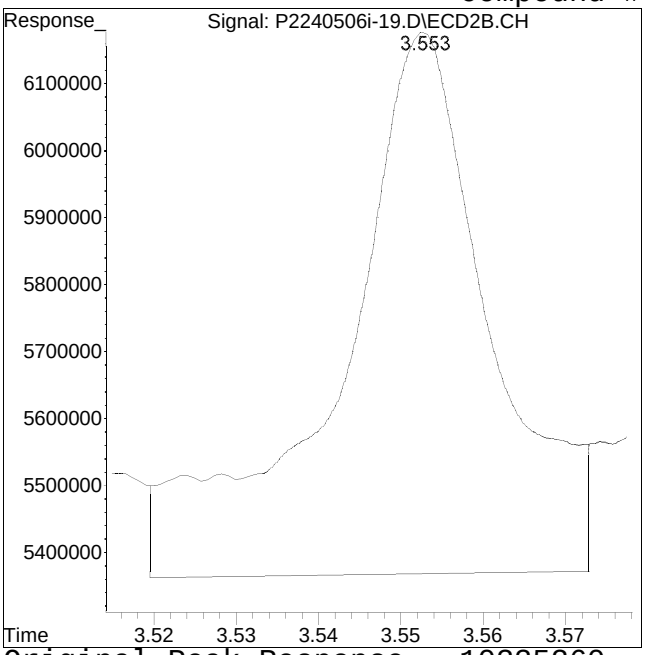


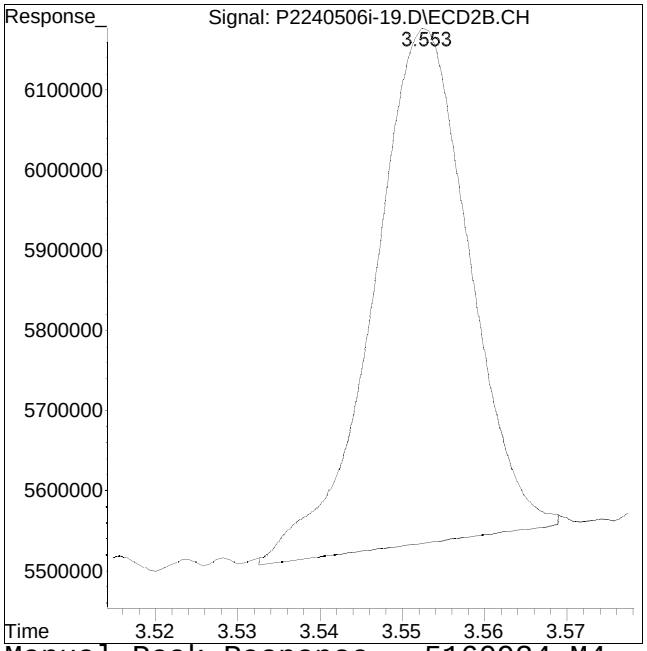
Original Peak Response = 13671751 Manual Peak Response = 8892637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #62: 1260-3 #2



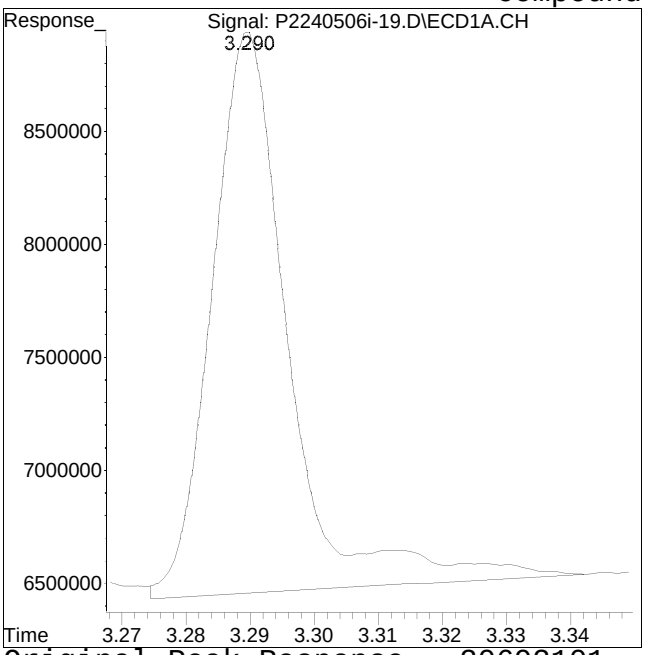


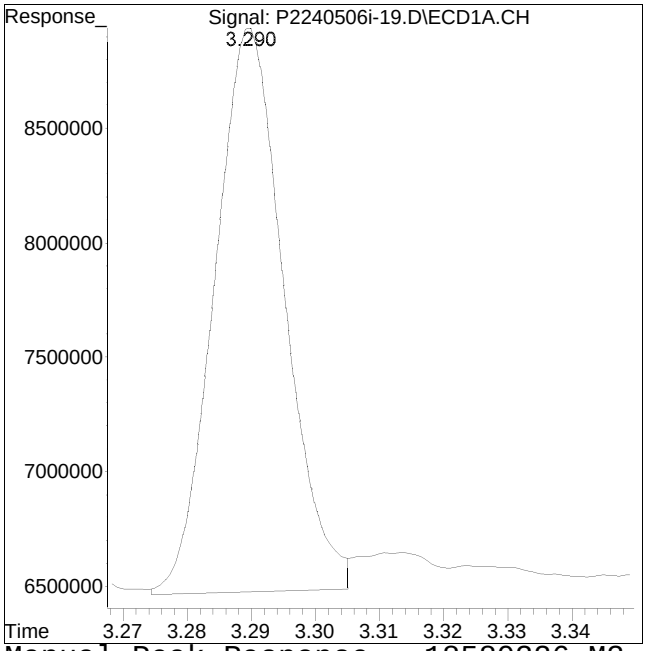
Original Peak Response = 10335260 Manual Peak Response = 5160934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #12: 1260-4



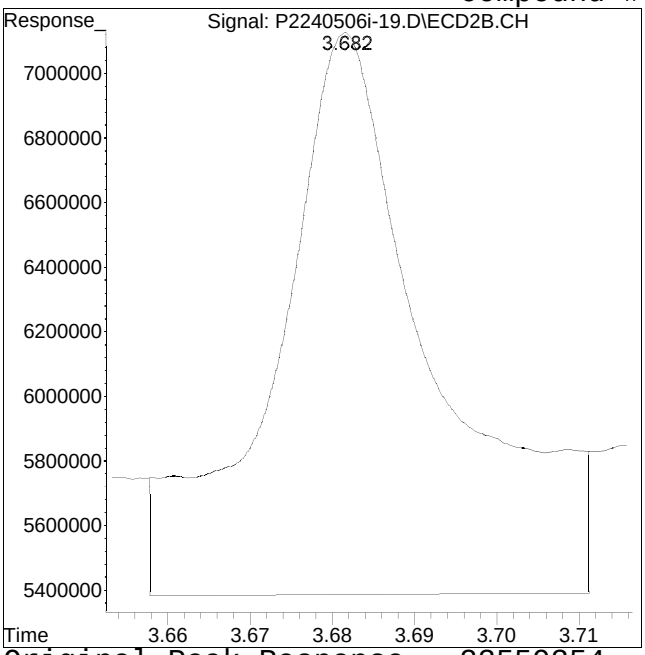


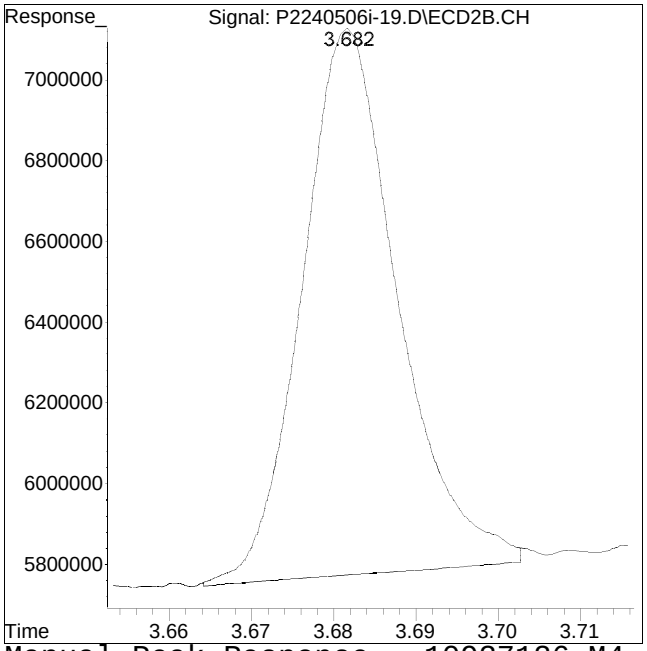
Original Peak Response = 20692101 Manual Peak Response = 18580326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #63: 1260-4 #2



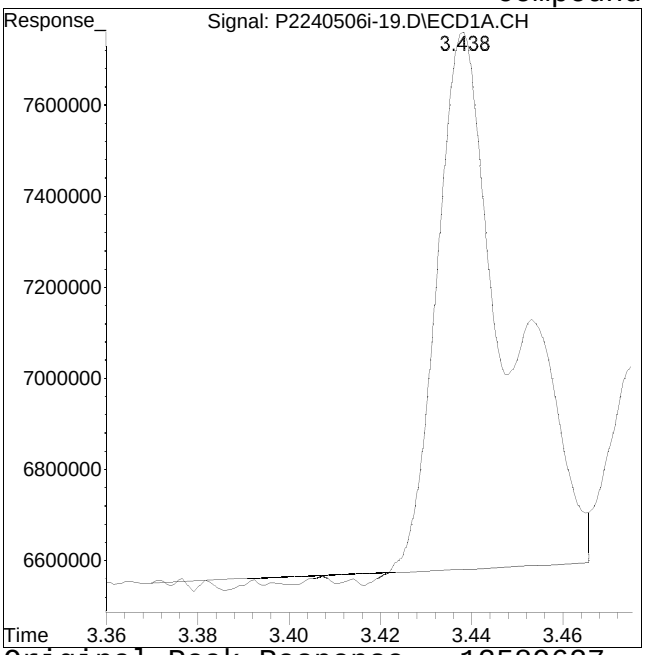


Original Peak Response = 23559354 Manual Peak Response = 10937126 M4
M4 = Poor automated baseline construction.

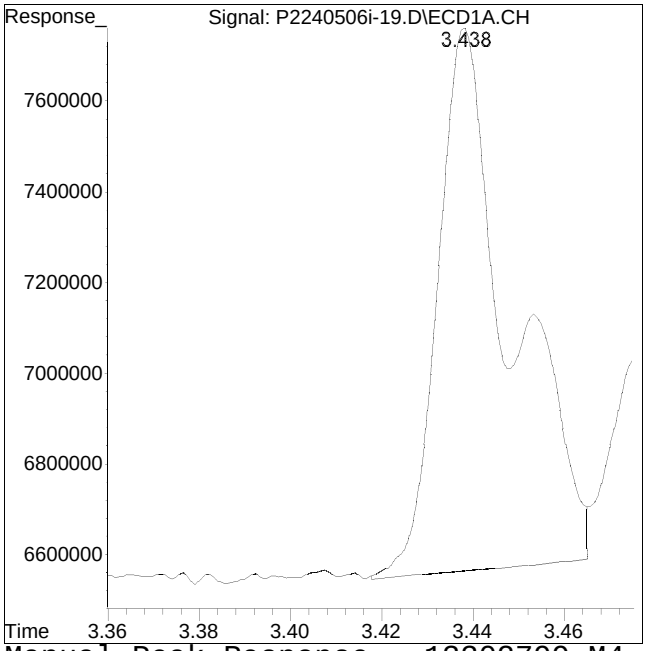
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #13: 1260-5



Original Peak Response = 12589627



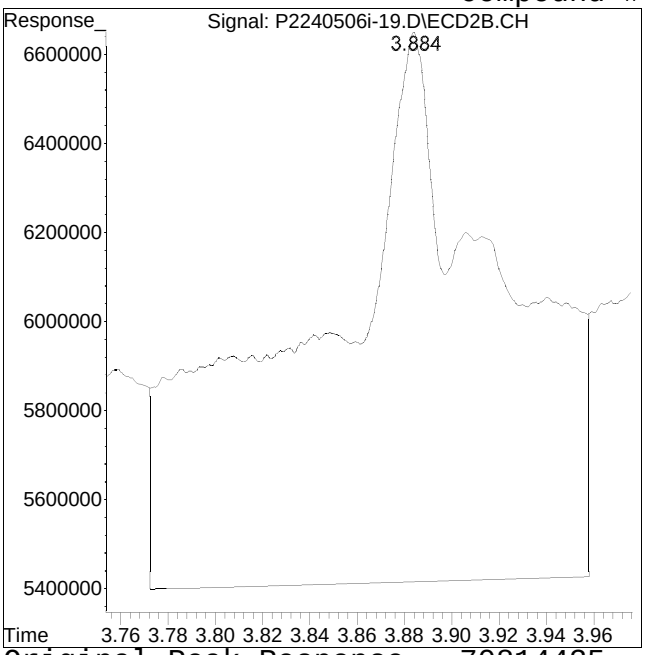
Manual Peak Response = 13302799 M4

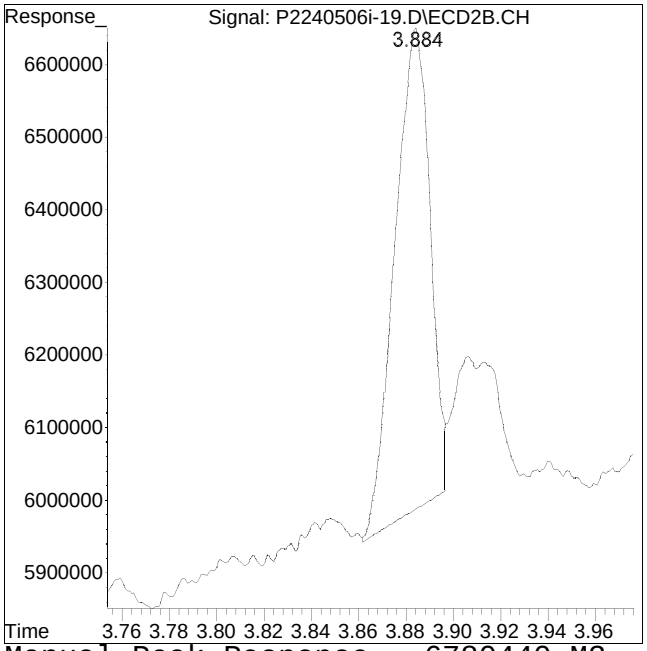
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #64: 1260-5 #2





Original Peak Response = 70814435 Manual Peak Response = 6780440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.275	2.7	77	0.00
3	s	Decachlorobiphenyl		0.847	0.950	-12.2	91	0.00
4	l1	1016-1		0.022	0.021	4.5	78	0.00
5	l1	1016-2		0.049	0.048	2.0	79	0.00
6	l1	1016-3		0.101	0.107	-5.9	84	0.00
7	l1	1016-4		0.040	0.042	-5.0	85	0.00
8	l1	1016-5		0.045	0.044	2.2	80	0.00
9	l2	1260-1		0.065	0.067	-3.1	85	0.00
10	l2	1260-2		0.097	0.101	-4.1	84	0.00
11	l2	1260-3		0.060	0.052	13.3	70	0.00
12	l2	1260-4		0.130	0.113	13.1	70	0.00
13	l2	1260-5		0.091	0.082	9.9	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	109	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	109	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.161	5.8	74	0.00
3	s	Decachlorobiphenyl		0.580	0.641	-10.5	91	0.00
4	l1	1016-1		0.021	0.020	4.8	75	0.00
5	l1	1016-2		0.046	0.046	0.0	79	0.00
6	l1	1016-3		0.092	0.088	4.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.034	0.034	0.0	77	0.00
8	l1	1016-5		0.029	0.026	10.3	71	0.00
9	l2	1260-1		0.054	0.048	11.1	78	0.00
10	l2	1260-2		0.062	0.056	9.7	77	0.00
11	l2	1260-3		0.048	0.044	8.3	74	0.00
12	l2	1260-4		0.096	0.083	13.5	70	0.00
13	l2	1260-5		0.066	0.060	9.1	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	110	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	104	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	111	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18	l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19	l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20	l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21	l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22	l4	1254-5	0.071	0.000	100.0#	0#	-3.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
14) i	2154_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
23) i	4268_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
34) i	1248_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
40) i	3262_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.602	337.4E6	224.1E6	15.558M3	15.077
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.79%	75.39%
3) s	Decachlorobi	4.021	4.534	502.9E6	247.4E6	35.890	35.352
	Spiked Amount 20.000	Range 30 - 150		Recovery =		179.45%#	176.76%#
	Target Compounds						
4) l1	1016-1	1.583	1.804	87072990	59177890	234.537M3	233.086
5) l1	1016-2	1.725	1.975	199.6E6	137.4E6	245.326M3	246.318
6) l1	1016-3	1.915	2.176	442.9E6	266.4E6	264.722M4	238.852
7) l1	1016-4	1.970	2.236	175.5E6	101.6E6	263.118M3	246.165M3
8) l1	1016-5	2.141	2.447	180.9E6	78078033	244.472M4	223.279M4
Sum	1016-1			1086.0E6	642.6E6	1252.176	1187.700
Average	1016-1					250.435	237.540
9) l2	1260-1	2.686	3.058	275.6E6	143.8E6	258.098	220.798M4
10) l2	1260-2	2.816	3.159	415.7E6	168.9E6	258.251M3	226.712M4
11) l2	1260-3	3.132	3.553	213.9E6	132.2E6	213.888M4	228.710

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.288	3.682	465.4E6	249.7E6	217.191M3	214.943
13) l2	1260-5	3.436	3.885	339.8E6	181.9E6	226.233M4	228.376
Sum	1260-1			1710.4E6	876.4E6	1173.661	1119.539
Average	1260-1					234.732	223.908
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

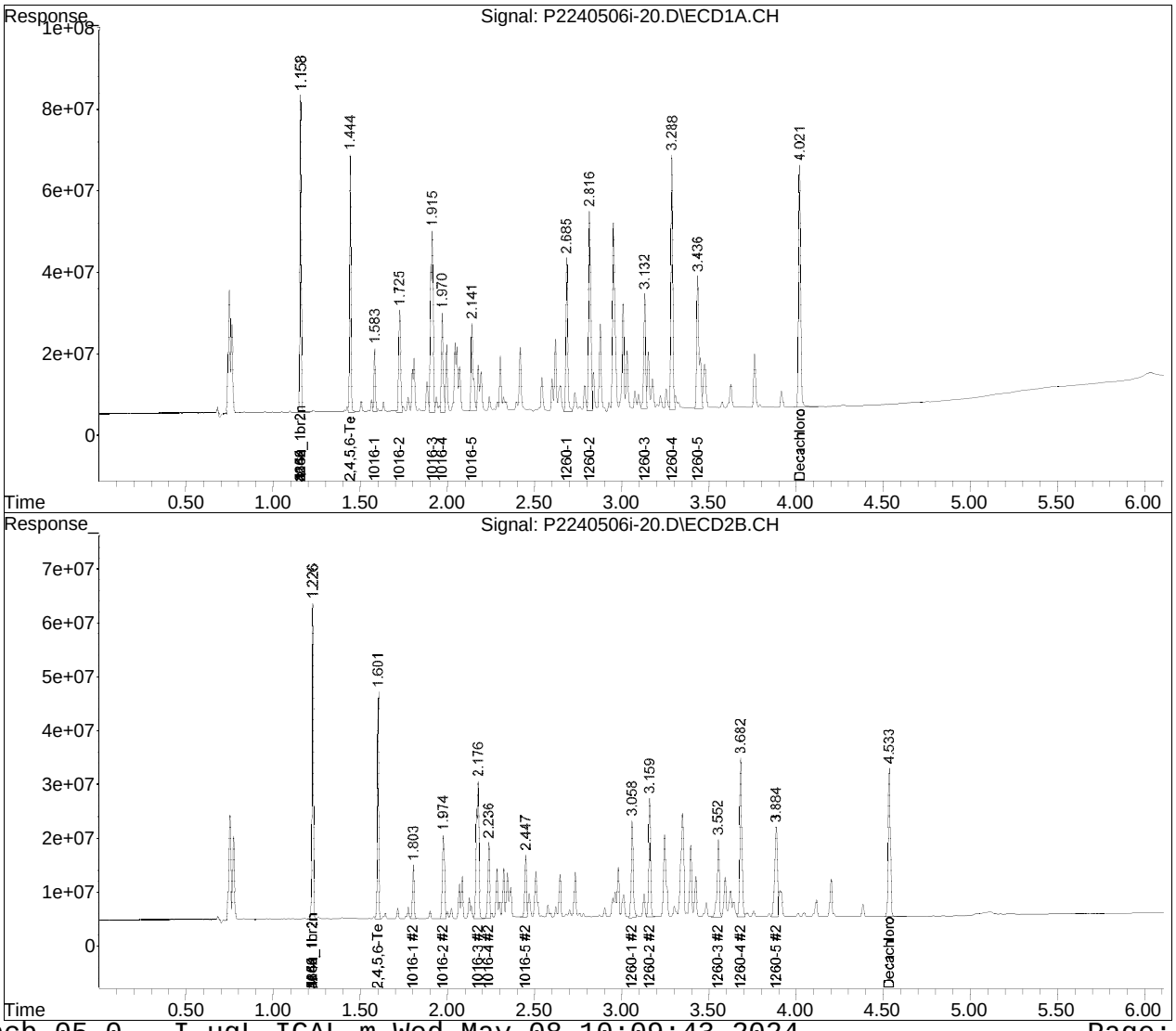
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

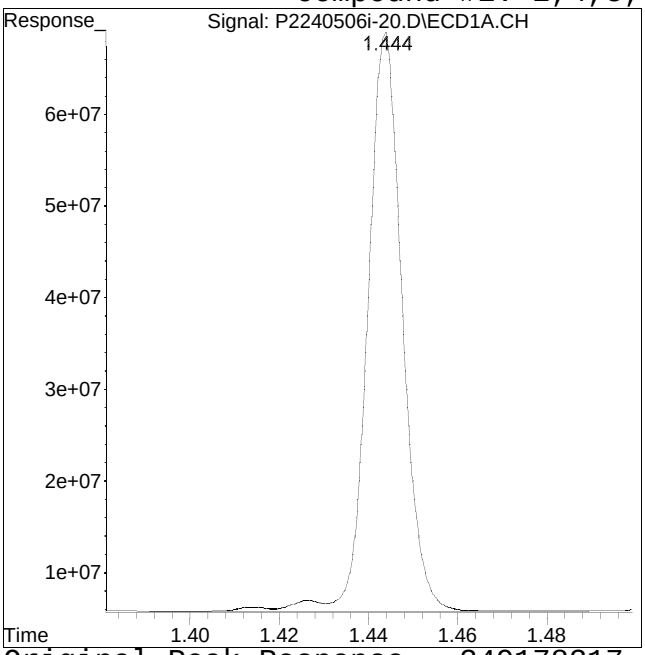
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

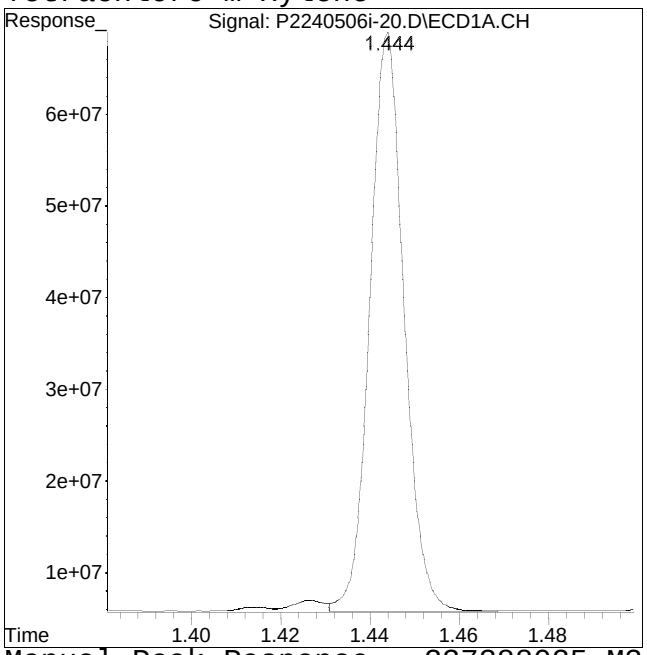


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



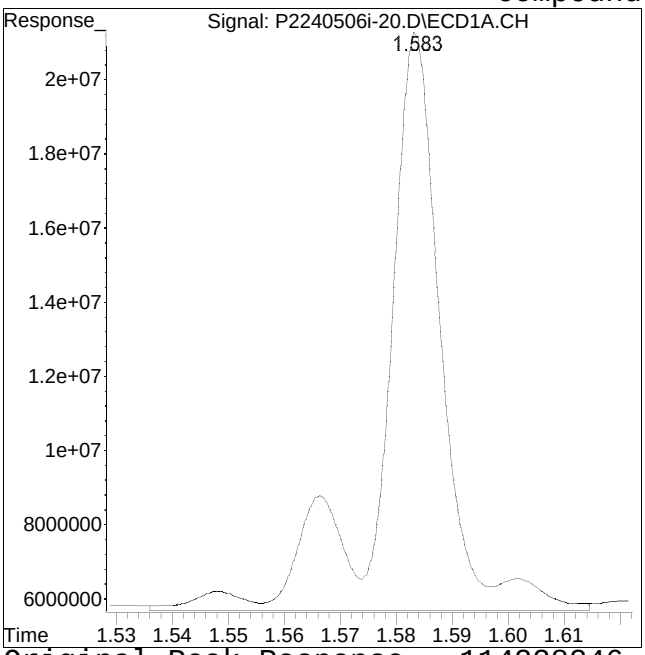


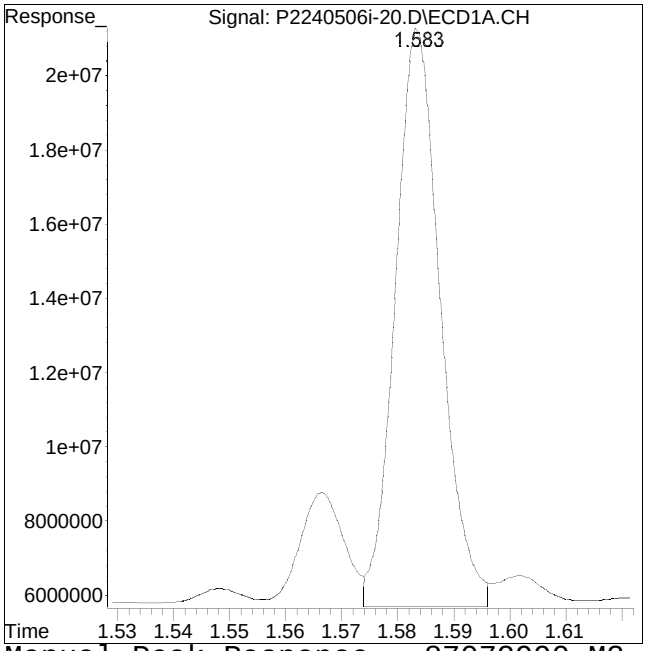
Original Peak Response = 349178317 Manual Peak Response = 337388025 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #4: 1016-1



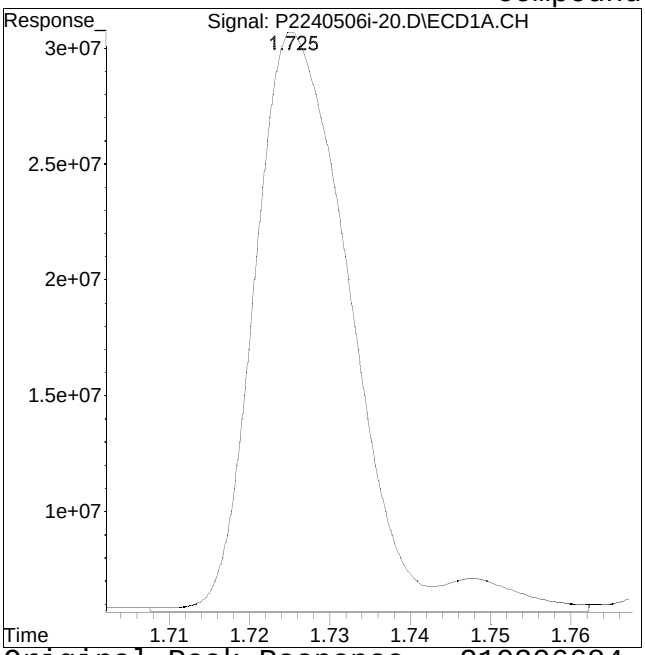


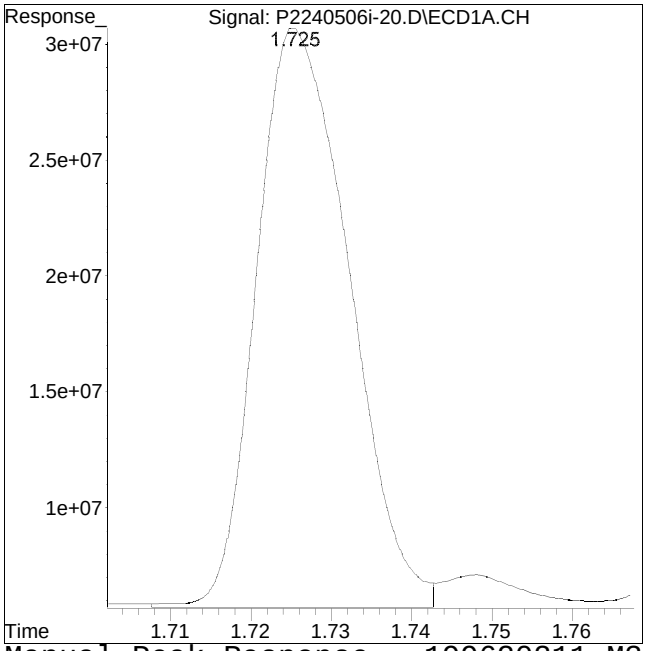
Original Peak Response = 114228246 Manual Peak Response = 87072990 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #5: 1016-2



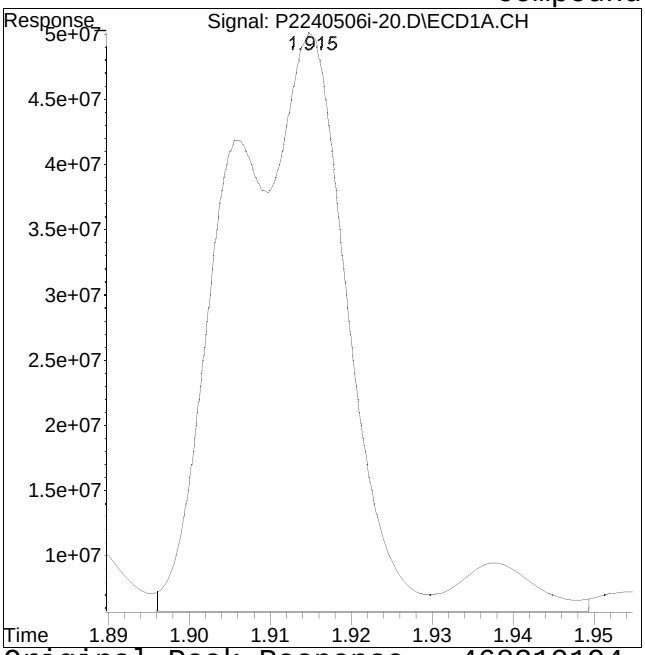


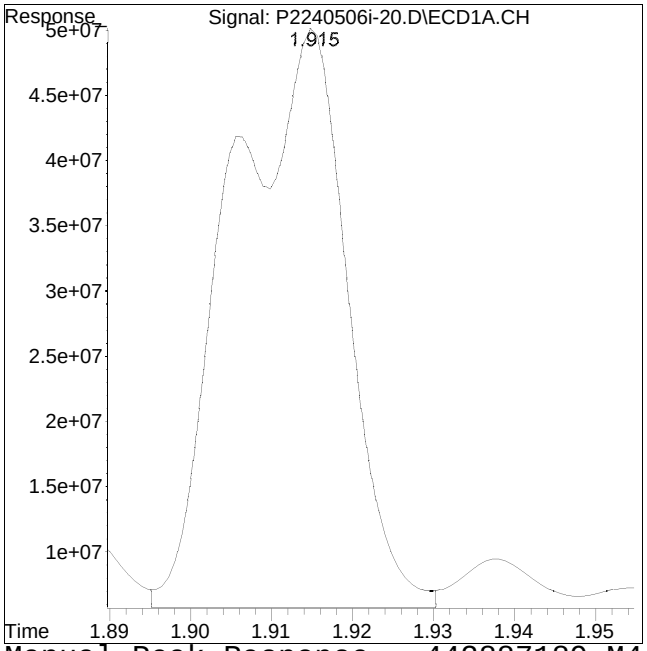
Original Peak Response = 210306684 Manual Peak Response = 199620211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #6: 1016-3



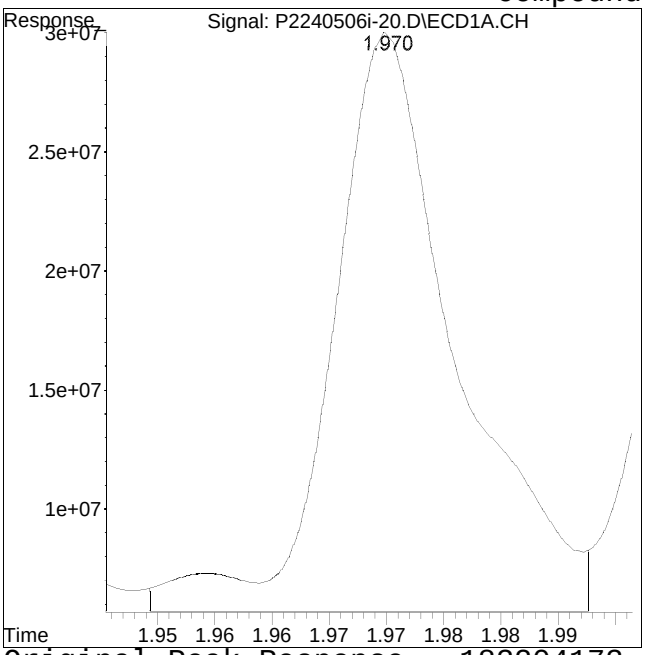


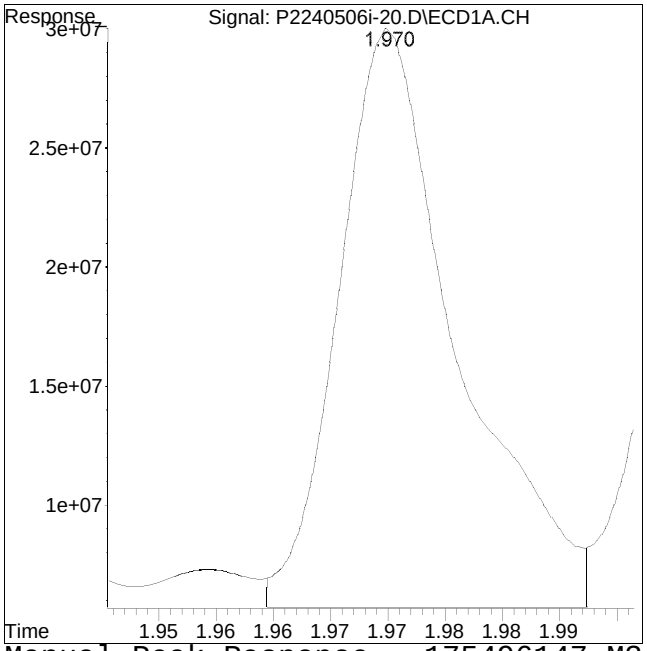
Original Peak Response = 468319194 Manual Peak Response = 442887189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #7: 1016-4



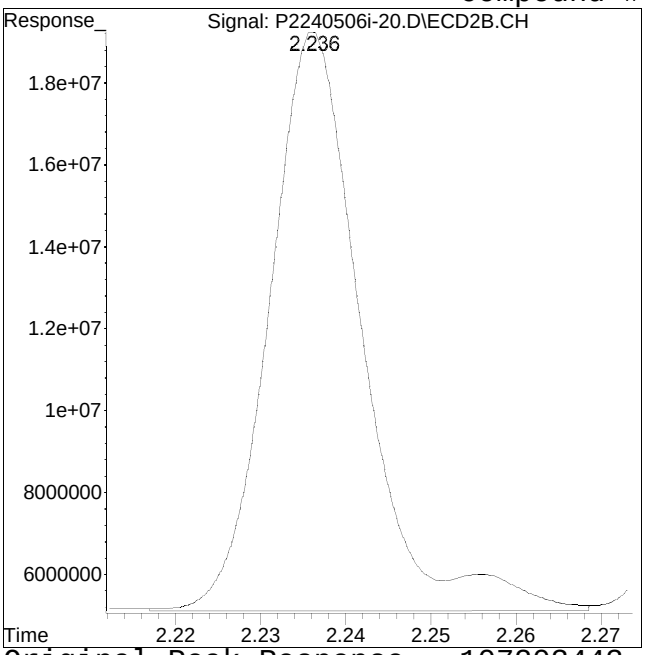


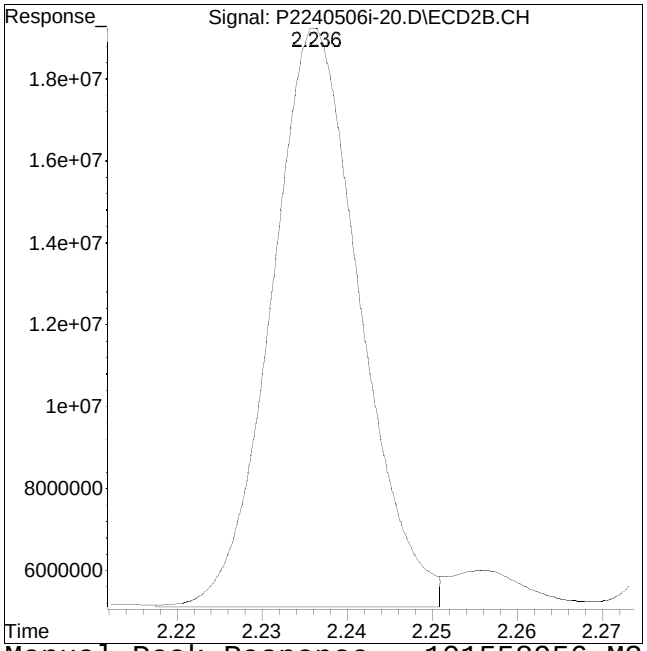
Original Peak Response = 183204173 Manual Peak Response = 175496147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #58: 1016-4 #2



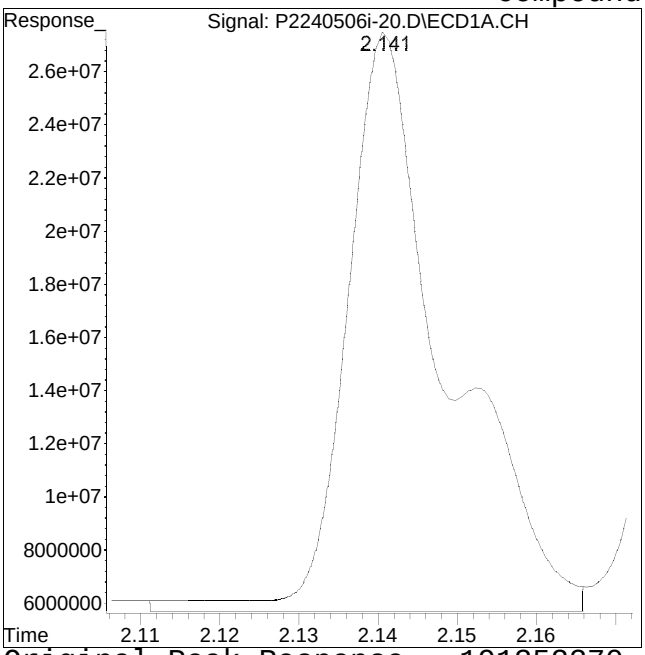


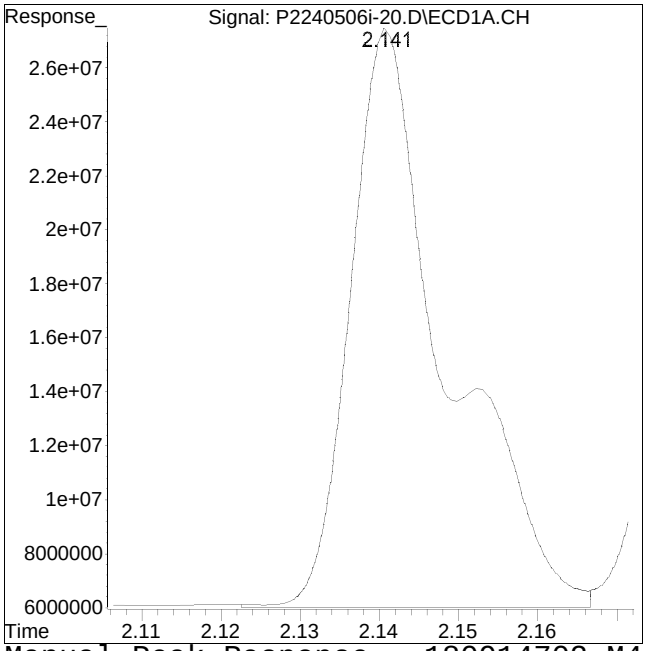
Original Peak Response = 107203443 Manual Peak Response = 101558956 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #8: 1016-5



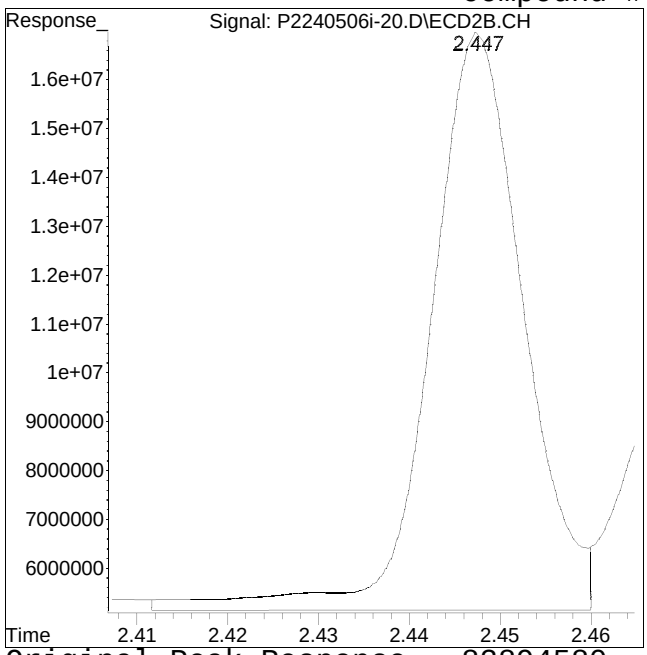


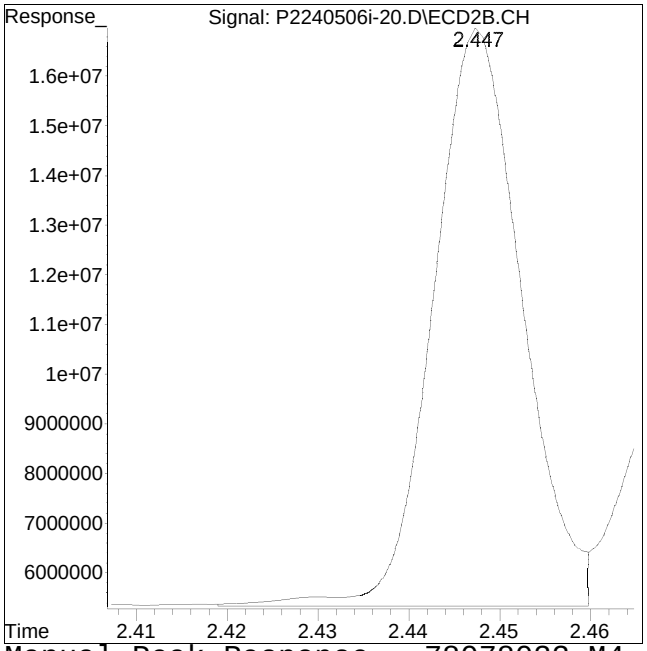
Original Peak Response = 191352370 Manual Peak Response = 180914702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #59: 1016-5 #2



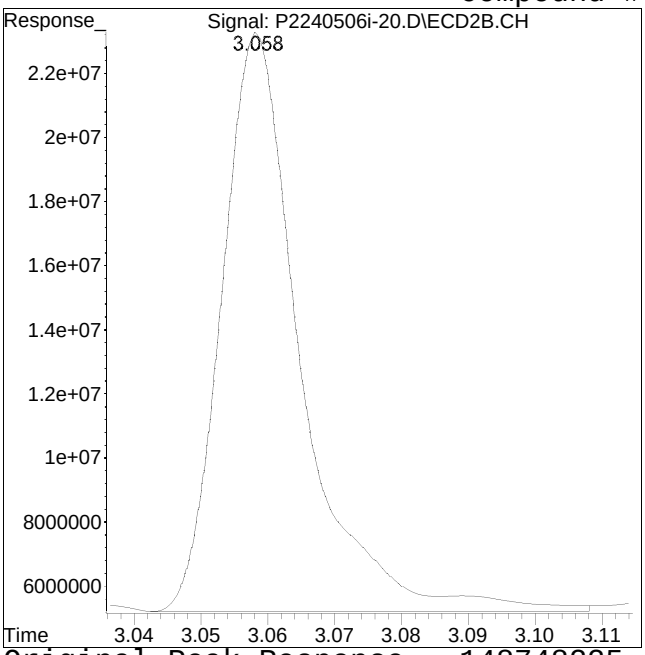


Original Peak Response = 83894580 Manual Peak Response = 78078033 M4
M4 = Poor automated baseline construction.

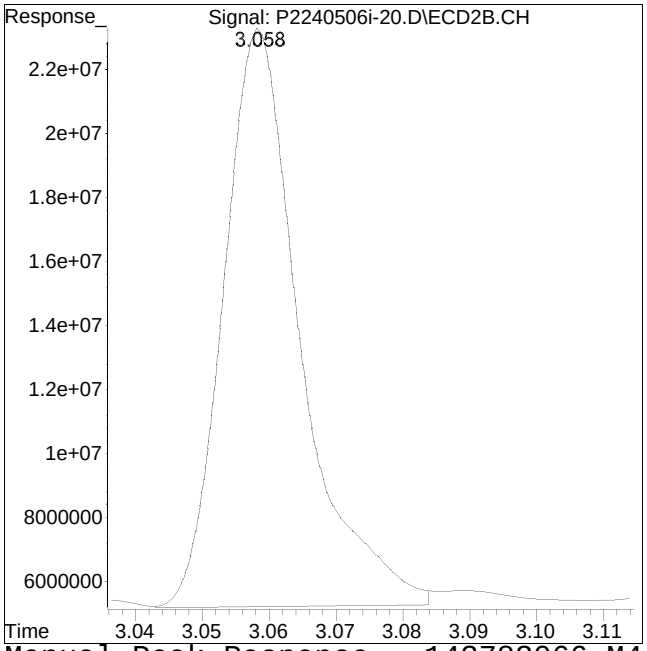
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #60: 1260-1 #2



Original Peak Response = 148748225

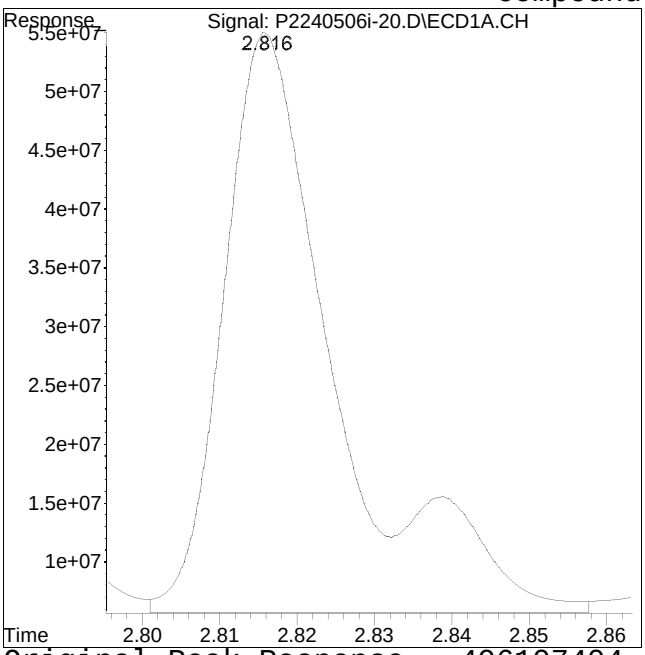


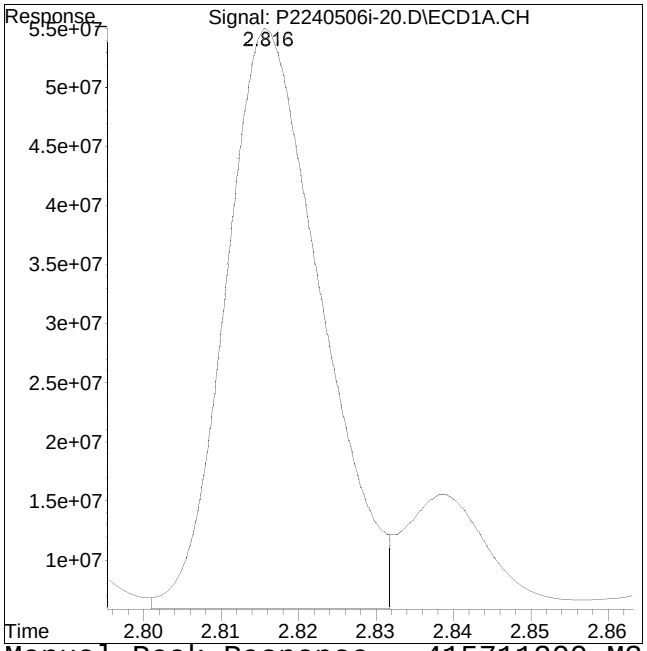
Manual Peak Response = 143783066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #10: 1260-2



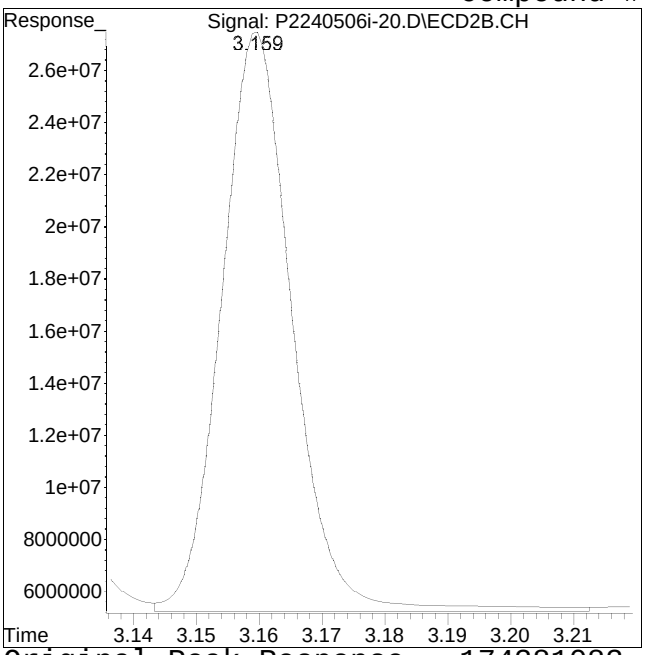


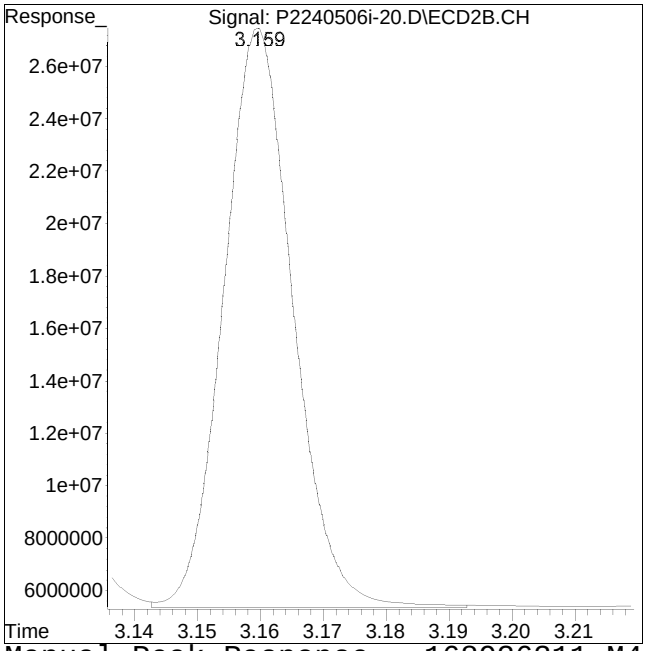
Original Peak Response = 496107404 Manual Peak Response = 415711200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #61: 1260-2 #2



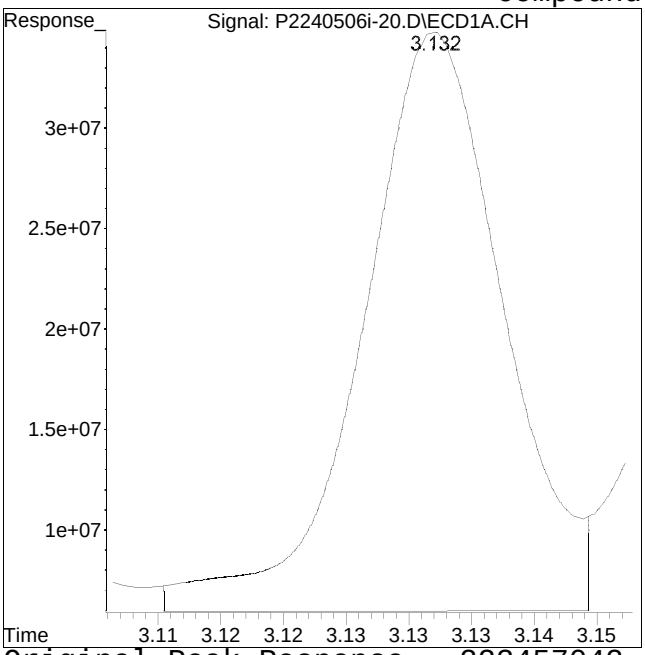


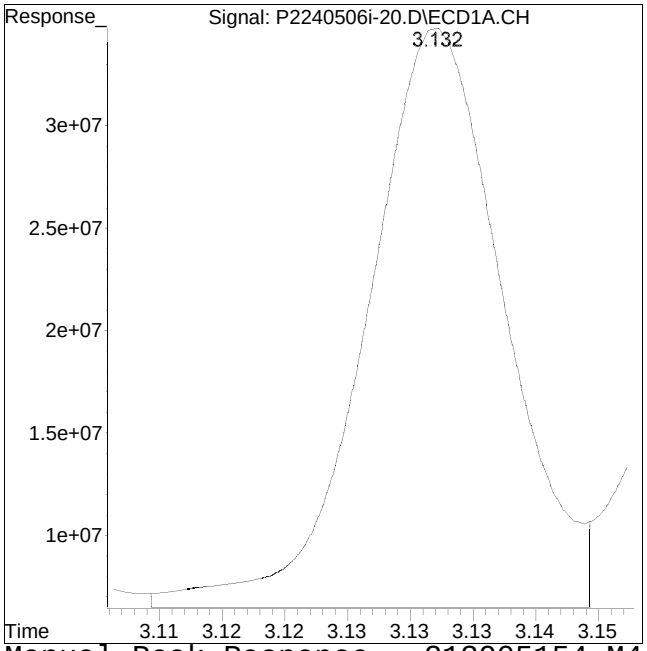
Original Peak Response = 174381083 Manual Peak Response = 168936311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #11: 1260-3



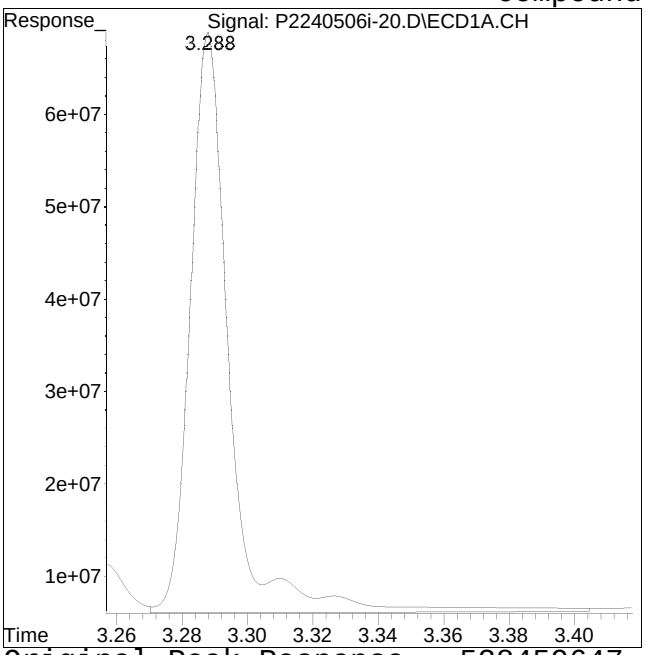


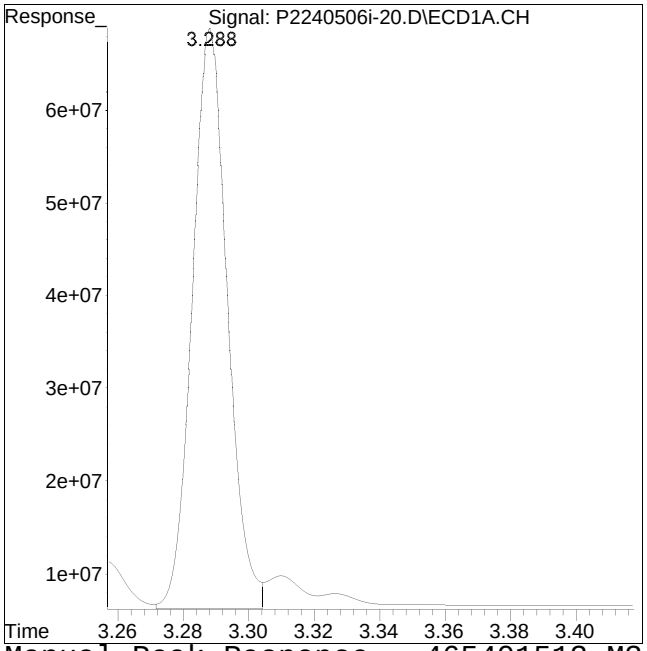
Original Peak Response = 223457042 Manual Peak Response = 213905154 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #12: 1260-4



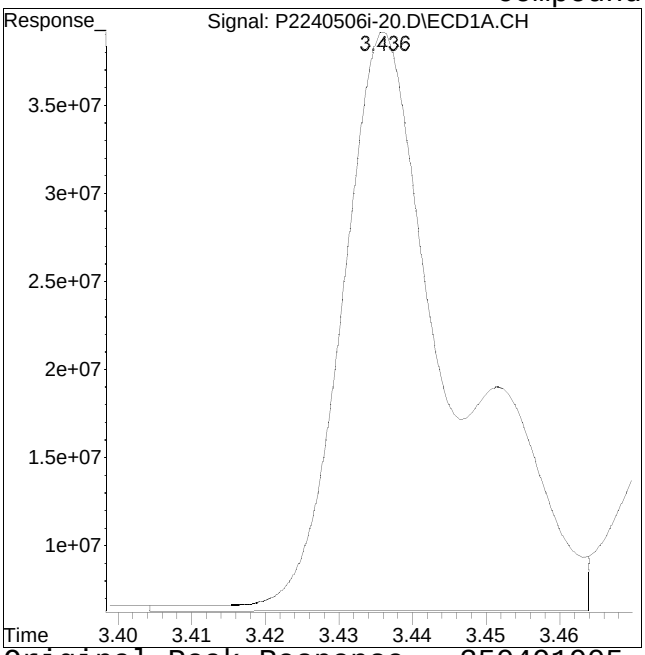


Original Peak Response = 528459647 Manual Peak Response = 465401513 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

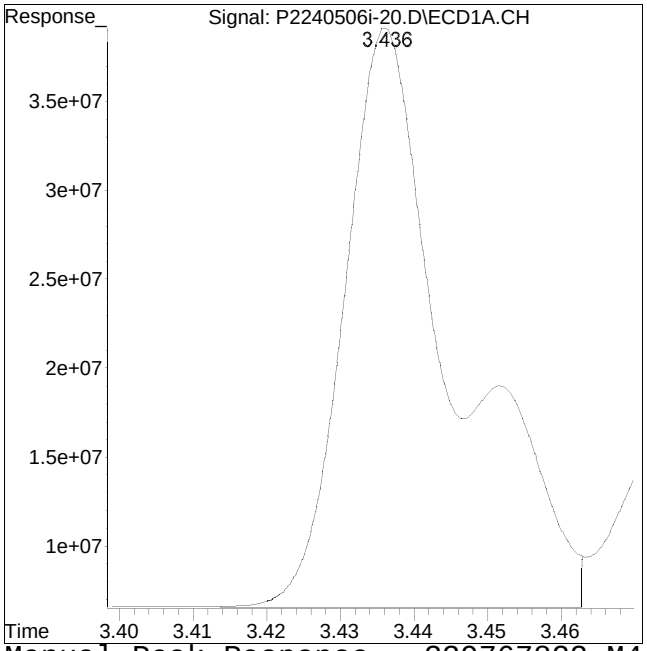
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #13: 1260-5



Original Peak Response = 350491905



Manual Peak Response = 339767822 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 06/14/24 07:26	
Lab File ID	: P2240614a-02	**Init. Calib. Date(s)**	: 05/06/24	05/07/24
Sample No	: WG1934325-1	**Init. Calib. Times**	: 20:49	15:31
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	105	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.33	-	-1.4	20	85	0
Decachlorobiphenyl	0.847	0.877	-	-3.5	20	89	0
1016-1	0.022	0.02	-	9.1	20	80	0
1016-2	0.049	0.048	-	2	20	85	0
1016-3	0.101	0.094	-	6.9	20	78	0
1016-4	0.04	0.037	-	7.5	20	78	0
1016-5	0.045	0.04	-	11.1	20	78	0
1260-1	0.065	0.056	-	13.8	20	76	0
1260-2	0.097	0.085	-	12.4	20	76	0
1260-3	0.06	0.052	-	13.3	20	75	0
1260-4	0.13	0.116	-	10.8	20	76	0
1260-5	0.091	0.079	-	13.2	20	75	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 06/14/24 07:26	
Lab File ID	: P2240614a-02	**Init. Calib. Date(s)**	: 05/06/24	05/07/24
Sample No	: WG1934325-1	**Init. Calib. Times**	: 20:49	15:31
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	86	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.291	-	-4.8	20	72	0
Decachlorobiphenyl #2	0.58	0.821	-	-41.6*	20	102	-.01
1016-1 #2	0.021	0.022	-	-4.8	20	73	0
1016-2 #2	0.046	0.048	-	-4.3	20	73	0
1016-3 #2	0.092	0.095	-	-3.3	20	72	0
1016-4 #2	0.034	0.037	-	-8.8	20	74	0
1016-5 #2	0.029	0.031	-	-6.9	20	74	0
1260-1 #2	0.054	0.057	-	-5.6	20	81	-.01
1260-2 #2	0.062	0.067	-	-8.1	20	80	-.01
1260-3 #2	0.048	0.054	-	-12.5	20	80	-.01
1260-4 #2	0.096	0.11	-	-14.6	20	81	-.01
1260-5 #2	0.066	0.077	-	-16.7	20	82	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 06/15/24 08:00		
Lab File ID	: P2240615a-04	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1934764-1	**Init. Calib. Times**	: 20:49	15:31	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	96	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.456	-	-11.1	20	84	0
Decachlorobiphenyl	0.847	0.774	-	8.6	20	72	0
1016-1	0.022	0.022	-	0	20	79	0
1016-2	0.049	0.051	-	-4.1	20	82	0
1016-3	0.101	0.105	-	-4	20	80	0
1016-4	0.04	0.041	-	-2.5	20	78	0
1016-5	0.045	0.045	-	0	20	79	0
1260-1	0.065	0.057	-	12.3	20	70	0
1260-2	0.097	0.087	-	10.3	20	71	0
1260-3	0.06	0.051	-	15	20	66	0
1260-4	0.13	0.11	-	15.4	20	66	0
1260-5	0.091	0.074	-	18.7	20	63	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 06/15/24 08:00		
Lab File ID	: P2240615a-04	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1934764-1	**Init. Calib. Times**	: 20:49	15:31	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	83	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.349	-	-9.5	20	72	0
Decachlorobiphenyl #2	0.58	0.776	-	-33.8*	20	93	-.01
1016-1 #2	0.021	0.023	-	-9.5	20	75	0
1016-2 #2	0.046	0.051	-	-10.9	20	75	0
1016-3 #2	0.092	0.1	-	-8.7	20	74	0
1016-4 #2	0.034	0.039	-	-14.7	20	76	0
1016-5 #2	0.029	0.033	-	-13.8	20	75	0
1260-1 #2	0.054	0.056	-	-3.7	20	78	-.01
1260-2 #2	0.062	0.067	-	-8.1	20	77	-.01
1260-3 #2	0.048	0.055	-	-14.6	20	79	-.01
1260-4 #2	0.096	0.108	-	-12.5	20	77	-.01
1260-5 #2	0.066	0.075	-	-13.6	20	76	-.01

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Jun 2024   7:26
Operator : pest2:mhg
Sample   : wg1934325-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc   : wg1934325,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:03:51 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.330	-1.4	85	0.00
3	s	Decachlorobiphenyl		0.847	0.877	-3.5	89	0.00
4	l1	1016-1		0.022	0.020	9.1	80	0.00
5	l1	1016-2		0.049	0.048	2.0	85	0.00
6	l1	1016-3		0.101	0.094	6.9	78	0.00
7	l1	1016-4		0.040	0.037	7.5	78	0.00
8	l1	1016-5		0.045	0.040	11.1	78	0.00
9	l2	1260-1		0.065	0.056	13.8	76	0.00
10	l2	1260-2		0.097	0.085	12.4	76	0.00
11	l2	1260-3		0.060	0.052	13.3	75	0.00
12	l2	1260-4		0.130	0.116	10.8	76	0.00
13	l2	1260-5		0.091	0.079	13.2	75	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	86	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.291	-4.8	72	0.00
54	s	Decachlorobiphenyl #2		0.580	0.821	-41.6#	102	-0.01
55	l1	1016-1 #2		0.021	0.022	-4.8	73	0.00
56	l1	1016-2 #2		0.046	0.048	-4.3	73	0.00
57	l1	1016-3 #2		0.092	0.095	-3.3	72	0.00
58	l1	1016-4 #2		0.034	0.037	-8.8	74	0.00
59	l1	1016-5 #2		0.029	0.031	-6.9	74	0.00
60	l2	1260-1 #2		0.054	0.057	-5.6	81	-0.01
61	l2	1260-2 #2		0.062	0.067	-8.1	80	-0.01
62	l2	1260-3 #2		0.048	0.054	-12.5	80	-0.01
63	l2	1260-4 #2		0.096	0.110	-14.6	81	-0.01
64	l2	1260-5 #2		0.066	0.077	-16.7	82	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Jun 2024   7:26
Operator : pest2:mhg
Sample   : wg1934325-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp1154
5 lvi icv ccal (Sig #2)
Misc   : wg1934325,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:03:51 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 7:26
Operator : pest2:mhg
Sample : wg1934325-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc : wg1934325,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:03:51 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.227	438.2E6	264.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.443	1.599	372.9E6	218.9E6	16.231	16.774
	Spiked Amount	20.000	Range 30 - 150		Recovery =	81.16%	83.87%
3) s	Decachlorobi	4.014	4.523	492.1E6	278.4E6	33.148	45.296
	Spiked Amount	20.000	Range 30 - 150		Recovery =	165.74%#	226.48%#
	Target Compounds						
4) l1	1016-1	1.581	1.800	89516459	57646417	227.571	258.547
5) l1	1016-2	1.722	1.970	212.3E6	127.8E6	246.246M1	261.020
6) l1	1016-3	1.911	2.170	410.5E6	251.9E6	231.555M4	257.132
7) l1	1016-4	1.965	2.230	160.7E6	97643354	227.453M3	269.502M3
8) l1	1016-5	2.136	2.441	175.0E6	82286807	223.248	267.953
	Sum 1016-1			1048.1E6	617.3E6	1156.073	1314.153
	Average 1016-1					231.215	262.831
9) l2	1260-1	2.679	3.049	246.2E6	150.5E6	217.602	263.164M1
10) l2	1260-2	2.809	3.151	372.8E6	176.5E6	218.567	269.731
11) l2	1260-3	3.125	3.543	229.7E6	143.0E6	216.744	281.781
12) l2	1260-4	3.281	3.672	506.3E6	290.7E6	222.983	285.019
13) l2	1260-5	3.428	3.874	347.1E6	204.3E6	218.123M1	292.146
	Sum 1260-1			1702.0E6	965.0E6	1094.018	1391.840
	Average 1260-1					218.804	278.368
	Sum 1221-2			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 7:26
Operator : pest2:mhg
Sample : wg1934325-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc : wg1934325,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:03:51 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

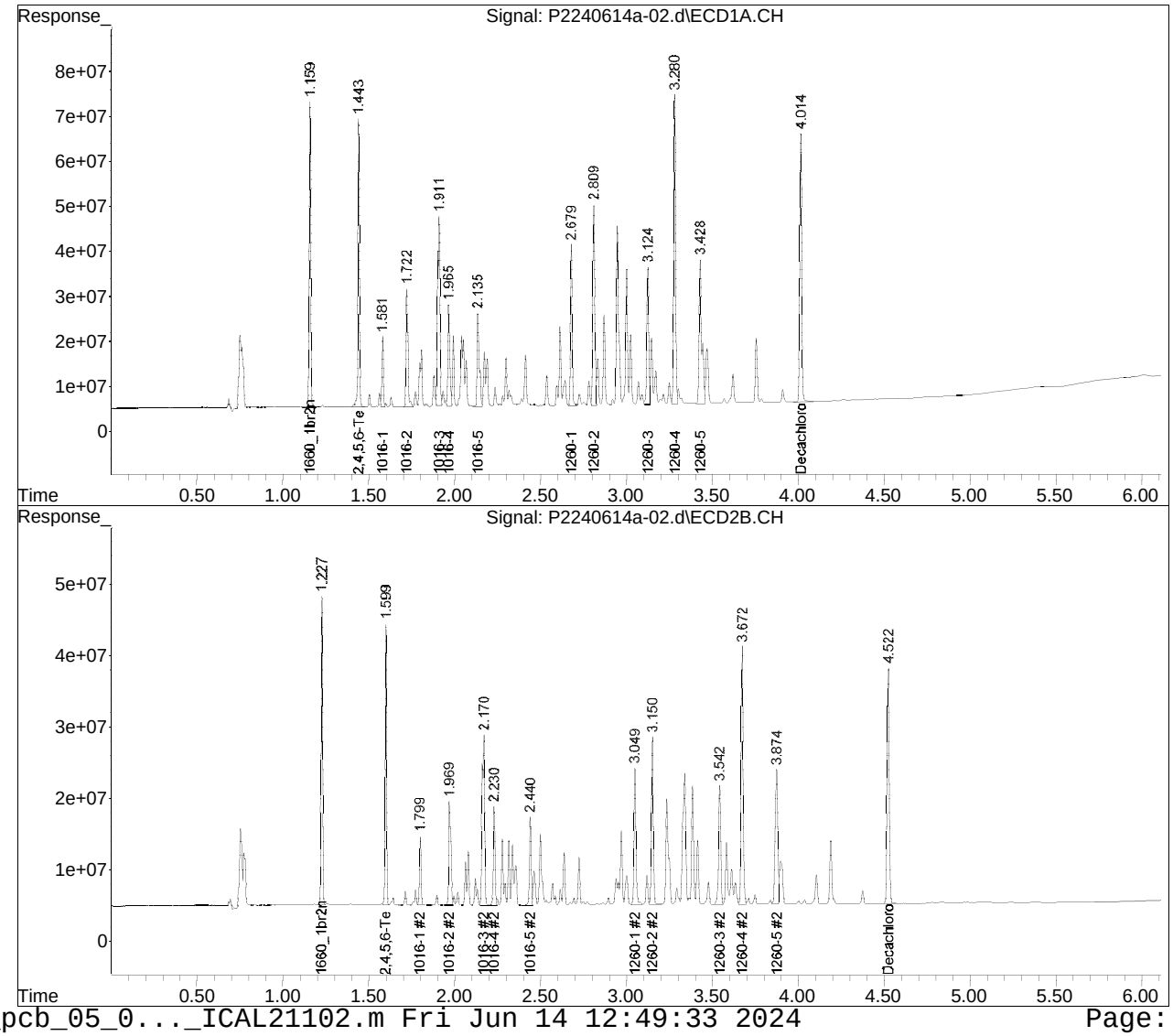
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 7:26
Operator : pest2:mhg
Sample : wg1934325-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp1154
Misc : wg1934325,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 08:03:51 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

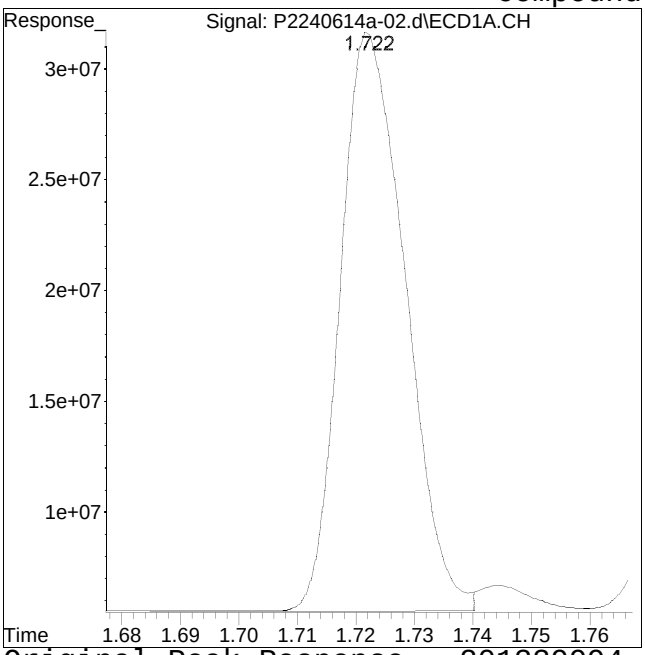
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

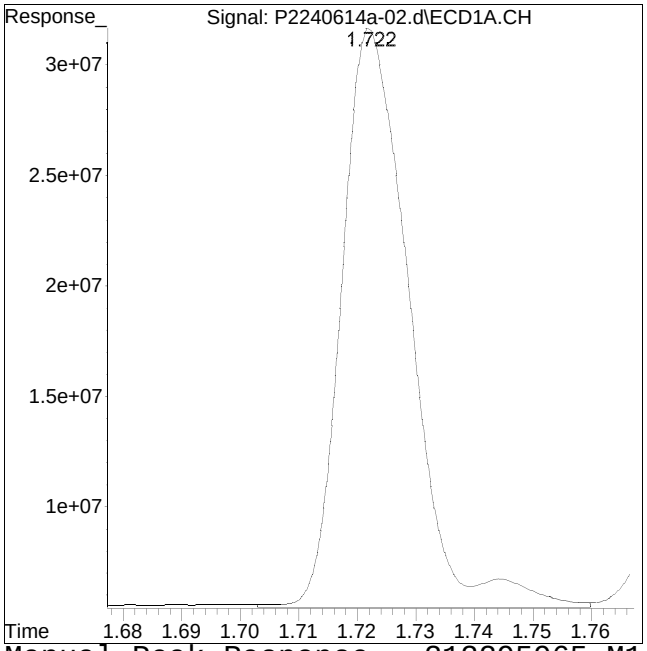


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-02.d Operator : pest2:mhg
Date Inj'd : 6/14/2024 7:26 Instrument : Pest 2
Sample : wg1934325-1,42,, +1660 pp1Quant Date : 6/14/2024 8:03 am

Compound #5: 1016-2



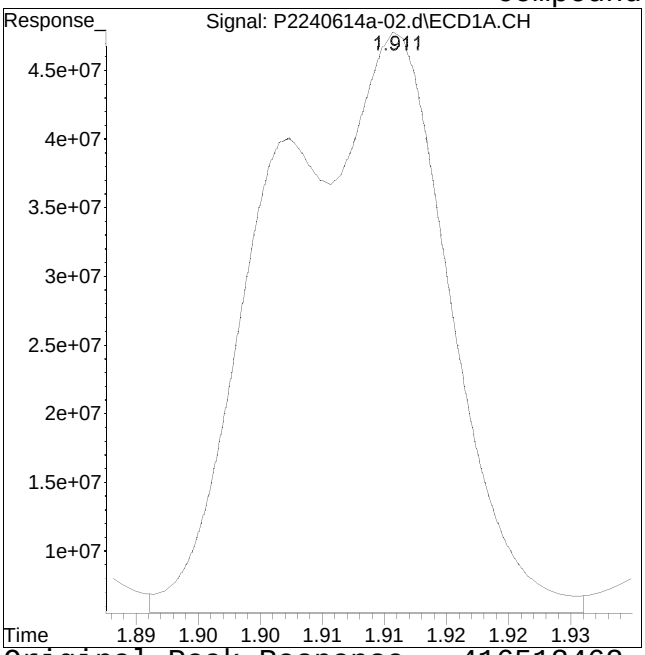


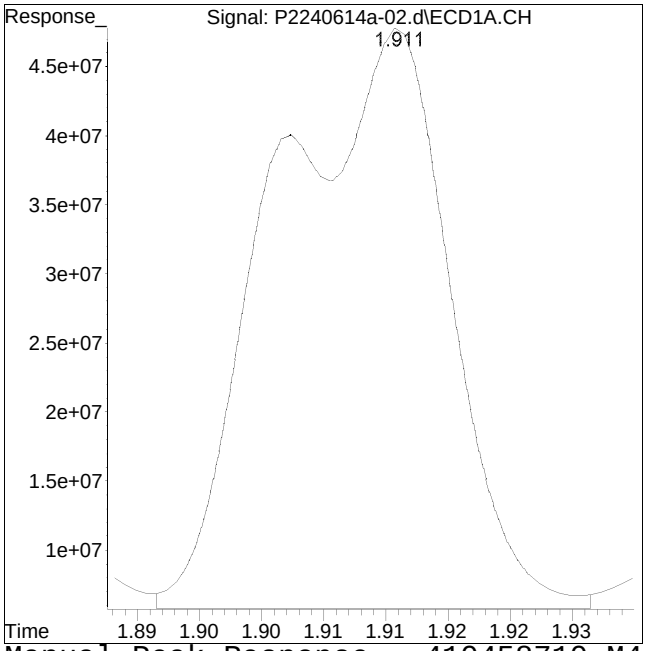
Original Peak Response = 201339994 Manual Peak Response = 212295965 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-02.d Operator : pest2:mhg
Date Inj'd : 6/14/2024 7:26 Instrument : Pest 2
Sample : wg1934325-1,42,, +1660 pp1Quant Date : 6/14/2024 8:03 am

Compound #6: 1016-3



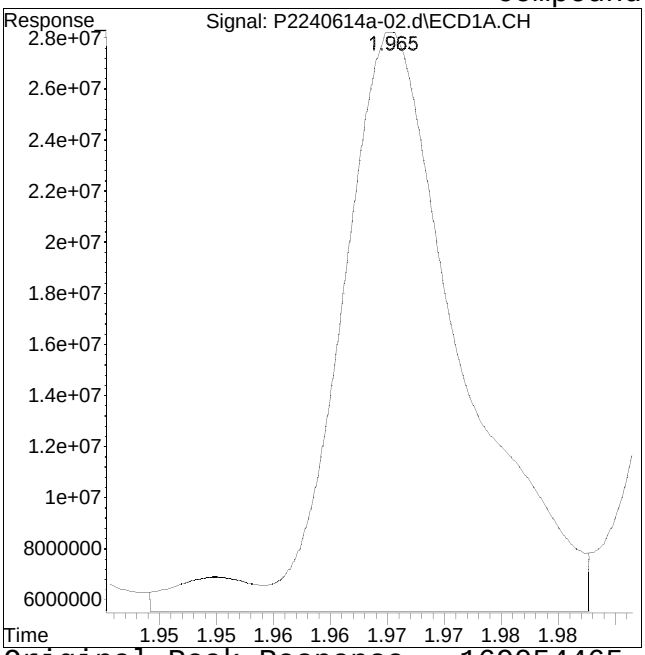


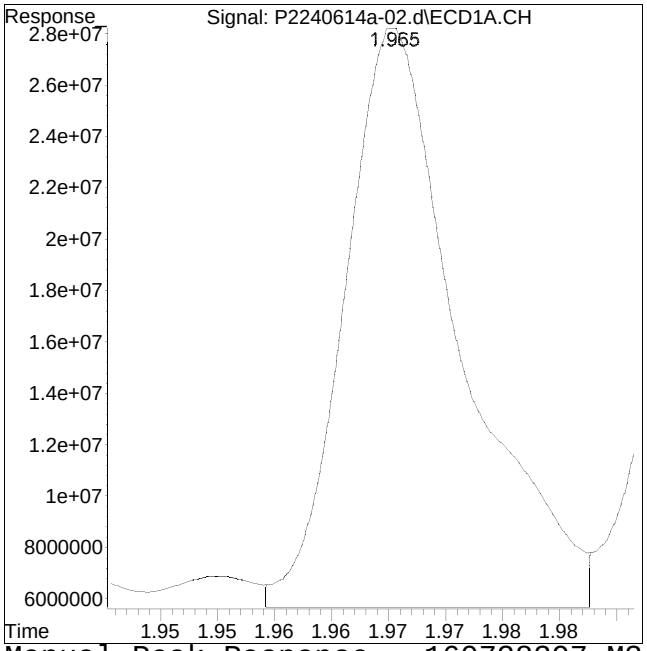
Original Peak Response = 416512462 Manual Peak Response = 410458710 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-02.d Operator : pest2:mhg
Date Inj'd : 6/14/2024 7:26 Instrument : Pest 2
Sample : wg1934325-1,42,, +1660 pp1Quant Date : 6/14/2024 8:03 am

Compound #7: 1016-4



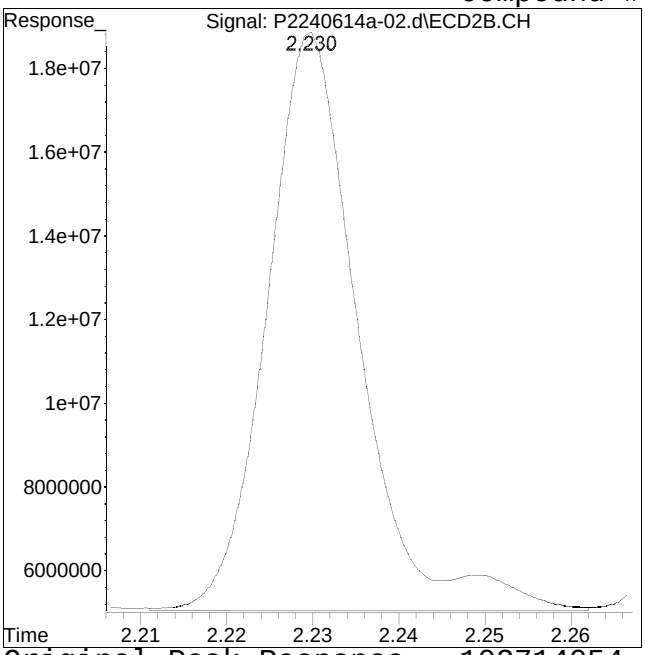


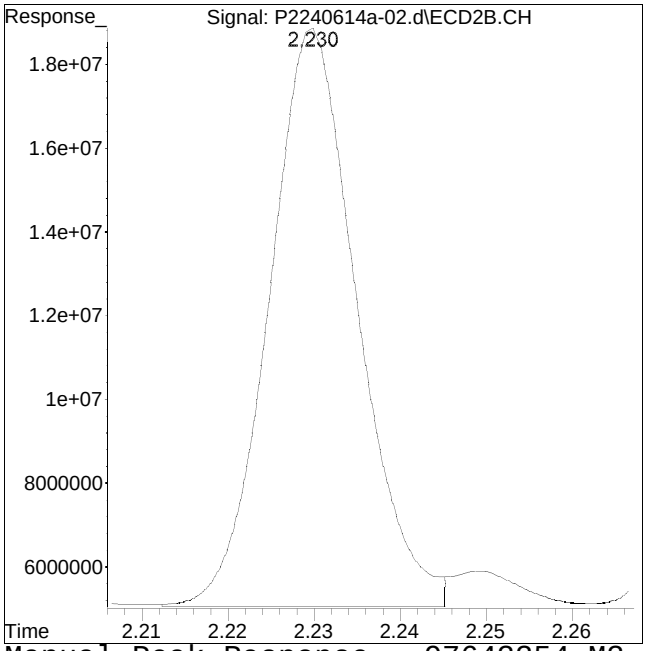
Original Peak Response = 169054465 Manual Peak Response = 160738397 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-02.d Operator : pest2:mhg
Date Inj'd : 6/14/2024 7:26 Instrument : Pest 2
Sample : wg1934325-1,42,, +1660 pp1Quant Date : 6/14/2024 8:03 am

Compound #58: 1016-4 #2



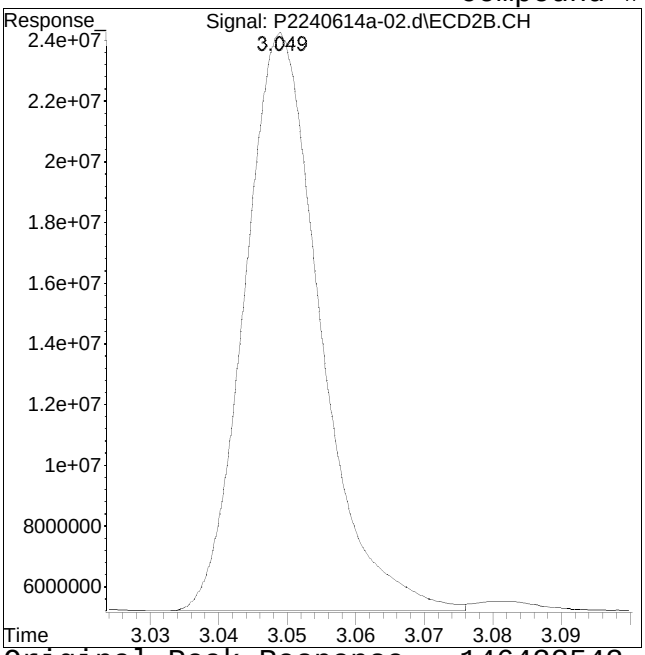


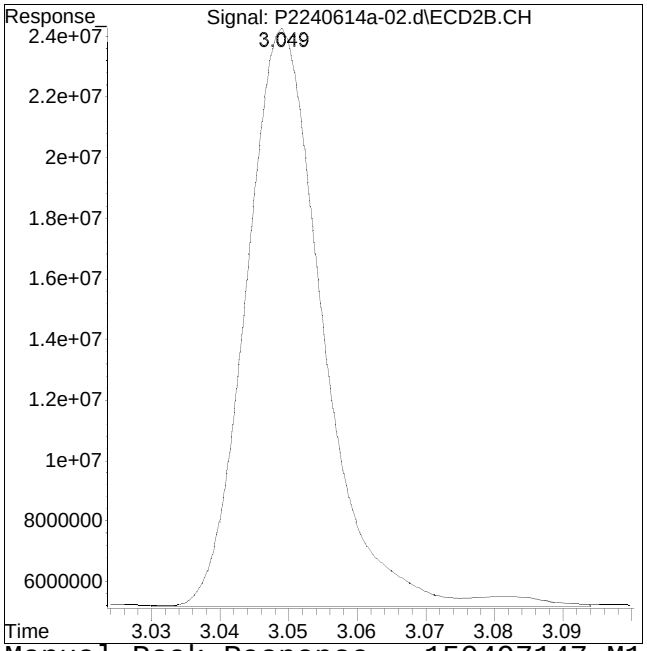
Original Peak Response = 102714054 Manual Peak Response = 97643354 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-02.d Operator : pest2:mhg
Date Inj'd : 6/14/2024 7:26 Instrument : Pest 2
Sample : wg1934325-1,42,, +1660 pp1Quant Date : 6/14/2024 8:03 am

Compound #60: 1260-1 #2



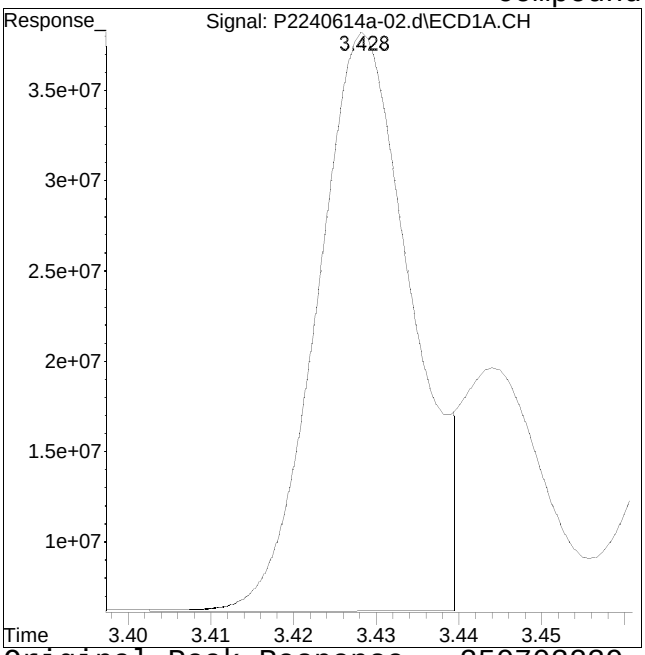


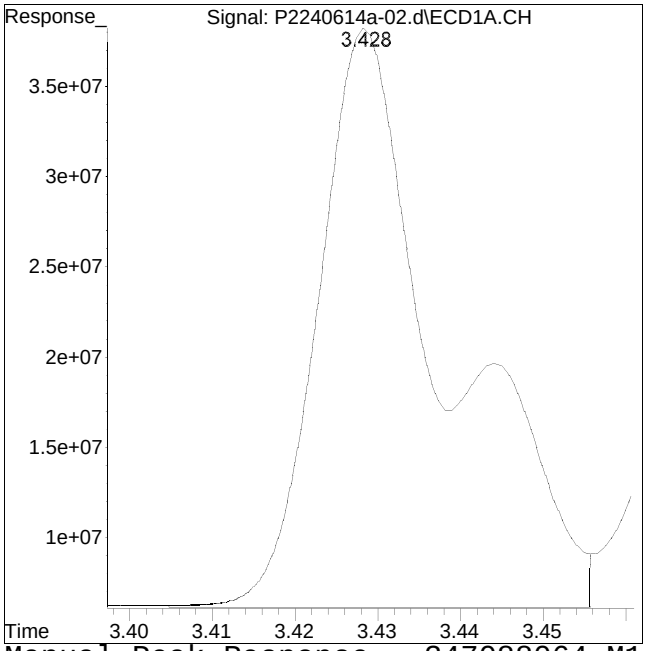
Original Peak Response = 146432543 Manual Peak Response = 150497147 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-02.d Operator : pest2:mhg
Date Inj'd : 6/14/2024 7:26 Instrument : Pest 2
Sample : wg1934325-1,42,, +1660 pp1Quant Date : 6/14/2024 8:03 am

Compound #13: 1260-5





Original Peak Response = 250703239 Manual Peak Response = 347088064 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:00
Operator : pest2:mhg
Sample   : wg1934764-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc   : wg1934764,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 08:09:16 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.456	-11.1	84	0.00
3	s	Decachlorobiphenyl		0.847	0.774	8.6	72	0.00
4	l1	1016-1		0.022	0.022	0.0	79	0.00
5	l1	1016-2		0.049	0.051	-4.1	82	0.00
6	l1	1016-3		0.101	0.105	-4.0	80	0.00
7	l1	1016-4		0.040	0.041	-2.5	78	0.00
8	l1	1016-5		0.045	0.045	0.0	79	0.00
9	l2	1260-1		0.065	0.057	12.3	70	0.00
10	l2	1260-2		0.097	0.087	10.3	71	0.00
11	l2	1260-3		0.060	0.051	15.0	66	0.00
12	l2	1260-4		0.130	0.110	15.4	66	0.00
13	l2	1260-5		0.091	0.074	18.7	63	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	83	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.349	-9.5	72	0.00
54	s	Decachlorobiphenyl #2		0.580	0.776	-33.8#	93	-0.01
55	l1	1016-1 #2		0.021	0.023	-9.5	75	0.00
56	l1	1016-2 #2		0.046	0.051	-10.9	75	0.00
57	l1	1016-3 #2		0.092	0.100	-8.7	74	0.00
58	l1	1016-4 #2		0.034	0.039	-14.7	76	0.00
59	l1	1016-5 #2		0.029	0.033	-13.8	75	0.00
60	l2	1260-1 #2		0.054	0.056	-3.7	78	-0.01
61	l2	1260-2 #2		0.062	0.067	-8.1	77	-0.01
62	l2	1260-3 #2		0.048	0.055	-14.6	79	-0.01
63	l2	1260-4 #2		0.096	0.108	-12.5	77	-0.01
64	l2	1260-5 #2		0.066	0.075	-13.6	76	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:00
Operator : pest2:mhg
Sample   : wg1934764-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc   : wg1934764,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 08:09:16 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:00
Operator : pest2:mhg
Sample : wg1934764-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc : wg1934764,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 08:09:16 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.156	1.225	398.9E6	255.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.442	1.599	371.6E6	220.6E6	17.767	17.522
	Spiked Amount 20.000	Range 30 - 150		Recovery =		88.83%	87.61%
3) s	Decachlorobi	4.013	4.523	395.4E6	253.8E6	29.258	42.817
	Spiked Amount 20.000	Range 30 - 150		Recovery =		146.29%	214.08%#
	Target Compounds						
4) l1	1016-1	1.580	1.800	88122720	59374758	246.089	276.118
5) l1	1016-2	1.721	1.970	205.4E6	131.5E6	261.717M1	278.394
6) l1	1016-3	1.910	2.170	418.9E6	256.4E6	259.593	271.388
7) l1	1016-4	1.965	2.231	162.0E6	100.1E6	251.846M3	286.338
8) l1	1016-5	2.135	2.441	177.6E6	83303644	248.885	281.267
Sum	1016-1			1052.1E6	630.6E6	1268.129	1393.504
Average	1016-1					253.626	278.701
9) l2	1260-1	2.678	3.050	227.6E6	143.9E6	220.934M4	260.852M1
10) l2	1260-2	2.809	3.151	348.8E6	170.9E6	224.669M4	270.740M4
11) l2	1260-3	3.125	3.544	202.7E6	139.8E6	210.168M4	285.712M4
12) l2	1260-4	3.280	3.673	437.2E6	275.6E6	211.550M4	280.112M4
13) l2	1260-5	3.428	3.875	293.4E6	191.3E6	202.567M1	283.571
Sum	1260-1			1509.8E6	921.4E6	1069.889	1380.987 I
Average	1260-1					213.978	276.197 I

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:00
Operator : pest2:mhg
Sample : wg1934764-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp11545 lvi icv ccal (Sig #2)
Misc : wg1934764,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 08:09:16 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

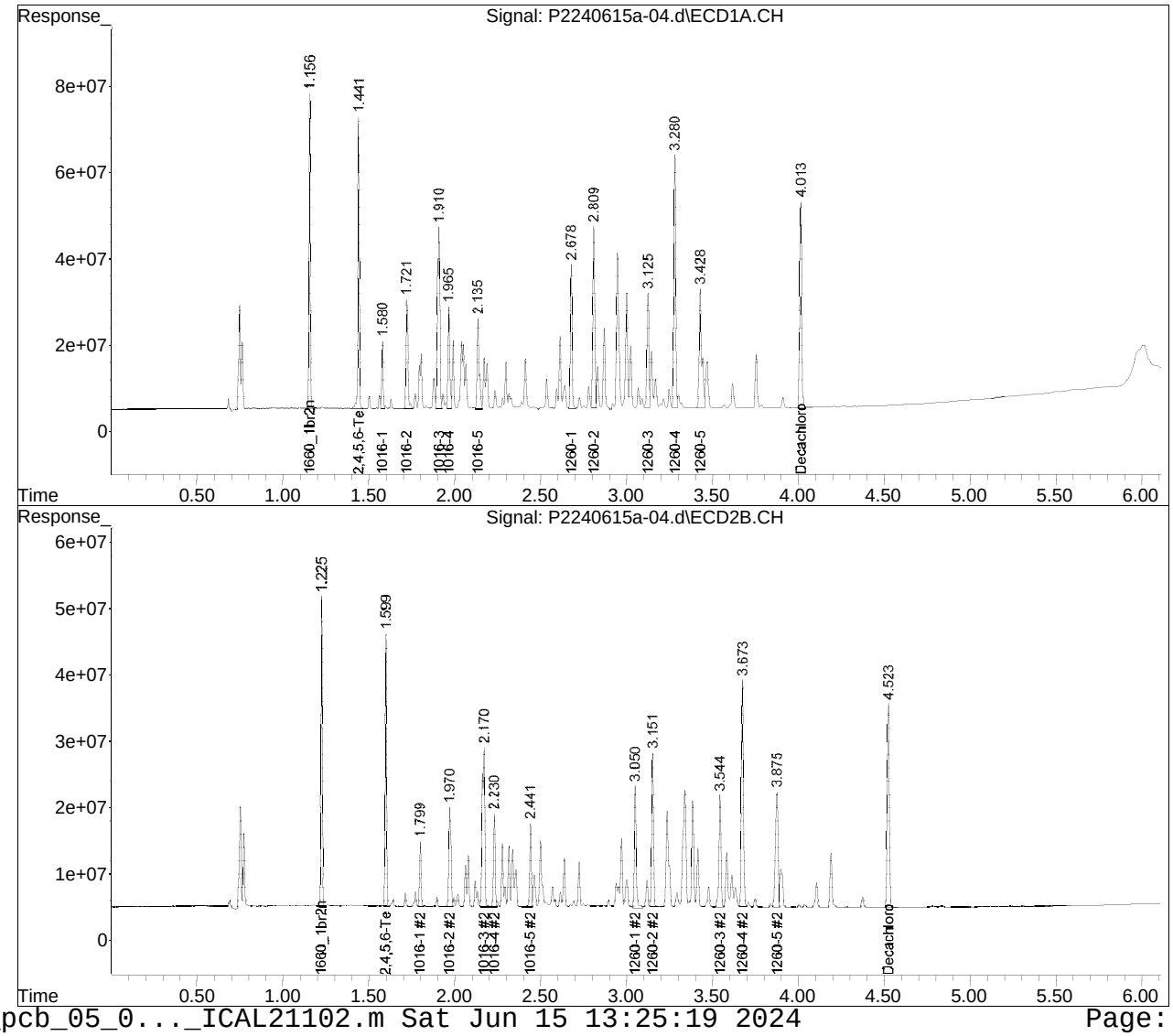
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240615a\
Data File : P2240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:00
Operator : pest2:mhg
Sample : wg1934764-1,42,, +1660 pp11545 lvi icv ccal (Sig #1); +1660 pp1154
Misc : wg1934764,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 15 08:09:16 2024
Quant Method : I:\PCB\Pest2\2024\240615A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

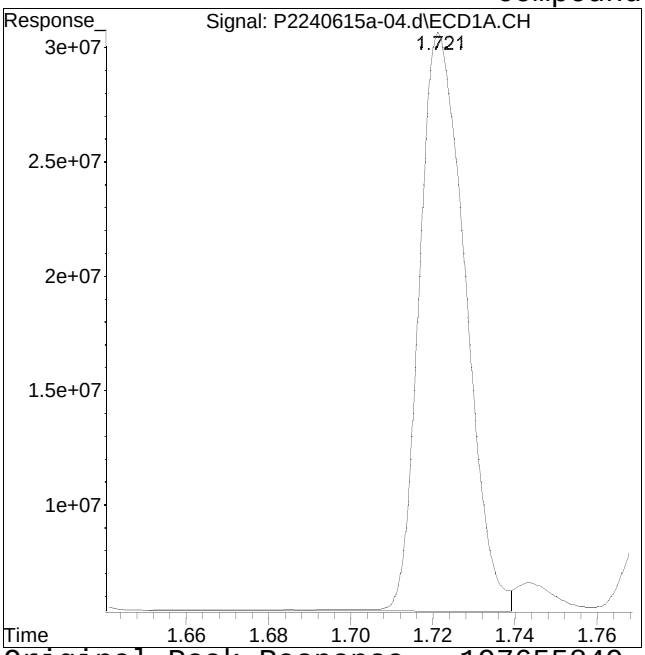
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

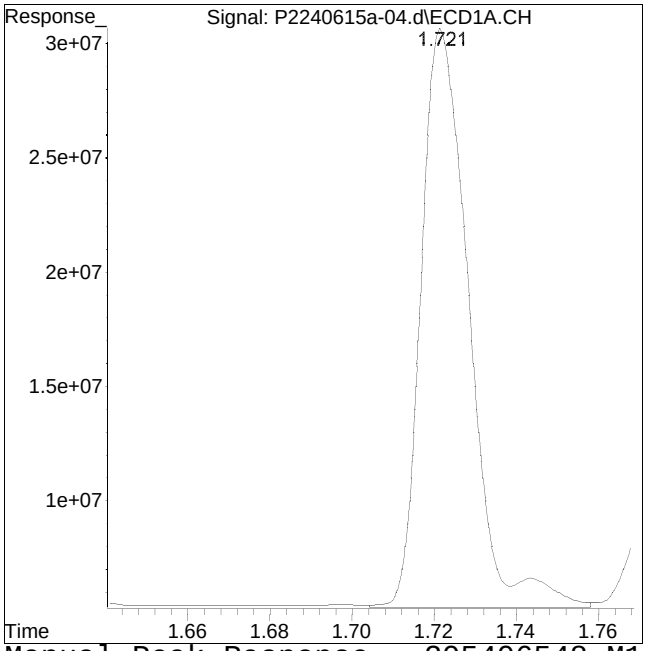


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #5: 1016-2



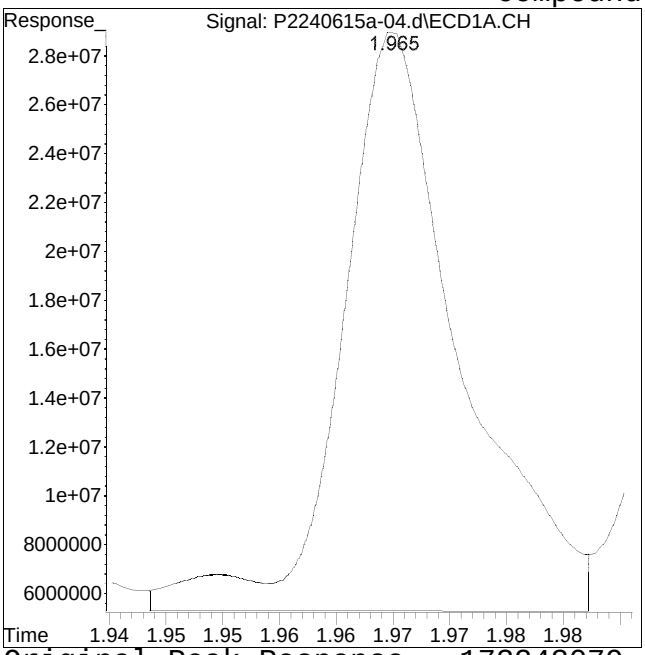


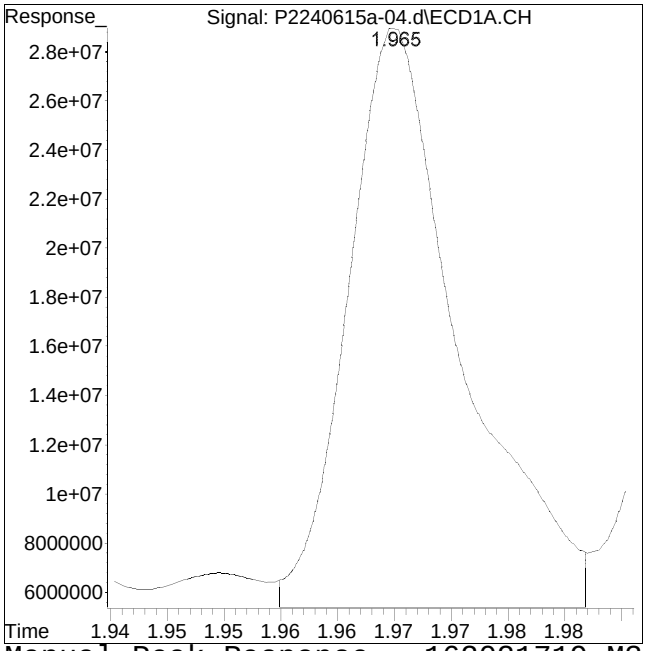
Original Peak Response = 197655849 Manual Peak Response = 205406548 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #7: 1016-4



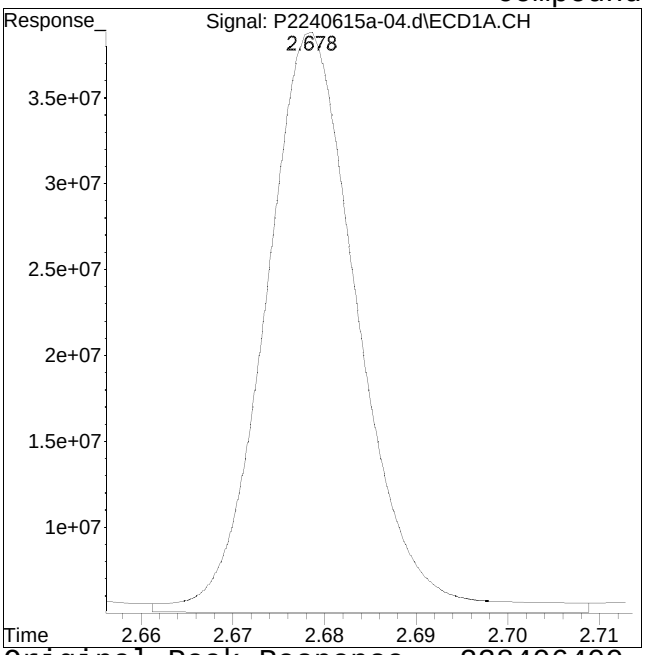


Original Peak Response = 173243079 Manual Peak Response = 162021719 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

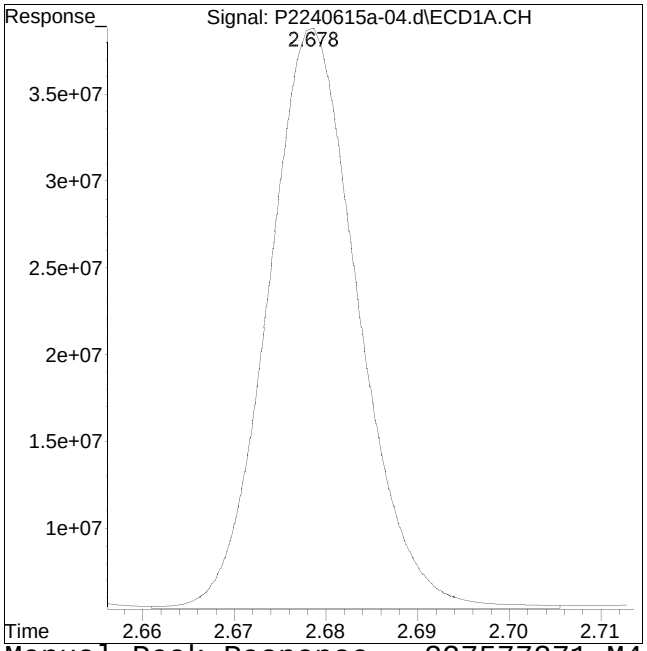
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #9: 1260-1



Original Peak Response = 238406400



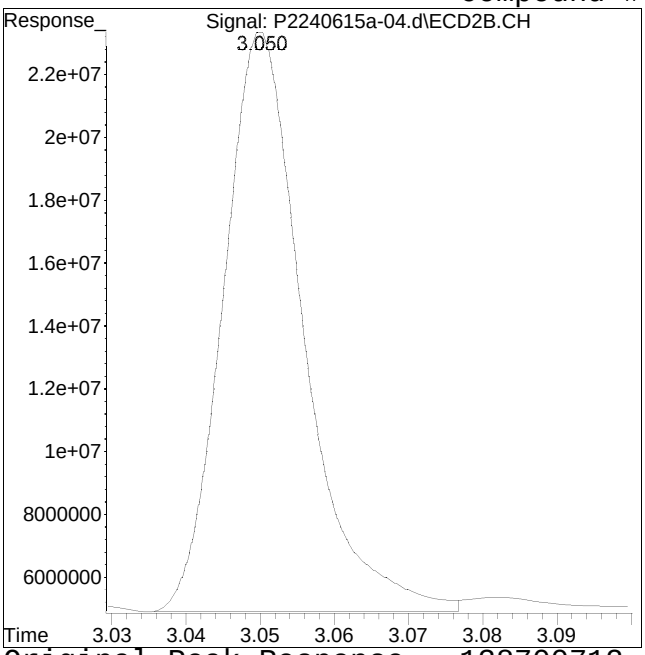
Manual Peak Response = 227577271 M4

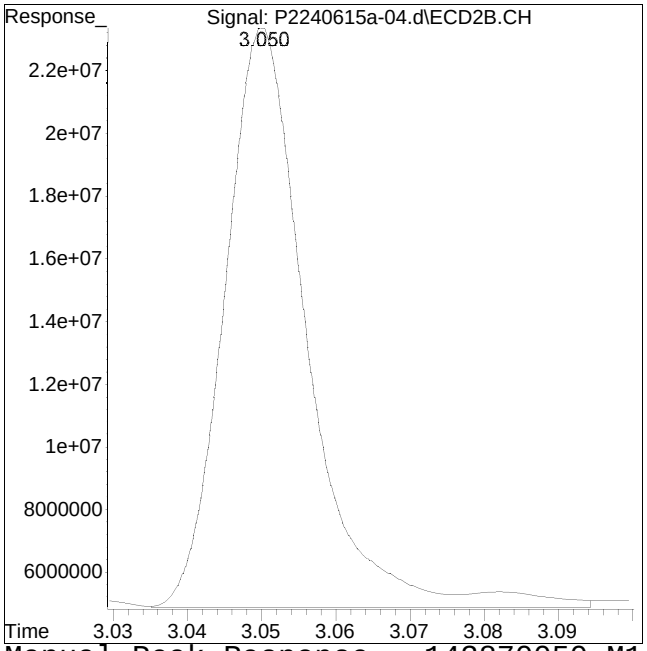
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #60: 1260-1 #2



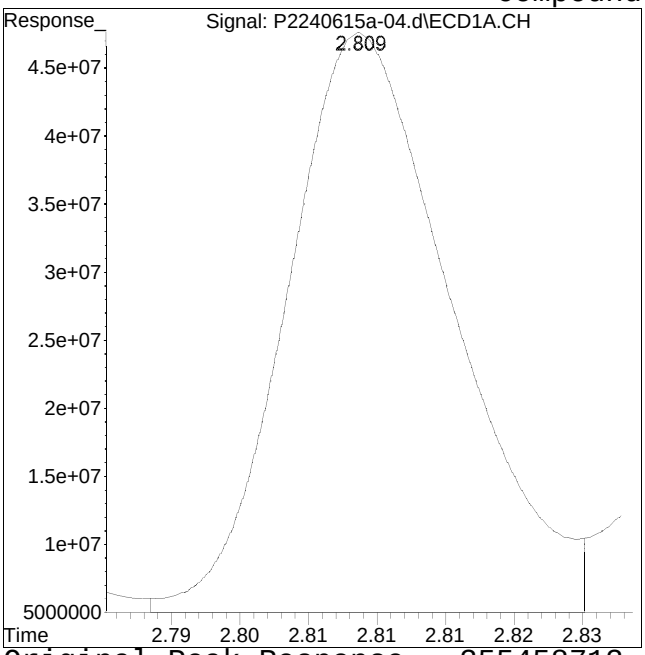


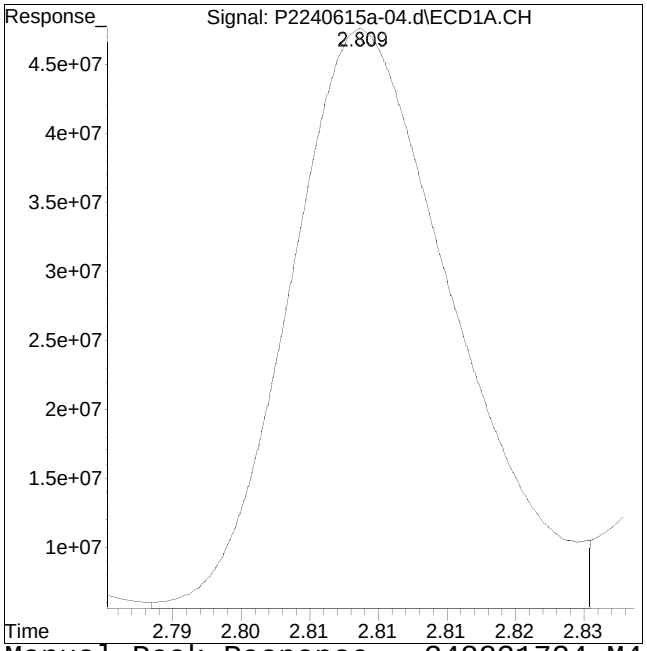
Original Peak Response = 138700712 Manual Peak Response = 143870050 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #10: 1260-2



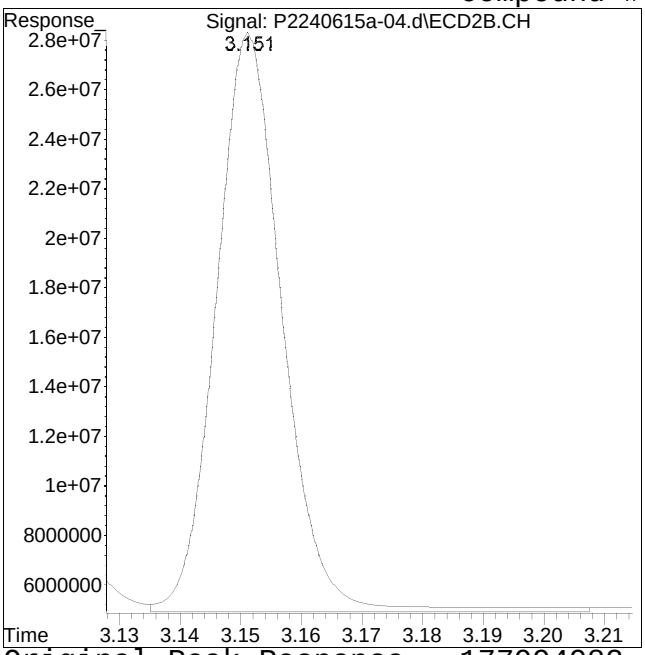


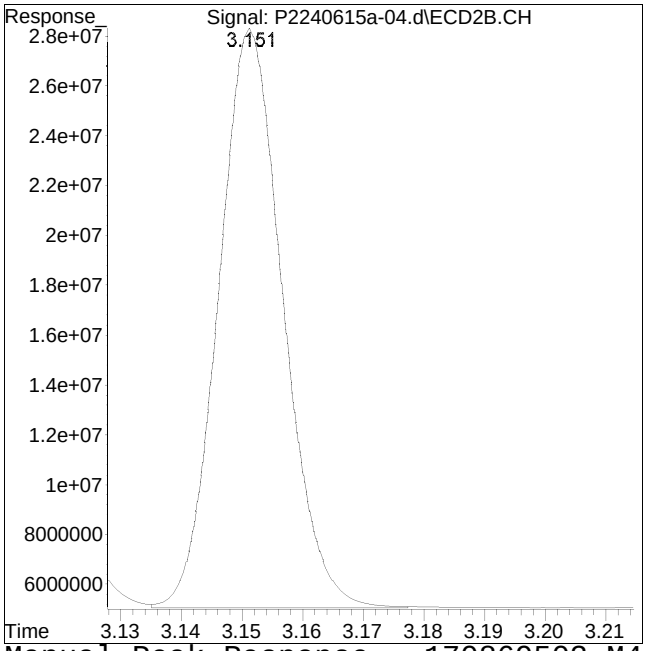
Original Peak Response = 355458713 Manual Peak Response = 348831724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #61: 1260-2 #2



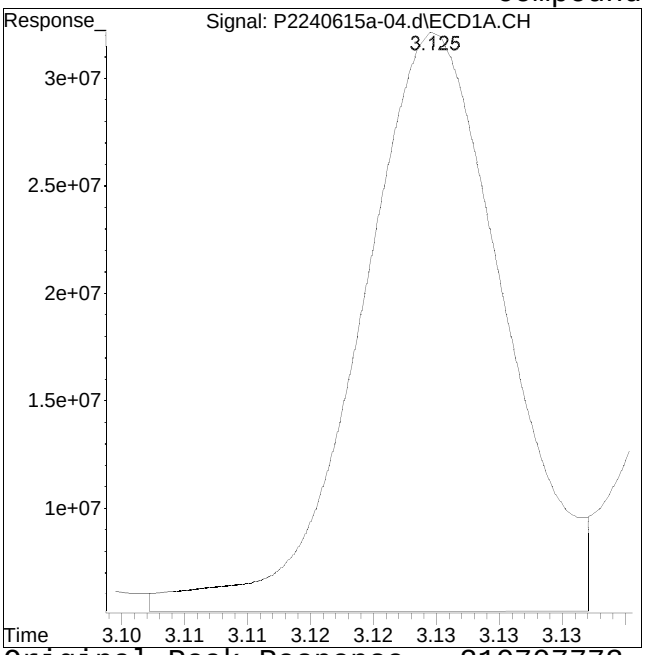


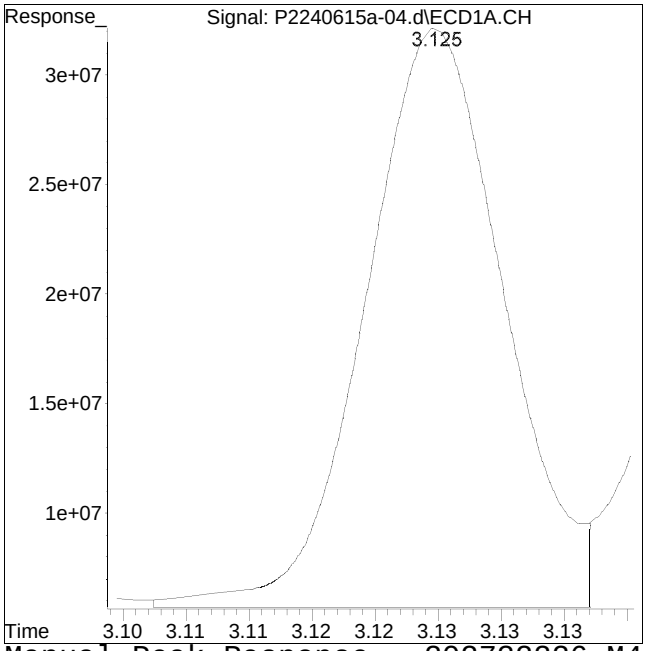
Original Peak Response = 177994982 Manual Peak Response = 170869503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #11: 1260-3



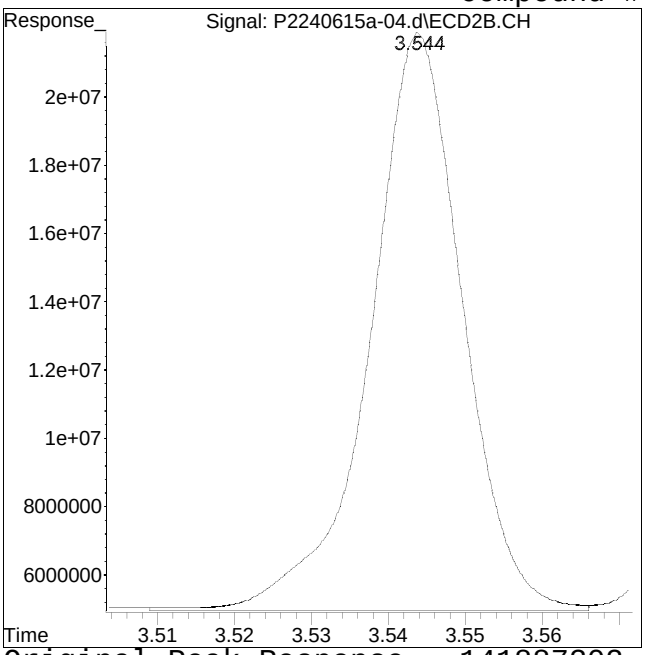


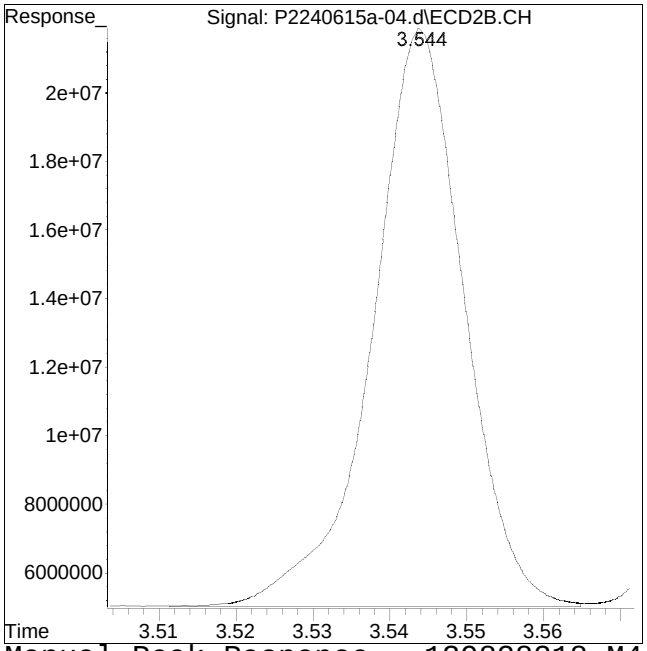
Original Peak Response = 210707773 Manual Peak Response = 202732226 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #62: 1260-3 #2



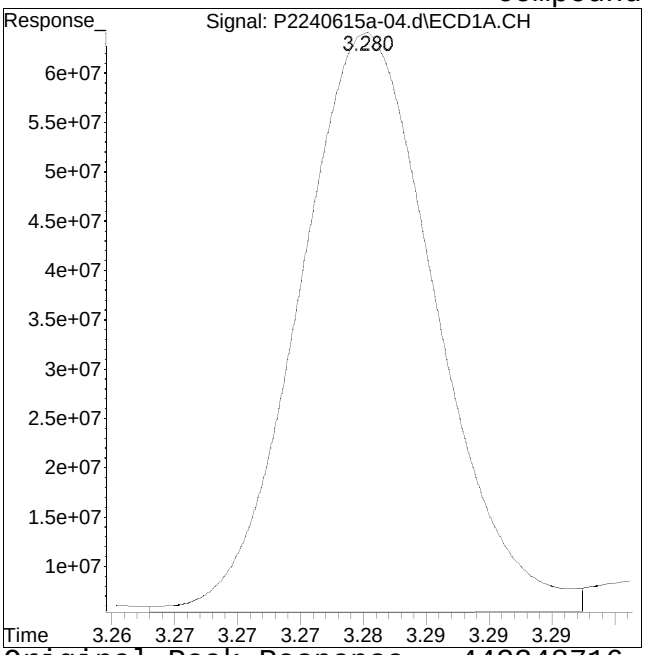


Original Peak Response = 141887302 Manual Peak Response = 139828218 M4
M4 = Poor automated baseline construction.

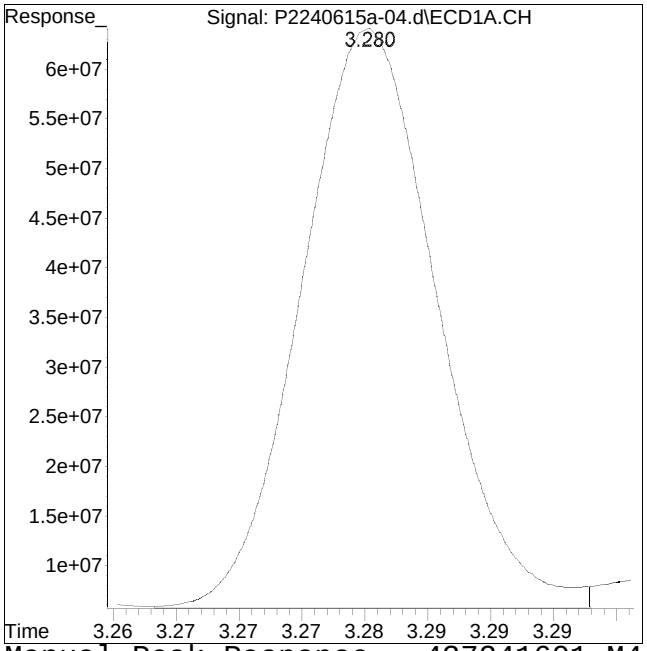
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #12: 1260-4



Original Peak Response = 442348716



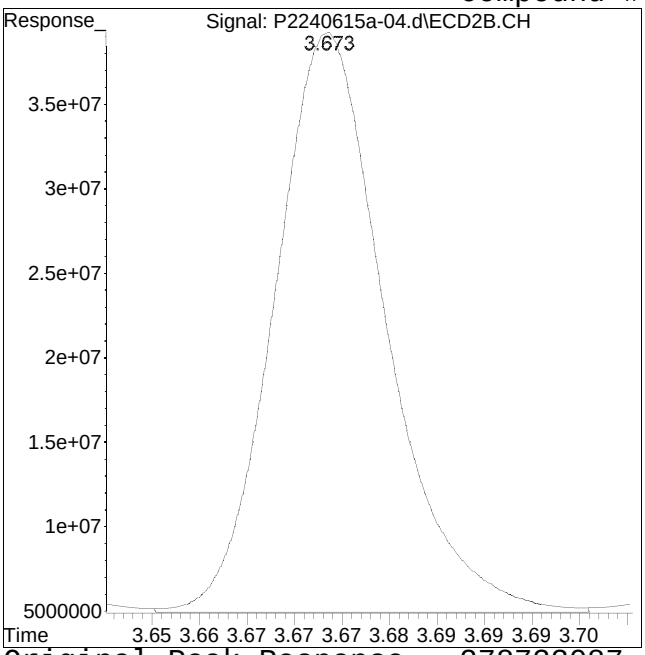
Manual Peak Response = 437241601 M4

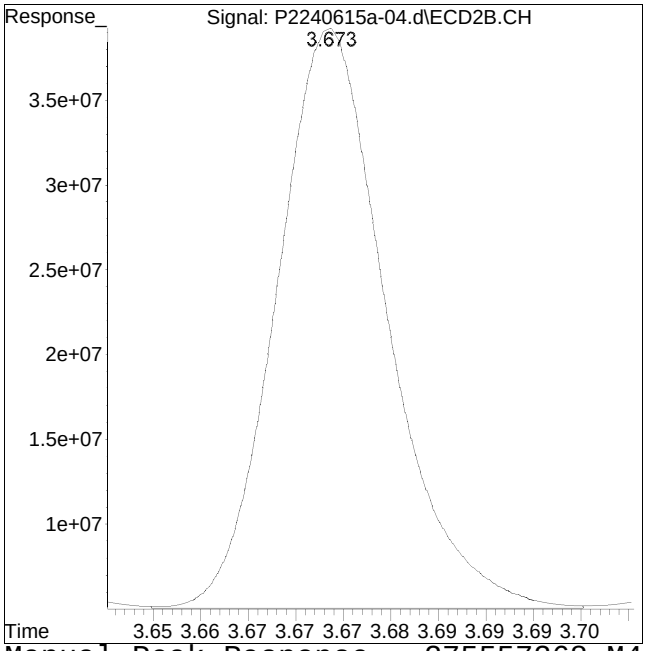
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #63: 1260-4 #2



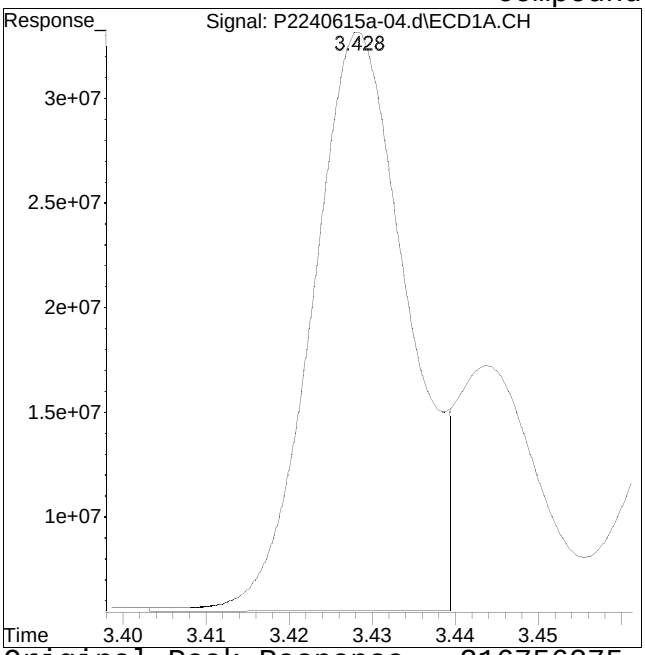


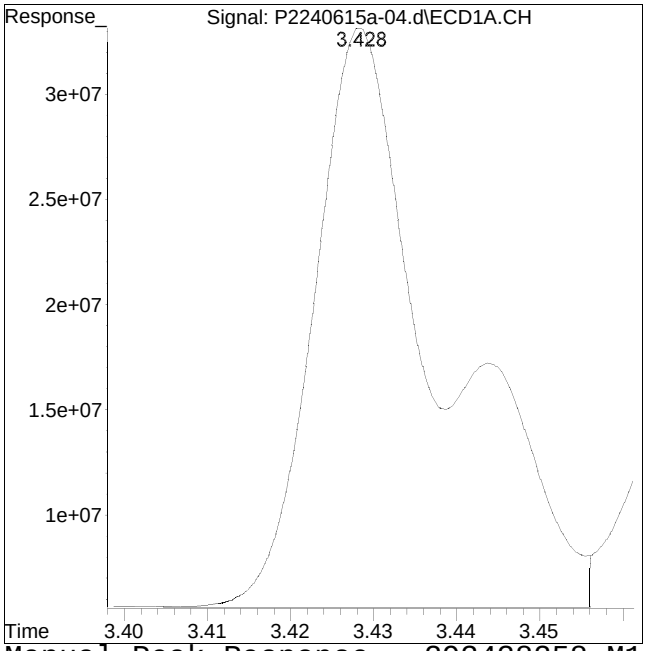
Original Peak Response = 278733087 Manual Peak Response = 275557268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240615a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240615a-04.d Operator : pest2:mhg
Date Inj'd : 6/15/2024 8:00 Instrument : Pest 2
Sample : wg1934764-1,42,, +1660 pp1Quant Date : 6/15/2024 8:09 am

Compound #13: 1260-5





Original Peak Response = 216756275 Manual Peak Response = 293438258 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:06
Operator : pest2:AD
Sample : WG1934357-1,42,, 360 (Sig #1); WG1934360-1,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:19 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.162	1.225	449.5E6	278.9E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 438206488				Recovery = 102.57%		
	Standard Area 1 : #2 = 264925559				Recovery = 105.27%		
14) i	2154_1br2nb	1.162	1.225	449.5E6	278.9E6	25.000M3	25.000M3
23) i	4268_1br2nb	1.162	1.225	449.5E6	278.9E6	25.000M3	25.000M3
34) i	1248_1br2nb	1.162	1.225	449.5E6	278.9E6	25.000M3	25.000M3
40) i	3262_1br2nb	1.162	1.225	449.5E6	278.9E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.451	1.602	350.5E6	210.7E6	14.874M4	15.335M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 74.37%		76.68%
3) s	Decachlorobi	4.042	4.547	275.1E6	162.3E6	18.068M1	25.085M3
	Spiked Amount 20.000	Range 30 - 150			Recovery = 90.34%		125.43%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:06
Operator : pest2:AD
Sample : WG1934357-1,42,, 360 (Sig #1); WG1934360-1,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:19 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:06
Operator : pest2:AD
Sample : WG1934357-1,42,, 360 (Sig #1); WG1934360-1,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:19 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:06
Operator : pest2:AD
Sample : WG1934357-1,42,, 360 (Sig #1); WG1934360-1,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:19 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : Default - All compounds listed

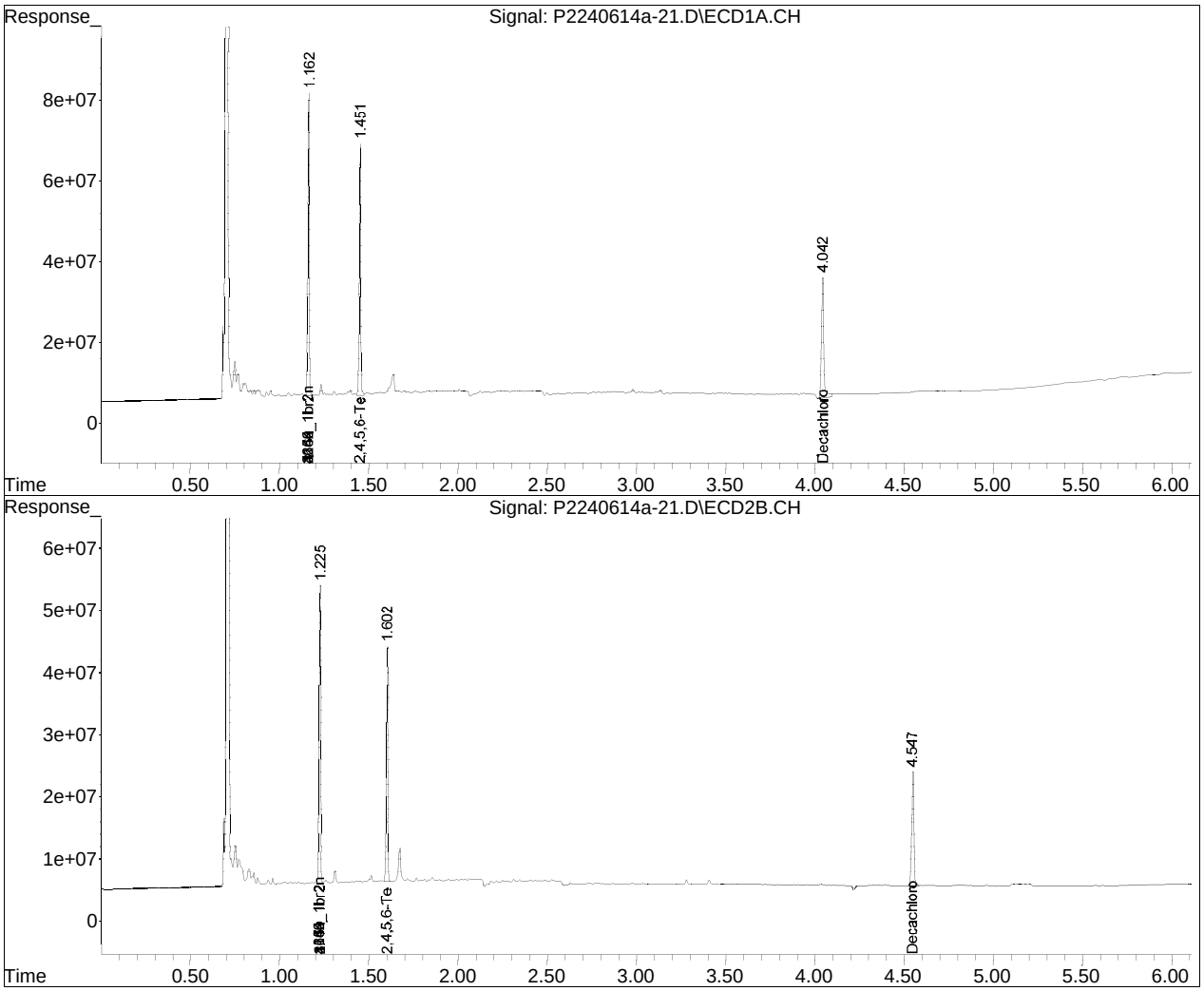
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240614a-02.D•

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:06
Operator : pest2:AD
Sample : WG1934357-1,42,, 360 (Sig #1); WG1934360-1,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:19 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

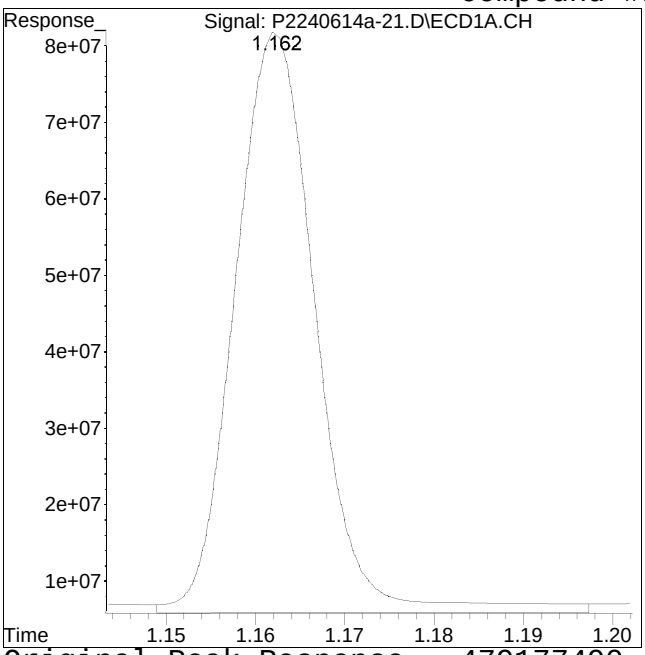
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

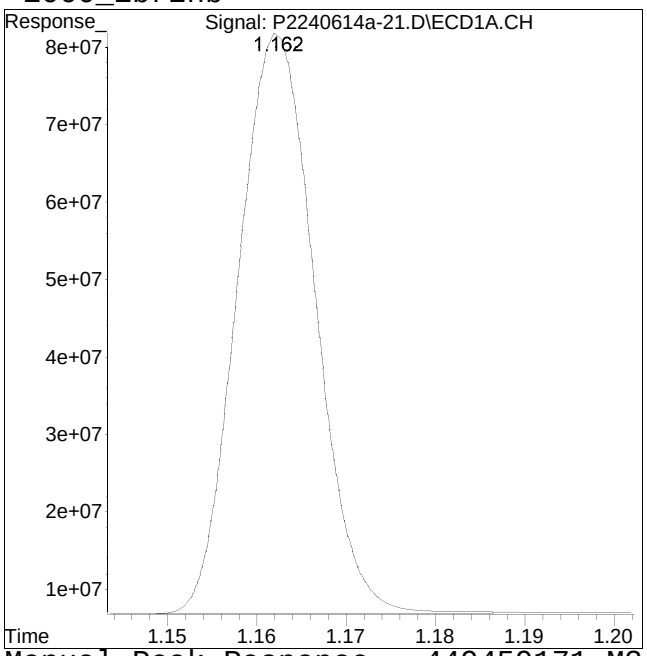


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-21.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:06 Instrument : Pest 2
Sample : WG1934357-1,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #1: 1660_1br2nb



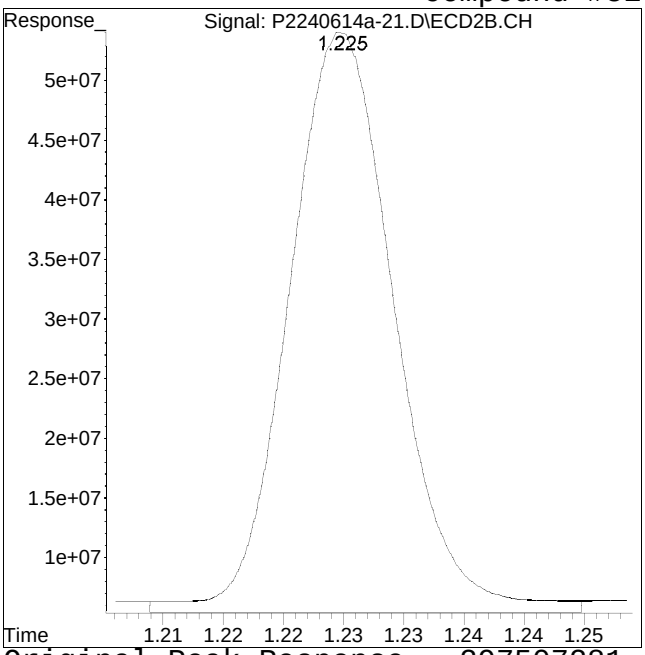


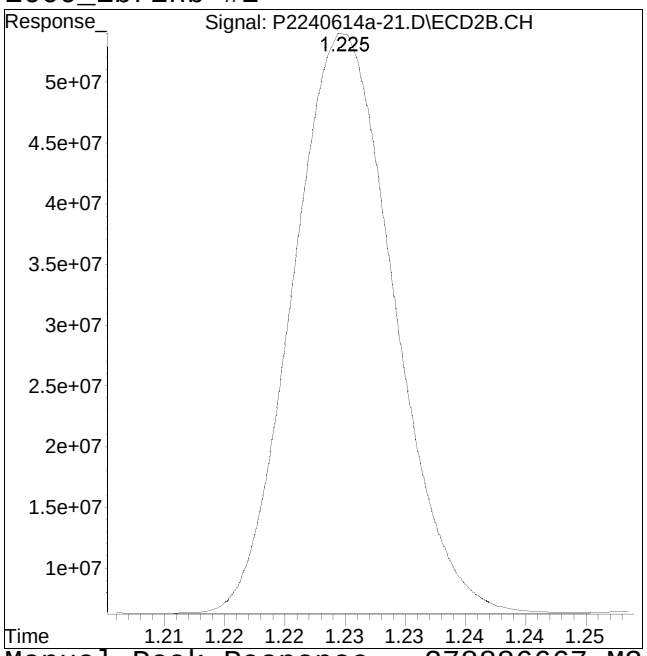
Original Peak Response = 479177490 Manual Peak Response = 449459171 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-21.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:06 Instrument : Pest 2
Sample : WG1934357-1,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #52: 1660_1br2nb #2



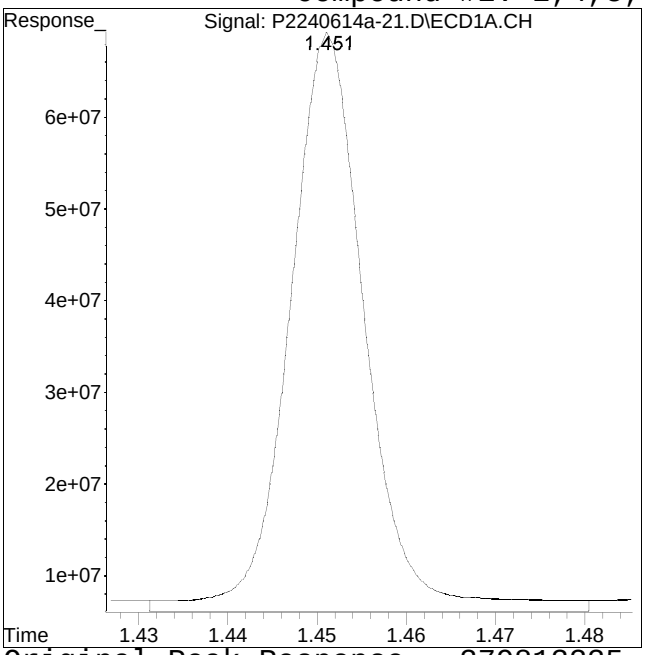


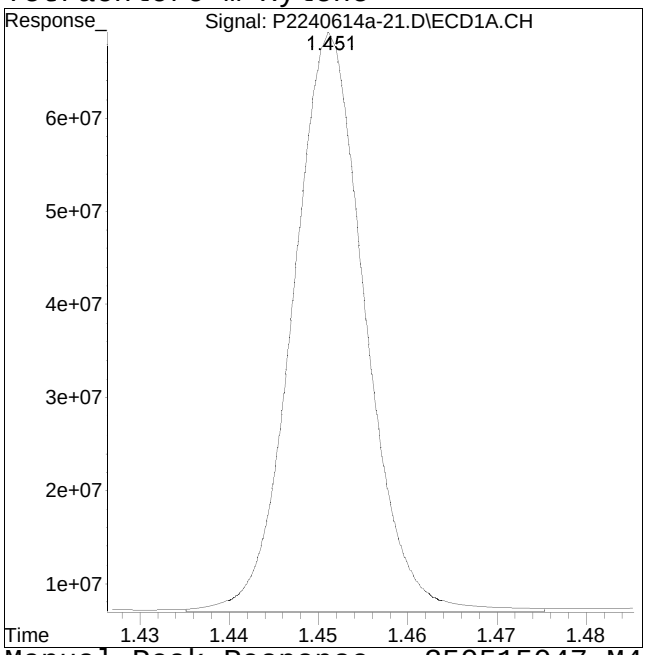
Original Peak Response = 297507281 Manual Peak Response = 278886667 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-21.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:06 Instrument : Pest 2
Sample : WG1934357-1,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



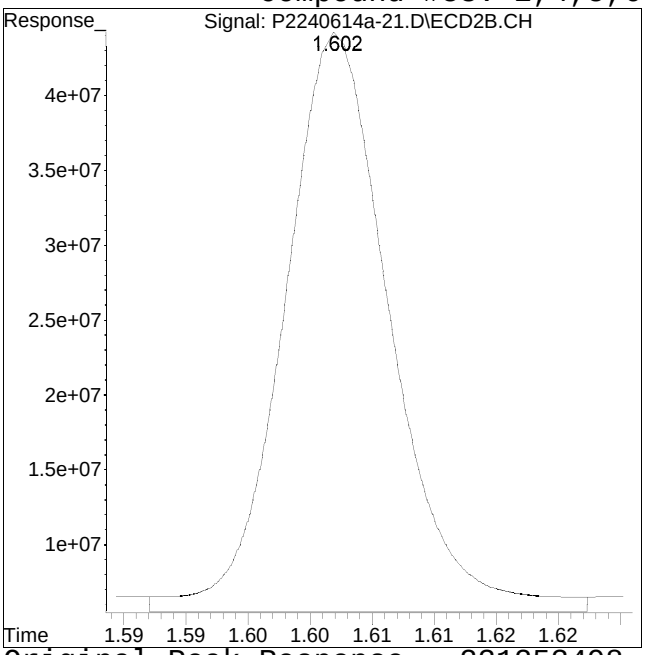


Original Peak Response = 379813335 Manual Peak Response = 350515047 M4
M4 = Poor automated baseline construction.

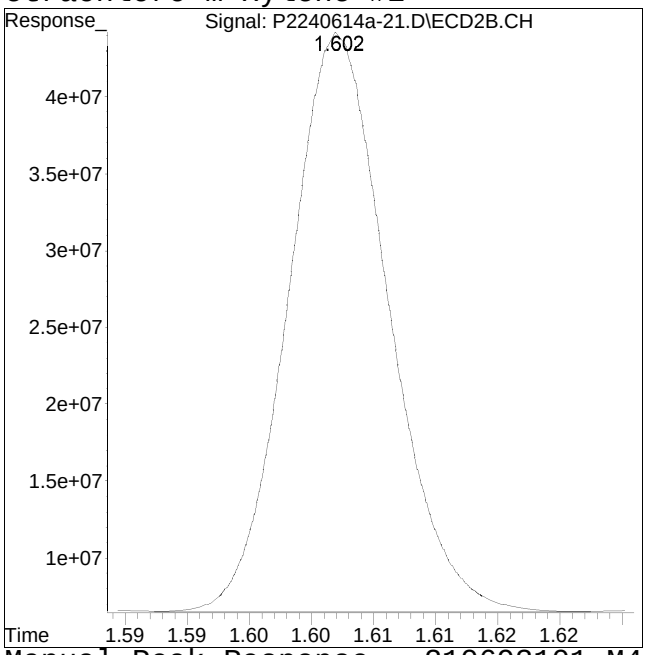
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-21.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:06 Instrument : Pest 2
Sample : WG1934357-1,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 231253498



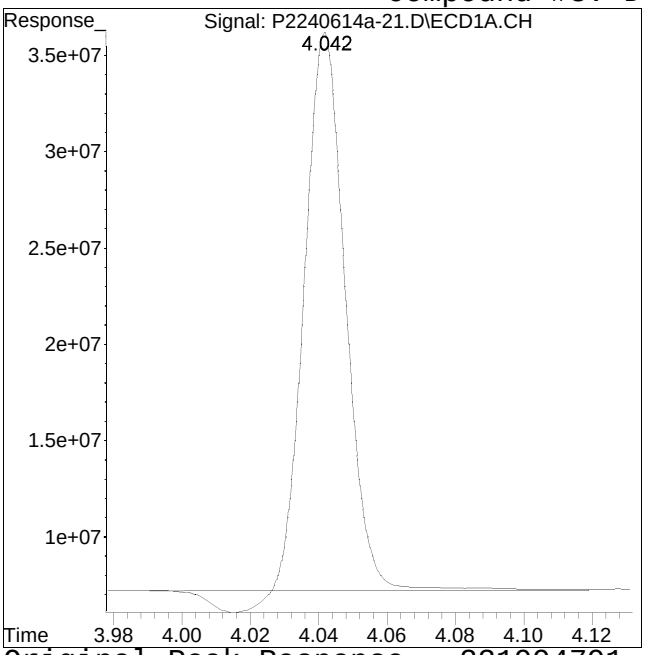
Manual Peak Response = 210693101 M4

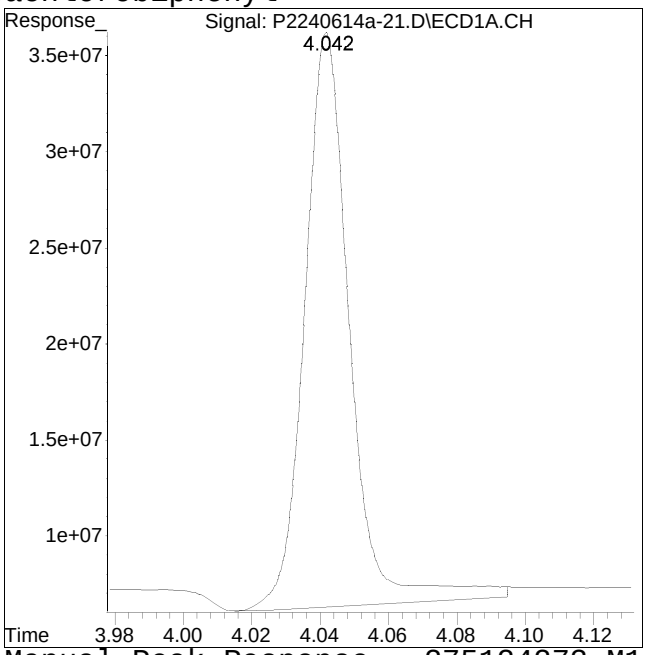
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-21.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:06 Instrument : Pest 2
Sample : WG1934357-1,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #3: Decachlorobiphenyl



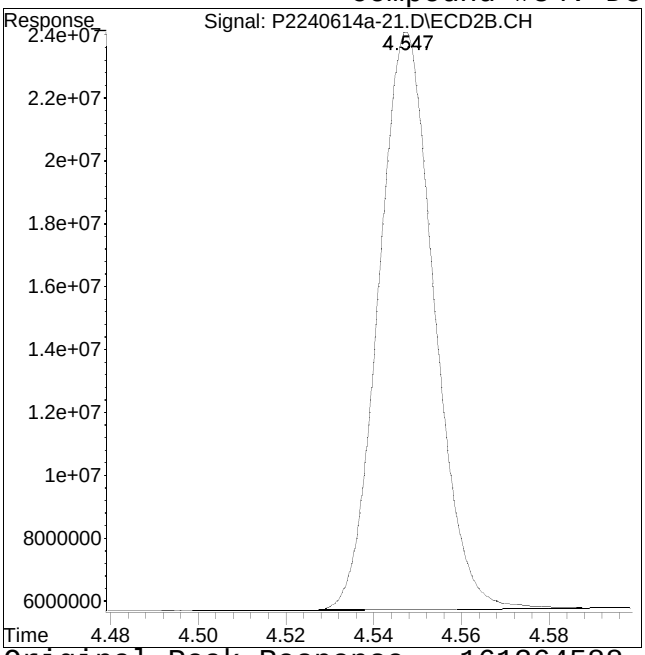


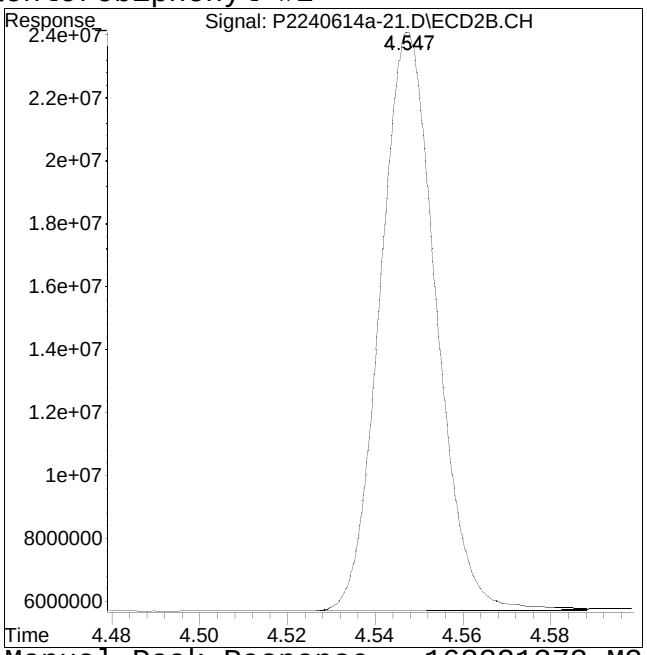
Original Peak Response = 231994791 Manual Peak Response = 275124273 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-21.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:06 Instrument : Pest 2
Sample : WG1934357-1,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 161364588 Manual Peak Response = 162321373 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:14
Operator : pest2:AD
Sample : WG1934357-2,42,, 360 (Sig #1); WG1934360-2,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:22 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.157	1.225	434.1E6	274.6E6	25.000	25.000
Standard Area 1 : #1 = 438206488				Recovery =	99.06%	
Standard Area 1 : #2 = 264925559				Recovery =	103.65%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.442	1.598	219.1E6	130.1E6	9.626	9.620M4
Spiked Amount 20.000	Range 30 - 150		Recovery =	48.13%	48.10%	
3) s Decachlorobi	4.014	4.523	177.0E6	101.2E6	12.032	15.885
Spiked Amount 20.000	Range 30 - 150		Recovery =	60.16%	79.42%	
Target Compounds						
4) l1 1016-1	1.580	1.799	45082297	34802496	115.693M3	150.593M4
5) l1 1016-2	1.722	1.969	111.1E6	75421017	130.144M1	148.590M3
6) l1 1016-3	1.911	2.170	221.6E6	138.5E6	126.205M2	136.443
7) l1 1016-4	1.966	2.230	94283567	57645848	134.677M4	153.503
8) l1 1016-5	2.137	2.441	95725515	51089545	123.242	160.505
Sum 1016-1			567.9E6	357.5E6	629.962	749.635
Average 1016-1					125.992	149.927
9) l2 1260-1	2.680	3.050	128.9E6	100.2E6	114.958	169.067
10) l2 1260-2	2.810	3.151	203.5E6	111.4E6	120.469	164.247
11) l2 1260-3	3.126	3.544	115.8E6	90882646	110.357	172.790
12) l2 1260-4	3.282	3.673	273.7E6	173.7E6	121.674M2	164.269
13) l2 1260-5	3.430	3.874	200.9E6	126.2E6	127.470M3	174.077
Sum 1260-1			922.8E6	602.4E6	594.929	844.449
Average 1260-1					118.986	168.890
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:14
Operator : pest2:AD
Sample : WG1934357-2,42,, 360 (Sig #1); WG1934360-2,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:22 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

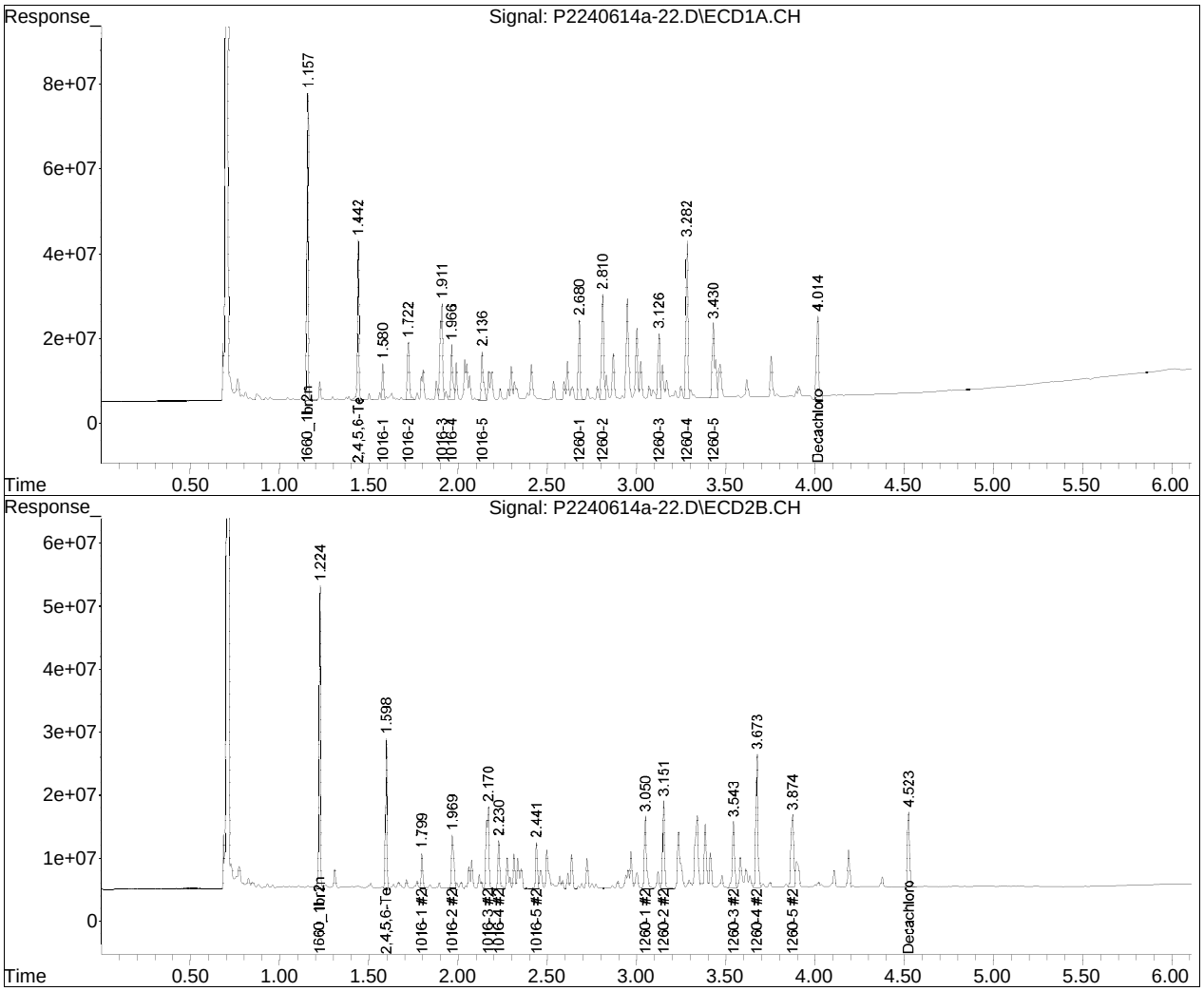
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Sub List : 1660 - 1660Pest2\2024\240614A\P2240614a-02.D•

Data Path : I:\PCB\Pest2\2024\240614A\
Data File : P2240614a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:14
Operator : pest2:AD
Sample : WG1934357-2,42,, 360 (Sig #1); WG1934360-2,42,, 357 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:22 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

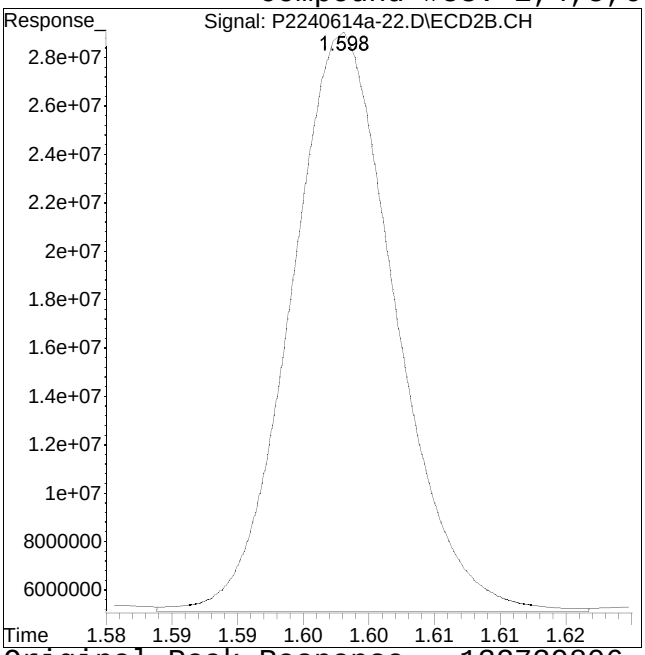
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

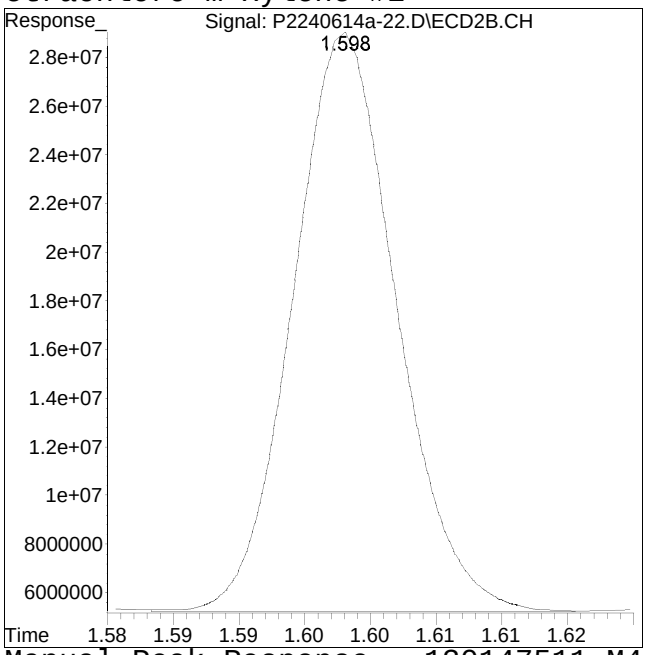


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



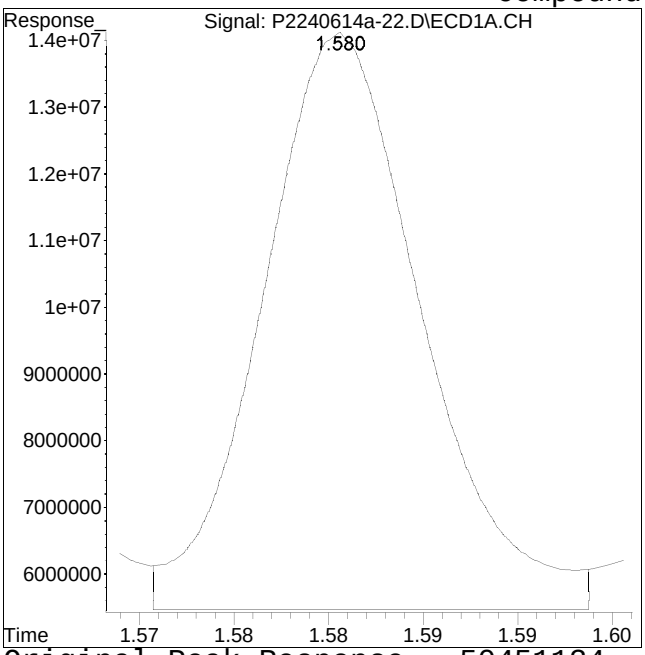


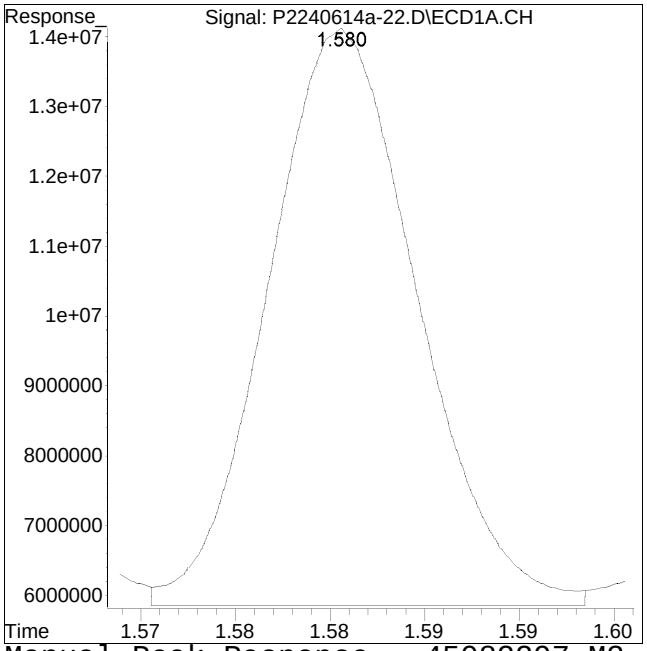
Original Peak Response = 132739806 Manual Peak Response = 130147511 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #4: 1016-1



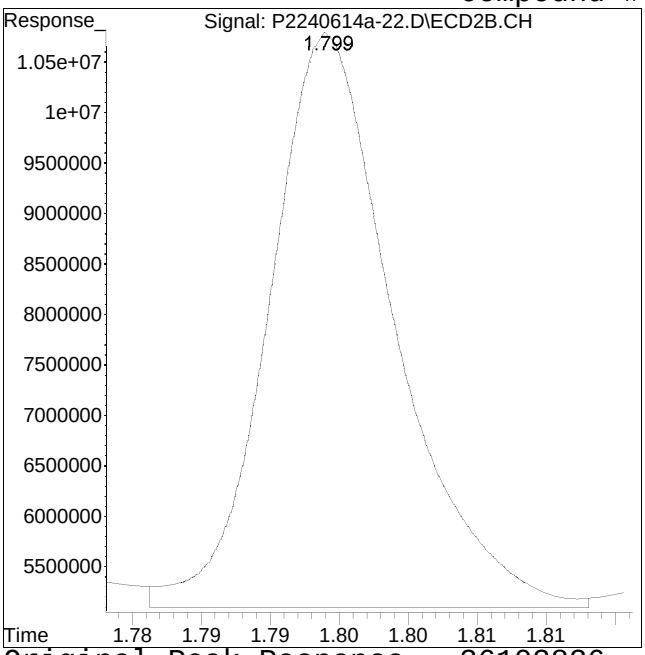


Original Peak Response = 50451134 Manual Peak Response = 45082297 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

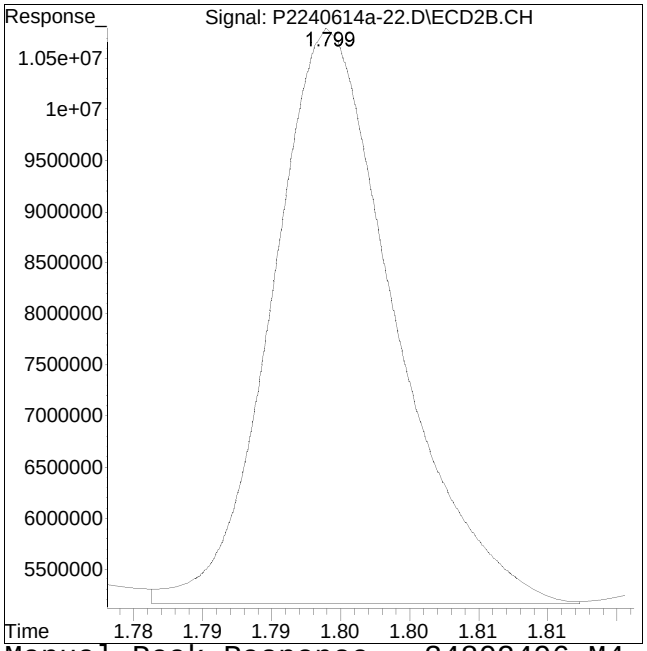
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #55: 1016-1 #2



Original Peak Response = 36103836



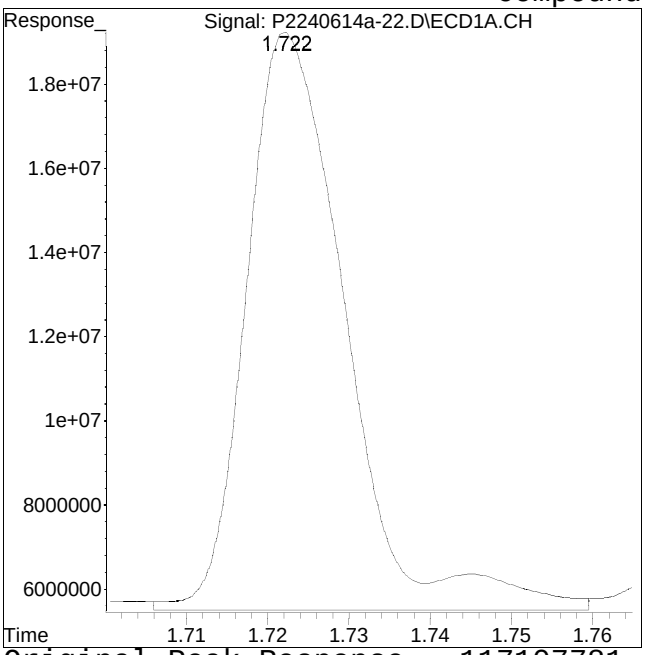
Manual Peak Response = 34802496 M4

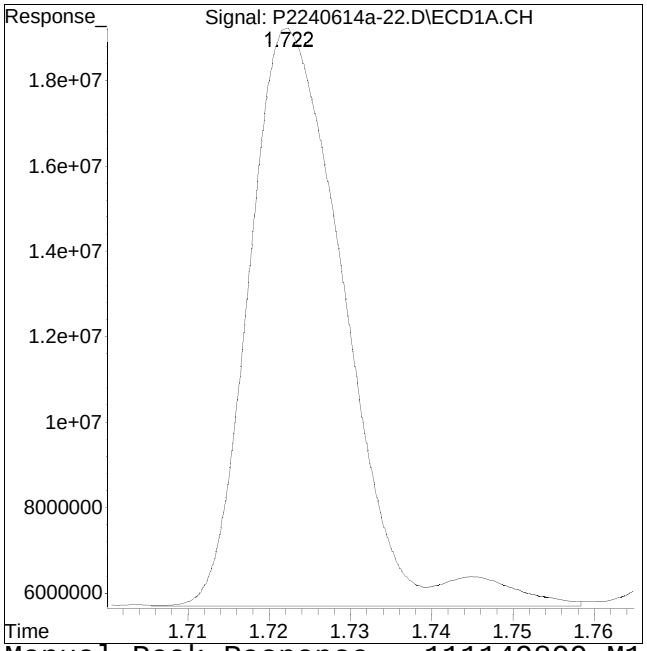
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #5: 1016-2



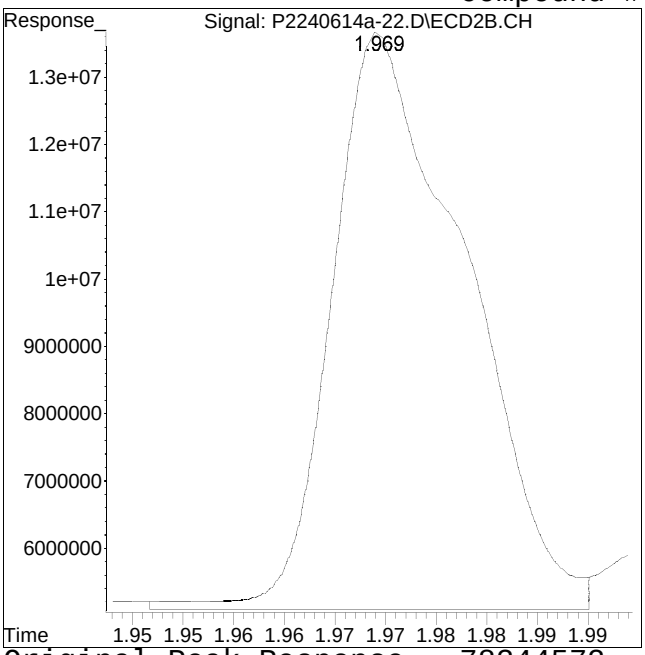


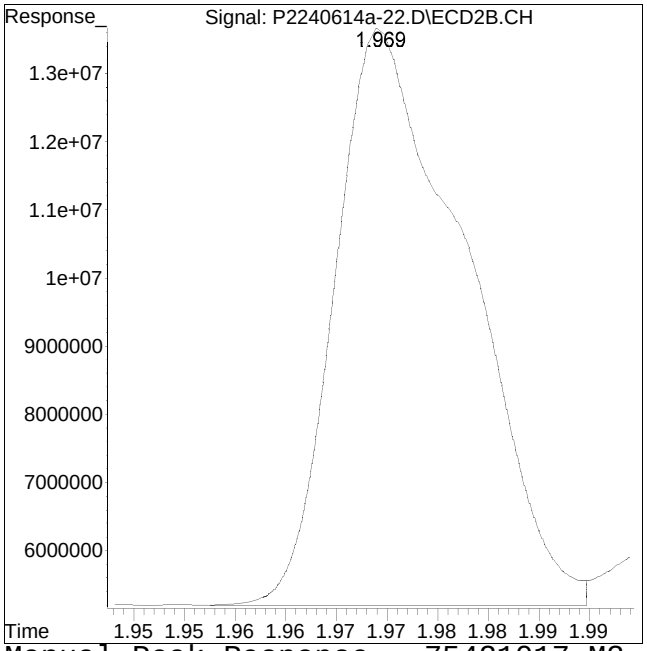
Original Peak Response = 117107781 Manual Peak Response = 111149899 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #56: 1016-2 #2



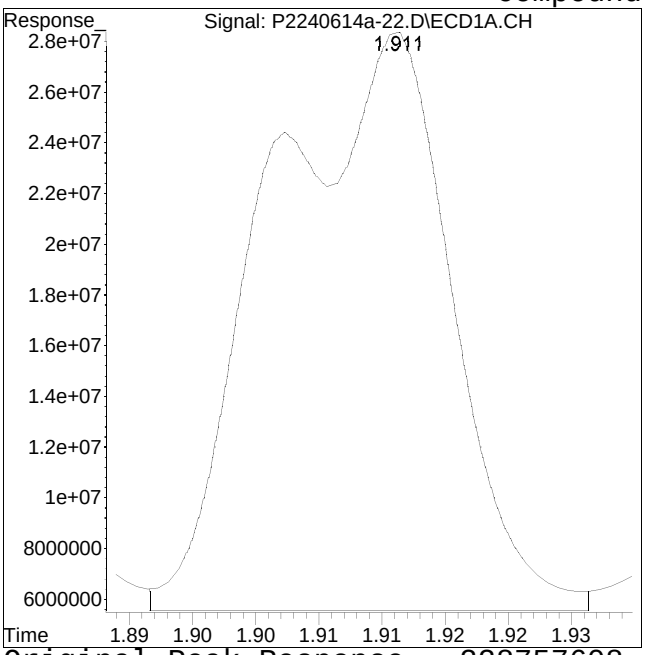


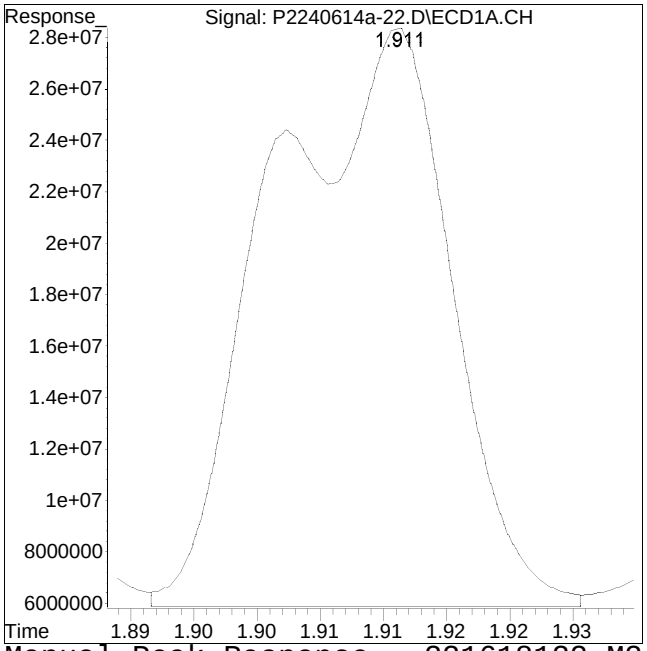
Original Peak Response = 78344572 Manual Peak Response = 75421017 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #6: 1016-3



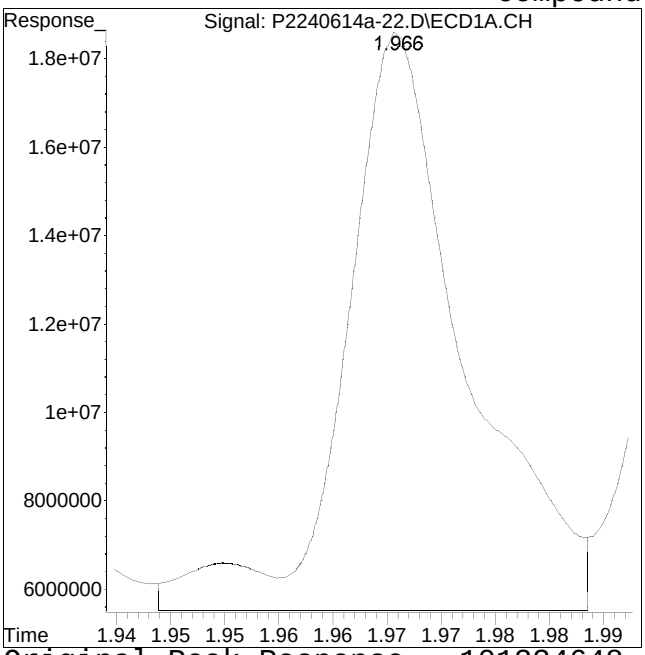


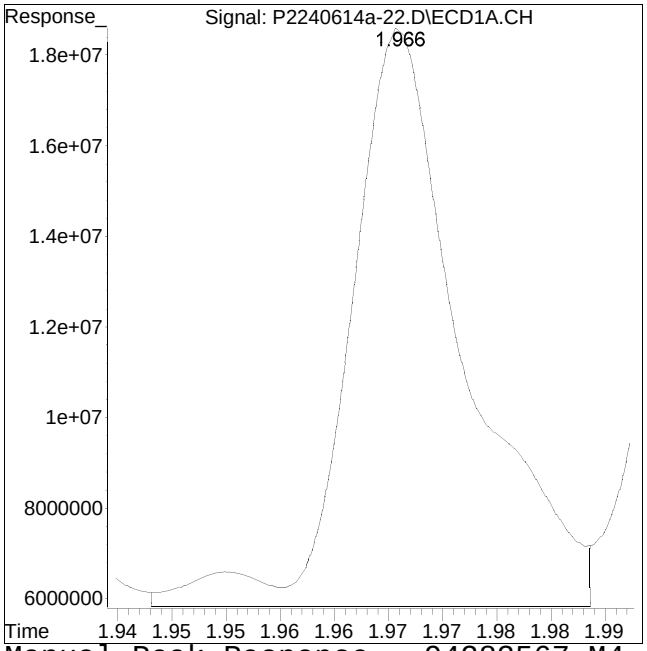
Original Peak Response = 228757608 Manual Peak Response = 221618122 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #7: 1016-4



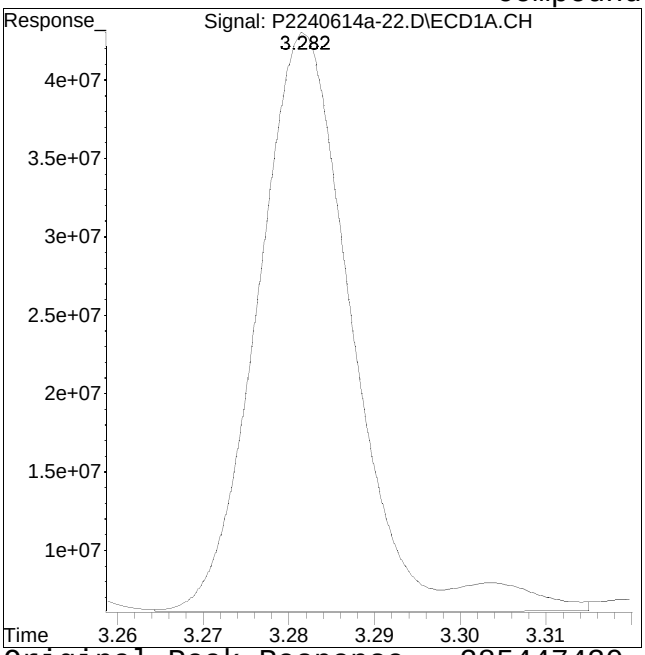


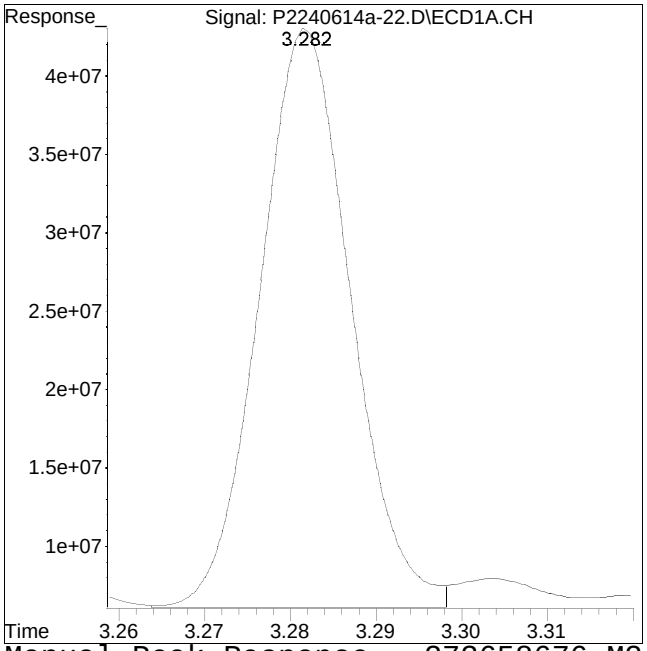
Original Peak Response = 101334648 Manual Peak Response = 94283567 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #12: 1260-4



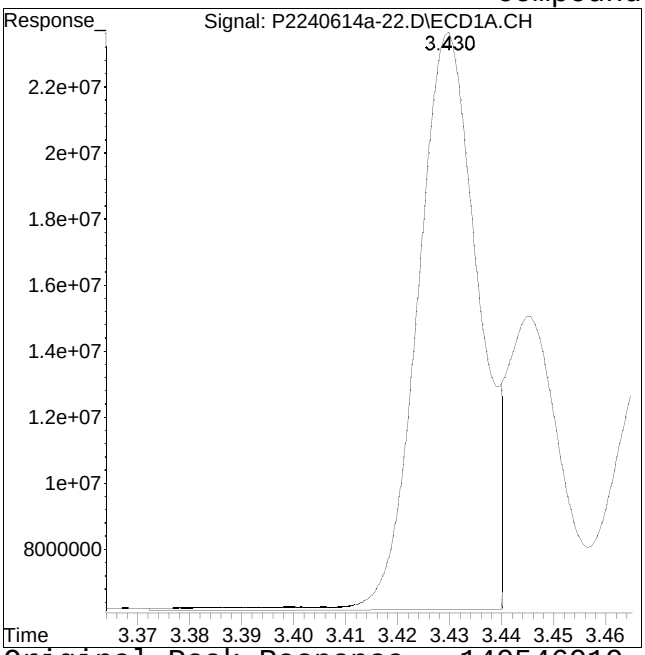


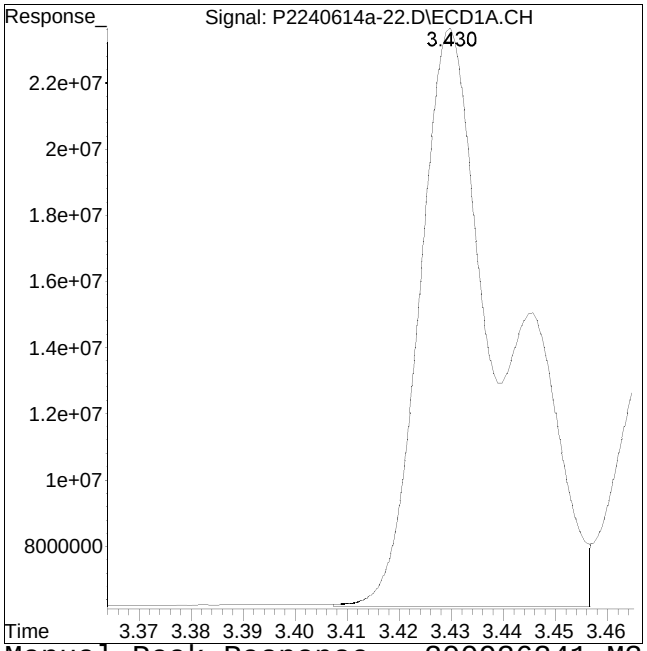
Original Peak Response = 285447430 Manual Peak Response = 273658676 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-22.D Operator : pest2:AD
Date Inj'd : 6/14/2024 16:14 Instrument : Pest 2
Sample : WG1934357-2,42,, 360 Quant Date : 6/14/2024 8:25 pm

Compound #13: 1260-5





Original Peak Response = 140546919 Manual Peak Response = 200936241 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:23
Operator : pest2:AD
Sample : WG1934357-3,42,, 560 (Sig #1); WG1934360-3,42,, 537 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:25 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.157	1.225	413.2E6	251.9E6	25.000M3	25.000M3
Standard Area 1 : #1 = 438206488				Recovery =	94.29%	
Standard Area 1 : #2 = 264925559				Recovery =	95.09%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.442	1.599	289.1E6	180.6E6	13.344M3	14.550
Spiked Amount	20.000	Range 30 - 150		Recovery =	66.72%	72.75%
3) s Decachlorobi	4.013	4.524	224.2E6	134.4E6	16.017	22.988
Spiked Amount	20.000	Range 30 - 150		Recovery =	80.08%	114.94%
Target Compounds						
4) l1 1016-1	1.580	1.799	62433794	44948852	168.338M2	212.010M3
5) l1 1016-2	1.722	1.970	145.3E6	96340808	178.746M2	206.895M4
6) l1 1016-3	1.911	2.170	293.5E6	181.8E6	175.591M2	195.215M4
7) l1 1016-4	1.966	2.230	120.2E6	74653089	180.329M4	216.689M3
8) l1 1016-5	2.135	2.441	124.2E6	64754861	167.976M3	221.754M4
Sum 1016-1			745.5E6	462.5E6	870.981	1052.564
Average 1016-1					174.196	210.513
9) l2 1260-1	2.679	3.050	174.7E6	127.1E6	163.709	233.760
10) l2 1260-2	2.810	3.152	275.9E6	139.9E6	171.549	224.871
11) l2 1260-3	3.125	3.544	161.4E6	116.7E6	161.523	241.772
12) l2 1260-4	3.281	3.674	364.6E6	226.4E6	170.302	233.391
13) l2 1260-5	3.428	3.875	268.4E6	167.5E6	178.905M4	251.924
Sum 1260-1			1244.9E6	777.6E6	845.987	1185.719
Average 1260-1					169.197	237.144
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:23
Operator : pest2:AD
Sample : WG1934357-3,42,, 560 (Sig #1); WG1934360-3,42,, 537 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:25 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240614A\P2240614a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

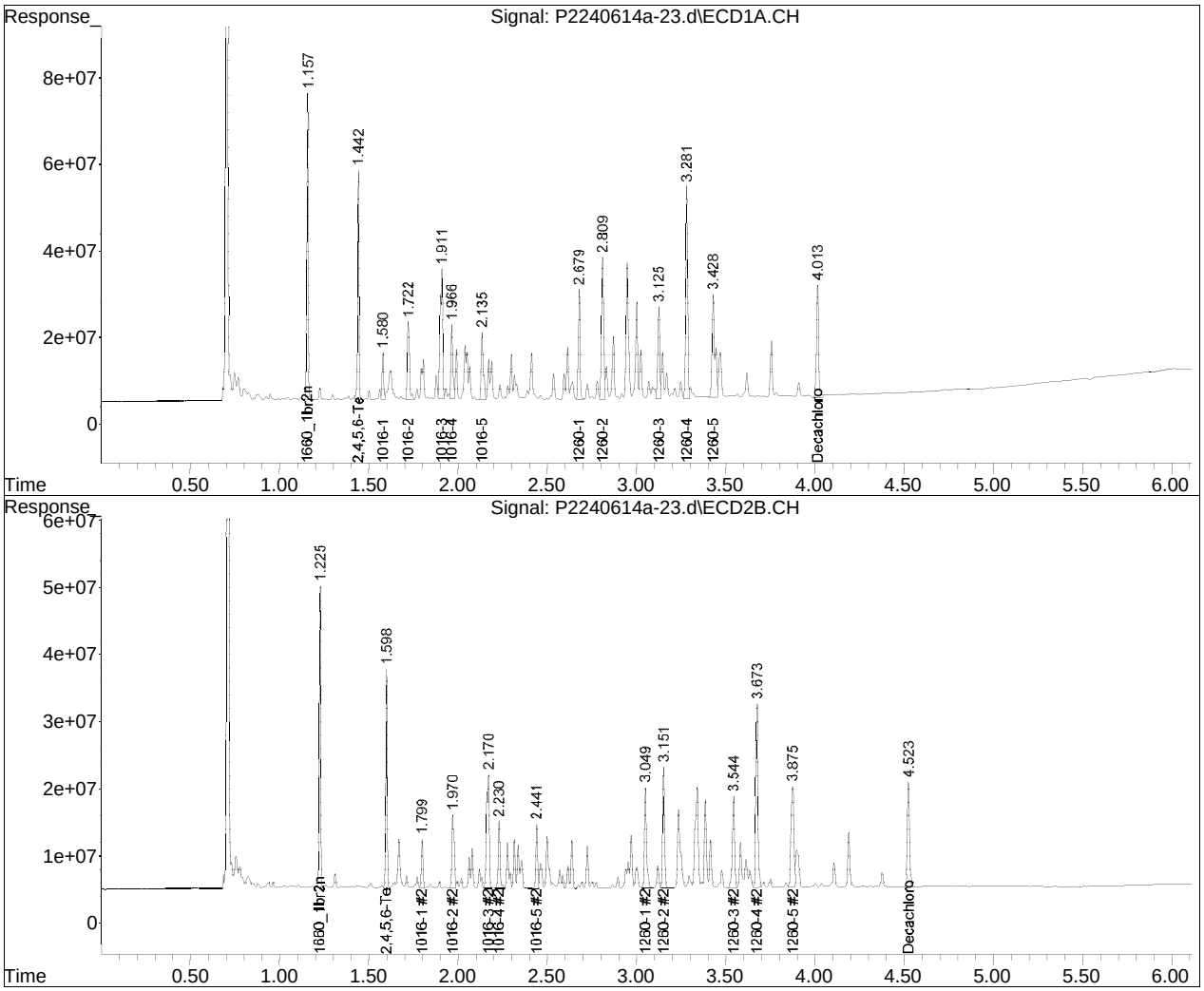
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240614A\P2240614a-02.D•

Data Path : I:\PCB\Pest2\2024\240614a\
Data File : P2240614a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jun 2024 16:23
Operator : pest2:AD
Sample : WG1934357-3,42,, 560 (Sig #1); WG1934360-3,42,, 537 (Sig #2)
Misc : WG1934325,WG1934357,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 20:25:25 2024
Quant Method : I:\PCB\Pest2\2024\240614A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

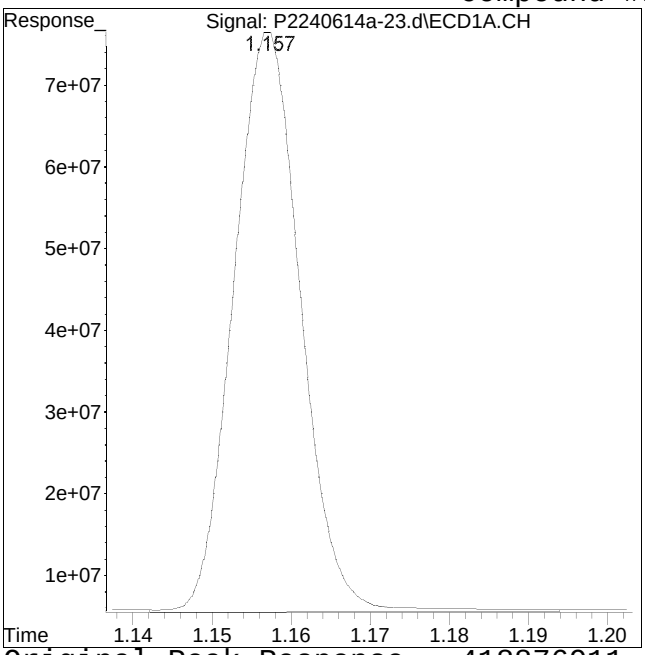
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

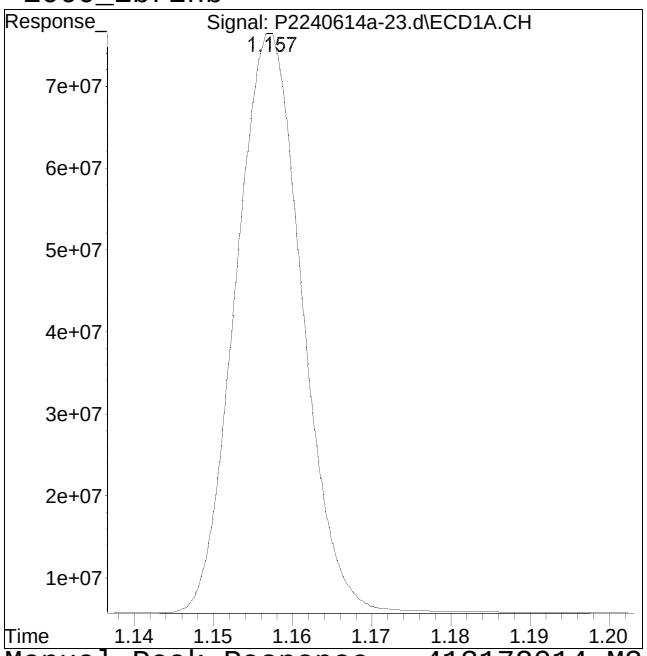


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #1: 1660_1br2nb



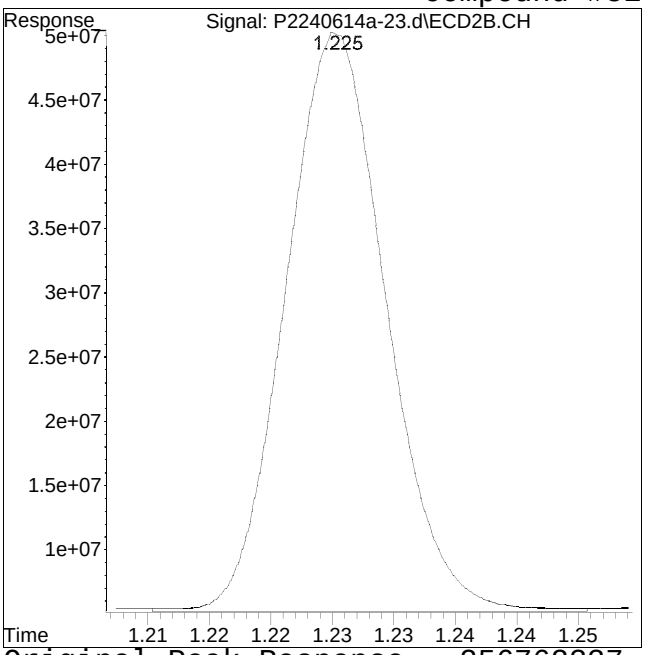


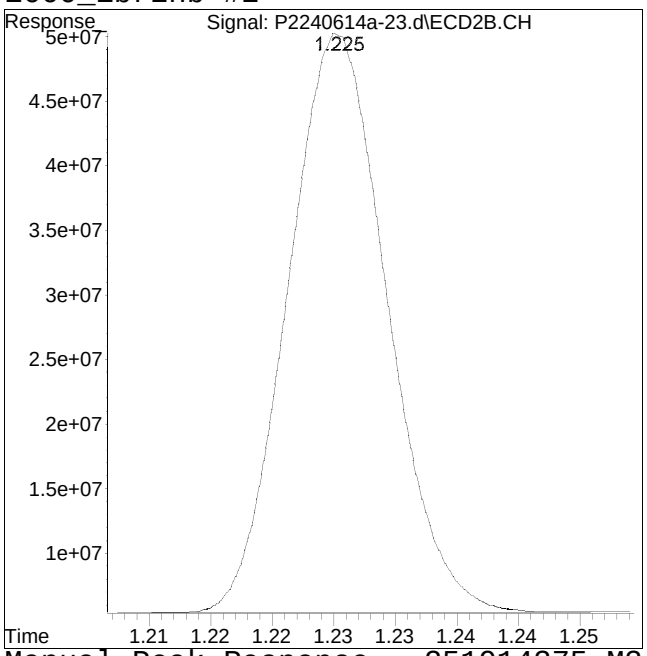
Original Peak Response = 418876911 Manual Peak Response = 413172014 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #52: 1660_1br2nb #2



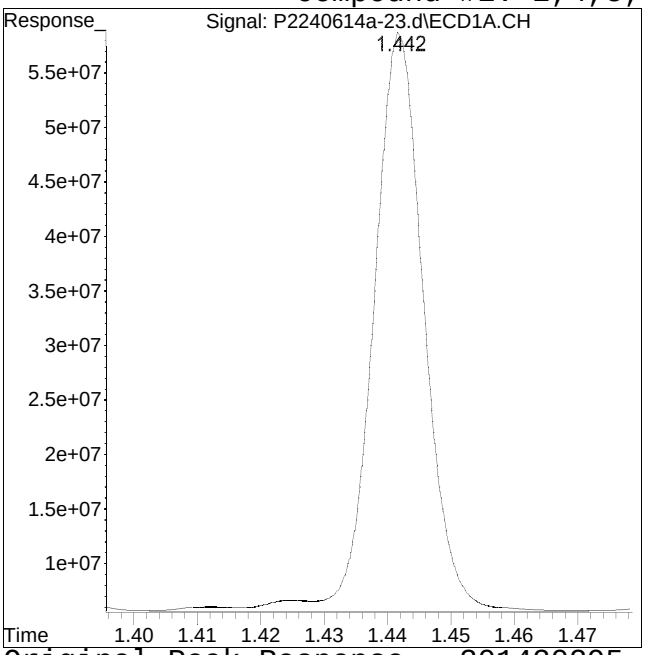


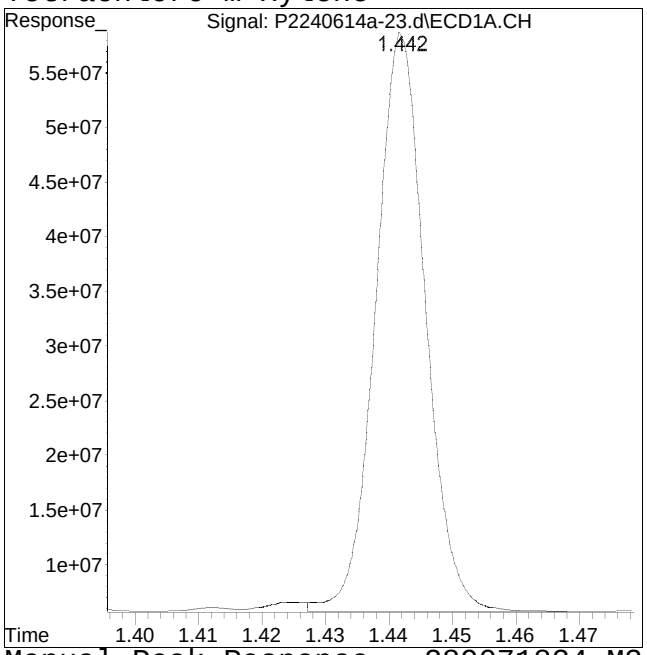
Original Peak Response = 256762337 Manual Peak Response = 251914375 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



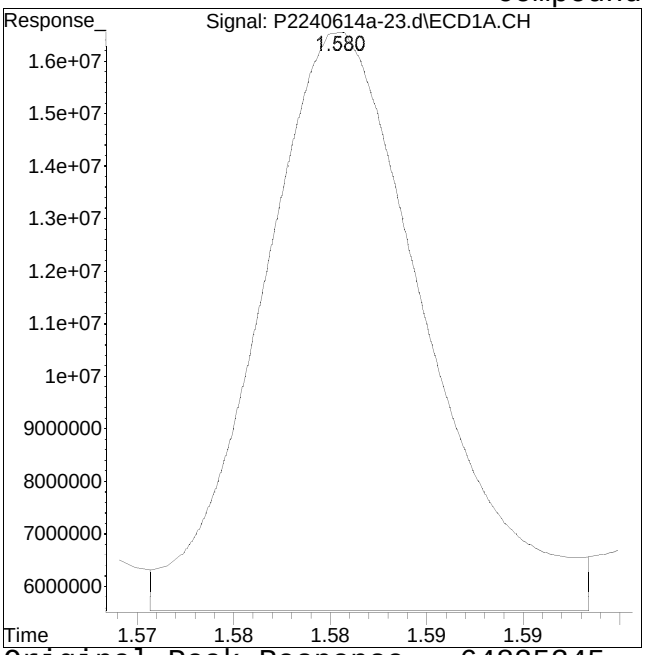


Original Peak Response = 301420295 Manual Peak Response = 289071824 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

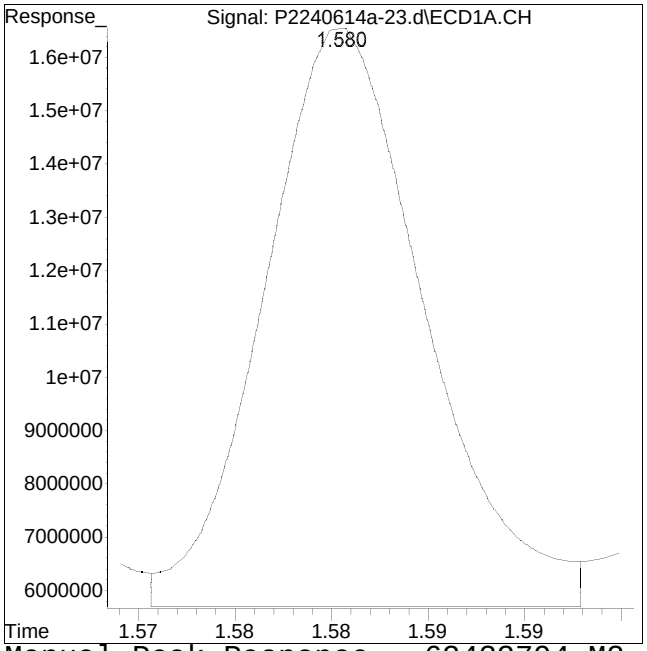
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #4: 1016-1



Original Peak Response = 64835345



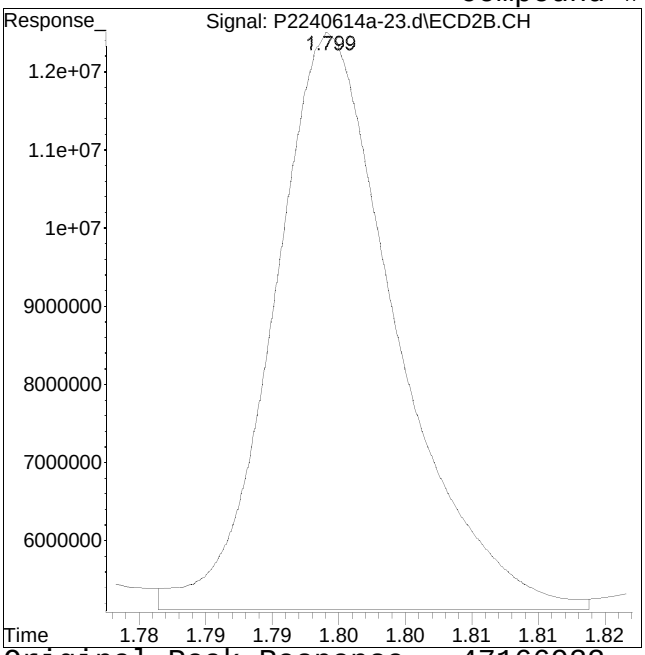
Manual Peak Response = 62433794 M2

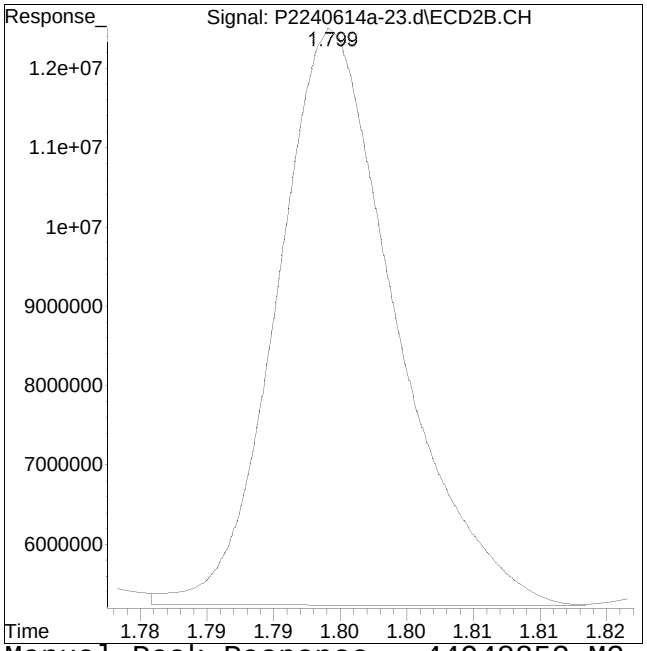
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #55: 1016-1 #2



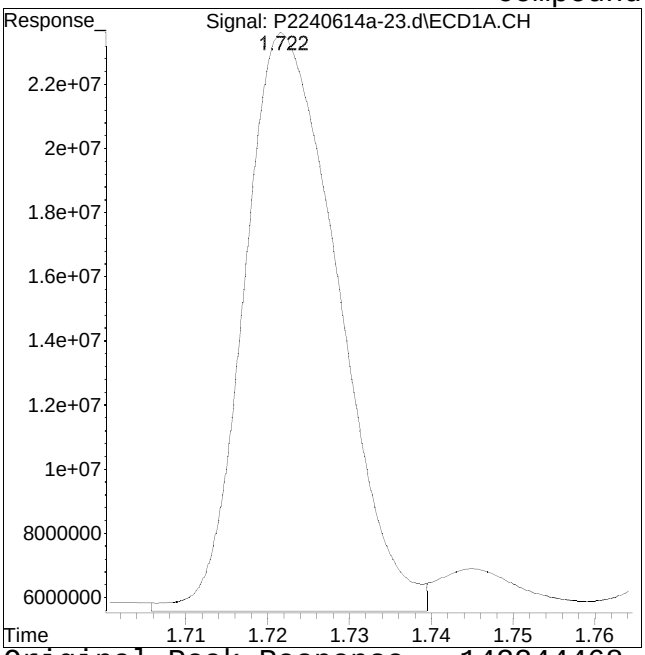


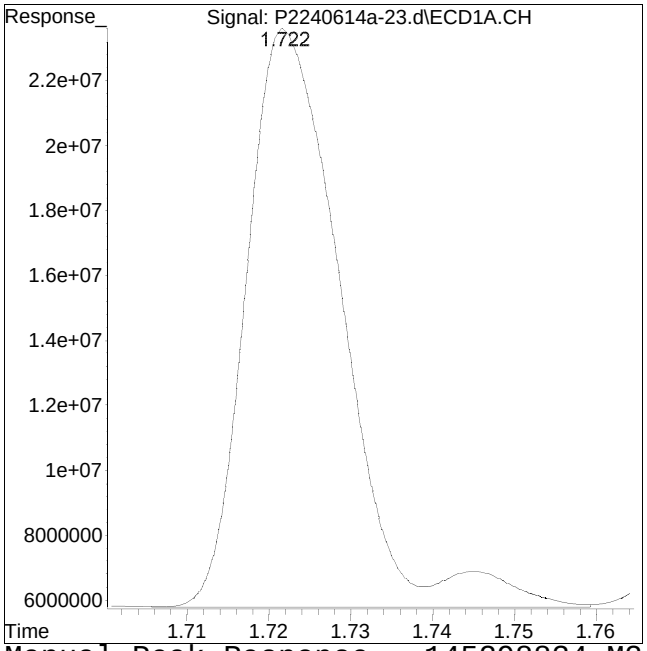
Original Peak Response = 47166932 Manual Peak Response = 44948852 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #5: 1016-2



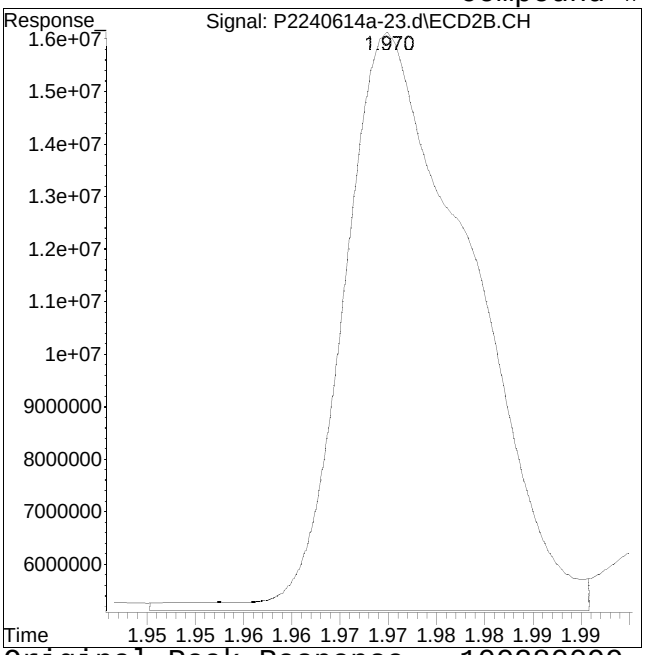


Original Peak Response = 142244468 Manual Peak Response = 145298834 M2
M2 = Peak not found by automatic integration algorithm.

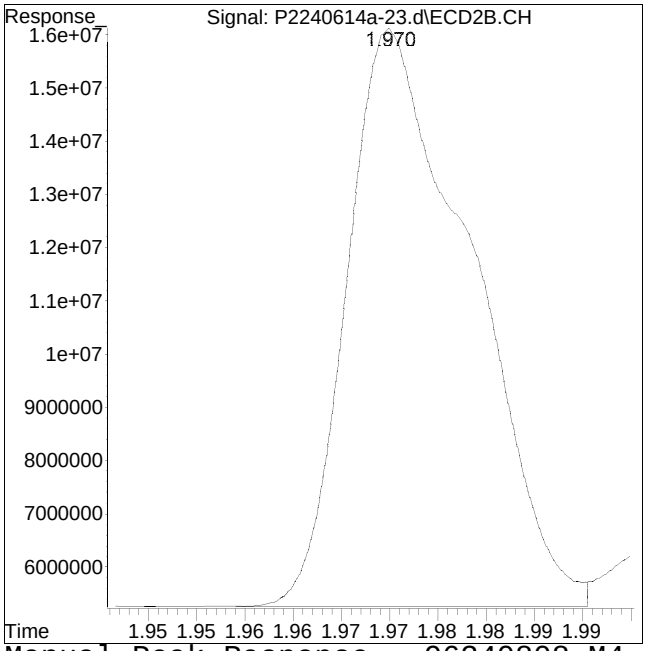
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #56: 1016-2 #2



Original Peak Response = 100280099



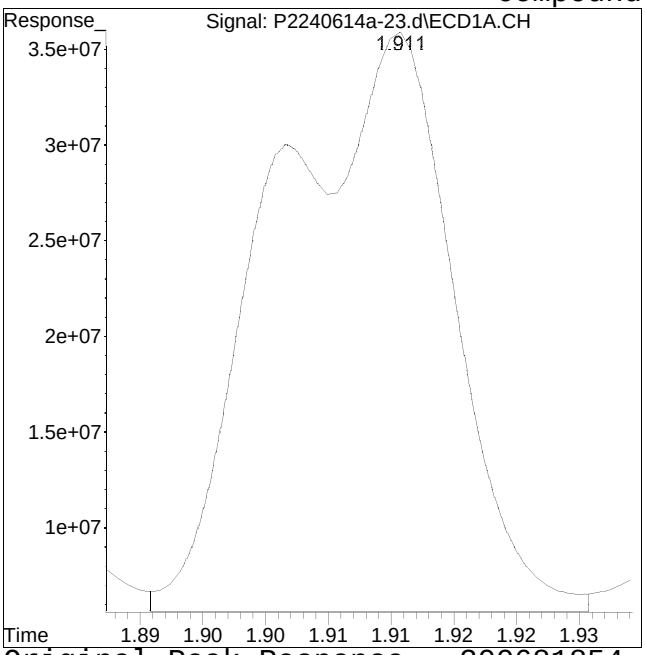
Manual Peak Response = 96340808 M4

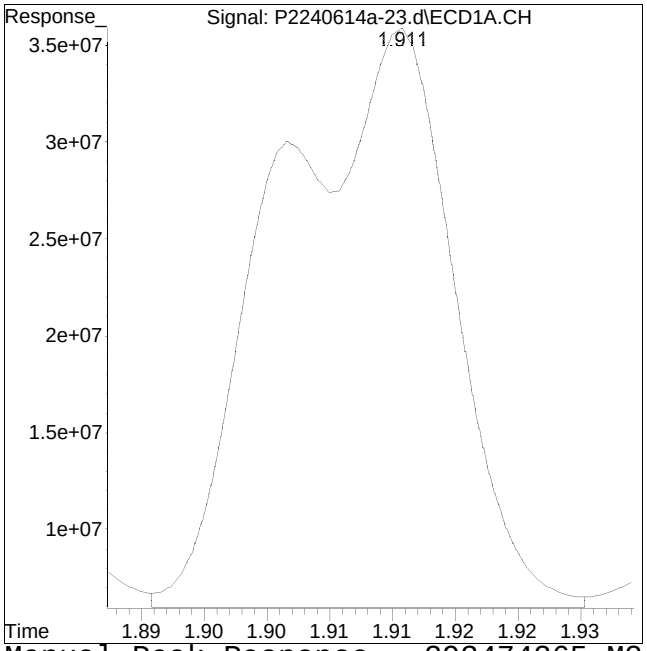
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #6: 1016-3



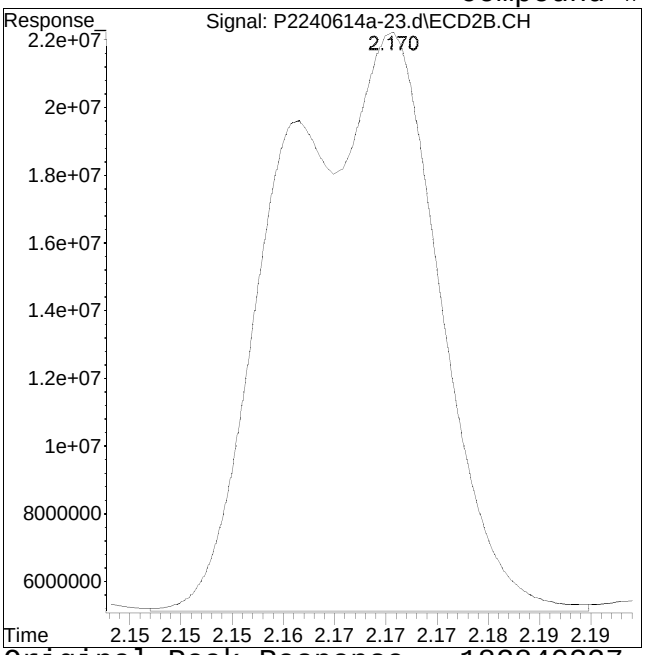


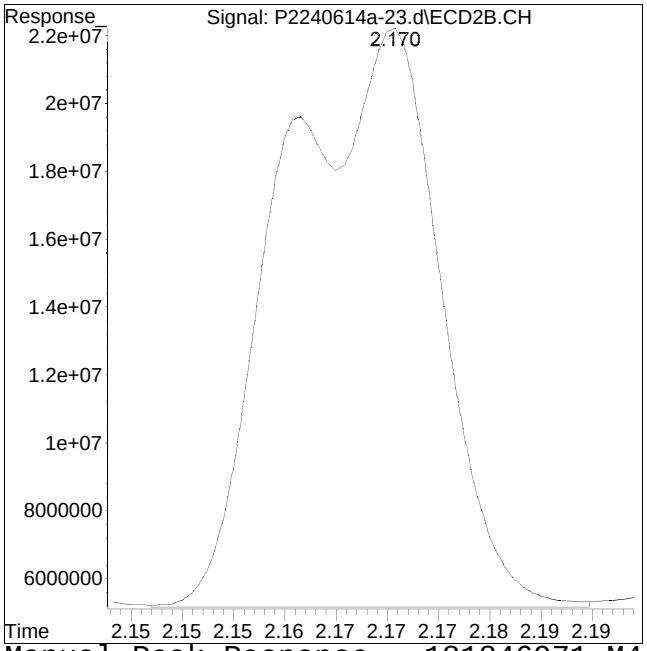
Original Peak Response = 300681854 Manual Peak Response = 293474265 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #57: 1016-3 #2



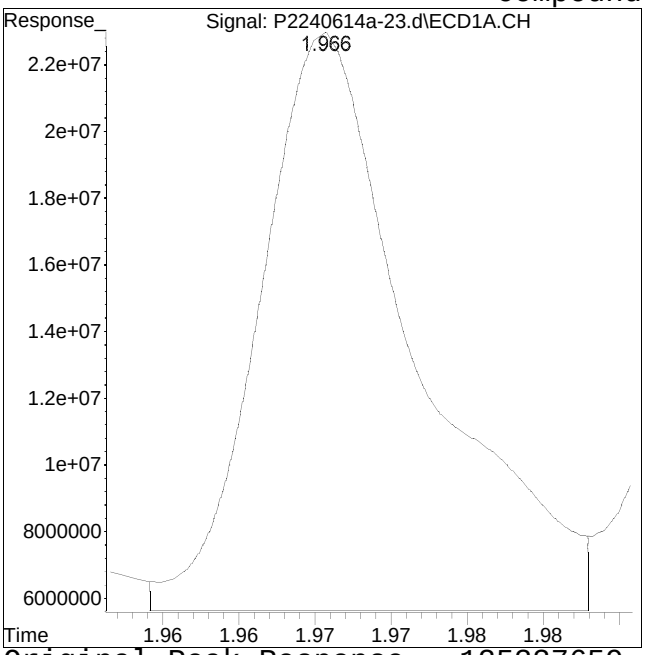


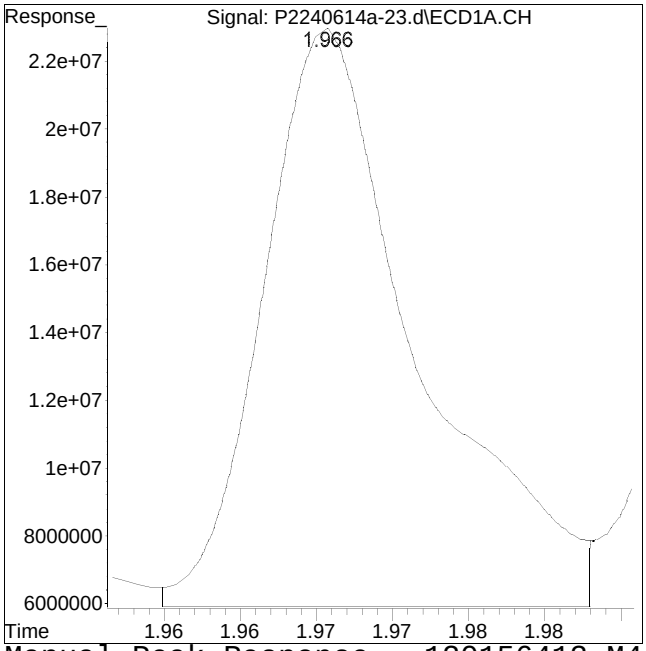
Original Peak Response = 182840337 Manual Peak Response = 181846971 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #7: 1016-4



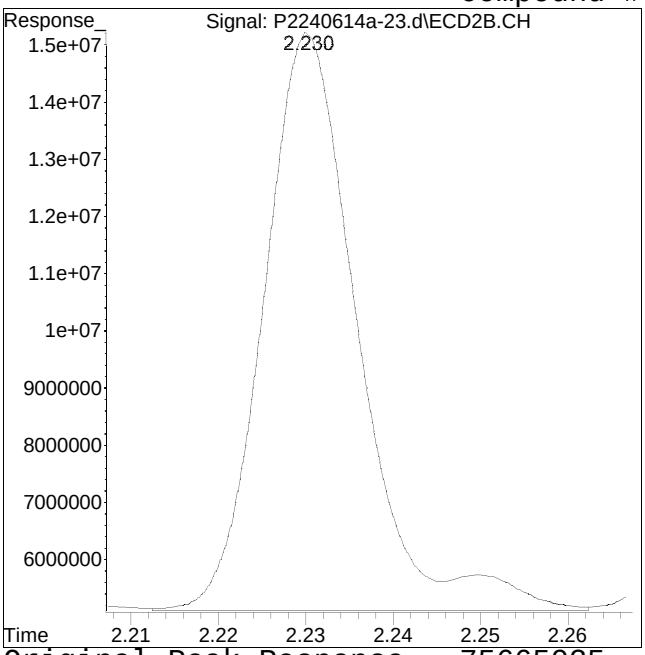


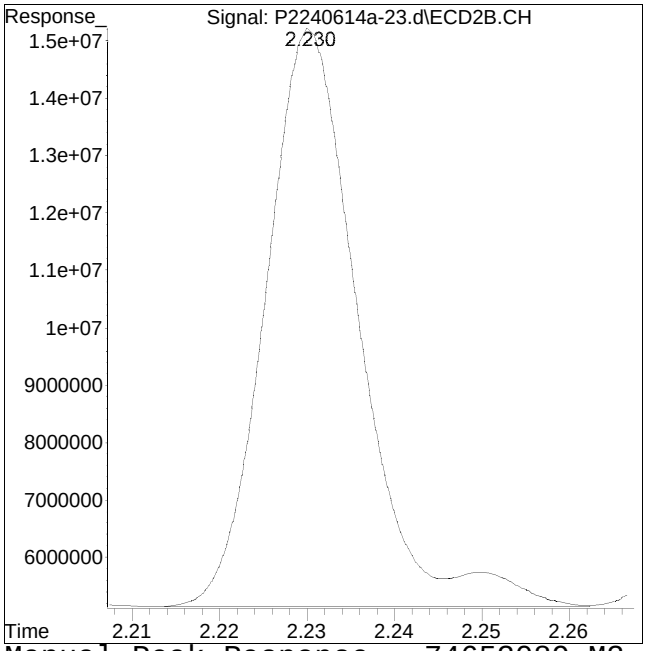
Original Peak Response = 125337659 Manual Peak Response = 120156413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #58: 1016-4 #2



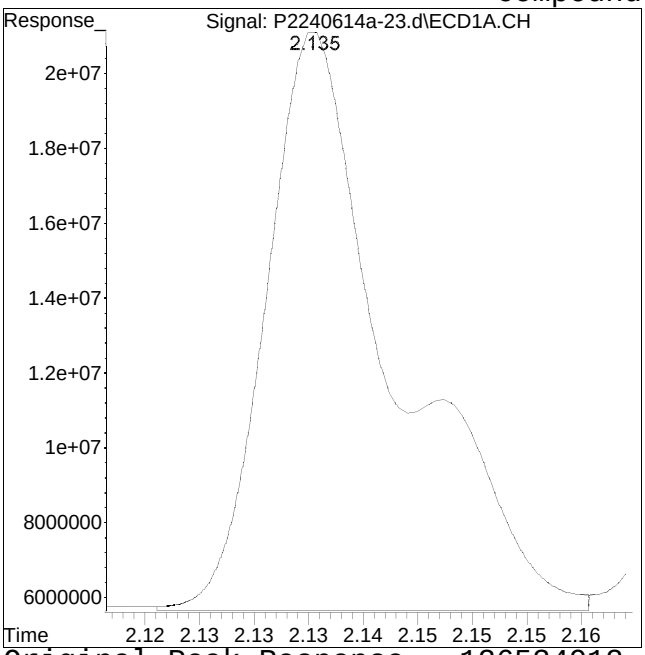


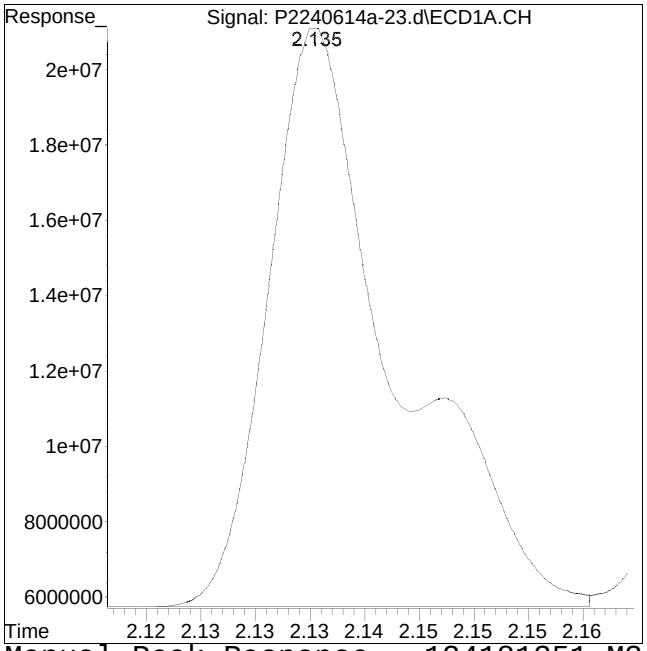
Original Peak Response = 75665035 Manual Peak Response = 74653089 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #8: 1016-5



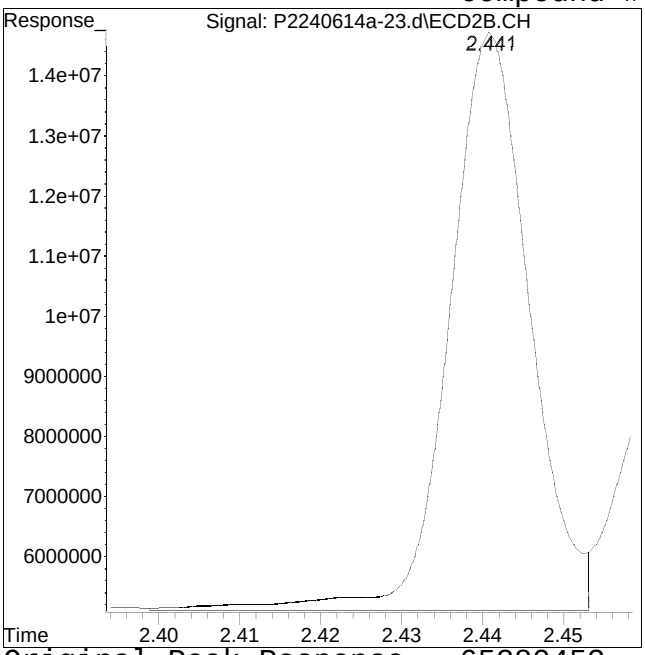


Original Peak Response = 126534912 Manual Peak Response = 124181351 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

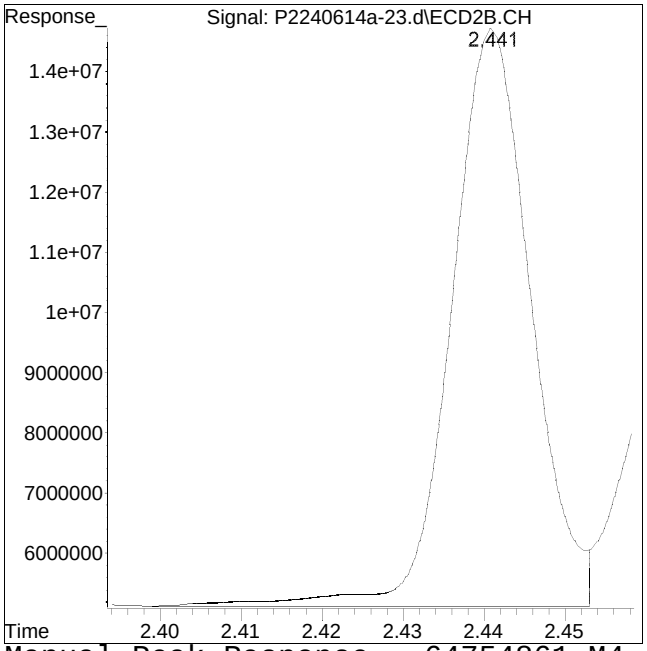
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #59: 1016-5 #2



Original Peak Response = 65380453



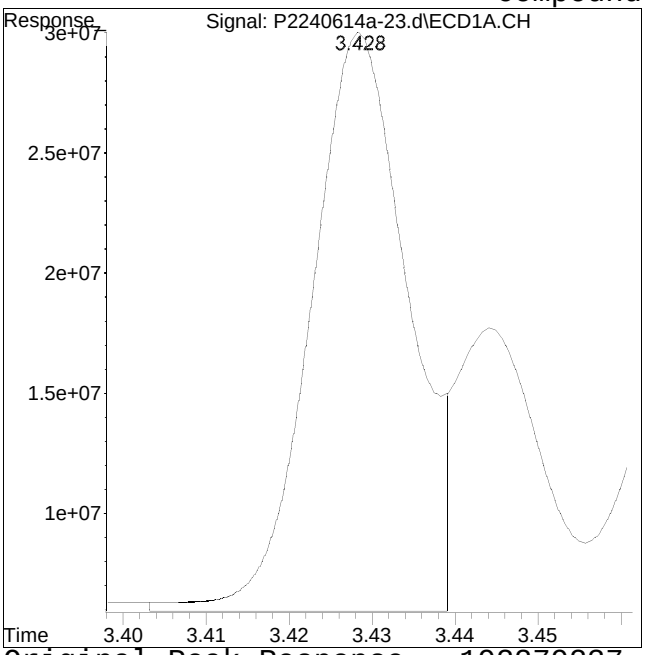
Manual Peak Response = 64754861 M4

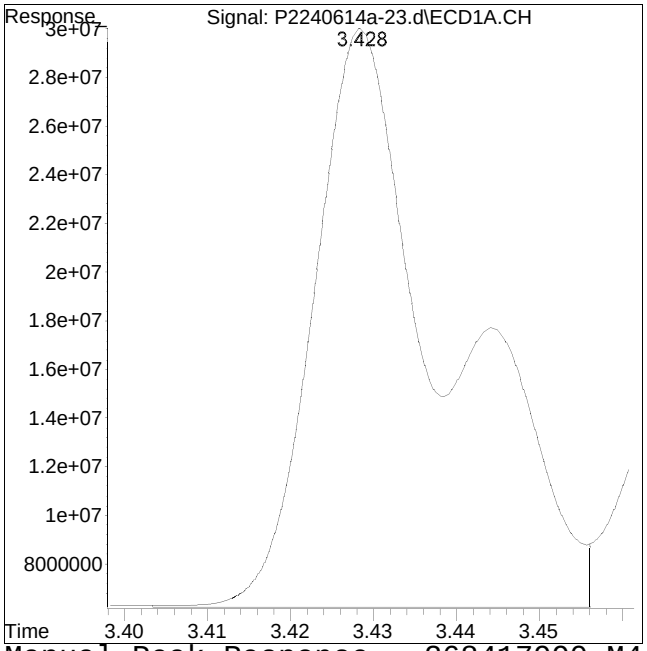
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240614a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240614a-23.d Operator : pest2:AD
Date Inj'd : 6/14/2024 16:23 Instrument : Pest 2
Sample : WG1934357-3,42,, 560 Quant Date : 6/14/2024 8:25 pm

Compound #13: 1260-5





Original Peak Response = 192279237 Manual Peak Response = 268417990 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **05/06/24**
Run: **I**

Method
GC: lvi

Seq: WG1918477
IS: pp11528
ICAL21102

Vial	Data File	Sample	CCAL	notes	initials
1	P2240506i-01	blank			
2	P2240506i-02	+1660 ccal pp11545 lvi icv			
3	P2240506i-03	il44268,42e,,pp 11454			RMP 5/7
4	P2240506i-04	il43262,42e,,pp 11457			RMP 5/7
5	P2240506i-05	il41248,42e,,pp 11452			RMP 5/7
6	P2240506i-06	il42154,42e,,pp 11449			RMP 5/7
7	P2240506i-07	il11660,42e,,pp 11447	Interference		
8	P2240506i-08	il21660,42e,,pp 11447			RMP 5/7
9	P2240506i-09	il31660,42e,,pp 11447			RMP 5/7
10	P2240506i-10	il41660,42e,,pp 11447			RMP 5/7
11	P2240506i-11	il51660,42e,,pp 11447			RMP 5/7
12	P2240506i-12	il61660,42e,,pp 11447			RMP 5/7
13	P2240506i-13	cicv4268,42,,pp 11468			RMP 5/7
14	P2240506i-14	cicv3262,42,,pp 11467			RMP 5/7
15	P2240506i-15	cicv1248,42,,pp 11461			RMP 5/7
16	P2240506i-16	cicv2154,42,,pp 11460			RMP 5/7
17	P2240506i-17	cicv1660,42,,pp 11459	RR L1	V to F17 rmp	
18	P2240506i-18	blank			
19	P2240506i-19	il11660,42e,,pp 11447			RMP 5/7
20	P2240506i-20	cicv1660,42,,pp 11459		V to F20 rmp	RMP 5/7

Dep.: PCB
Inst: Pest_2
Date: **06/14/24**
Run: a

Method
GC: PCB

Seq: WG1934325
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240614a-01	blank				
2	P2240614a-02	+1660 pp11545 lvi icv ccal	15%	7:26 mhg		meo 6/14
3	P2240614a-03	+2154 pp11460 lvi icv ccal	fail			
4	P2240614a-04	+1248 pp11461 lvi icv ccal	fail			
5	P2240614a-05	+4268 pp11468 lvi icv ccal	fail			
6	P2240614a-06	blank				
7	P2240614a-07	L2433428-01,42,,,R3A			meo	meo 6/14
8	P2240614a-08	L2433428-02,42,,,R3A				meo 6/14
9	P2240614a-09	L2433428-03,42,,,R3A				meo 6/14
10	P2240614a-10	L2433428-04,42,,,R3A				meo 6/14
11	P2240614a-11	WG1934181-1,42,,				meo 6/14
12	P2240614a-12	WG1934181-2,42,,				meo 6/14
13	P2240614a-13	WG1934181-3,42,,				meo 6/14
14	P2240614a-14	L2432096-08,42,,				meo 6/14
15	P2240614a-15	L2432096-24,42,,				meo 6/14
16	P2240614a-16	L2432425-01,42,,				meo 6/14
17	P2240614a-17	L2432425-02,42,,				meo 6/14
18	P2240614a-18	L2422662-50,42,, p				
19	P2240614a-19	WG1934181-4,42,, ms				
20	P2240614a-20	WG1934181-5,42,, dup		V to F20 mhg		

Dep.: PCB
Inst: Pest_2
Date: **06/15/24**
Run: a

Method
GC: PCB

Seq: WG1934764
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240615a-01	blank				
2	P2240615a-02	+1660 pp11545 lvi icv ccal				
3	P2240615a-03	prime				
4	P2240615a-04	+1660 pp11545 lvi icv c	15% 8:00 mhg			meo 6/15
5	P2240615a-05	+2154 pp11460 lvi icv ccal				
6	P2240615a-06	+1248 pp11461 lvi icv ccal				
7	P2240615a-07	+4268 pp11468 lvi icv ccal				
8	P2240615a-08	blank				
9	P2240615a-09	L2432633-01,42,,			meo	meo 6/15
10	P2240615a-10	L2432633-02,42,,				meo 6/15
11	P2240615a-11	L2432633-03,42,,				meo 6/15
12	P2240615a-12	L2432633-04,42,,		V to F12 mhg		meo 6/15

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 17 2024, 03:46 pm

Work Group: WG1934357 for Department: 2 Organic Preparation

Created: 14-JUN-24 Due: Operator: RET

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432297-02	FB-02_20240610	S	NYTCL-8082-LVI	WATER	DONE	U	0610	0617	S0	Amber-A.120
L2432330-01	EB-061024	S	NYTCL-8082-LVI	WATER	DONE	U	0610	0617	3E	
L2432633-01	MW-11S	S	NYTCL-8082-LVI	WATER	DONE	U	0611	0618	S0	Amber-A.120
L2432633-02	MW-11D	S	NYTCL-8082-LVI	WATER	DONE	U	0611	0618	S0	Amber-A.120
L2432633-03	MW-13S	S	NYTCL-8082-LVI	WATER	DONE	U	0611	0618	S0	Amber-A.120
L2432633-04	MW-13D	S	NYTCL-8082-LVI	WATER	DONE	U	0611	0618	S0	Amber-A.120
WG1934357-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1934357-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1934357-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1934357-3 WG1934357-2

ORGANIC ELN REPORT

Workgroup: WG1934357

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: Pesticide/PCB **Lot #:** pp11564ab,10/30/2024,7c,6,1
Spike Type: PCB **Lot #:** PP11443D,07/02/2024
Spike Verify by: RET
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI504

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI504

Additional Reagents/Stds

H2SO4	2024030587

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI504

Additional Reagents/Stds

Copper	2401CPG001

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432297-02 SAMP	06/14/24 09:00	Ryan Trenholm	140	>5,<9	.1		06/14/24 13:56	Amanda Patterson	5	H / K / #3
L2432330-01 SAMP	06/14/24 09:00	Ryan Trenholm	140	>5,<9	.1		06/14/24 13:56	Amanda Patterson	5	H / K / #3
L2432633-01 SAMP	06/15/24 01:01	John Awuah	140	>5,<9	.1		06/15/24 08:45	Sophia Osei	5	SEVAP D/A,#1
L2432633-02 SAMP	06/15/24 01:01	John Awuah	140	>5,<9	.1		06/15/24 08:45	Sophia Osei	5	SEVAP D/A,#1
L2432633-03 SAMP	06/15/24 01:01	John Awuah	140	>5,<9	.1		06/15/24 08:45	Sophia Osei	5	SEVAP D/A,#1

Reported: 17-JUN-24 03:46 PM

ORGANIC ELN REPORT

Workgroup: WG1934357

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2432633-04 SAMP	06/15/24 01:01	John Awuah	140	>5,<9	.1		06/15/24 08:45	Sophia Osei	5	SEVAP D/A,#1
WG1934357-1 BLANK	06/14/24 09:00	Ryan Trenholm	140	>5,<9	.1		06/14/24 13:56	Amanda Patterson	5	H / K / #3
WG1934357-2 LCS	06/14/24 09:00	Ryan Trenholm	140	>5,<9	.1	.1	06/14/24 13:56	Amanda Patterson	5	H / K / #3
WG1934357-3 LCSD	06/14/24 09:00	Ryan Trenholm	140	>5,<9	.1	.1	06/14/24 13:56	Amanda Patterson	5	H / K / #3

ORGANIC ELN REPORT

Workgroup: WG1934357

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup 2 Cleanup Date	Analyst
L2432297-02 SAMP	06/14/24 14:16	Kristina Arsenault	5	1	06/14/24 15:15	Kristina Arsenault
L2432330-01 SAMP	06/14/24 14:16	Kristina Arsenault	5	1	06/14/24 15:15	Kristina Arsenault
L2432633-01 SAMP	06/15/24 09:03	Georgia Mckinstry	5	1	06/15/24 10:15	Priscilla Sarkodie
L2432633-02 SAMP	06/15/24 09:03	Georgia Mckinstry	5	1	06/15/24 10:15	Priscilla Sarkodie
L2432633-03 SAMP	06/15/24 09:03	Georgia Mckinstry	5	1	06/15/24 10:15	Priscilla Sarkodie
L2432633-04 SAMP	06/15/24 09:03	Georgia Mckinstry	5	1	06/15/24 10:15	Priscilla Sarkodie
WG1934357-1 BLANK	06/14/24 14:16	Kristina Arsenault	5	1	06/14/24 15:15	Kristina Arsenault
WG1934357-2 LCS	06/14/24 14:16	Kristina Arsenault	5	1	06/14/24 15:15	Kristina Arsenault
WG1934357-3 LCSD	06/14/24 14:16	Kristina Arsenault	5	1	06/14/24 15:15	Kristina Arsenault

Reported: 17-JUN-24 03:46 PM

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2432633
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-11S (L2432633-01)	76	74	74	82			0
MW-11D (L2432633-02)	77	78	71	80			0
MW-13S (L2432633-03)	71	70	77	86			0
MW-13D (L2432633-04)	68	67	69	76			0
WG1934673-1BLANK	71	70	70	79			0
WG1934673-2LCS	71	71	68	78			0
WG1934673-3LCSD	71	70	75	82			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934673-2 **Analysis Date** : 06/15/24 12:56	**File ID**	: 11240615a-24
LCSD Sample ID	: WG1934673-3 **Analysis Date** : 06/15/24 13:08	**File ID**	: 11240615a-25

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.260	73	0.357	0.260	73	0	30-150	20
Lindane	0.357	0.271	76	0.357	0.287	80	6	30-150	20
Alpha-BHC	0.357	0.280	78	0.357	0.299	84	7	30-150	20
Beta-BHC	0.357	0.259	73	0.357	0.272	76	5	30-150	20
Heptachlor	0.357	0.263	74	0.357	0.277	78	5	30-150	20
Aldrin	0.357	0.259	73	0.357	0.278	78	7	30-150	20
Heptachlor epoxide	0.357	0.267	75	0.357	0.285	80	6	30-150	20
Endrin	0.357	0.280	78	0.357	0.300	84	7	30-150	20
Endrin aldehyde	0.357	0.233	65	0.357	0.227	64	2	30-150	20
Endrin ketone	0.357	0.290	81	0.357	0.302	85	4	30-150	20
Dieldrin	0.357	0.294	82	0.357	0.316	89	7	30-150	20
4,4'-DDE	0.357	0.261	73	0.357	0.285	80	9	30-150	20
4,4'-DDD	0.357	0.293	82	0.357	0.315	88	7	30-150	20
4,4'-DDT	0.357	0.289	81	0.357	0.296	83	2	30-150	20
Endosulfan I	0.357	0.262	73	0.357	0.280	78	7	30-150	20
Endosulfan II	0.357	0.273	76	0.357	0.282	79	3	30-150	20
Endosulfan sulfate	0.357	0.261	73	0.357	0.262	73	0	30-150	20
Methoxychlor	0.357	0.291	82	0.357	0.292	82	0	30-150	20
cis-Chlordane	0.357	0.249	70	0.357	0.272	76	9	30-150	20
trans-Chlordane	0.357	0.292	82	0.357	0.313	88	7	30-150	20

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934673-1	**Lab File ID**	: 11240615a-23
Matrix	: WATER	**Extraction Date**	: 06/15/24
Analysis Date (1)	: 06/15/24 12:44	**Analysis Date (2)**	: 06/15/24 12:44
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1934673-2LCS	WG1934673-2	06/15/24 12:56	06/15/24 12:56
WG1934673-3LCSD	WG1934673-3	06/15/24 13:08	06/15/24 13:08
MW-11S	L2432633-01	06/15/24 16:19	06/15/24 16:19
MW-11D	L2432633-02	06/15/24 16:31	06/15/24 16:31
MW-13S	L2432633-03	06/15/24 16:43	06/15/24 16:43
MW-13D	L2432633-04	06/15/24 16:55	06/15/24 16:55

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 06/13/24 06/13/24

Client ID	Lab ID	Date/Time Analyzed
R1841222-26 PEM	R1841222-26	06/13/24 13:56
Pesticides L1 (0.5ug/L)	R1841222-1	06/13/24 14:08
Pesticides L2 (1.0ug/L)	R1841222-2	06/13/24 14:20
Pesticides L3 (2.0ug/L)	R1841222-3	06/13/24 14:32
Pesticides L4 (3.0ug/L)	R1841222-4	06/13/24 14:44
Pesticides L5 (4.0ug/L)	R1841222-5	06/13/24 14:56
Pesticides L7 (10.0ug/L)	R1841222-6	06/13/24 15:08
Pesticides L8 (50.0ug/L)	R1841222-7	06/13/24 15:20
Pesticides L9 (100ug/L)	R1841222-8	06/13/24 15:32
Pesticides L10 (200ug/L)	R1841222-9	06/13/24 15:44
Pesticides L11 (400ug/L)	R1841222-10	06/13/24 15:56
R1841222-11 ICV	R1841222-11	06/13/24 16:08
Chlordane L3 (10ug/L)	R1841222-12	06/13/24 16:20
Chlordane L4 (20ug/L)	R1841222-13	06/13/24 16:32
Chlordane L5 (100ug/L)	R1841222-14	06/13/24 16:44
Chlordane L7 (500ug/L)	R1841222-15	06/13/24 16:56
Chlordane L8 (1000ug/L)	R1841222-16	06/13/24 17:08
Chlordane L9 (2000ug/L)	R1841222-17	06/13/24 17:20
Chlordane L10 (5000ug/L)-	R1841222-18	06/13/24 17:32
R1841222-19 ICV	R1841222-19	06/13/24 17:44
Toxaphene L3 (20.0ug/L)	R1841222-20	06/13/24 17:56
Toxaphene L4 (100ug/L)	R1841222-21	06/13/24 18:08
Toxaphene L7 (1000ug/L)	R1841222-22	06/13/24 18:20
Toxaphene L8 (2000ug/L)	R1841222-23	06/13/24 18:32
Toxaphene L9 (5000ug/L)	R1841222-24	06/13/24 18:44
R1841222-25 ICV	R1841222-25	06/13/24 18:56
R1841430-1 PEM	R1841430-1	06/15/24 07:46
WG1934790-1 CCAL	WG1934790-1	06/15/24 07:58
WG1934790-2 CCAL	WG1934790-2	06/15/24 08:10
WG1934790-3 CCAL	WG1934790-3	06/15/24 08:22
WG1934673-1 BLANK	WG1934673-1	06/15/24 12:44
WG1934673-2 LCS	WG1934673-2	06/15/24 12:56
WG1934673-3 LCSD	WG1934673-3	06/15/24 13:08
WG1934790-4 CCAL	WG1934790-4	06/15/24 15:31
MW-11S	L2432633-01	06/15/24 16:19
MW-11D	L2432633-02	06/15/24 16:31
MW-13S	L2432633-03	06/15/24 16:43
MW-13D	L2432633-04	06/15/24 16:55

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 16:19
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240615a-41	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 16:31
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240615a-42	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 16:43
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240615a-43	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 16:55
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240615a-44	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934673-1	**Date Collected**	: NA
Client ID	: WG1934673-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/15/24 12:44
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240615a-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:19
Operator : PEST11:mmg
Sample : L2432633-01,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 16:41:00 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.430	1.449	150.3E6	110.9E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 148091509				Recovery = 101.51%		
	Standard Area 1 : #2 = 107601541				Recovery = 103.08%		
28) i	1-br-2-nb_Ch	1.430	1.449	150.3E6	110.9E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.430	1.449	150.3E6	110.9E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.797	1.945	255.1E6	193.1E6	38.108M4	37.166M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 76.22%		74.33%
27) s	Decachlorobi	6.472	7.034	241.6E6	164.2E6	37.155M4	41.177M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 74.31%		82.35%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:19
Operator : PEST11:mmg
Sample : L2432633-01,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 16:41:00 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

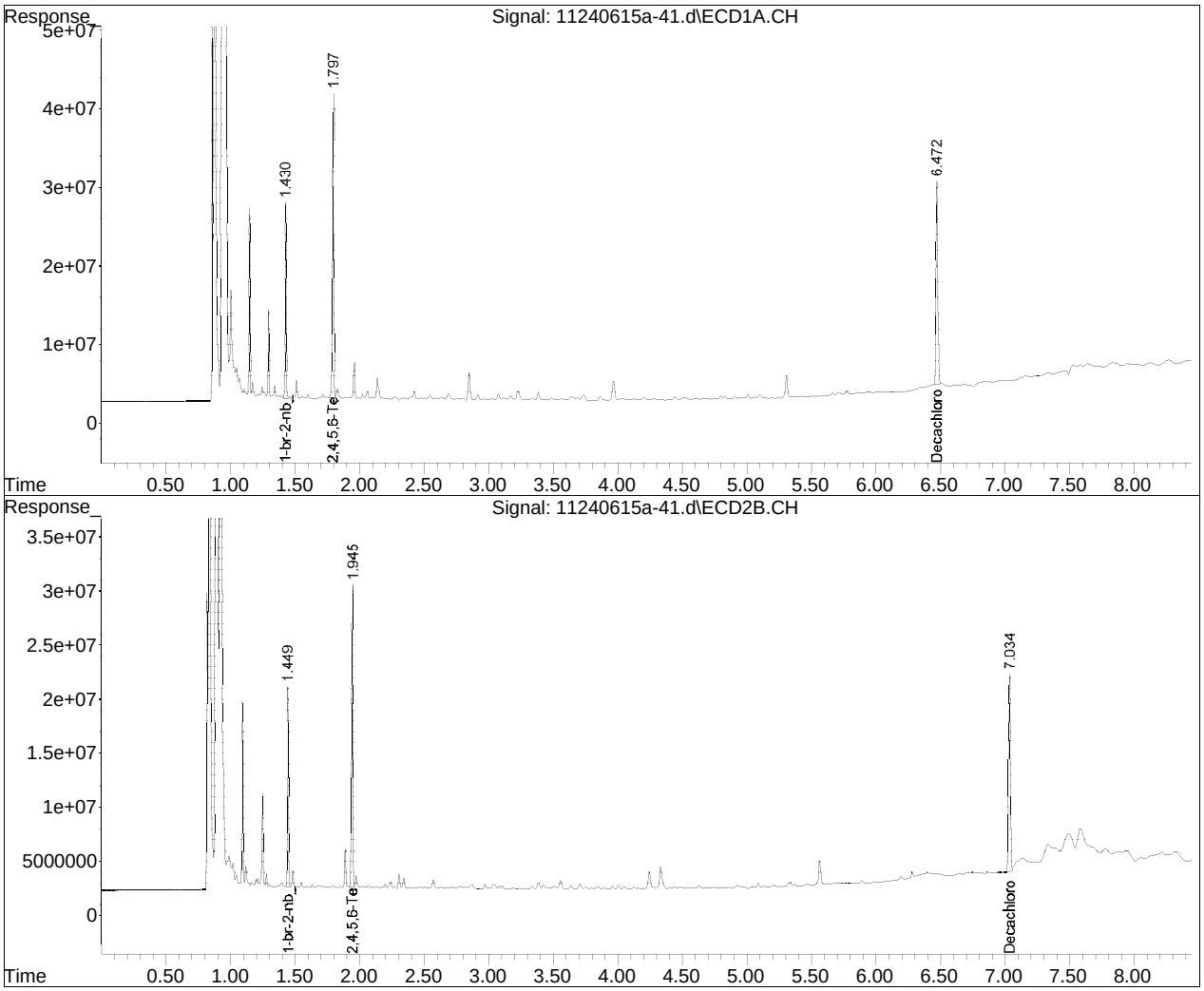
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240615a-37.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-41.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:19
Operator : PEST11:mmg
Sample : L2432633-01,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 16:41:00 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

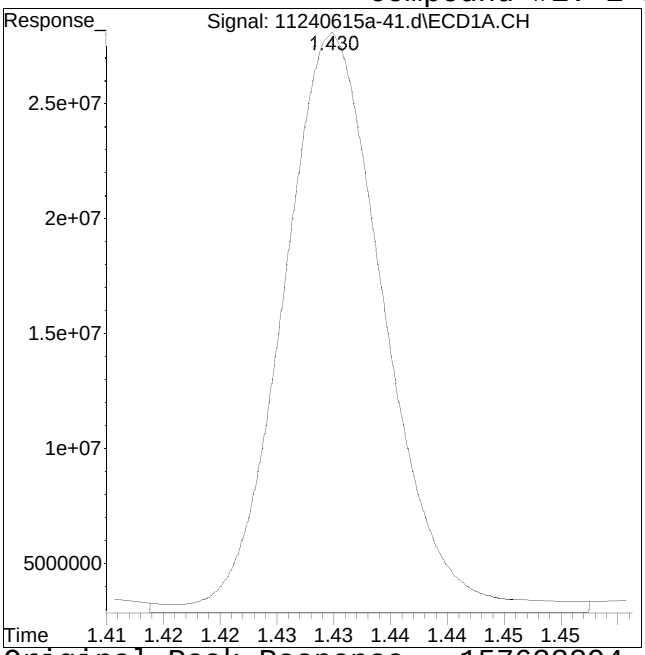
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

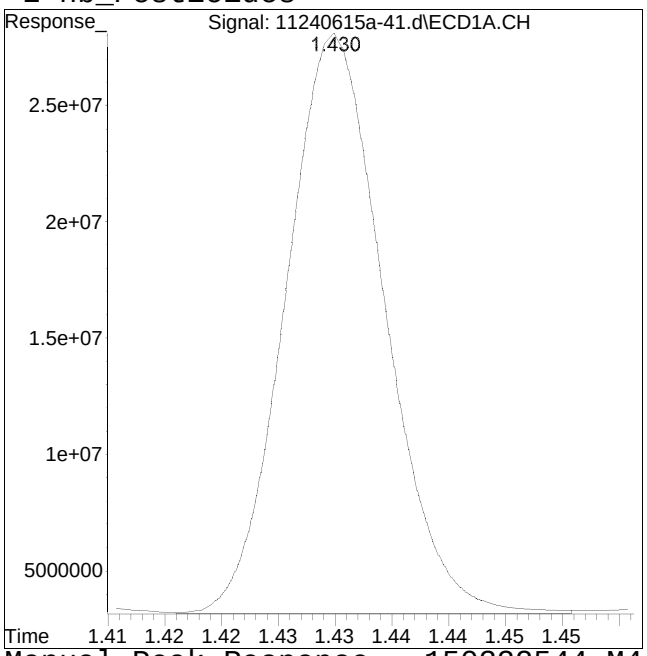


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #1: 1-br-2-nb_Pesticides



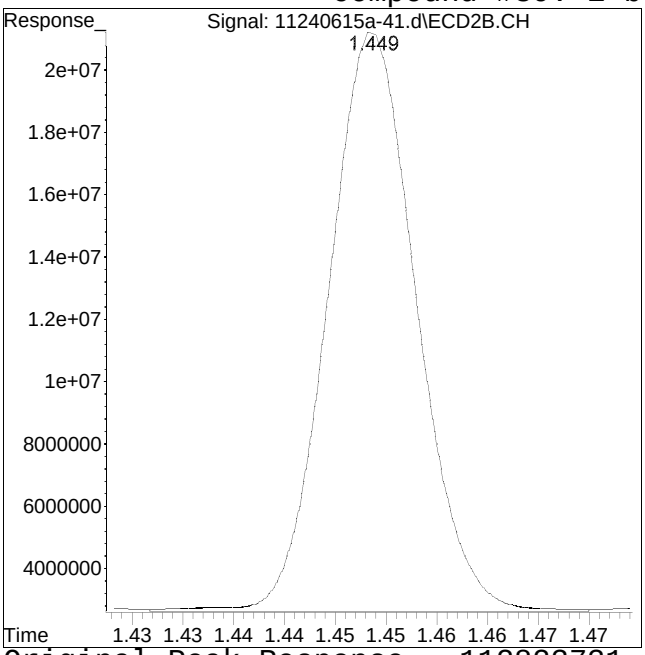


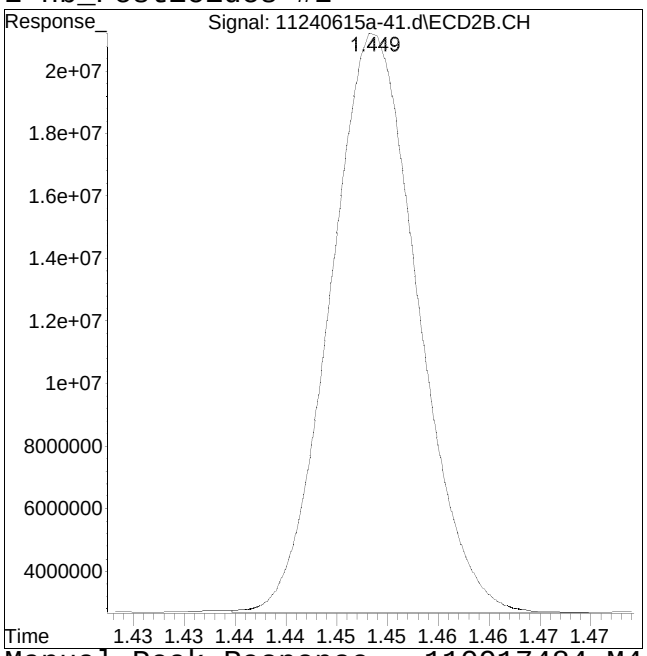
Original Peak Response = 157633394 Manual Peak Response = 150322544 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #39: 1-br-2-nb_Pesticides #2



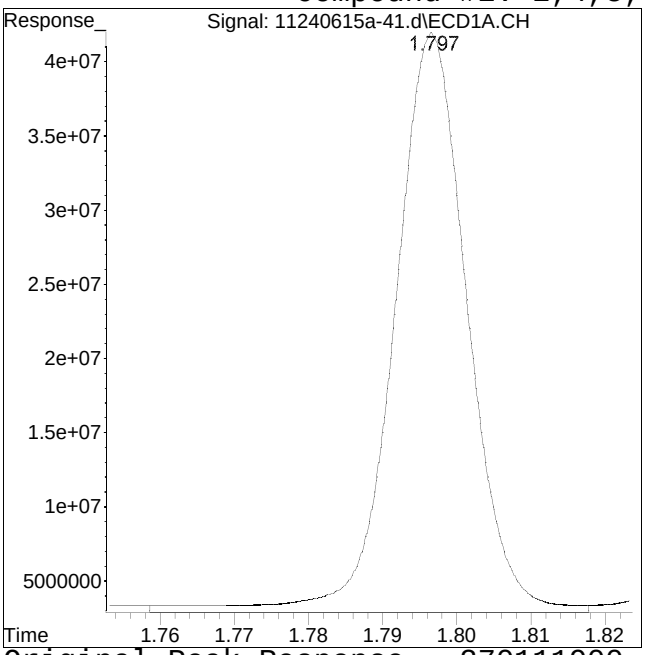


Original Peak Response = 112823731 Manual Peak Response = 110917484 M4
M4 = Poor automated baseline construction.

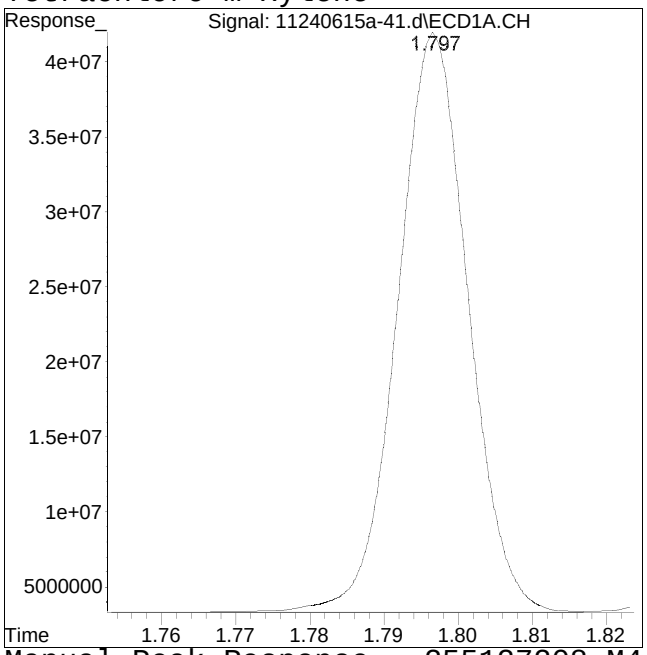
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 270111900



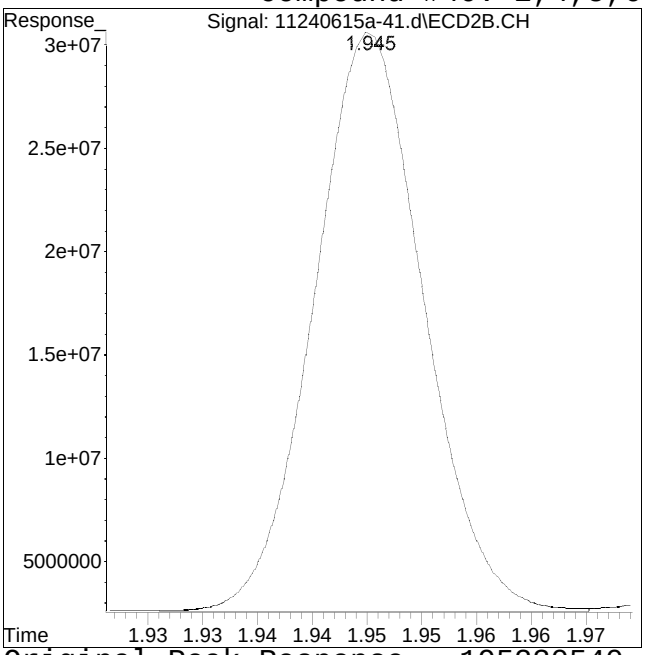
Manual Peak Response = 255127208 M4

M4 = Poor automated baseline construction.

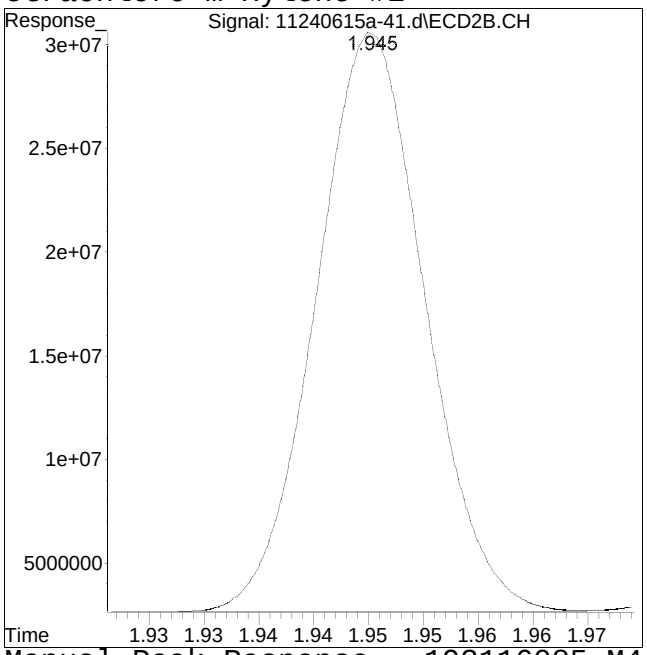
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 195230540

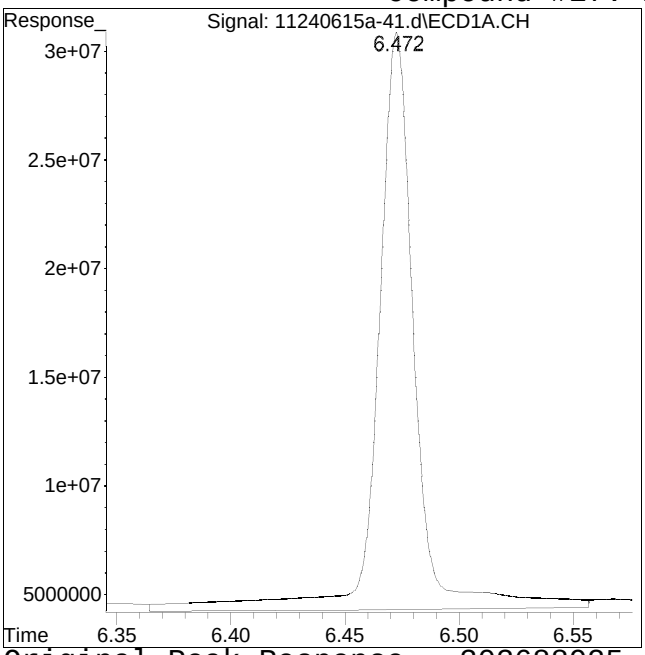


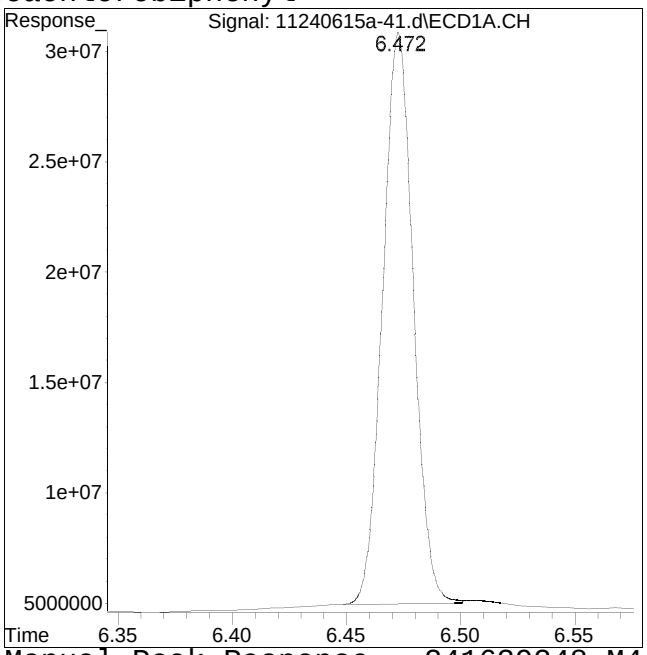
Manual Peak Response = 193116085 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #27: Decachlorobiphenyl



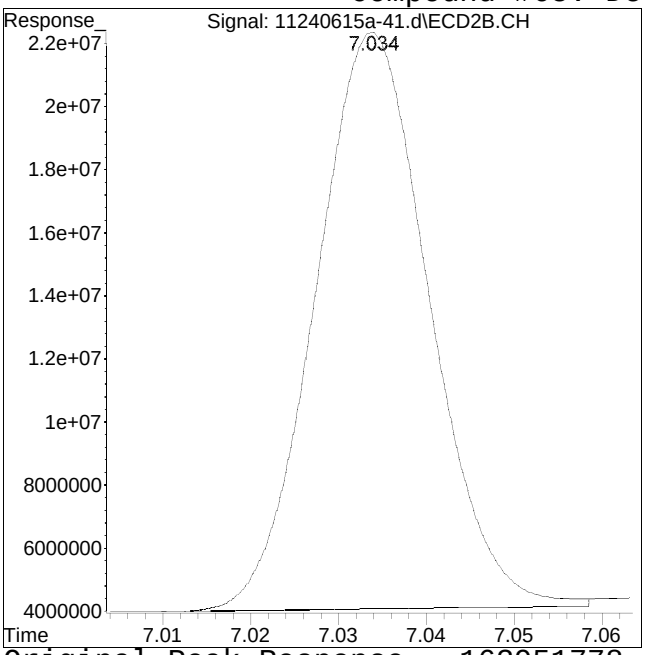


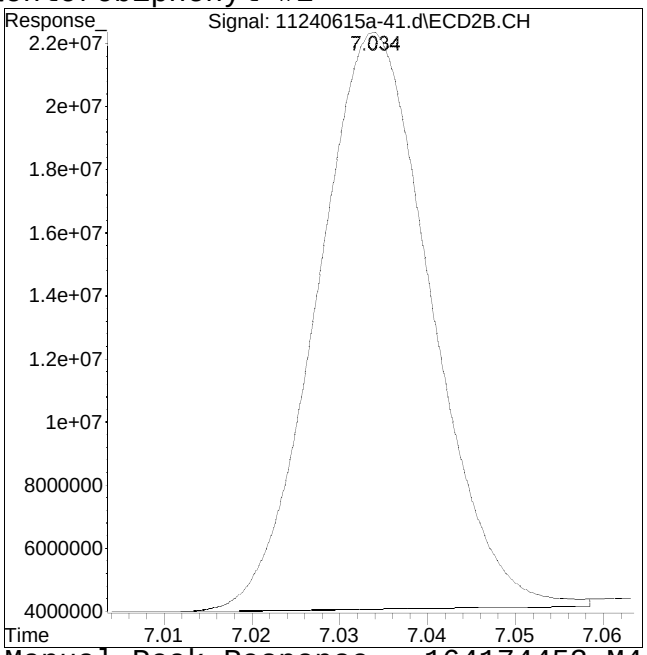
Original Peak Response = 303688925 Manual Peak Response = 241639248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #65: Decachlorobiphenyl #2



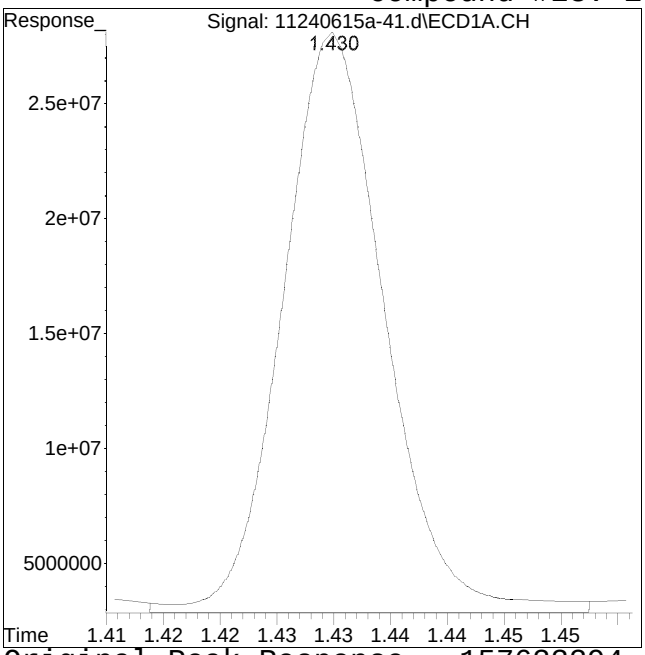


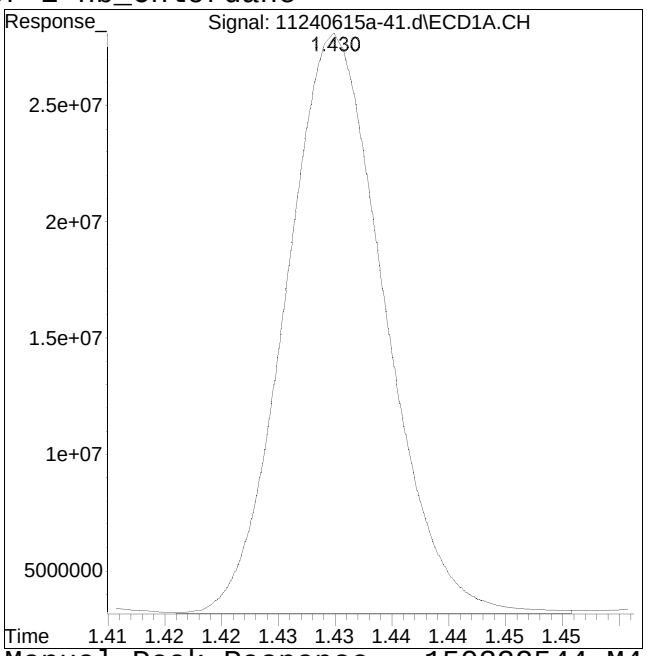
Original Peak Response = 163951778 Manual Peak Response = 164174453 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #28: 1-br-2-nb_Chlordane



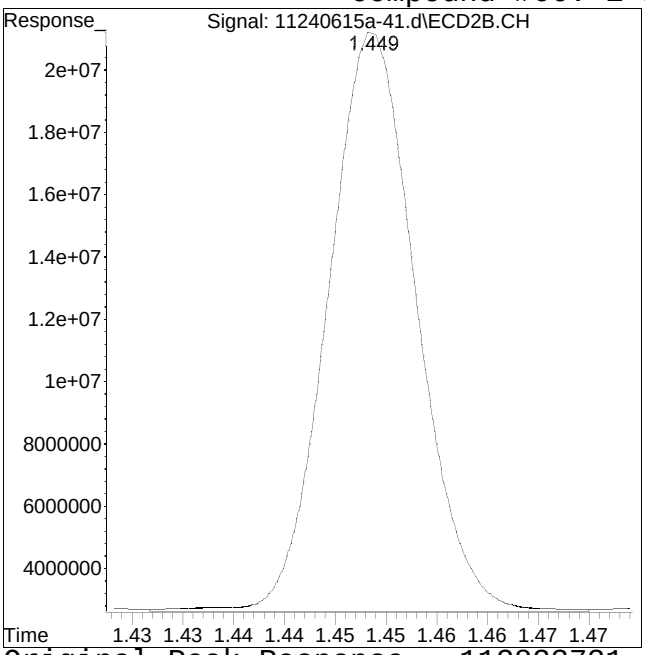


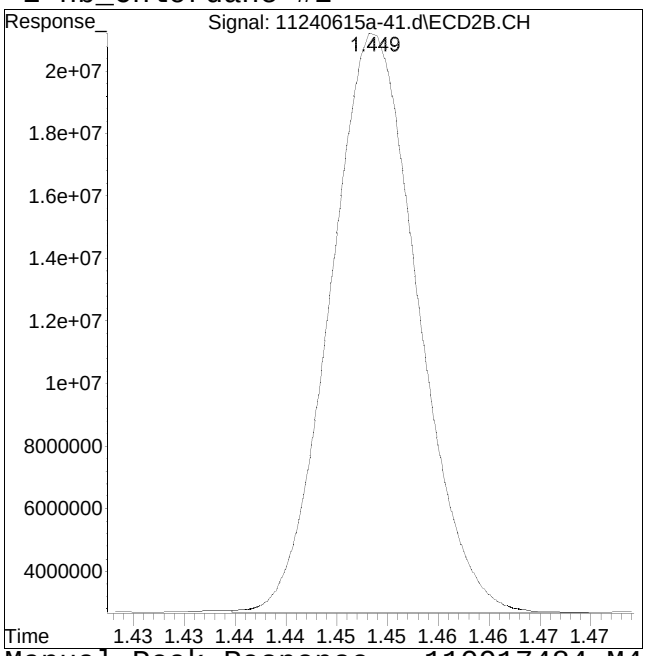
Original Peak Response = 157633394 Manual Peak Response = 150322544 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #66: 1-br-2-nb_Chlordane #2



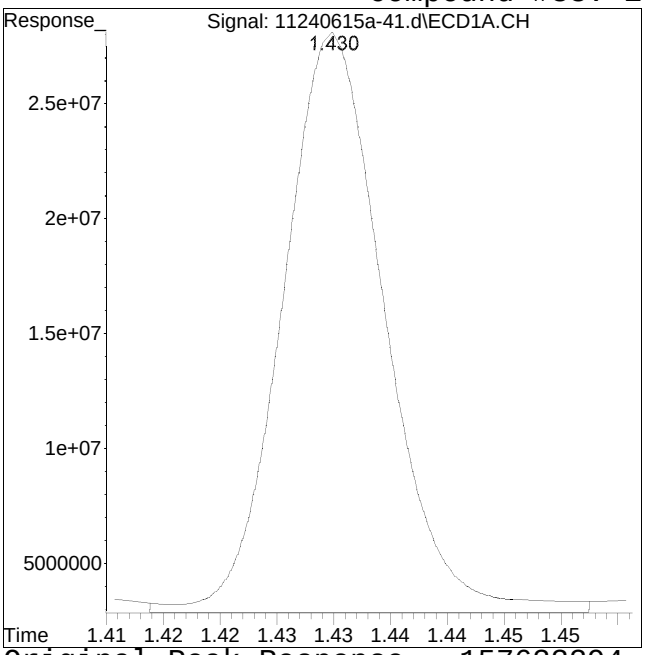


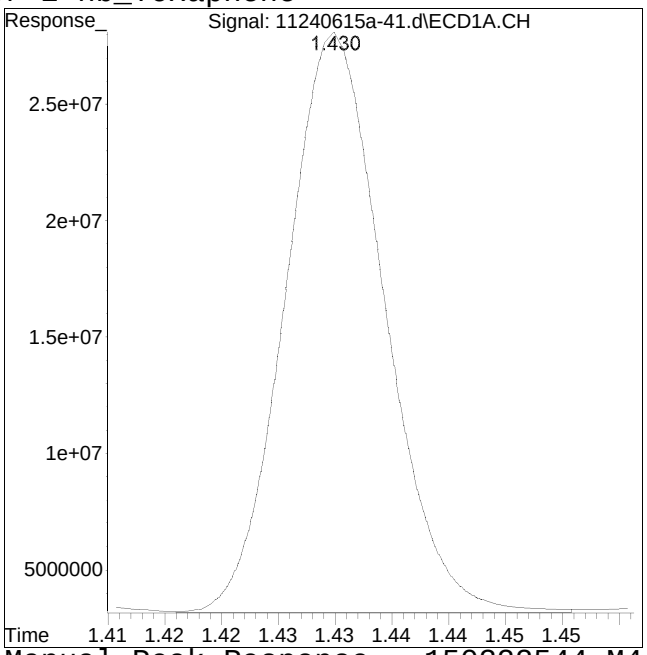
Original Peak Response = 112823731 Manual Peak Response = 110917484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #33: 1-br-2-nb_Toxaphene



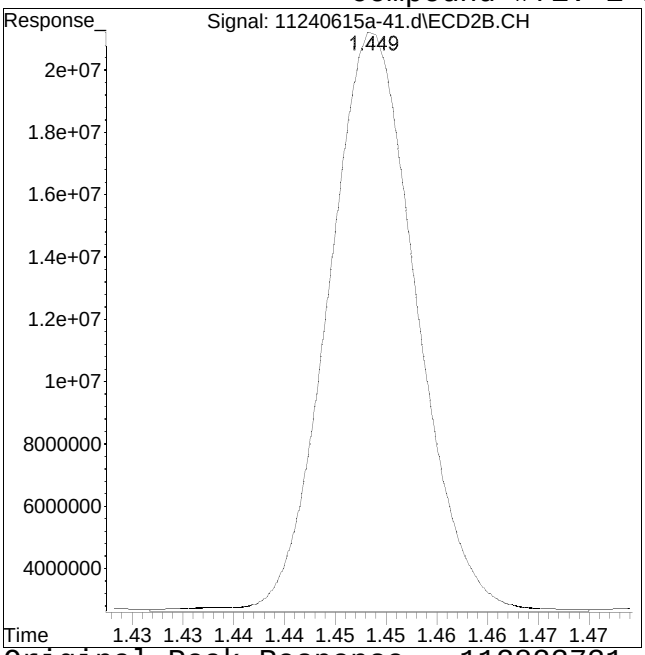


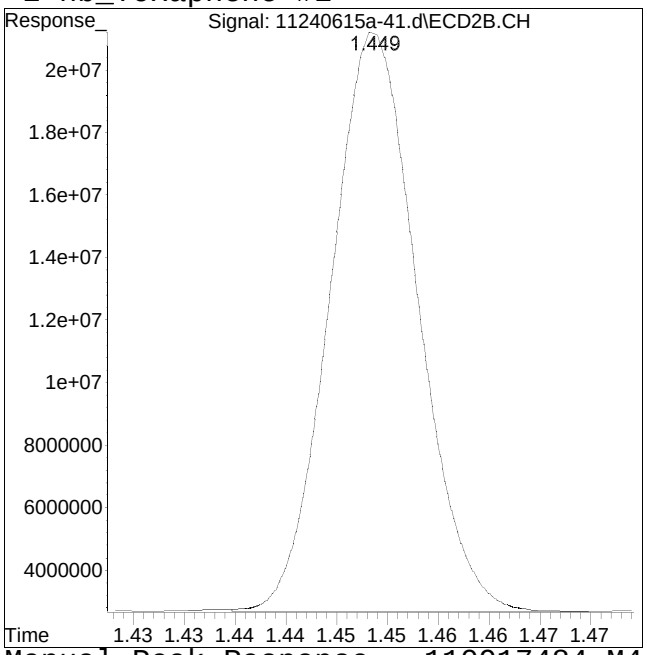
Original Peak Response = 157633394 Manual Peak Response = 150322544 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-41.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:19 Instrument : Pest 11
Sample : L2432633-01,42,, Quant Date : 6/15/2024 4:41 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 112823731 Manual Peak Response = 110917484 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-42.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:31
Operator : PEST11:mmg
Sample : L2432633-02,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 16:41:02 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.430	1.448	141.5E6	103.0E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 148091509				Recovery =	95.54%	
	Standard Area 1 : #2 = 107601541				Recovery =	95.73%	
28) i	1-br-2-nb_Ch	1.430	1.448	141.5E6	103.0E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.430	1.448	141.5E6	103.0E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.796	1.945	243.7E6	187.9E6	38.679M4	38.948M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	77.36%	77.90%
27) s	Decachlorobi	6.472	7.033	217.6E6	147.8E6	35.552M4	39.860M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	71.10%	79.72%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-42.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:31
Operator : PEST11:mmg
Sample : L2432633-02,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 16:41:02 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

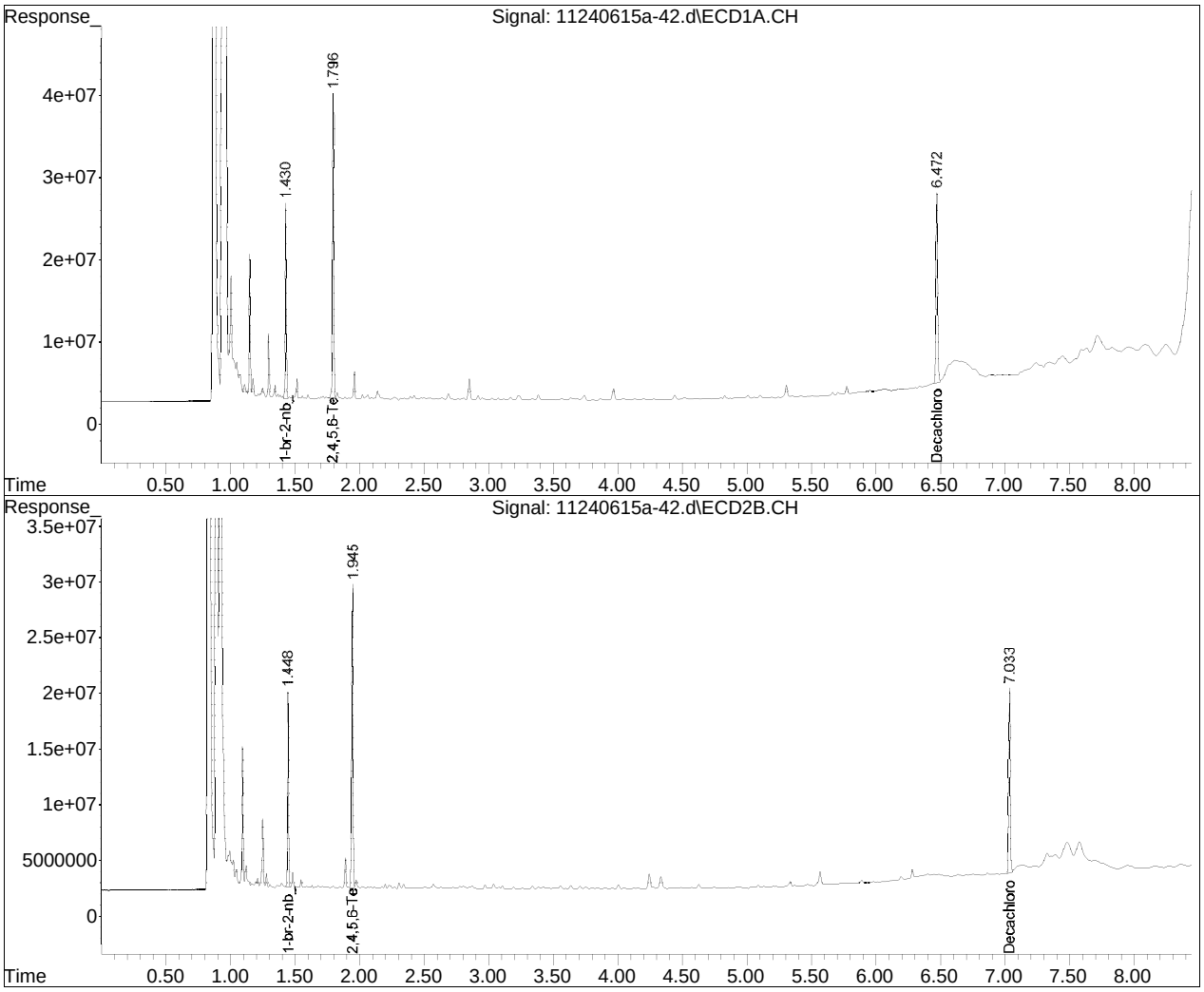
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240615a-37.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-42.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:31
Operator : PEST11:mmg
Sample : L2432633-02,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 16:41:02 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

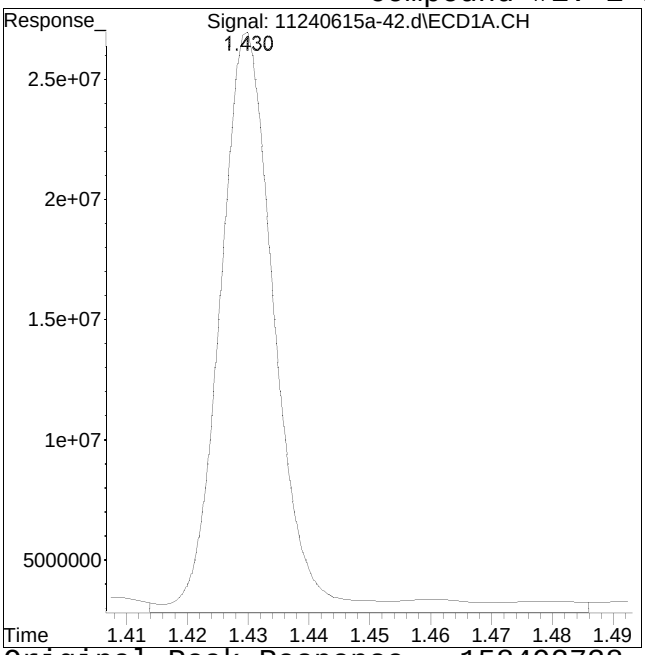
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

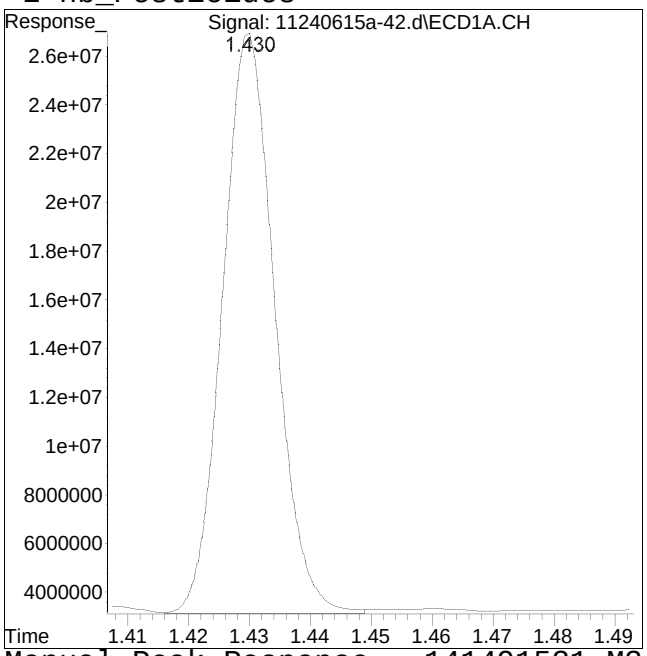


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #1: 1-br-2-nb_Pesticides



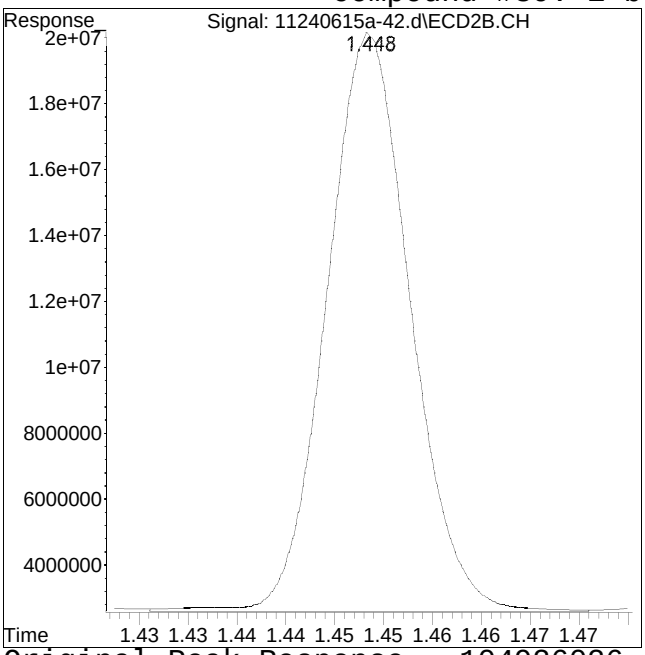


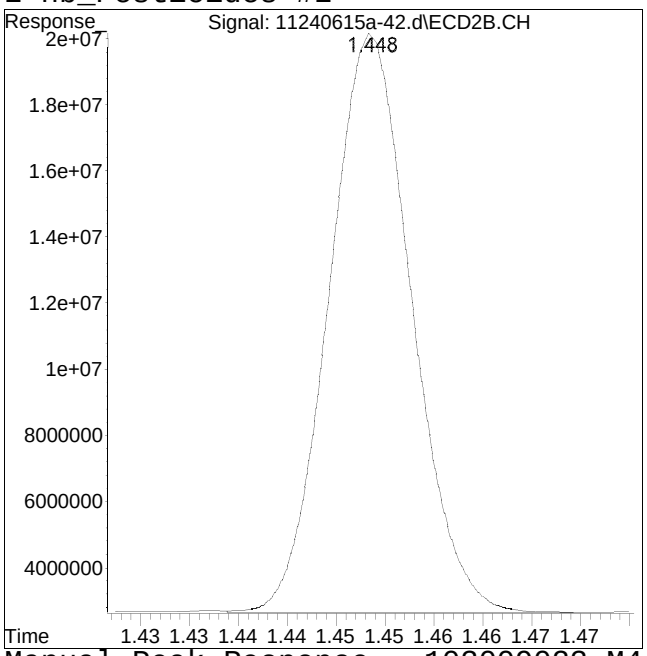
Original Peak Response = 158492738 Manual Peak Response = 141491531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #39: 1-br-2-nb_Pesticides #2



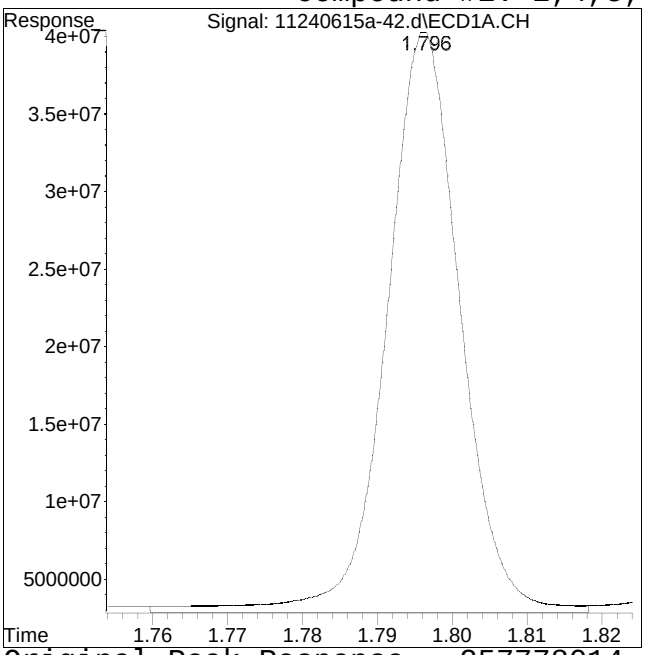


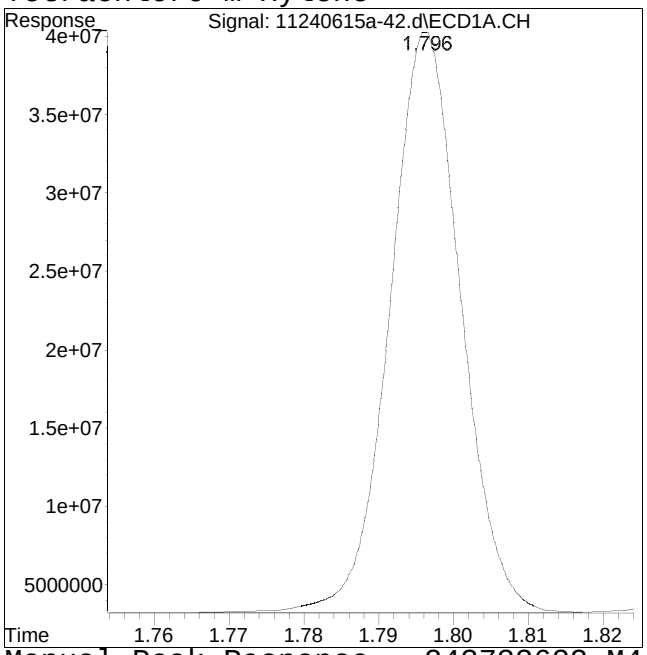
Original Peak Response = 104926026 Manual Peak Response = 103009023 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



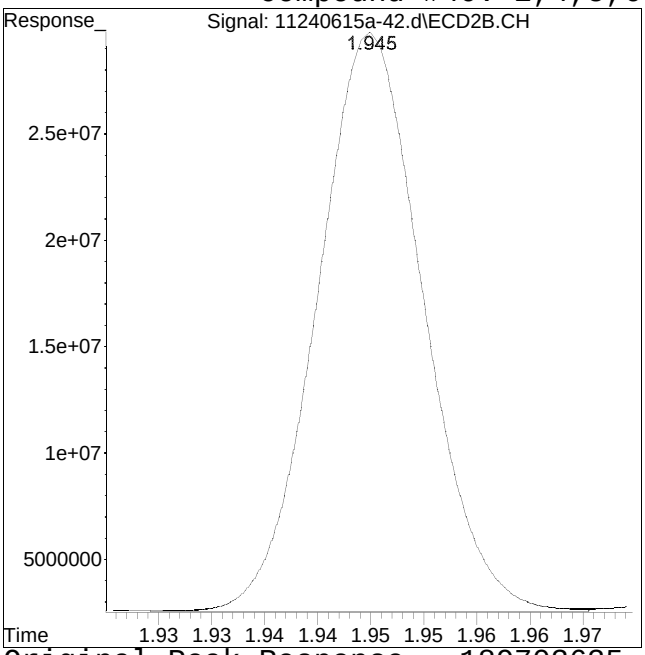


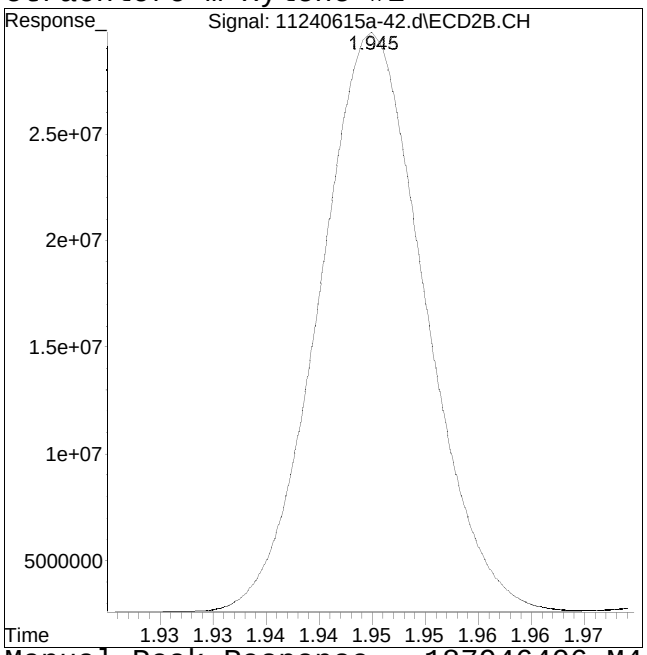
Original Peak Response = 257778014 Manual Peak Response = 243733622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



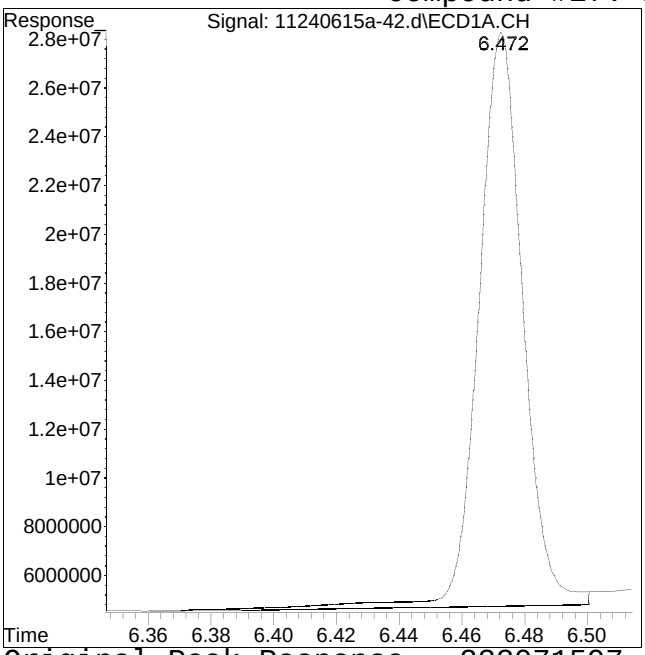


Original Peak Response = 189703635 Manual Peak Response = 187946406 M4
M4 = Poor automated baseline construction.

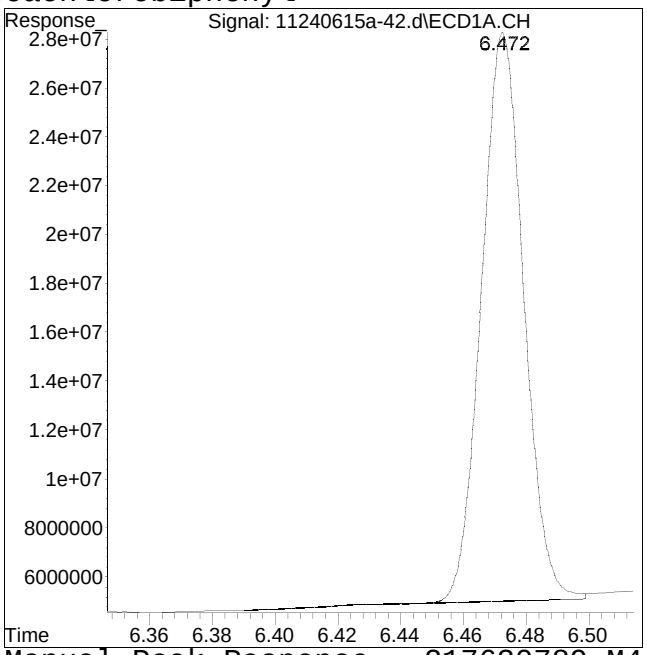
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 233071597



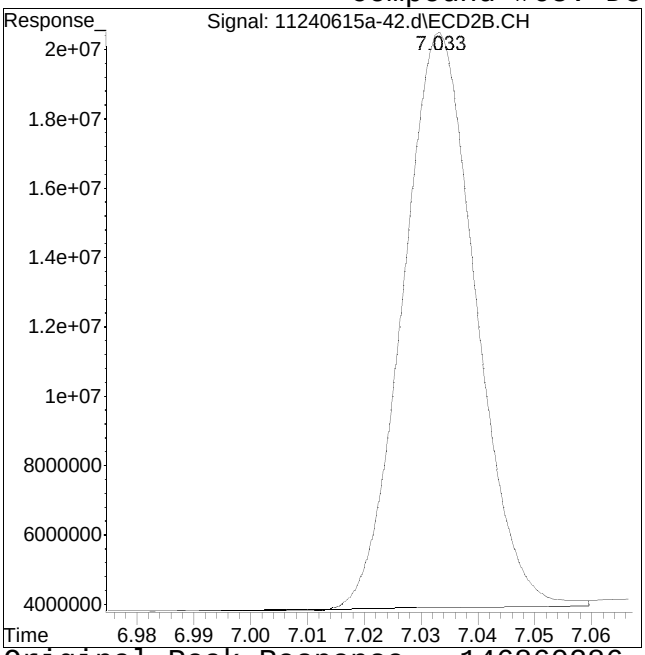
Manual Peak Response = 217630789 M4

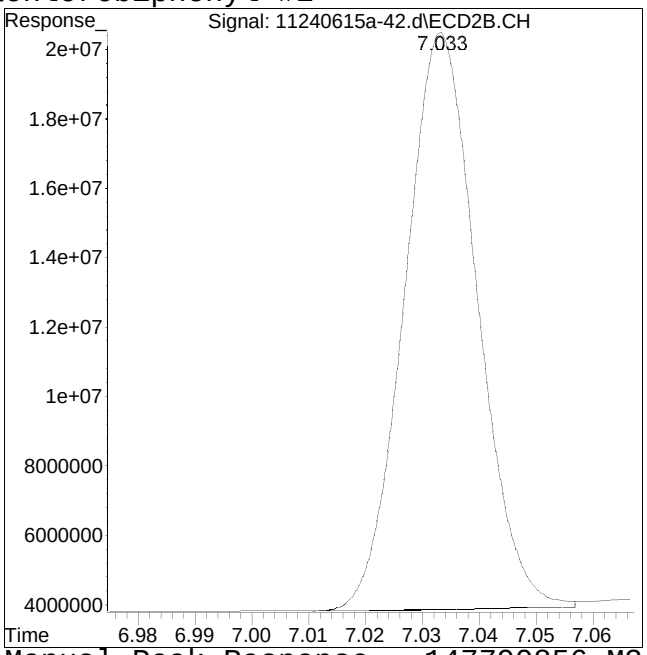
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #65: Decachlorobiphenyl #2



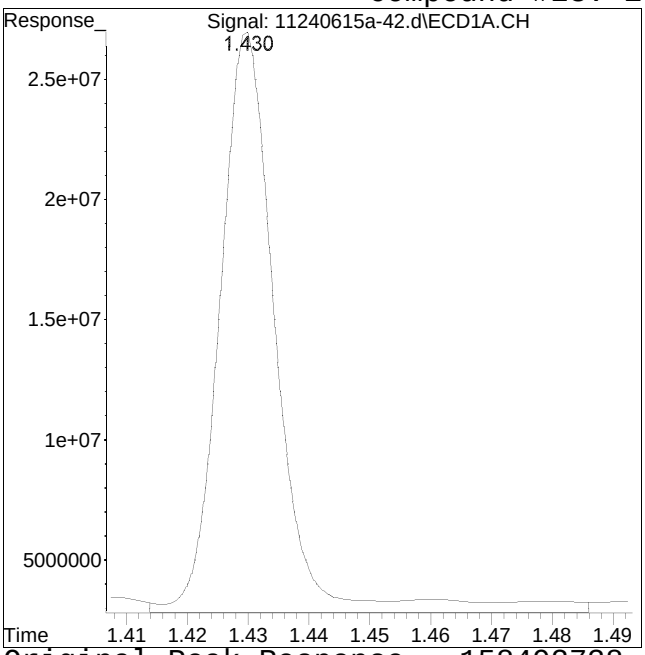


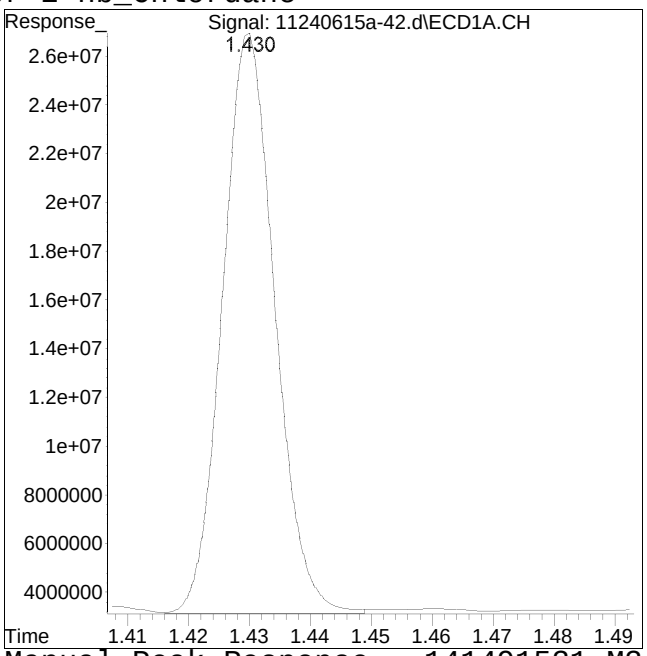
Original Peak Response = 146860286 Manual Peak Response = 147790856 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #28: 1-br-2-nb_Chlordane



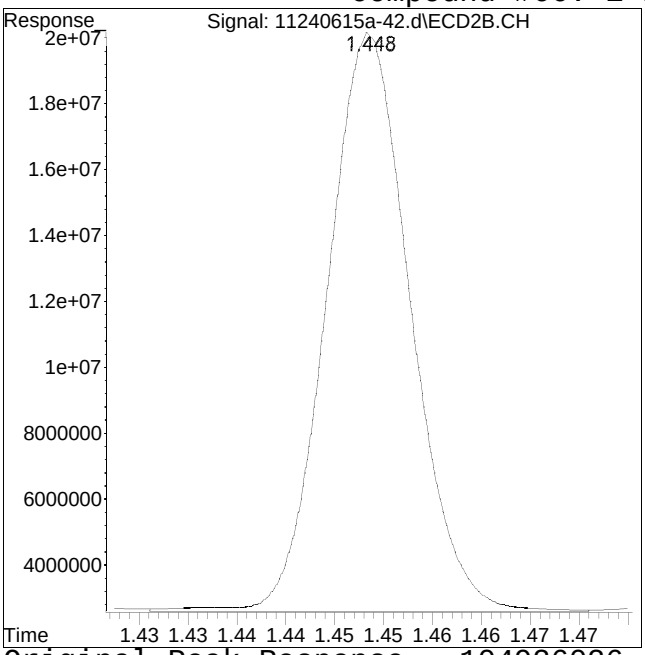


Original Peak Response = 158492738 Manual Peak Response = 141491531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

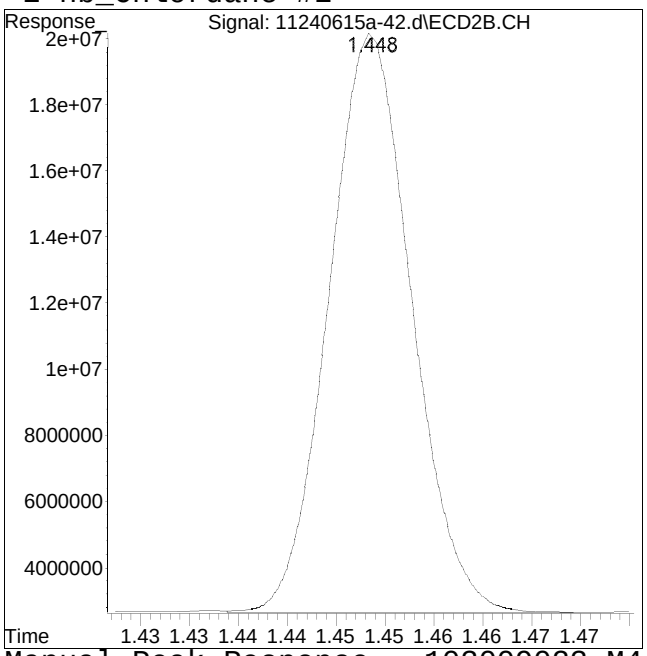
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 104926026



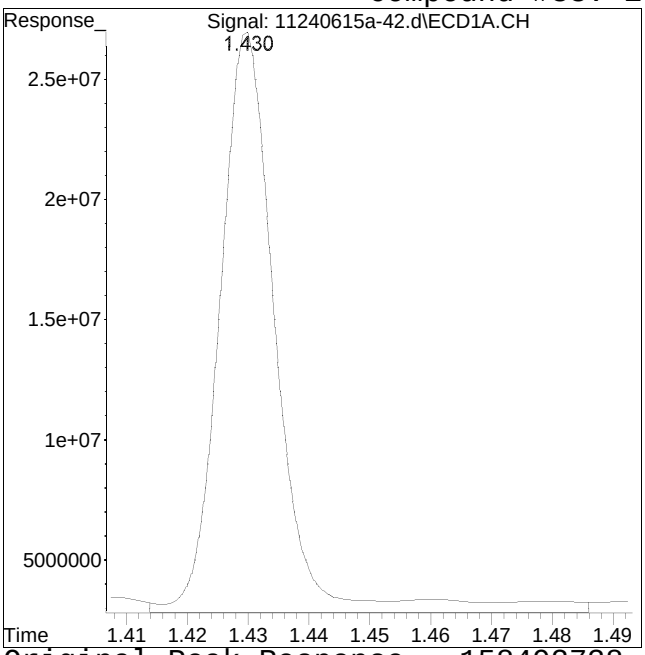
Manual Peak Response = 103009023 M4

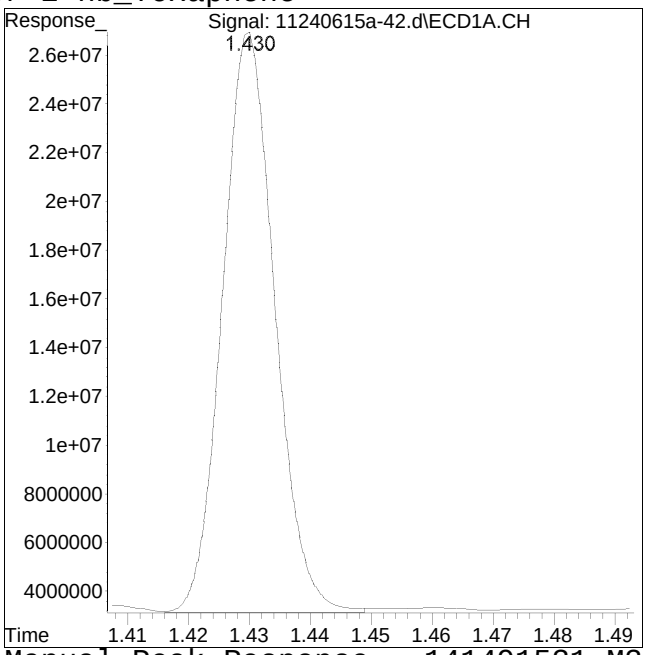
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #33: 1-br-2-nb_Toxaphene



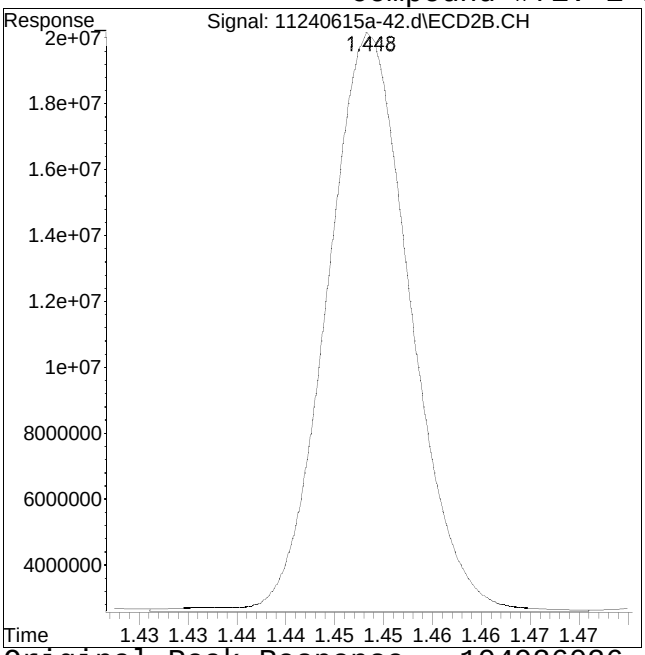


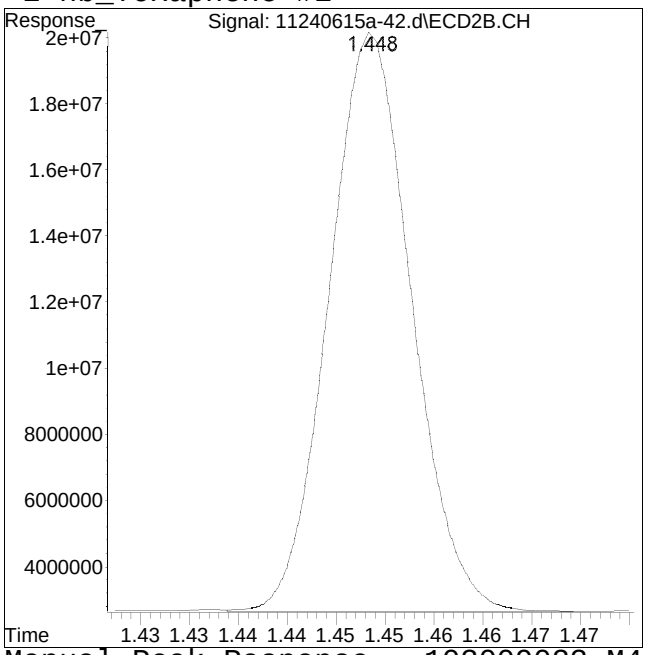
Original Peak Response = 158492738 Manual Peak Response = 141491531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-42.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:31 Instrument : Pest 11
Sample : L2432633-02,42,, Quant Date : 6/15/2024 4:41 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 104926026 Manual Peak Response = 103009023 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-43.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:43
Operator : PEST11:mmg
Sample : L2432633-03,42,,
Misc : wg1934790,WG1934673,ical21196 (Sig #1); wg1934790,WG1934401,ical21196 (Sig #2)
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 09:10:47 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.430	1.448	144.8E6	107.1E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 148091509				Recovery =	97.80%	
	Standard Area 1 : #2 = 107601541				Recovery =	99.50%	
28) i	1-br-2-nb_Ch	1.430	1.448	144.8E6	107.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	1.430	1.448	144.8E6	107.1E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.796	1.945	229.5E6	175.7E6	35.579M4	35.039M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	71.16%	70.08%
27) s	Decachlorobi	6.472	7.033	242.0E6	165.7E6	38.616M3	43.145M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	77.23%	86.29%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-43.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:43
Operator : PEST11:mmg
Sample : L2432633-03,42,,
Misc : wg1934790,WG1934673,ical21196 (Sig #1); wg1934790,WG1934401,ical21196 (Sig #2)
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 09:10:47 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

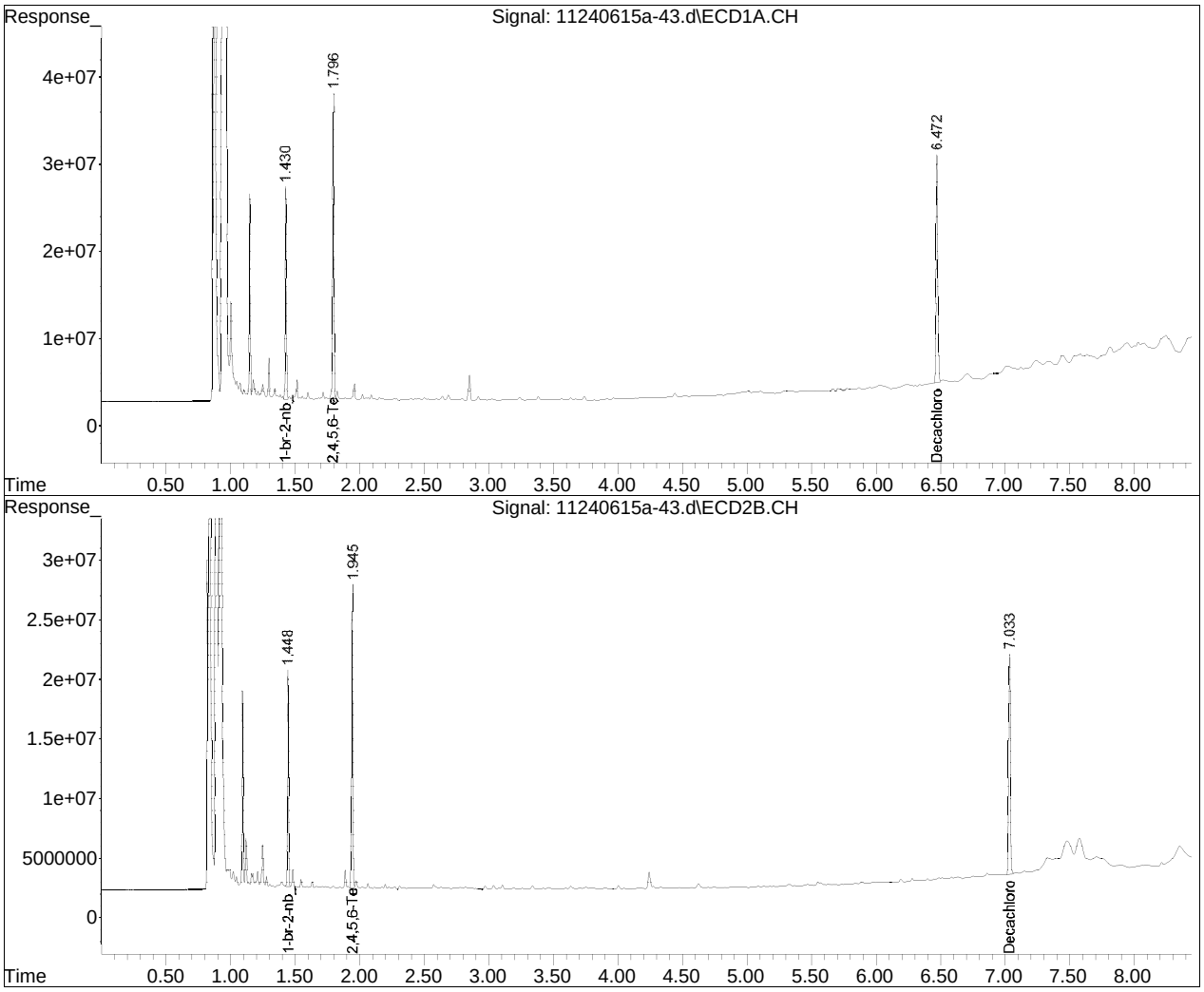
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240615a-37.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-43.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:43
Operator : PEST11:mmg
Sample : L2432633-03,42,,
Misc : wg1934790,WG1934673,ical21196 (Sig #1); wg1934790,WG1934401,ical21
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 09:10:47 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

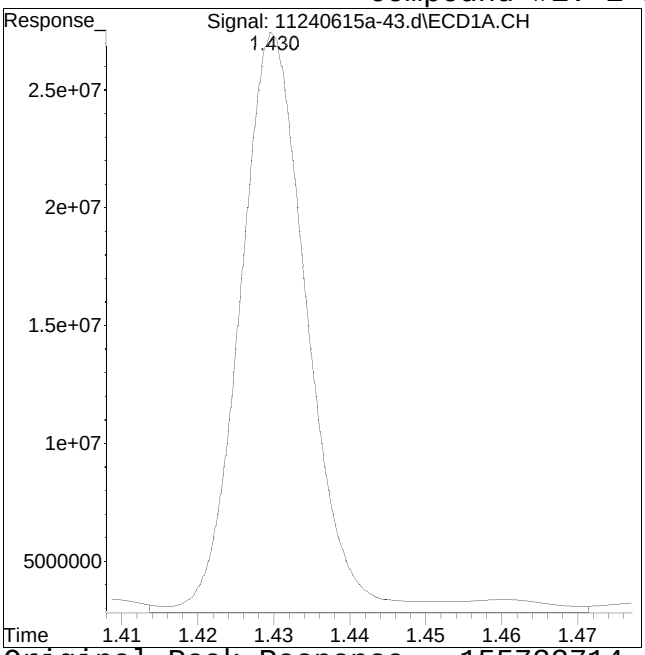
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

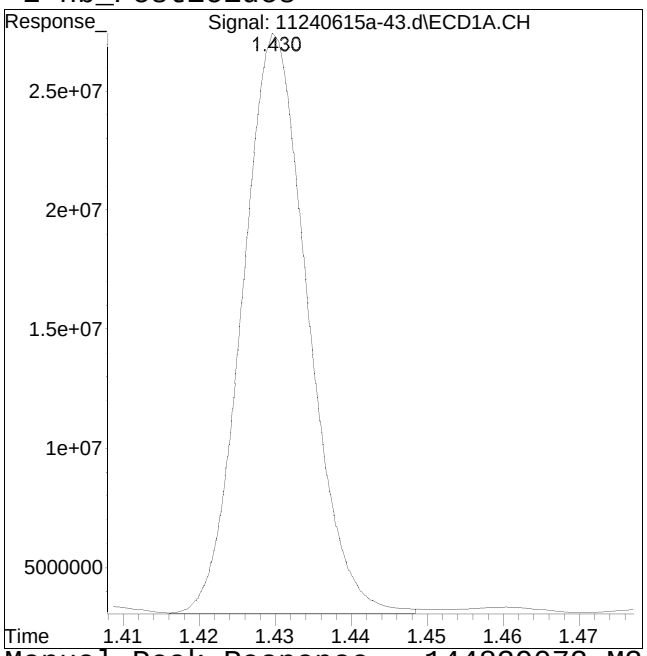


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #1: 1-br-2-nb_Pesticides



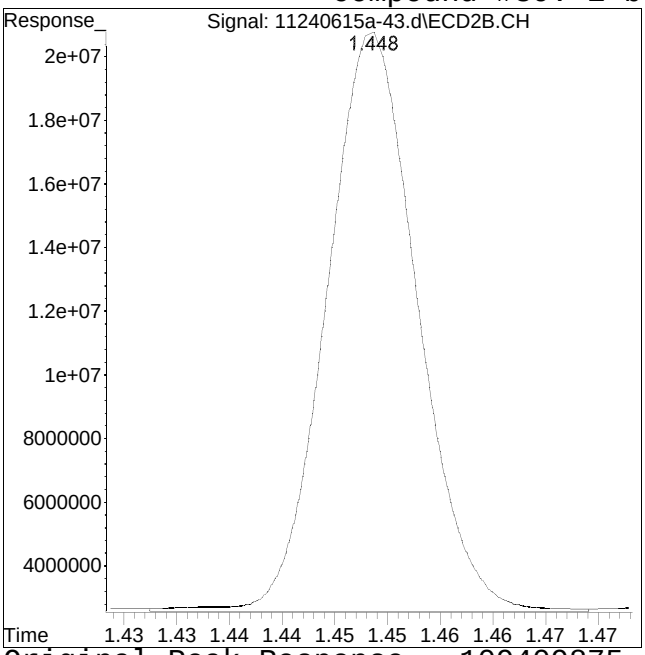


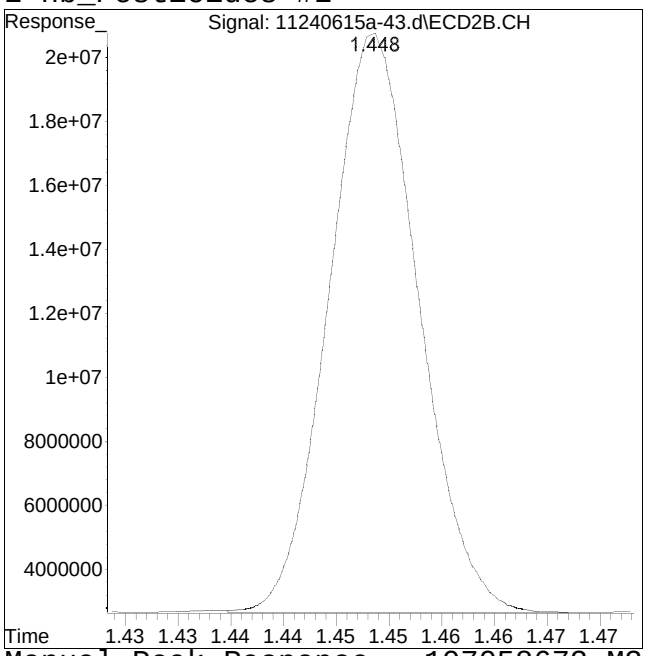
Original Peak Response = 155732714 Manual Peak Response = 144839072 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2



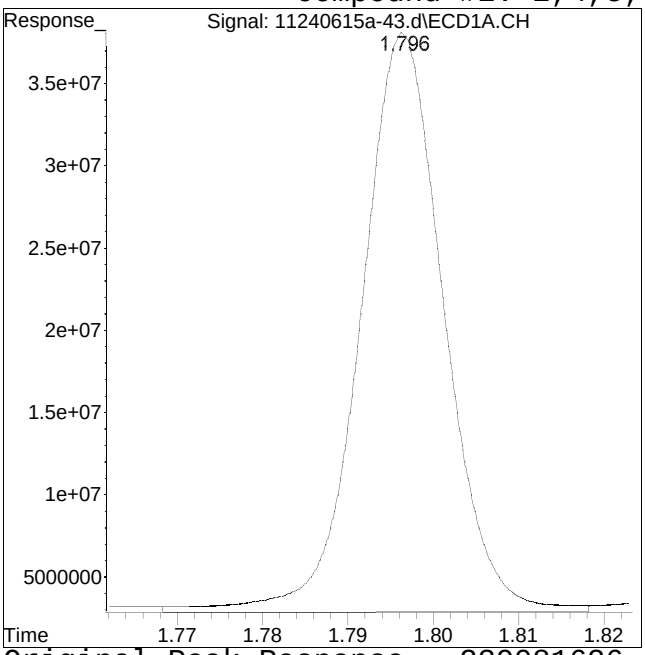


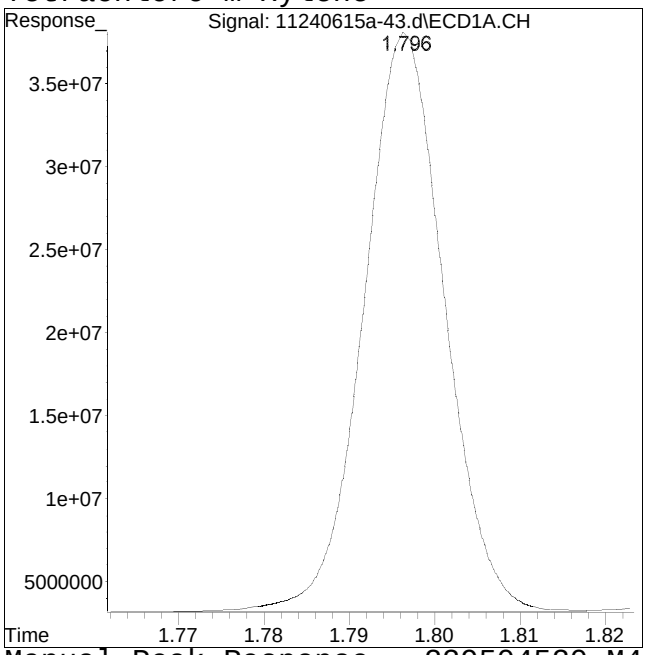
Original Peak Response = 109409875 Manual Peak Response = 107058672 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



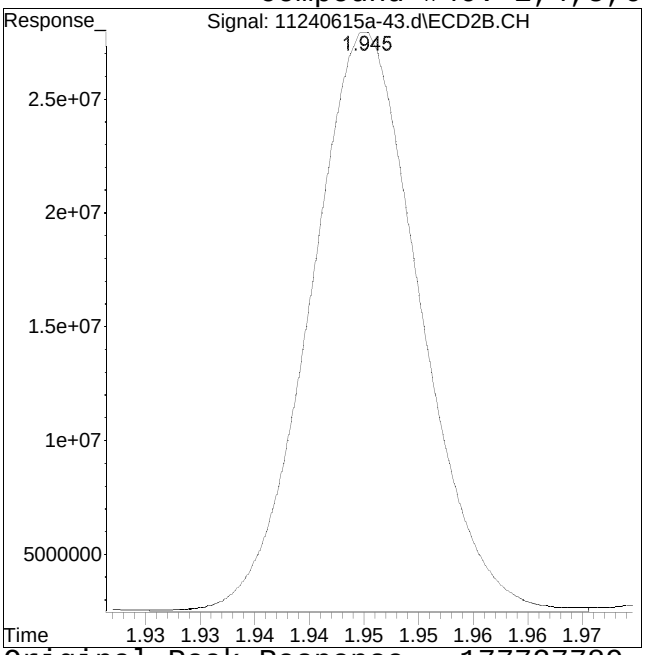


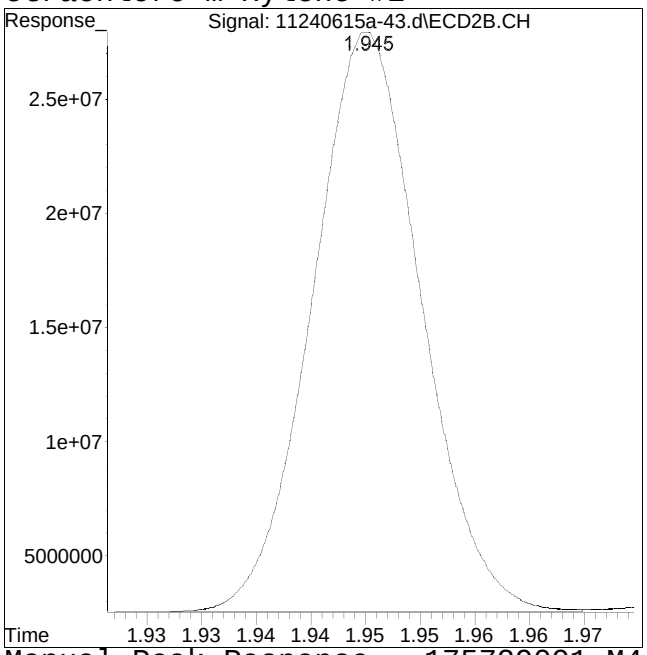
Original Peak Response = 239081626 Manual Peak Response = 229504520 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



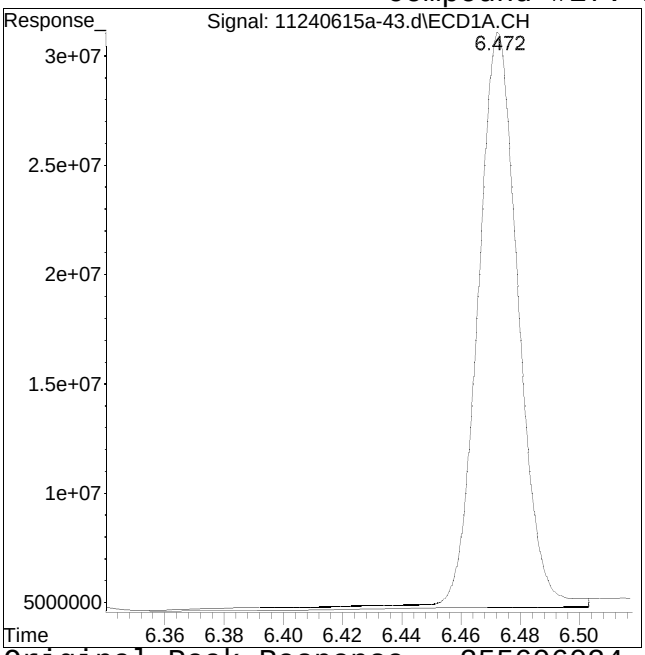


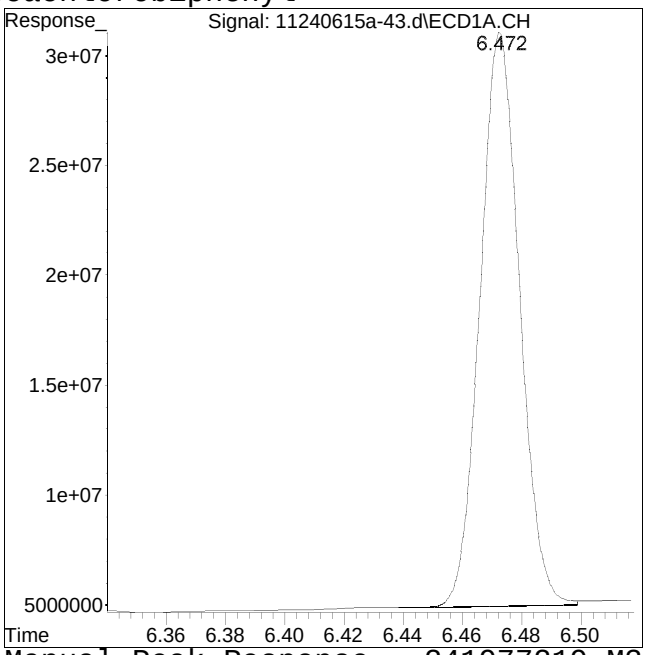
Original Peak Response = 177727789 Manual Peak Response = 175729091 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #27: Decachlorobiphenyl



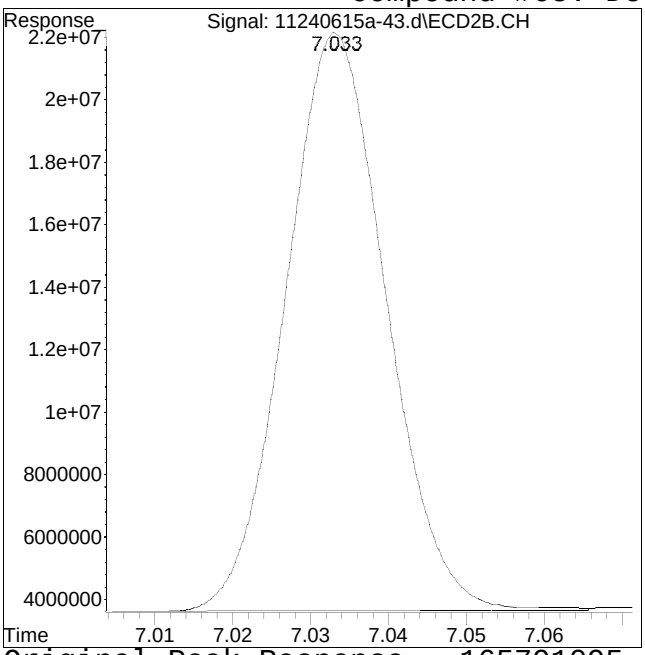


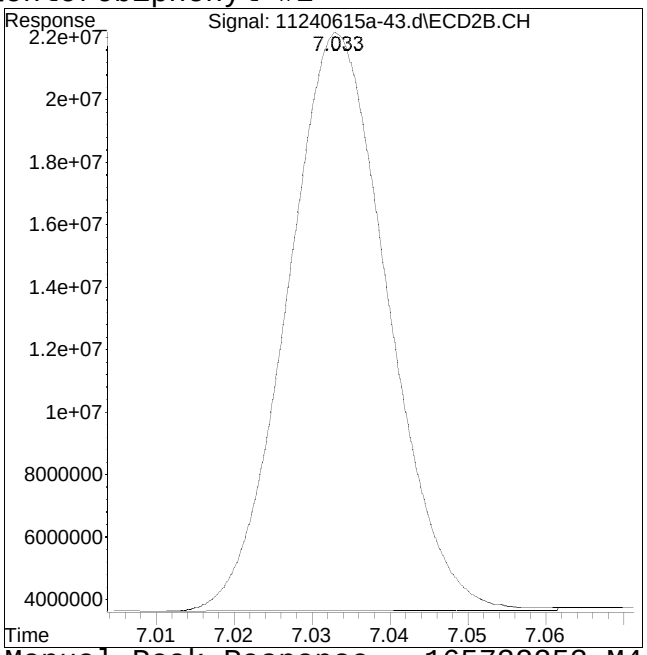
Original Peak Response = 255606024 Manual Peak Response = 241977219 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #65: Decachlorobiphenyl #2



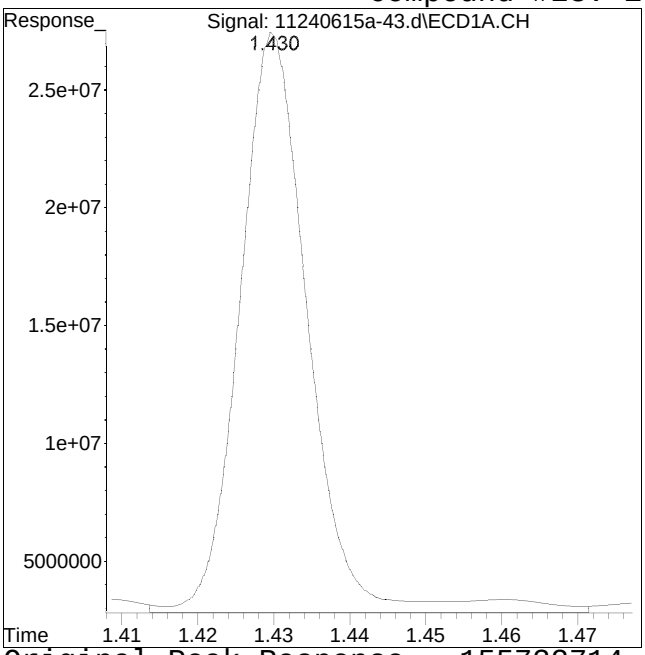


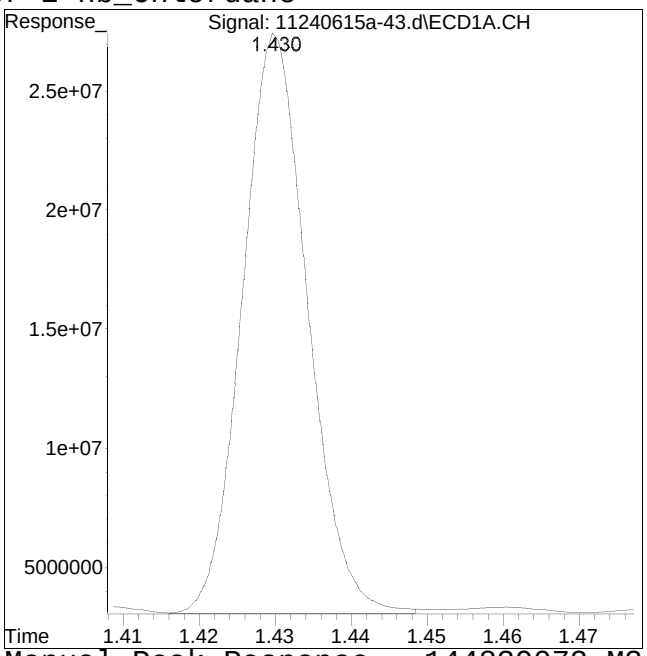
Original Peak Response = 165791095 Manual Peak Response = 165732253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #28: 1-br-2-nb_Chlordane



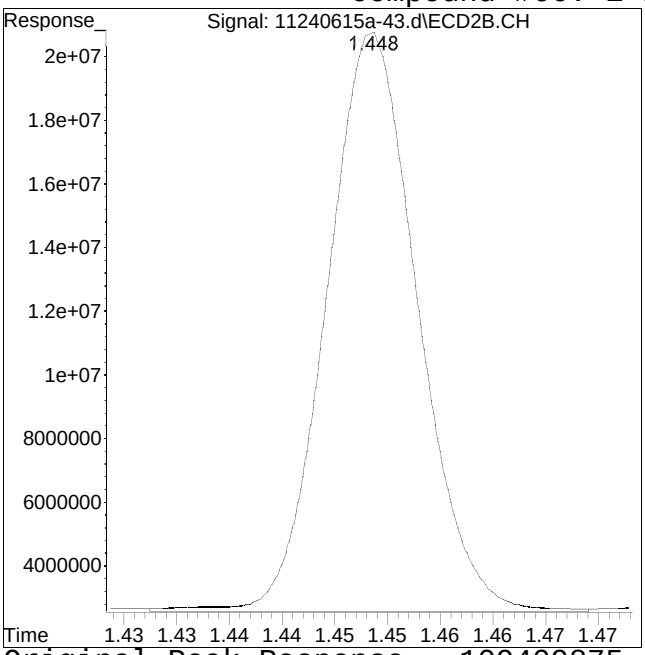


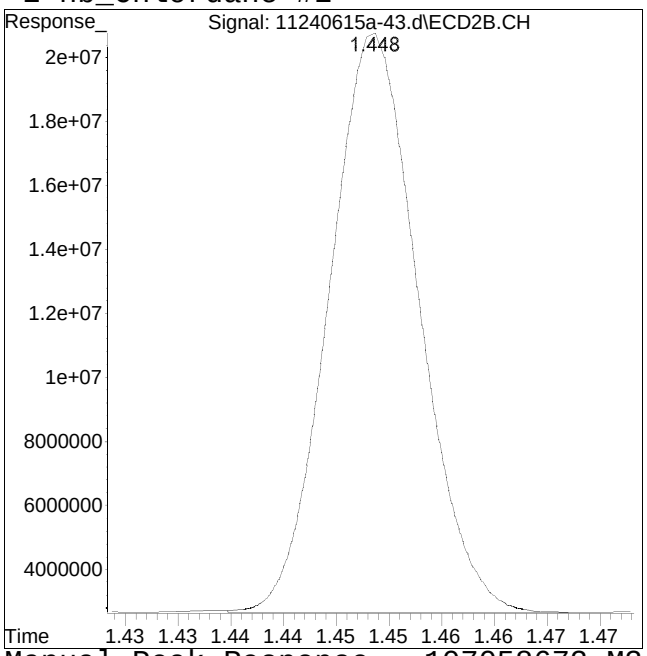
Original Peak Response = 155732714 Manual Peak Response = 144839072 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #66: 1-br-2-nb_Chlordane #2



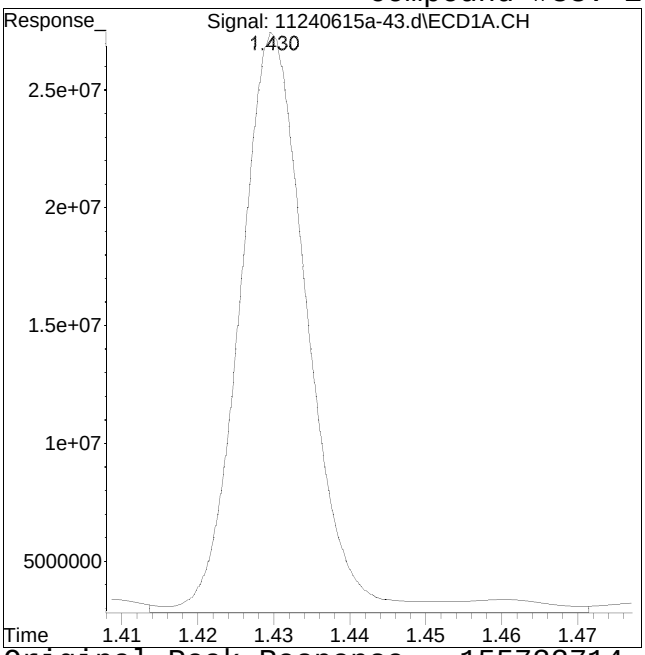


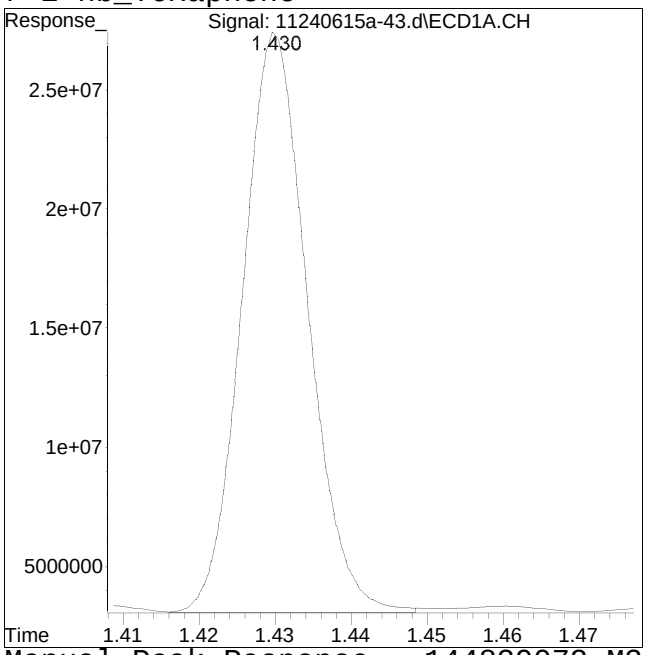
Original Peak Response = 109409875 Manual Peak Response = 107058672 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #33: 1-br-2-nb_Toxaphene



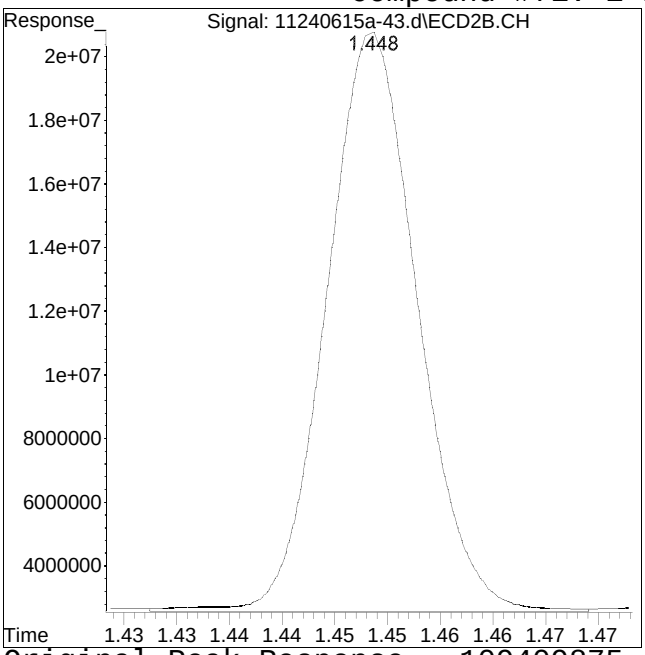


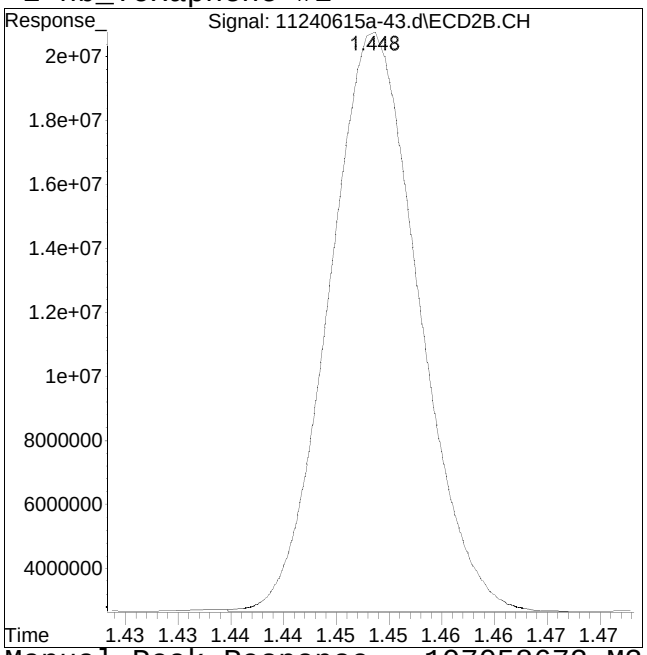
Original Peak Response = 155732714 Manual Peak Response = 144839072 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-43.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:43 Instrument : Pest 11
Sample : L2432633-03,42,, Quant Date : 6/16/2024 9:10 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 109409875 Manual Peak Response = 107058672 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-44.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:55
Operator : PEST11:mmg
Sample : L2432633-04,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 09:10:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.429	1.448	141.9E6	105.4E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 148091509				Recovery =	95.79%	
	Standard Area 1 : #2 = 107601541				Recovery =	97.95%	
28) i	1-br-2-nb_Ch	1.429	1.448	141.9E6	105.4E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	1.429	1.448	141.9E6	105.4E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.796	1.944	214.9E6	165.0E6	34.024M4	33.424M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	68.05%	66.85%
27) s	Decachlorobi	6.472	7.033	212.9E6	144.9E6	34.695M3	38.116M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	69.39%	76.23%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-44.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:55
Operator : PEST11:mmg
Sample : L2432633-04,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 09:10:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-37.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

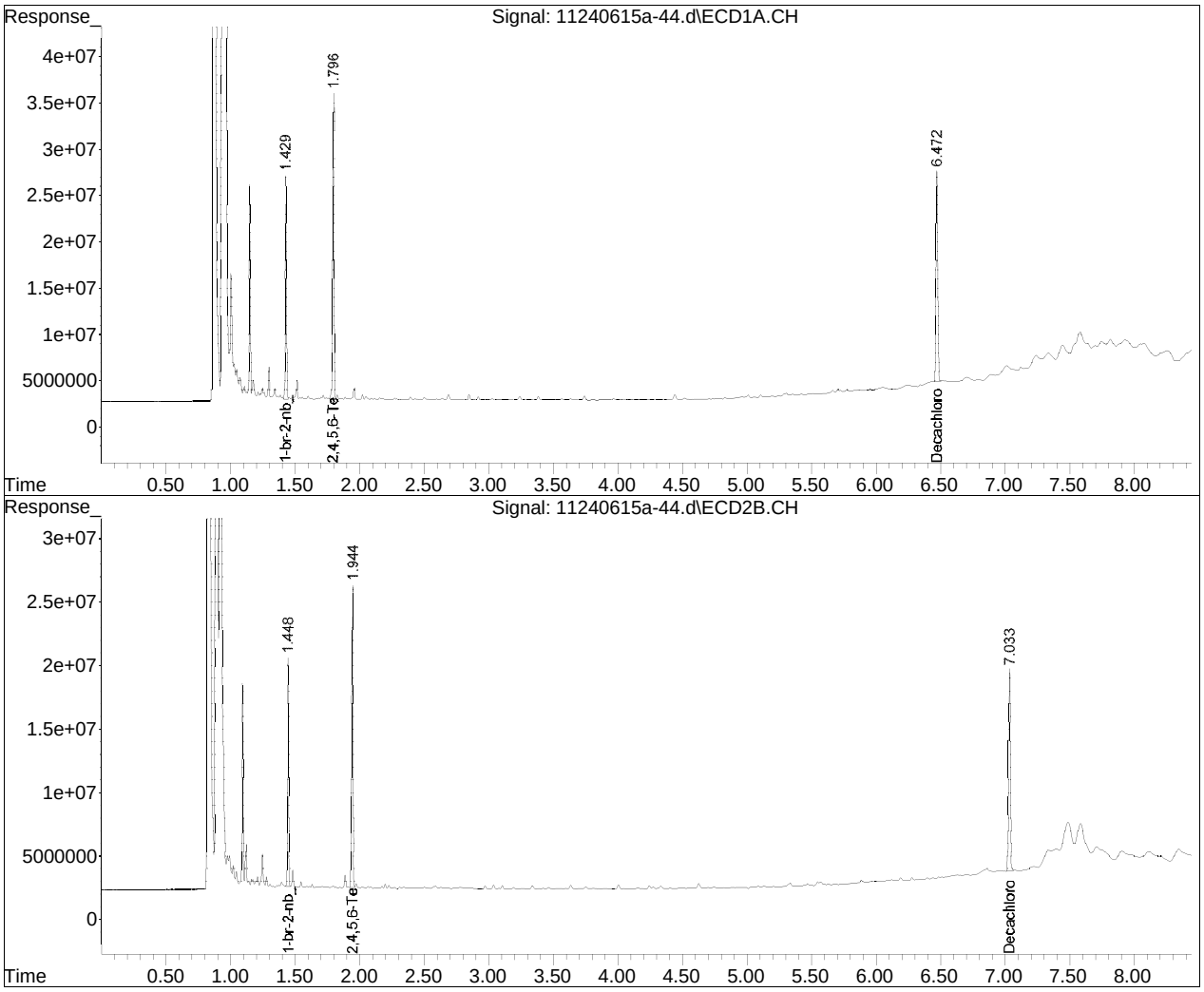
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240615a-37.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-44.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 16:55
Operator : PEST11:mmg
Sample : L2432633-04,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 09:10:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

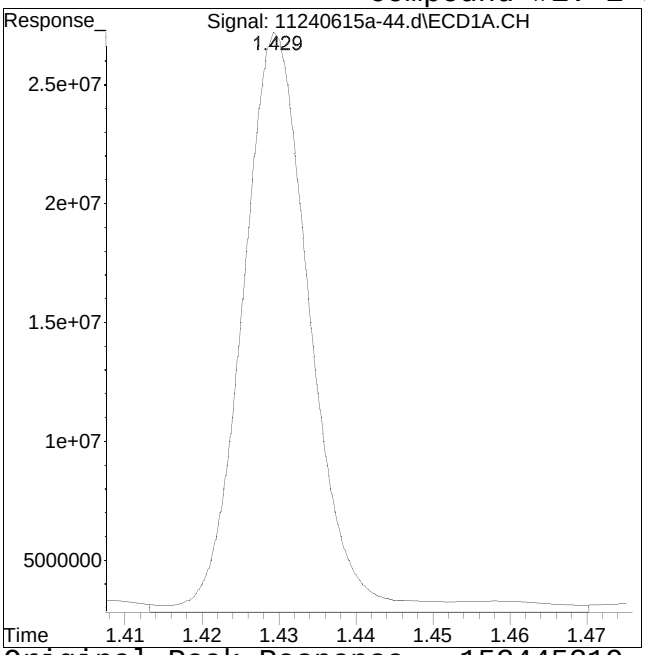
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

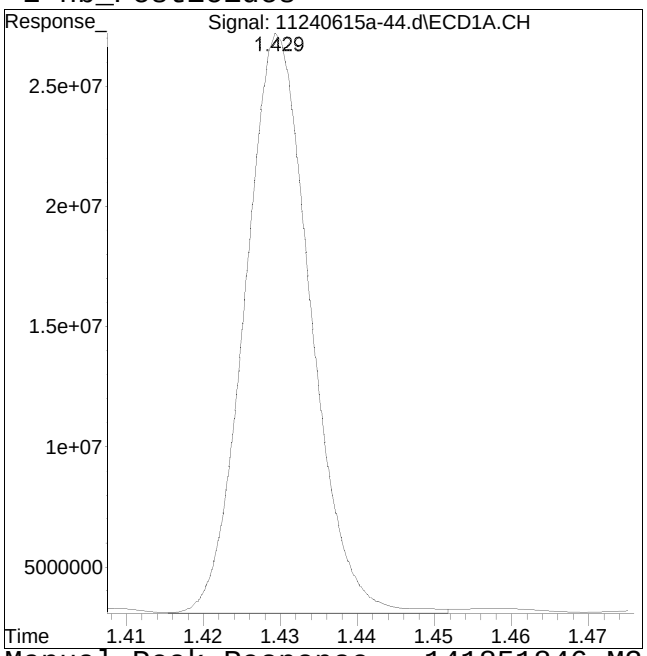


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #1: 1-br-2-nb_Pesticides



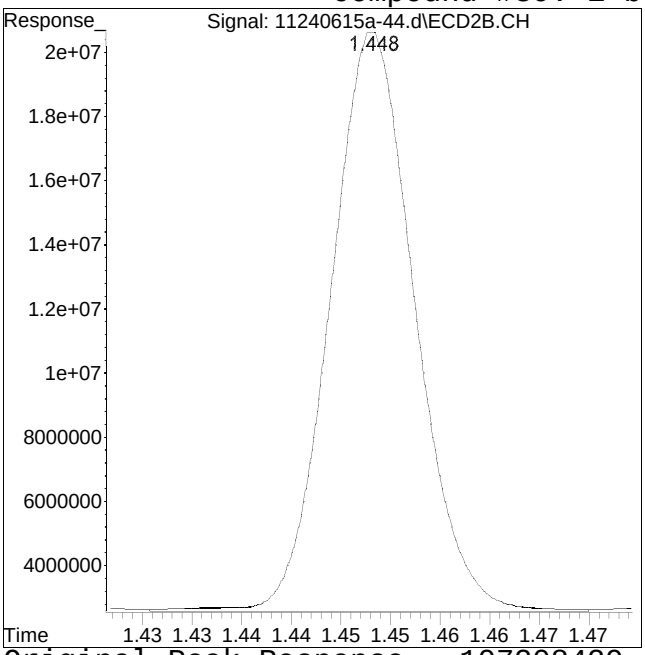


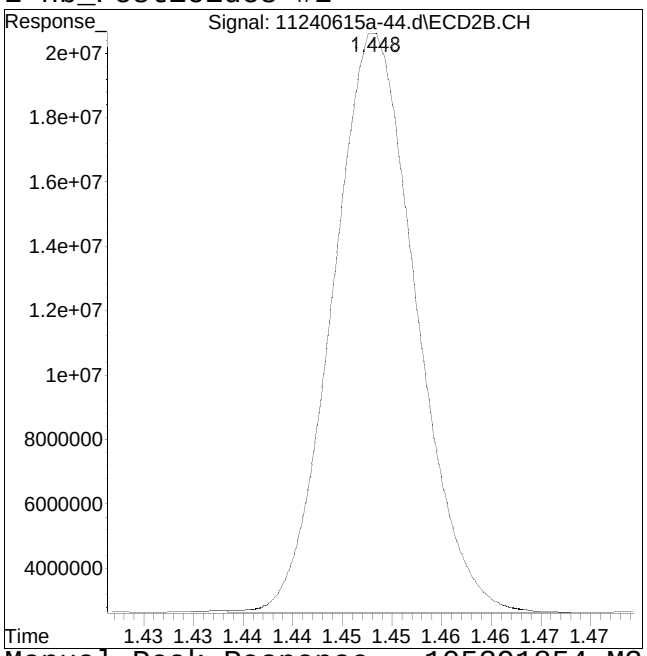
Original Peak Response = 152445319 Manual Peak Response = 141851846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2



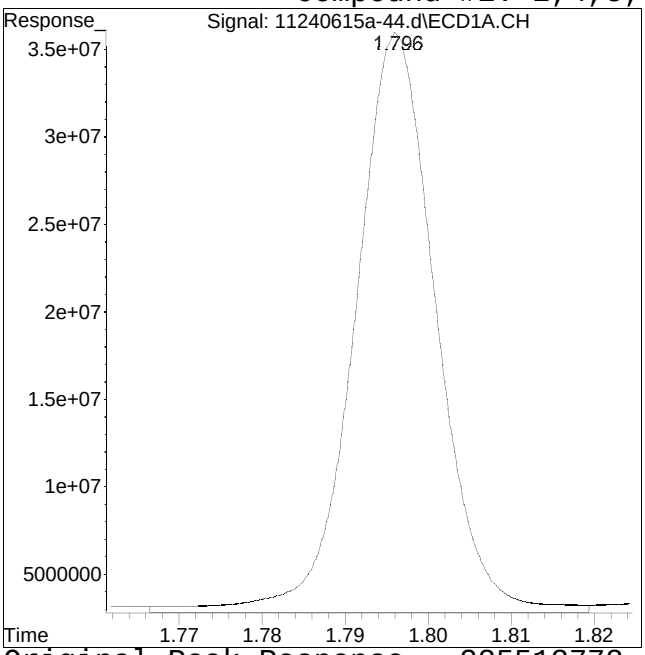


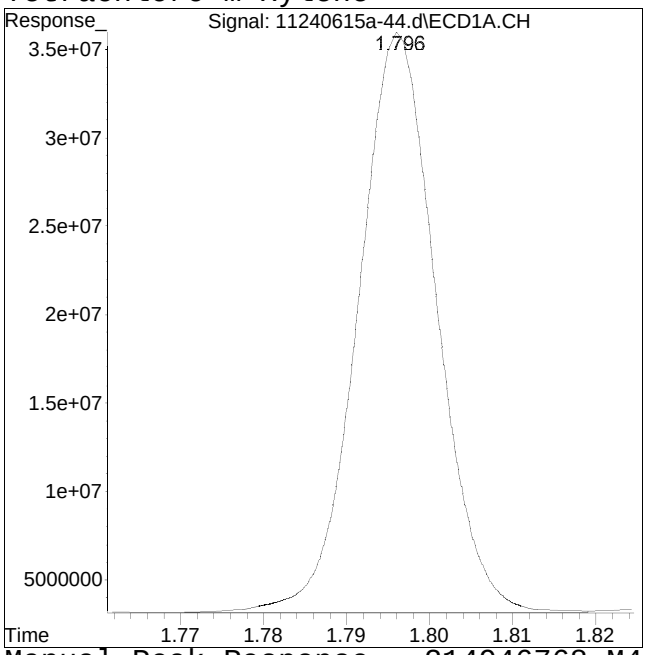
Original Peak Response = 107208429 Manual Peak Response = 105391854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



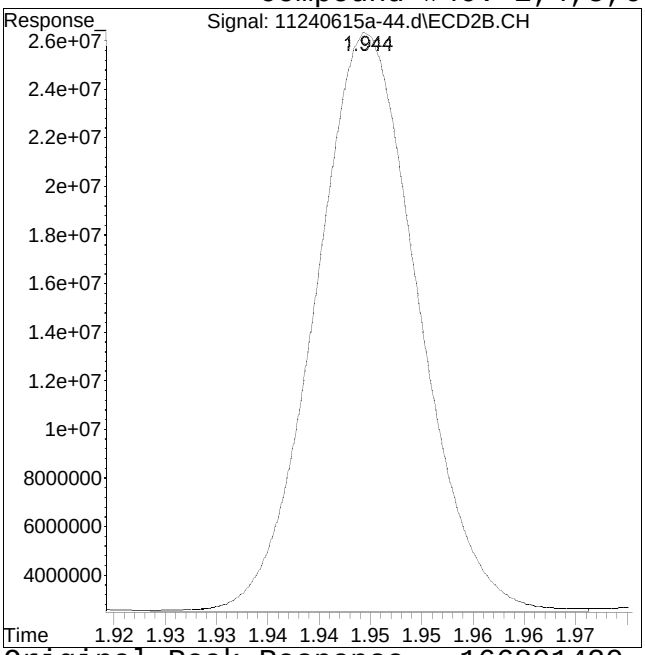


Original Peak Response = 225512772 Manual Peak Response = 214946768 M4
M4 = Poor automated baseline construction.

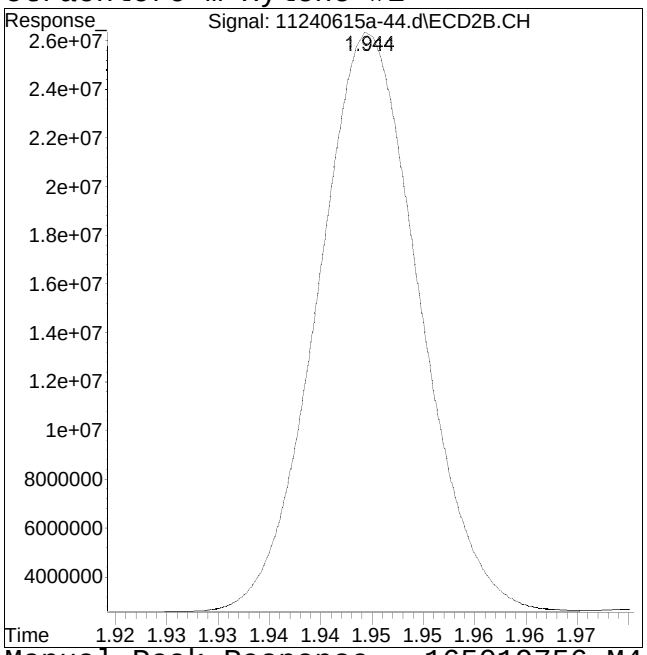
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 166891420



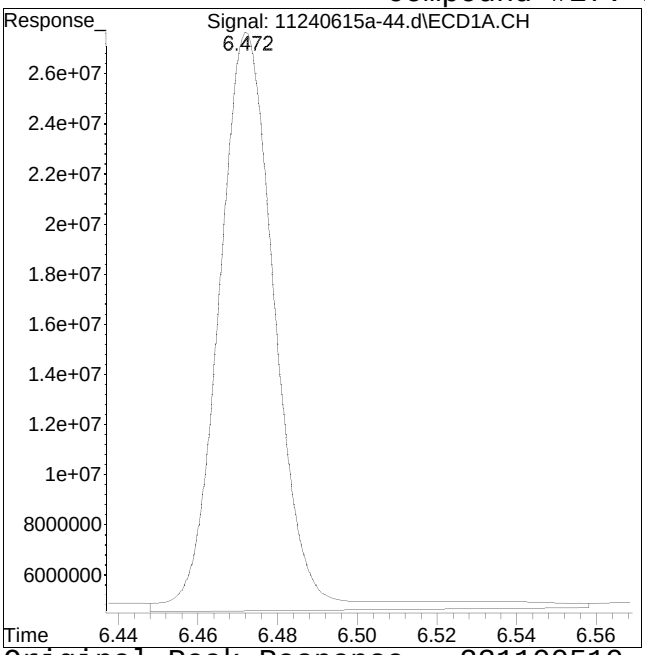
Manual Peak Response = 165019756 M4

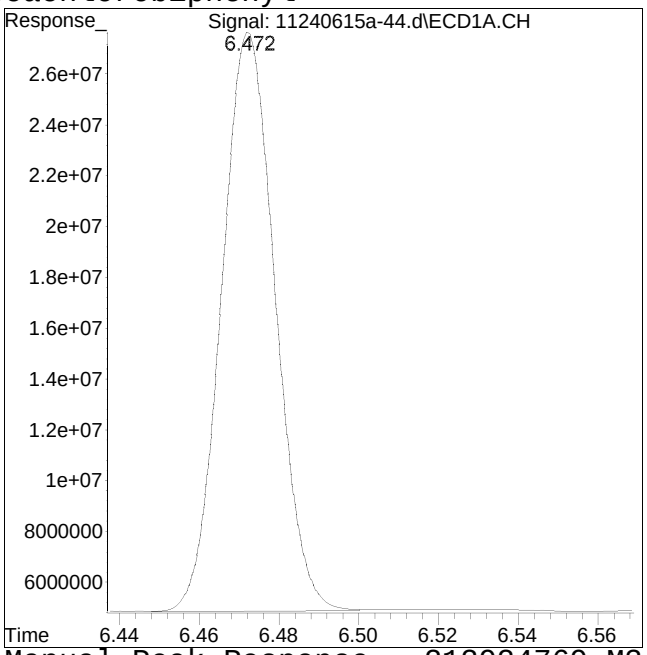
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #27: Decachlorobiphenyl



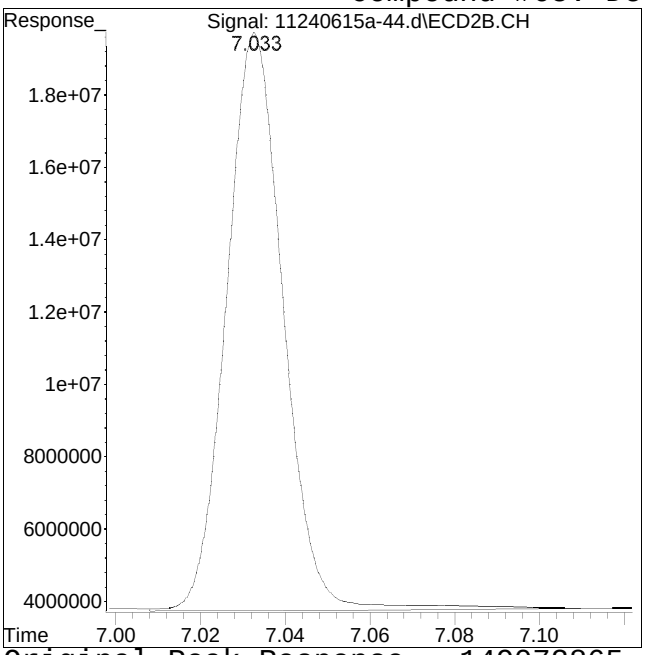


Original Peak Response = 231100510 Manual Peak Response = 212924769 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

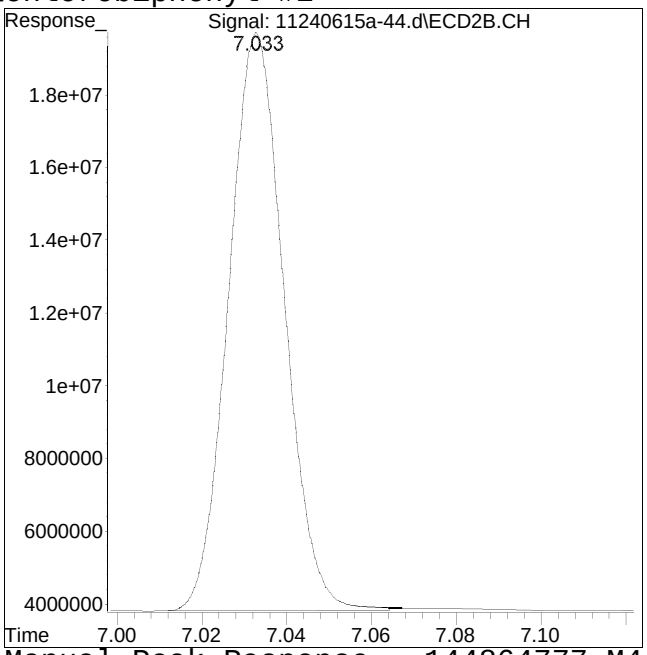
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 149072865



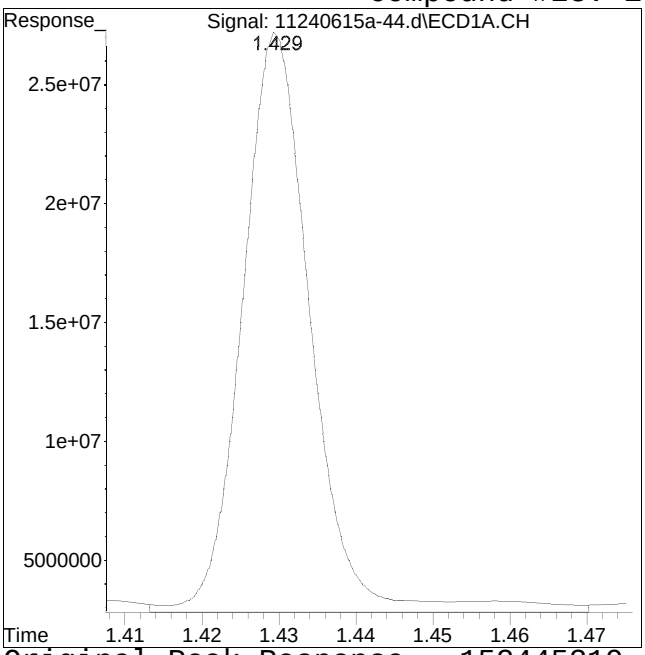
Manual Peak Response = 144864777 M4

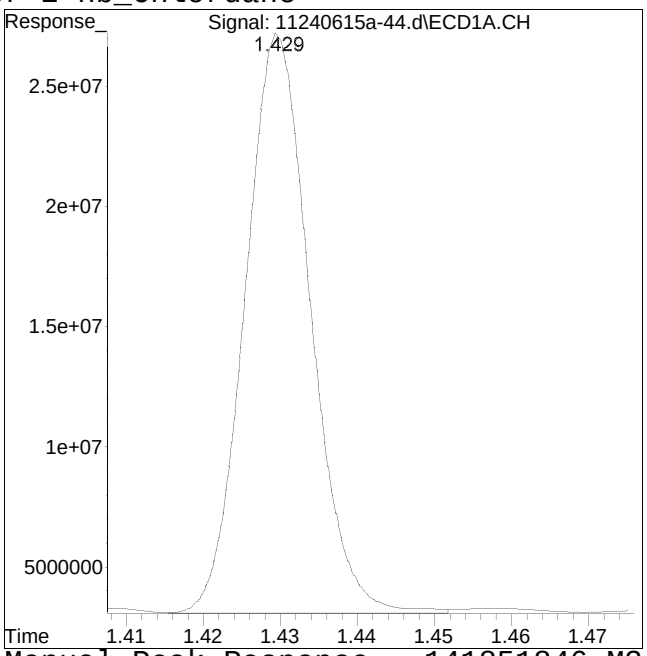
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #28: 1-br-2-nb_Chlordane



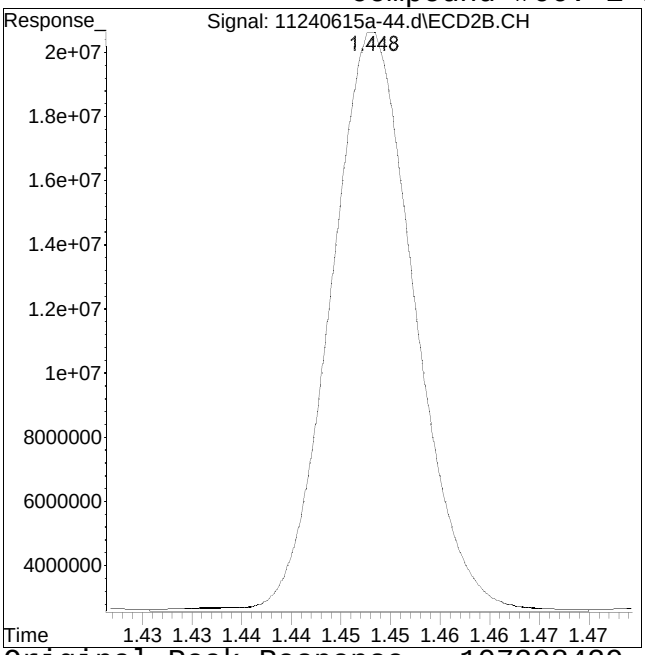


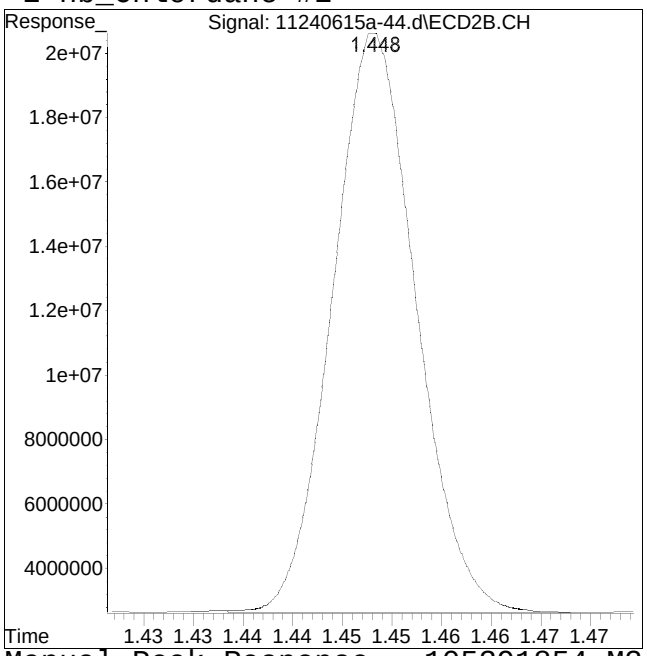
Original Peak Response = 152445319 Manual Peak Response = 141851846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #66: 1-br-2-nb_Chlordane #2



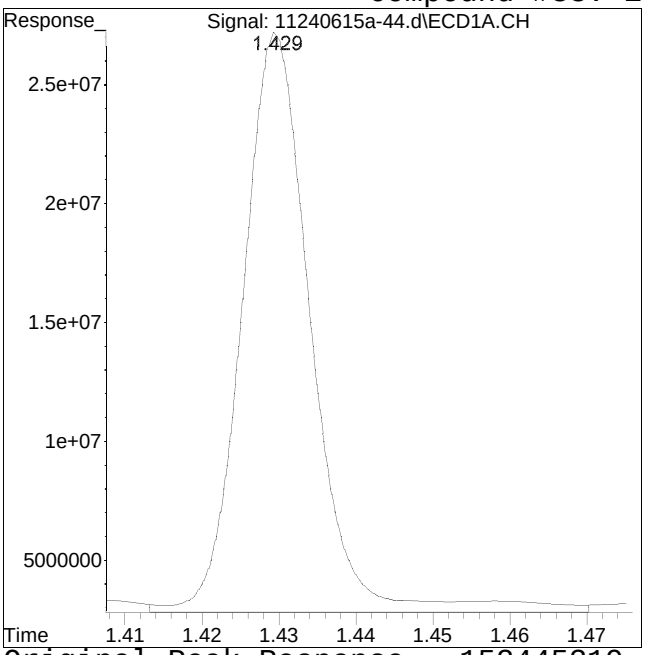


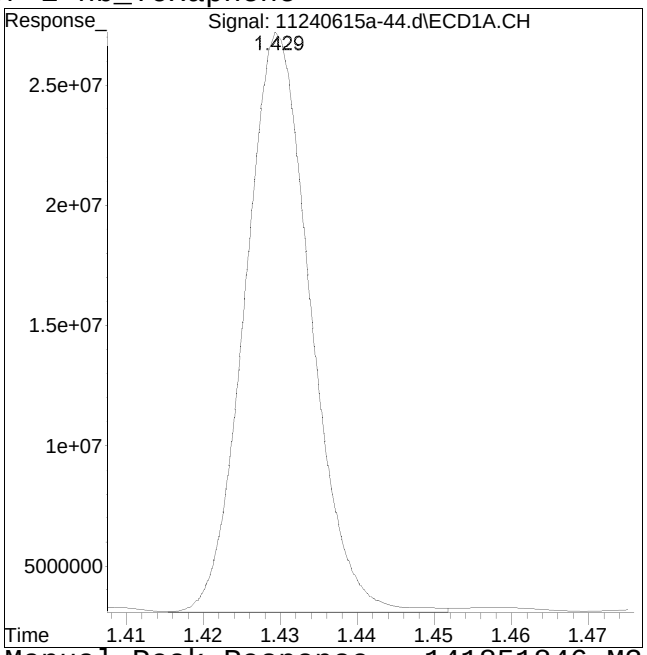
Original Peak Response = 107208429 Manual Peak Response = 105391854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #33: 1-br-2-nb_Toxaphene



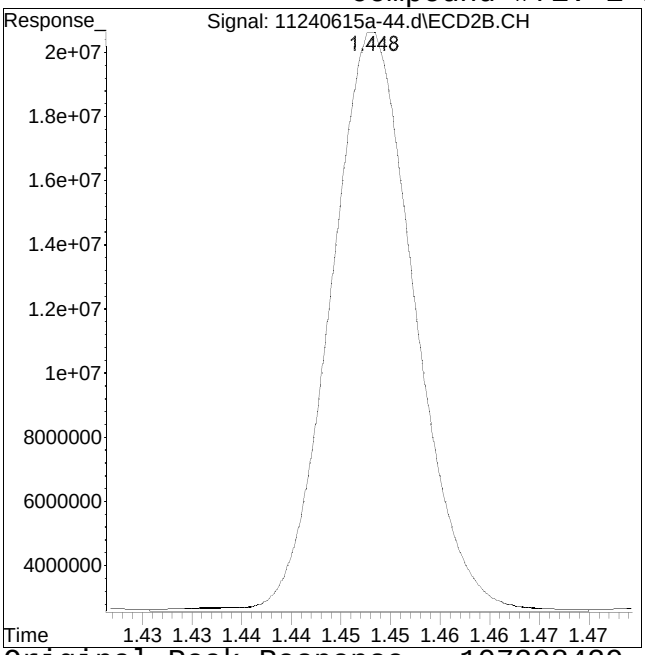


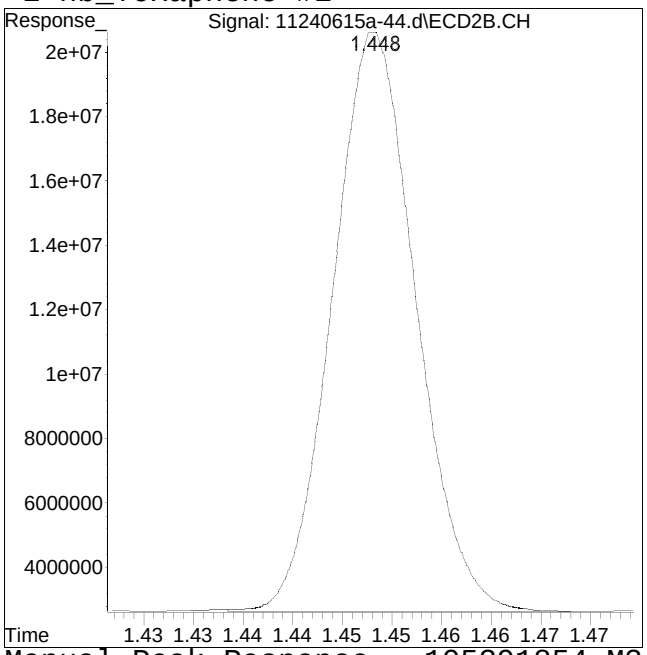
Original Peak Response = 152445319 Manual Peak Response = 141851846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-44.d Operator : PEST11:mmg
Date Inj'd : 6/15/2024 16:55 Instrument : Pest 11
Sample : L2432633-04,42,, Quant Date : 6/16/2024 9:10 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 107208429 Manual Peak Response = 105391854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21196**
Calibration dates	**: 06/13/24 14:08 06/13/24 18:44**		

Calibration Files

1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.224	1.147	1.151	1.175	1.093	1.022	1.079	1.099	1.031	1.113	5.97
3)	t	Hexachlorobenzene		1.485	1.387	1.370	1.387	1.262	1.133	1.164	1.177	1.109	1.275	10.68
4)	t	alpha-BHC		1.471	1.393	1.412	1.465	1.461	1.499	1.651	1.719	1.644	1.524	7.67
5)	t	gamma-BHC (li	1.525	1.480	1.373	1.393	1.432	1.392	1.384	1.512	1.569	1.493	1.455	4.76
6)	t	beta-BHC		0.826	0.766	0.759	0.763	0.685	0.600	0.626	0.636	0.603	0.696	12.12
7)	t	delta-BHC		1.393	1.321	1.324	1.371	1.358	1.392	1.526	1.591	1.518	1.422	6.88
8)	t	Heptachlor		1.688	1.549	1.546	1.572	1.478	1.479	1.501	1.516	1.390	1.524	5.34
9)	t	Aldrin		1.481	1.350	1.339	1.404	1.321	1.337	1.424	1.464	1.365	1.387	4.23
10)	t	Alachlor			0.254	0.262	0.267	0.237	0.263	0.182	0.169		0.234	17.55
11)	t	Chlorpyrifos		1.010	0.950	0.927	0.933	0.818	0.671	0.644	0.613		0.821	19.18
12)	t	Heptachlor Epoxide		1.523	1.426	1.408	1.438	1.334	1.217	1.310	1.316	1.206	1.353	7.76
13)	t	gamma-Chlordane (trans)		1.368	1.296	1.262	1.294	1.200	1.135	1.217	1.255	1.188	1.246	5.57
14)	t	alpha-Chlordane (cis)		1.574	1.473	1.437	1.476	1.372	1.261	1.371	1.401	1.325	1.410	6.55
15)	t	4,4'-DDE		1.292	1.242	1.259	1.267	1.225	1.227	1.364	1.412	1.328	1.291	5.03
16)	t	Endosulfan I		1.459	1.359	1.337	1.361	1.262	1.146	1.251	1.260	1.162	1.289	7.79
17)	t	Dieldrin		1.362	1.293	1.277	1.307	1.236	1.233	1.310	1.338	1.246	1.289	3.53
18)	t	Endrin		1.376	1.304	1.294	1.330	1.273	1.239	1.335	1.350	1.243	1.305	3.64
19)	t	4,4'-DDD		1.053	1.013	1.004	1.037	0.997	0.996	1.086	1.121	1.059	1.040	4.16
20)	t	Endosulfan II		1.395	1.287	1.265	1.281	1.202	1.105	1.173	1.174	1.048	1.214	8.62
21)	t	4,4'-DDT		1.281	1.227	1.200	1.225	1.178	1.150	1.248	1.278	1.205	1.221	3.58
22)	t	Endrin Aldehyde		1.137	1.056	1.036	1.060	0.965	0.867	0.967	0.966	0.899	0.995	8.56
23)	t	Methoxychlor			0.824	0.795	0.810	0.733	0.617	0.643	0.621	0.560	0.700	14.61
24)	t	Mirex			1.374	1.322	1.334	1.166	0.947	0.991	0.977		*L	0.999
2)														
25)	t	Endosulfan Su		1.396	1.315	1.269	1.294	1.179	1.038	1.123	1.125	1.034	1.197	10.67
26)	t	Endrin Ketone		1.434	1.347	1.326	1.352	1.260	1.130	1.219	1.205	1.104	1.264	8.69
27)	s	Decachlorobip			1.294	1.257	1.246	1.101	0.914	0.977	0.959	0.906	1.082	15.15
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.046	0.048	0.039	0.037	0.037	0.036			*L	0.999
8)														
30)	l1	chlordane-3			0.065	0.064	0.053	0.047	0.046	0.044			*L	0.998
4)														
31)	l1	chlordane-4			0.198	0.187	0.164	0.166	0.168	0.165			*L	0.999
9)														
32)	l1	chlordane-5			0.291	0.279	0.255	0.258	0.261	0.256			*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21196**
Calibration dates	**: 06/13/24 14:08 06/13/24 18:44**		

Calibration Files

1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d

7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
9)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.055	0.059		0.060	0.058	0.057			0.058	3.14
35)	l2	toxaphene-3			0.034	0.045		0.048	0.048	0.048			0.044	13.54
36)	l2	toxaphene-4			0.040	0.047		0.048	0.047	0.047			0.046	6.98
37)	l2	toxaphene-5			0.035	0.045		0.045	0.044	0.044			0.042	9.71

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21196**
Calibration dates	**: 06/13/24 14:08 06/13/24 18:44**		

Signal #2 Calibration Files

1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.293	1.240	1.227	1.241	1.146	1.097	1.107	1.124	1.064	1.171	6.85
3)	t	Hexachloroben		1.582	1.480	1.442	1.452	1.303	1.182	1.179	1.196	1.144	1.329	12.23
4)	t	alpha-BHC		1.526	1.493	1.485	1.536	1.500	1.602	1.670	1.748	1.703	1.585	6.30
5)	t	gamma-BHC (li	1.562	1.534	1.481	1.466	1.502	1.427	1.465	1.514	1.577	1.529	1.506	3.09
6)	t	beta-BHC		0.864	0.820	0.823	0.830	0.736	0.657	0.652	0.659	0.630	0.741	12.62
7)	t	delta-BHC		1.485	1.428	1.424	1.454	1.408	1.479	1.542	1.616	1.574	1.490	4.86
8)	t	Heptachlor		1.698	1.626	1.588	1.608	1.514	1.481	1.507	1.532	1.437	1.555	5.26
9)	t	Aldrin		1.472	1.412	1.406	1.433	1.350	1.358	1.404	1.450	1.378	1.407	2.91
10)	t	Alachlor			0.282	0.268	0.271	0.249	0.200	0.187	0.175		0.233	19.07
11)	t	Chlorpyrifos		1.098	1.039	1.018	1.021	0.893	0.725	0.697	0.665		0.894	19.54
12)	t	Heptachlor Ep		1.581	1.504	1.465	1.521	1.376	1.296	1.314	1.329	1.247	1.404	8.33
13)	t	gamma-Chlorda		1.411	1.342	1.316	1.338	1.225	1.166	1.200	1.239	1.189	1.270	6.67
14)	t	alpha-Chlorda		1.599	1.533	1.503	1.515	1.390	1.301	1.331	1.364	1.301	1.426	7.86
15)	t	4,4'-DDE		1.340	1.289	1.286	1.313	1.258	1.262	1.323	1.366	1.300	1.304	2.71
16)	t	Endosulfan I		1.482	1.400	1.388	1.399	1.285	1.205	1.227	1.241	1.163	1.310	8.40
17)	t	Dieldrin		1.389	1.344	1.319	1.346	1.258	1.226	1.273	1.303	1.237	1.299	4.23
18)	t	Endrin		1.393	1.359	1.331	1.361	1.282	1.243	1.289	1.315	1.245	1.313	4.01
19)	t	4,4'-DDD		1.101	1.057	1.056	1.086	1.015	1.006	1.052	1.085	1.054	1.057	2.99
20)	t	Endosulfan II		1.391	1.316	1.295	1.314	1.190	1.105	1.124	1.130	1.031	1.211	10.08
21)	t	4,4'-DDT		1.302	1.277	1.264	1.284	1.186	1.139	1.186	1.218	1.165	1.224	4.82
22)	t	Endrin Aldehyde		1.235	1.132	1.094	1.092	0.985	0.902	0.932	0.937	0.890	1.022	11.79
23)	t	Methoxychlor			0.837	0.819	0.829	0.736	0.614	0.616	0.608	0.588	*L	0.999
4)														
24)	t	Mirex			1.355	1.312	1.282	1.103	0.887	0.877	0.864		*L	0.999
1)														
25)	t	Endosulfan Su		1.421	1.319	1.300	1.287	1.155	1.035	1.053	1.060	1.003	1.181	12.93
26)	t	Endrin Ketone		1.514	1.424	1.404	1.395	1.272	1.152	1.169	1.173	1.108	1.290	11.39
27)	s	Decachlorobip			1.392	1.339	1.320	1.119	0.904	0.907	0.888	0.846	*L	0.998
9)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.047	0.046	0.039	0.035	0.033	0.031			*L	0.997
1)														
30)	l1	chlordane-3			0.066	0.061	0.052	0.044	0.040	0.036			*L	0.991
3)														
31)	l1	chlordane-4			0.187	0.177	0.150	0.145	0.140	0.129			*L	0.997

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21196**
Calibration dates	**: 06/13/24 14:08 06/13/24 18:44**		

Signal #2 Calibration Files

1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
8)															
32)	l1	chlordane-5			0.145	0.141	0.121	0.114	0.109	0.100				*L	0.997
3)															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-2			0.023	0.027		0.024	0.024	0.023			0.024		5.69
35)	l2	toxaphene-3			0.040	0.040		0.036	0.035	0.035			0.037		7.22
36)	l2	toxaphene-4			0.044	0.046		0.043	0.041	0.041			0.043		4.87
37)	l2	toxaphene-5			0.039	0.043		0.039	0.038	0.037			0.039		6.10

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240613ICAL\
Method File : pest11_06_13_24_ugL_ICAL.M
Title : pest
Last Update : Fri Jun 14 15:27:41 2024
Response Via : Initial Calibration

Calibration Files
1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.224	1.147	1.151	1.175	1.093	1.022	1.079	1.099	1.031	1.113	5.97
3)	t	Hexachloroben...		1.485	1.387	1.370	1.387	1.262	1.133	1.164	1.177	1.109	1.275	10.68
4)	t	alpha-BHC		1.471	1.393	1.412	1.465	1.461	1.499	1.651	1.719	1.644	1.524	7.67
5)	t	gamma-BHC (li...	1.525	1.480	1.373	1.393	1.432	1.392	1.384	1.512	1.569	1.493	1.455	4.76
6)	t	beta-BHC		0.826	0.766	0.759	0.763	0.685	0.600	0.626	0.636	0.603	0.696	12.12
7)	t	delta-BHC		1.393	1.321	1.324	1.371	1.358	1.392	1.526	1.591	1.518	1.422	6.88
8)	t	Heptachlor		1.688	1.549	1.546	1.572	1.478	1.479	1.501	1.516	1.390	1.524	5.34
9)	t	Aldrin		1.481	1.350	1.339	1.404	1.321	1.337	1.424	1.464	1.365	1.387	4.23
10)	t	Alachlor			0.254	0.262	0.267	0.237	0.263	0.182	0.169		0.234	17.55
11)	t	Chlorpyrifos		1.010	0.950	0.927	0.933	0.818	0.671	0.644	0.613		0.821	19.18
12)	t	Heptachlor Ep...		1.523	1.426	1.408	1.438	1.334	1.217	1.310	1.316	1.206	1.353	7.76
13)	t	gamma-Chlorda...		1.368	1.296	1.262	1.294	1.200	1.135	1.217	1.255	1.188	1.246	5.57
14)	t	alpha-Chlorda...		1.574	1.473	1.437	1.476	1.372	1.261	1.371	1.401	1.325	1.410	6.55
15)	t	4,4'-DDE		1.292	1.242	1.259	1.267	1.225	1.227	1.364	1.412	1.328	1.291	5.03
16)	t	Endosulfan I		1.459	1.359	1.337	1.361	1.262	1.146	1.251	1.260	1.162	1.289	7.79

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240613ICAL\
Method File : pest11_06_13_24_ugL_ICAL.M
Title : pest
Last Update : Fri Jun 14 15:27:41 2024
Response Via : Initial Calibration

Calibration Files
1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.362	1.293	1.277	1.307	1.236	1.233	1.310	1.338	1.246	1.289	3.53
18)	t	Endrin		1.376	1.304	1.294	1.330	1.273	1.239	1.335	1.350	1.243	1.305	3.64
19)	t	4,4'-DDD		1.053	1.013	1.004	1.037	0.997	0.996	1.086	1.121	1.059	1.040	4.16
20)	t	Endosulfan II		1.395	1.287	1.265	1.281	1.202	1.105	1.173	1.174	1.048	1.214	8.62
21)	t	4,4'-DDT		1.281	1.227	1.200	1.225	1.178	1.150	1.248	1.278	1.205	1.221	3.58
22)	t	Endrin Aldehyde		1.137	1.056	1.036	1.060	0.965	0.867	0.967	0.966	0.899	0.995	8.56
23)	t	Methoxychlor			0.824	0.795	0.810	0.733	0.617	0.643	0.621	0.560	0.700	14.61
24)	t	Mirex			1.374	1.322	1.334	1.166	0.947	0.991	0.977		*L	0.999
2														
25)	t	Endosulfan Su...		1.396	1.315	1.269	1.294	1.179	1.038	1.123	1.125	1.034	1.197	10.67
26)	t	Endrin Ketone		1.434	1.347	1.326	1.352	1.260	1.130	1.219	1.205	1.104	1.264	8.69
27)	s	Decachlorobip...			1.294	1.257	1.246	1.101	0.914	0.977	0.959	0.906	1.082	15.15
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.046	0.048	0.039	0.037	0.037	0.036			*L	0.999
8														
30)	l1	chlordane-3			0.065	0.064	0.053	0.047	0.046	0.044			*L	0.998
4														
31)	l1	chlordane-4			0.198	0.187	0.164	0.166	0.168	0.165			*L	0.999
9														
32)	l1	chlordane-5			0.291	0.279	0.255	0.258	0.261	0.256			*L	0.999
9														

Method Path : I:\PEST\Pest11\2024\240613ICAL\
Method File : pest11_06_13_24_ugL_ICAL.M
Title : pest
Last Update : Fri Jun 14 15:27:41 2024
Response Via : Initial Calibration

Calibration Files
1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.055	0.059		0.060	0.058	0.057			0.058	3.14
35)	l2	toxaphene-3			0.034	0.045		0.048	0.048	0.048			0.044	13.54
36)	l2	toxaphene-4			0.040	0.047		0.048	0.047	0.047			0.046	6.98
37)	l2	toxaphene-5			0.035	0.045		0.045	0.044	0.044			0.042	9.71

Signal #2 Calibration Files
1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.293	1.240	1.227	1.241	1.146	1.097	1.107	1.124	1.064	1.171	6.85
3)	t	Hexachloroben...			1.582	1.480	1.442	1.452	1.303	1.182	1.179	1.196	1.144	1.329	12.23
4)	t	alpha-BHC			1.526	1.493	1.485	1.536	1.500	1.602	1.670	1.748	1.703	1.585	6.30
5)	t	gamma-BHC (li...		1.562	1.534	1.481	1.466	1.502	1.427	1.465	1.514	1.577	1.529	1.506	3.09
6)	t	beta-BHC			0.864	0.820	0.823	0.830	0.736	0.657	0.652	0.659	0.630	0.741	12.62
7)	t	delta-BHC			1.485	1.428	1.424	1.454	1.408	1.479	1.542	1.616	1.574	1.490	4.86
8)	t	Heptachlor			1.698	1.626	1.588	1.608	1.514	1.481	1.507	1.532	1.437	1.555	5.26
9)	t	Aldrin			1.472	1.412	1.406	1.433	1.350	1.358	1.404	1.450	1.378	1.407	2.91

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240613ICAL\
Method File : pest11_06_13_24_ugL_ICAL.M
Title : pest
Last Update : Fri Jun 14 15:27:41 2024
Response Via : Initial Calibration

Calibration Files
1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	t	Alachlor			0.282	0.268	0.271	0.249	0.200	0.187	0.175		0.233	19.07
11)	t	Chlorpyrifos		1.098	1.039	1.018	1.021	0.893	0.725	0.697	0.665		0.894	19.54
12)	t	Heptachlor Ep...		1.581	1.504	1.465	1.521	1.376	1.296	1.314	1.329	1.247	1.404	8.33
13)	t	gamma-Chlorda...		1.411	1.342	1.316	1.338	1.225	1.166	1.200	1.239	1.189	1.270	6.67
14)	t	alpha-Chlorda...		1.599	1.533	1.503	1.515	1.390	1.301	1.331	1.364	1.301	1.426	7.86
15)	t	4,4'-DDE		1.340	1.289	1.286	1.313	1.258	1.262	1.323	1.366	1.300	1.304	2.71
16)	t	Endosulfan I		1.482	1.400	1.388	1.399	1.285	1.205	1.227	1.241	1.163	1.310	8.40
17)	t	Dieldrin		1.389	1.344	1.319	1.346	1.258	1.226	1.273	1.303	1.237	1.299	4.23
18)	t	Endrin		1.393	1.359	1.331	1.361	1.282	1.243	1.289	1.315	1.245	1.313	4.01
19)	t	4,4'-DDD		1.101	1.057	1.056	1.086	1.015	1.006	1.052	1.085	1.054	1.057	2.99
20)	t	Endosulfan II		1.391	1.316	1.295	1.314	1.190	1.105	1.124	1.130	1.031	1.211	10.08
21)	t	4,4'-DDT		1.302	1.277	1.264	1.284	1.186	1.139	1.186	1.218	1.165	1.224	4.82
22)	t	Endrin Aldehyde		1.235	1.132	1.094	1.092	0.985	0.902	0.932	0.937	0.890	1.022	11.79
23)	t	Methoxychlor			0.837	0.819	0.829	0.736	0.614	0.616	0.608	0.588	*L	0.999
4														
24)	t	Mirex			1.355	1.312	1.282	1.103	0.887	0.877	0.864		*L	0.999
1														
25)	t	Endosulfan Su...		1.421	1.319	1.300	1.287	1.155	1.035	1.053	1.060	1.003	1.181	12.93

Method Path : I:\PEST\Pest11\2024\240613ICAL\
Method File : pest11_06_13_24_ugL_ICAL.M
Title : pest
Last Update : Fri Jun 14 15:27:41 2024
Response Via : Initial Calibration

Calibration Files
1 =11240613i-03.d 2 =11240613i-04.d 3 =11240613i-22.d 4 =11240613i-23.d 5 =11240613i-16.d
7 =11240613i-24.d 8 =11240613i-25.d 9 =11240613i-26.d 10 =11240613i-20.d 11 =11240613i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)	t	Endrin Ketone	1.514	1.424	1.404	1.395	1.272	1.152	1.169	1.173	1.108		1.290	11.39
27)	s	Decachlorobip...		1.392	1.339	1.320	1.119	0.904	0.907	0.888	0.846		*L	0.998
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1		0.047	0.046	0.039	0.035	0.033	0.031				*L	0.997
30)	l1	chlordane-3		0.066	0.061	0.052	0.044	0.040	0.036				*L	0.991
31)	l1	chlordane-4		0.187	0.177	0.150	0.145	0.140	0.129				*L	0.997
32)	l1	chlordane-5		0.145	0.141	0.121	0.114	0.109	0.100				*L	0.997
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2		0.023	0.027	0.024	0.024	0.023					0.024	5.69
35)	l2	toxaphene-3		0.040	0.040	0.036	0.035	0.035					0.037	7.22
36)	l2	toxaphene-4		0.044	0.046	0.043	0.041	0.041					0.043	4.87
37)	l2	toxaphene-5		0.039	0.043	0.039	0.038	0.037					0.039	6.10

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 13:56
Operator : PEST11:kab/elj
Sample : pem11240613i01,42ee,,pem-01,42e,,pp 11573 (Sig #1); pem-01,42e,,pp 11573 - (Sig #2)
Misc : WG1934571,,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:39:40 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.424	1.452	148.4E6	116.3E6	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.905	4.626	1284648	1055348	0.168M4	0.174
18) t	Endrin	4.470	5.069	428.9E6	324.9E6	55.366	53.199
19) t	4,4'-DDD	4.562	5.183	2368900	1973887	0.383M4	0.402M4
21) t	4,4'-DDT	4.839	5.455	808.7E6	586.4E6	111.521	102.984
22) t	Endrin Aldeh	5.096	5.553	1278127	1108787	0.216	0.233
26) t	Endrin Keton	5.696	6.186	3813984	3067713	0.508	0.511
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

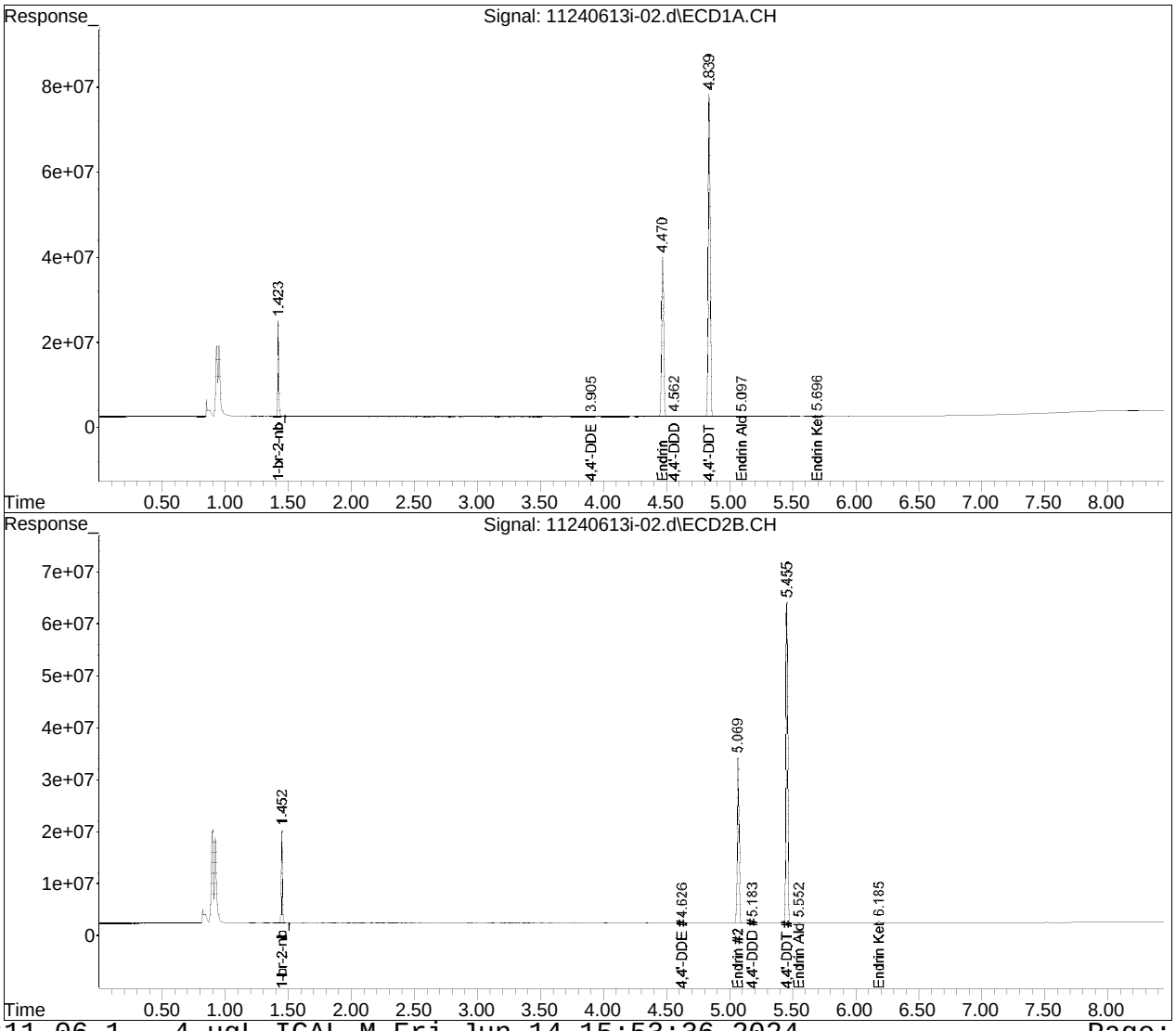
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 13:56
Operator : PEST11:kab/elj
Sample : pem11240613i01,42ee,,pem-01,42e,,pp 11573 (Sig #1); pem-01,42e,,p
Misc : WG1934571,,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:39:40 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

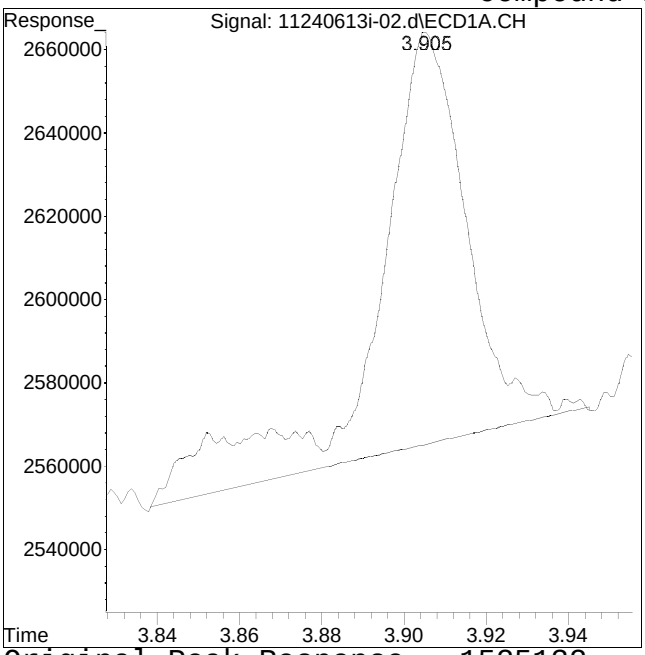


Manual Integration Report

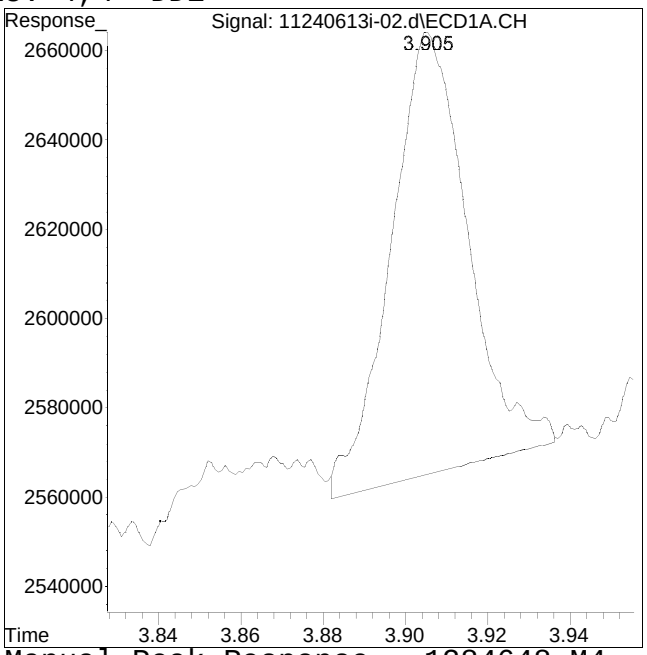
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-02.d
Date Inj'd : 6/13/2024 13:56
Sample : pem11240613i01,42ee,,pem-0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 2:39 pm

Compound #15: 4,4'-DDE



Original Peak Response = 1525132



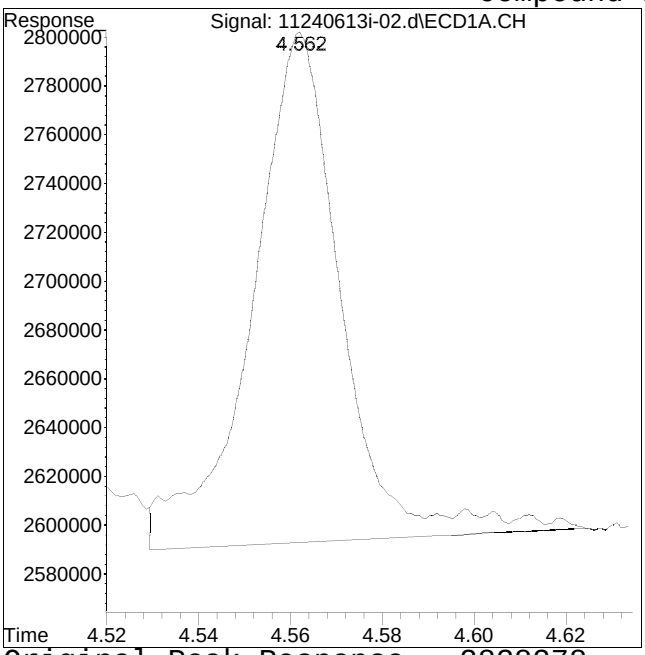
Manual Peak Response = 1284648 M4

M4 = Poor automated baseline construction.

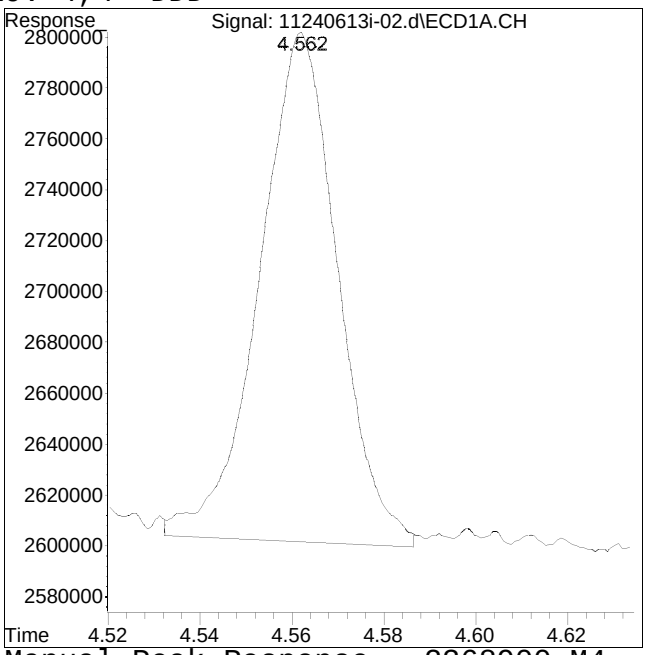
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-02.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 13:56 Instrument : Pest 11
Sample : pem11240613i01,42ee,,pem-0Quant Date : 6/14/2024 2:39 pm

Compound #19: 4,4'-DDD



Original Peak Response = 2838278



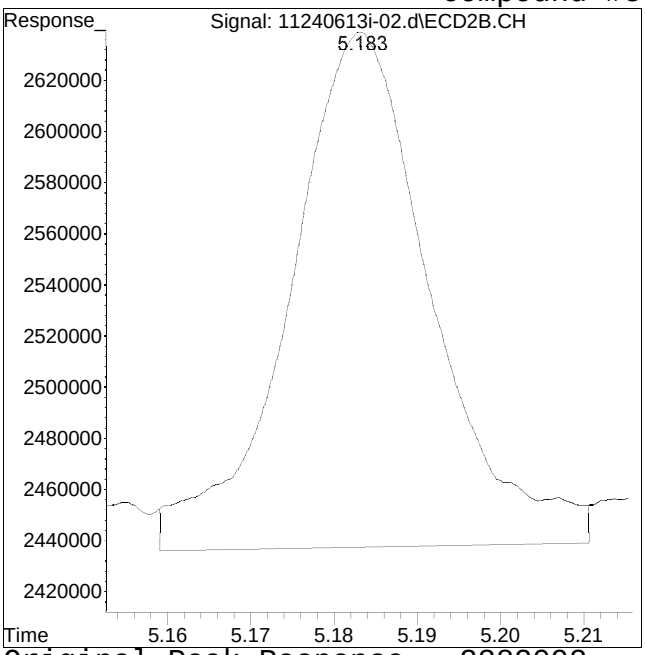
Manual Peak Response = 2368900 M4

M4 = Poor automated baseline construction.

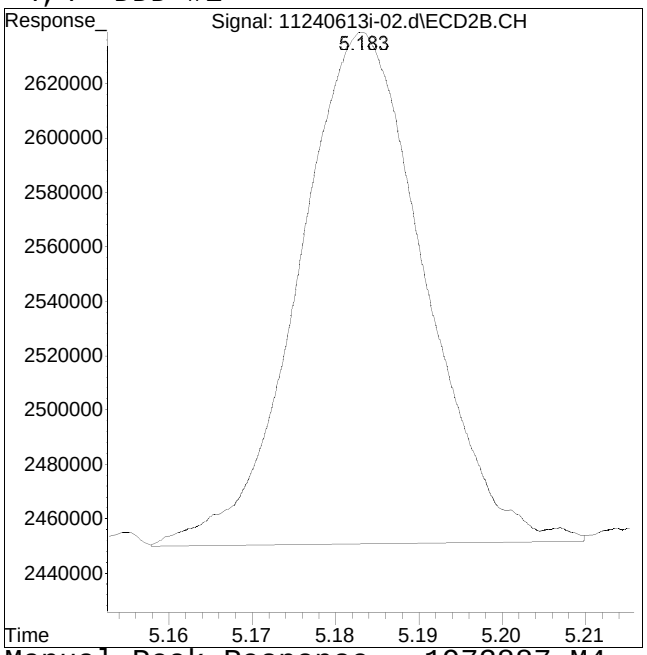
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-02.d
Date Inj'd : 6/13/2024 13:56
Sample : pem11240613i01,42ee,,pem-0
Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 2:39 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 2382092



Manual Peak Response = 1973887 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:08
Operator : PEST11:kab/elj
Sample : il1pest,42e,,pp 11572 L0.0005
Misc : WG1934571,,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:56:02 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:55:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.424	1.452	143.9E6	111.7E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.339	2.680	4388899	3489375	0.527	0.521M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:08
Operator : PEST11:kab/elj
Sample : il1pest,42e,,pp 11572 L0.0005
Misc : WG1934571,,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:56:02 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:55:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

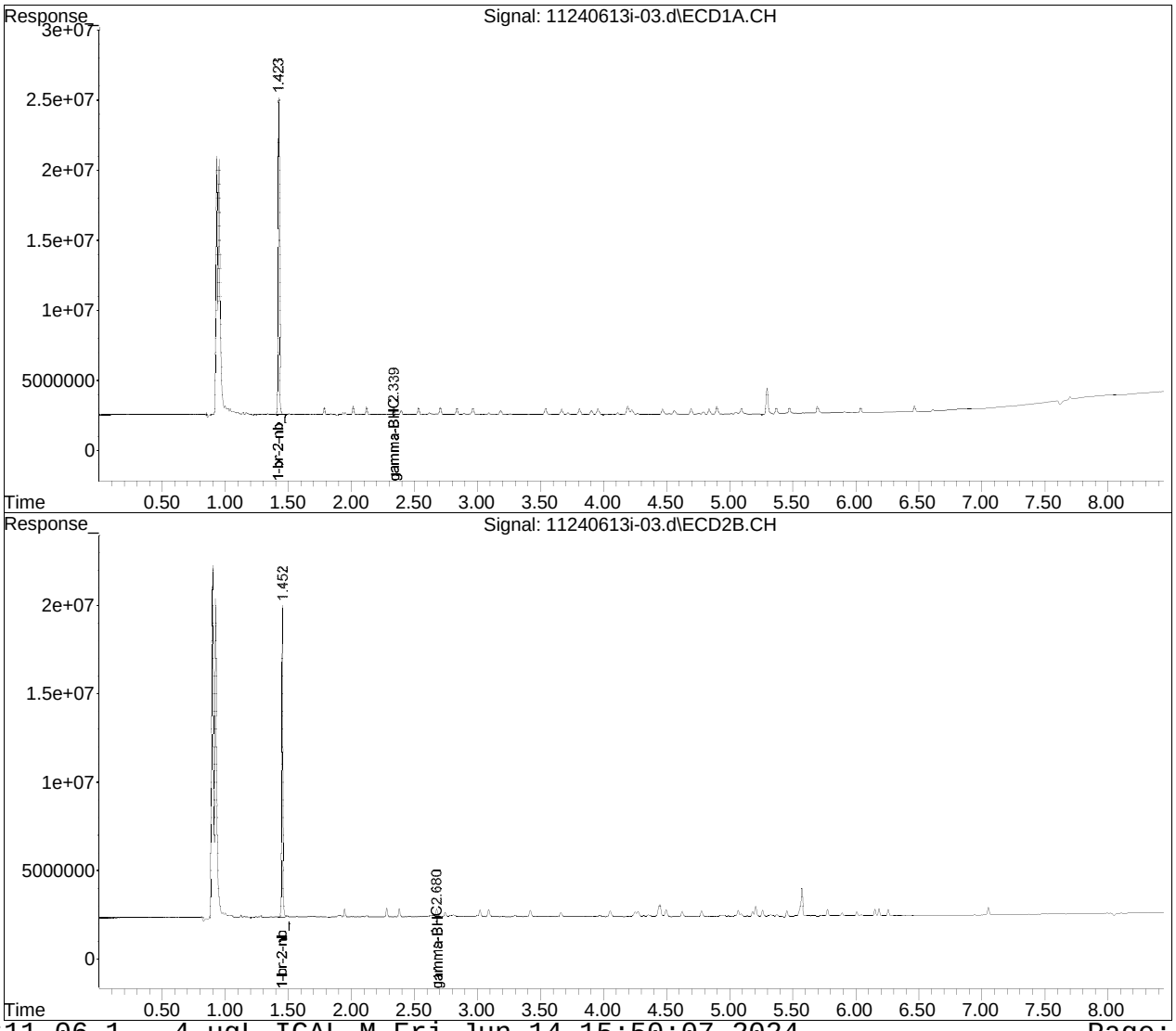
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:08
Operator : PEST11:kab/elj
Sample : il1pest,42e,,pp 11572 L0.0005
Misc : WG1934571,,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:56:02 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:55:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

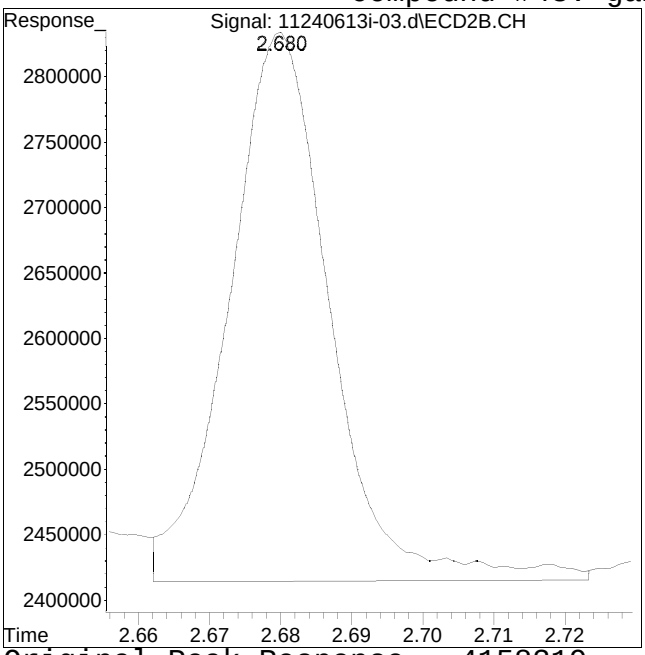
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



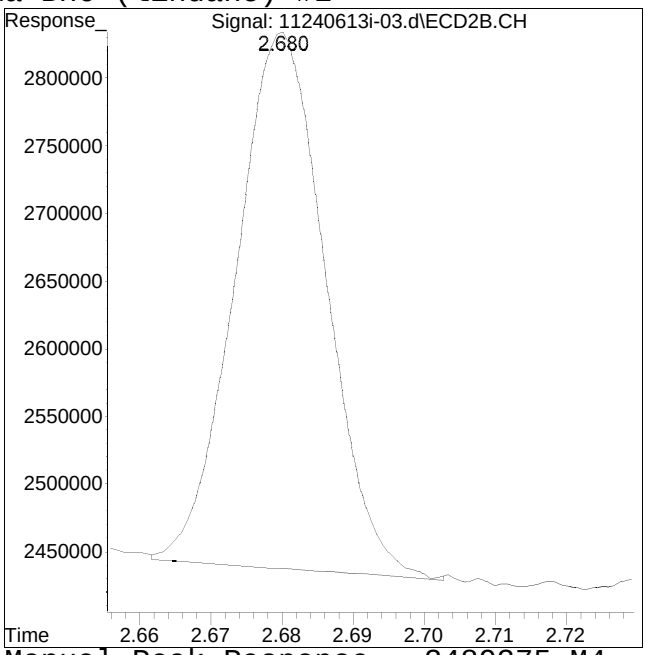
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-03.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:08 Instrument : Pest 11
Sample : il1pest,42e,,pp 11572 L0.0Quant Date : 6/14/2024 1:56 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 4158319



Manual Peak Response = 3489375 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:20
Operator : PEST11:kab/elj
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:48:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.424	1.453	144.6E6	109.2E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.789	1.950	7078248	5644278	1.113	1.118
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.23%#	2.24%#
27) s	Decachlorobi	6.465	7.048	8133370	6578874	1.300M4	1.383M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.60%#	2.77%#
	Target Compounds						
3) t	Hexachlorobe	2.018	2.285	8592190	6907036	1.190M4	1.219
4) t	alpha-BHC	2.123	2.384	8507974	6661420	0.961	0.958
5) t	gamma-BHC (l	2.340	2.681	8563687	6696373	1.025	1.026
6) t	beta-BHC	2.398	2.748	4780181	3773077	1.216	1.191
7) t	delta-BHC	2.535	3.024	8059555	6485081	0.978	0.996
8) t	Heptachlor	2.708	3.093	9767560	7415242	1.123	1.105M4
9) t	Aldrin	2.966	3.423	8568883	6428869	1.077	1.053M4
10) t	Alachlor	3.094	3.300	1533511	1344553	1.190	1.378
11) t	Chlorpyrifos	3.186	3.665	5841015	4794242	1.325M4	1.320
12) t	Heptachlor E	3.542	4.055	8810309	6902261	1.143M4	1.144M4
13) t	gamma-Chlord	3.670	4.277	7913719	6162543	1.111	1.127
14) t	alpha-Chlord	3.811	4.439	9104174	6981364	1.133	1.138
15) t	4,4'-DDE	3.905	4.626	7471984	5850375	1.001M4	1.031
16) t	Endosulfan I	3.957	4.499	8440935	6469655	1.151	1.150

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:20
Operator : PEST11:kab/elj
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:48:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	4.226	4.779	7880127	6063697	1.064	1.078M4
18) t	Endrin	4.469	5.069	7960779	6082794	1.062	1.069M4
19) t	4,4'-DDD	4.562	5.183	6089345	4809245	1.013	1.048M4
20) t	Endosulfan I	4.695	5.263	8068032	6073253	1.170	1.171
21) t	4,4'-DDT	4.838	5.455	7409310	5683617	1.055M4	1.072M4
22) t	Endrin Aldeh	5.094	5.552	6577175	5392070	1.164M4	1.240M4
23) t	Methoxychlor	5.299	6.009	5291773	3848841	1.306	1.249M4
24) t	Mirex	5.370	6.153	8803883	6580261	1.350	1.420
25) t	Endosulfan S	5.473	5.777	8074379	6202858	1.191M4	1.234
26) t	Endrin Keton	5.695	6.186	8293753	6608911	1.153	1.199
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:20
Operator : PEST11:kab/elj
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:48:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

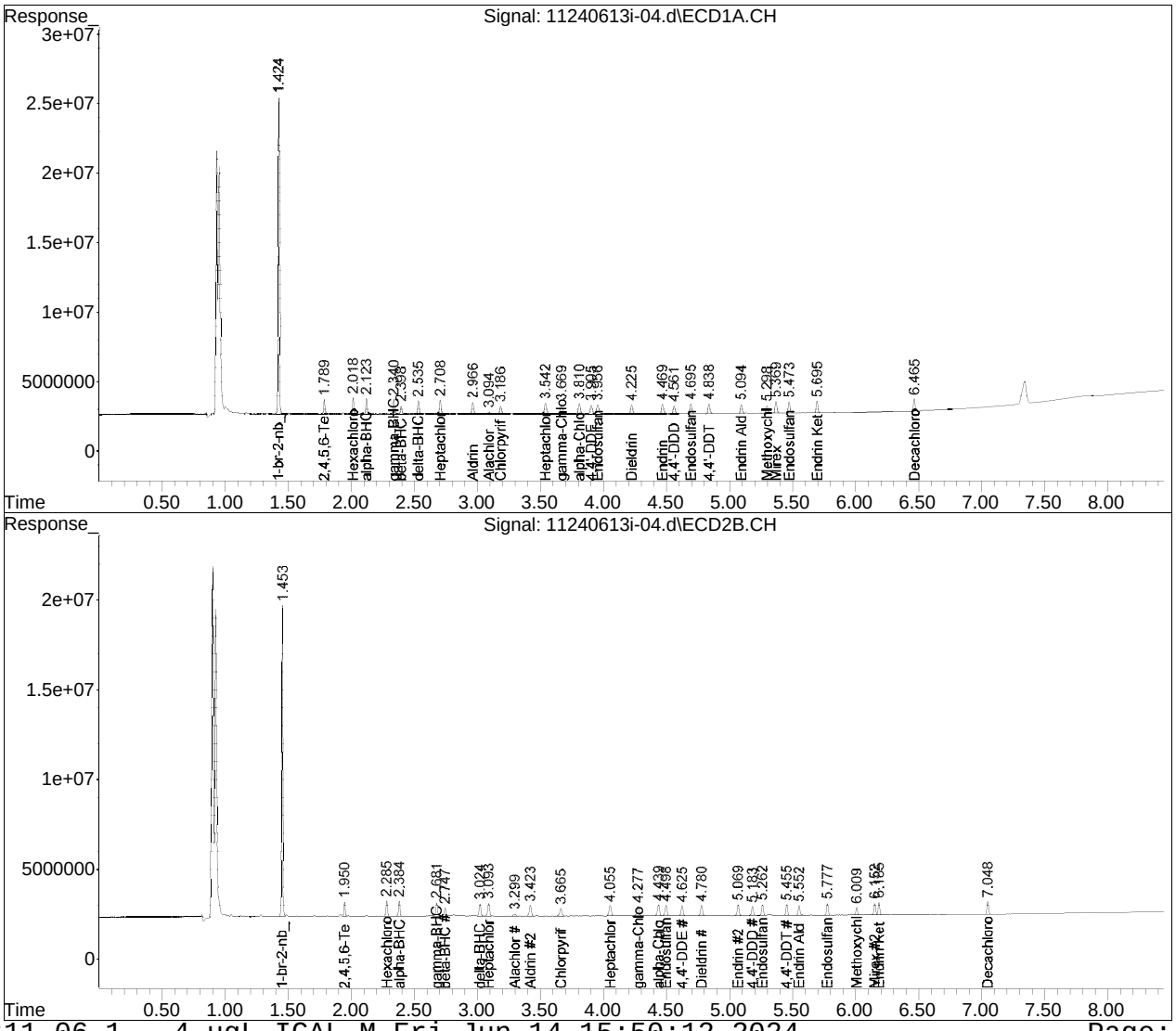
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:20
Operator : PEST11:kab/elj
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:48:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

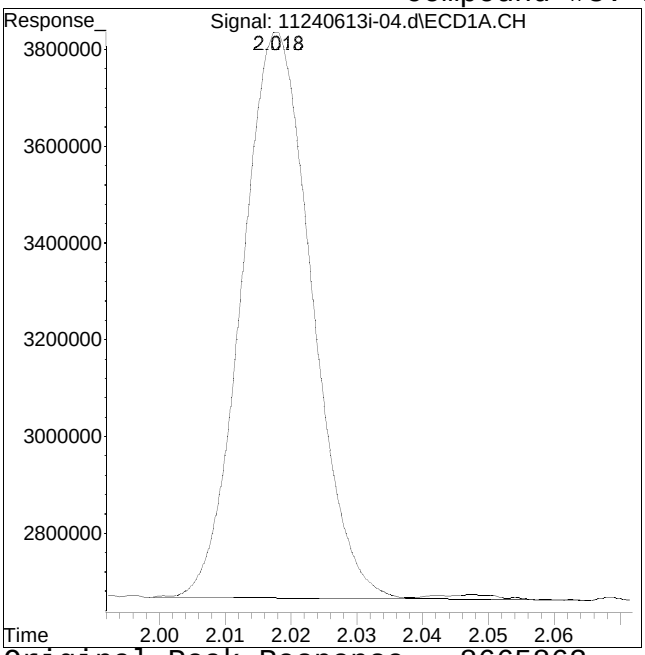
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

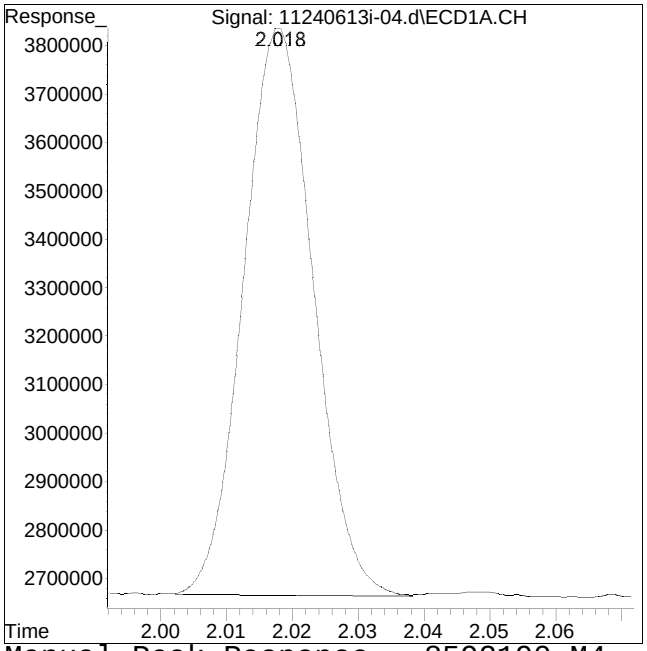


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #3: Hexachlorobenzene





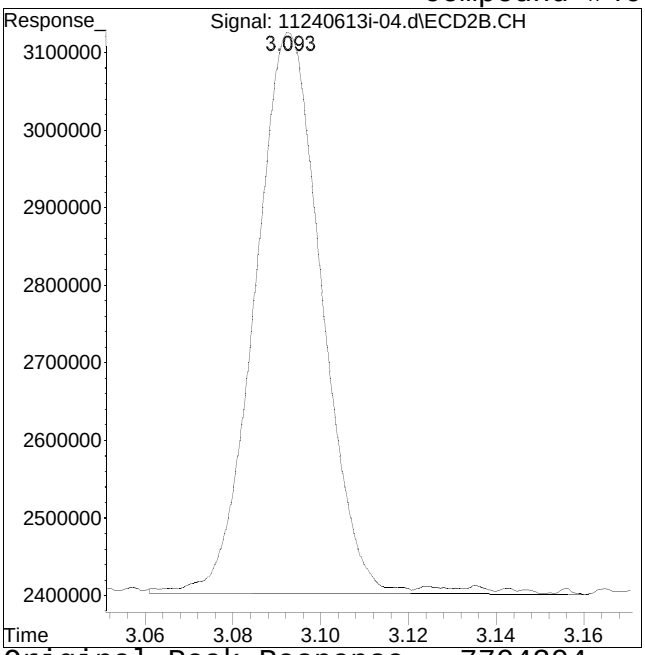
Original Peak Response = 8665863 Manual Peak Response = 8592190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

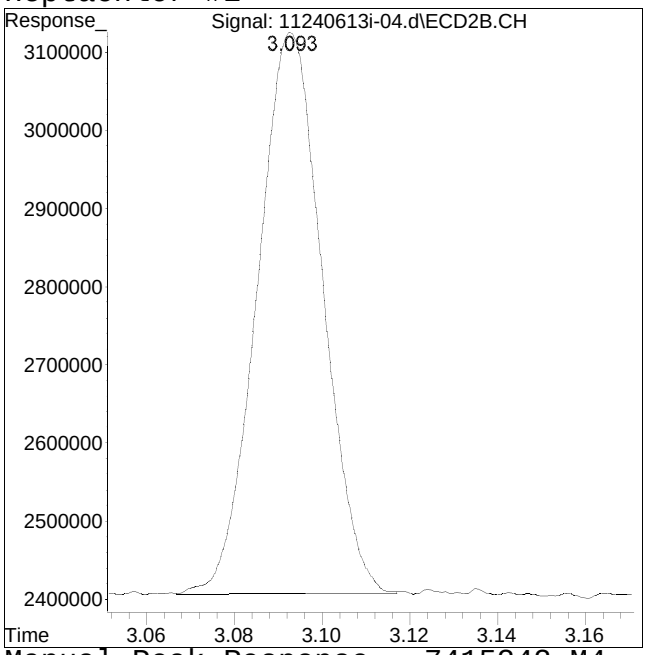
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-04.d
Date Inj'd : 6/13/2024 14:20
Sample : il2pest,42e,,pp 11571 L0.0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:49 pm

Compound #46: Heptachlor #2



Original Peak Response = 7704304



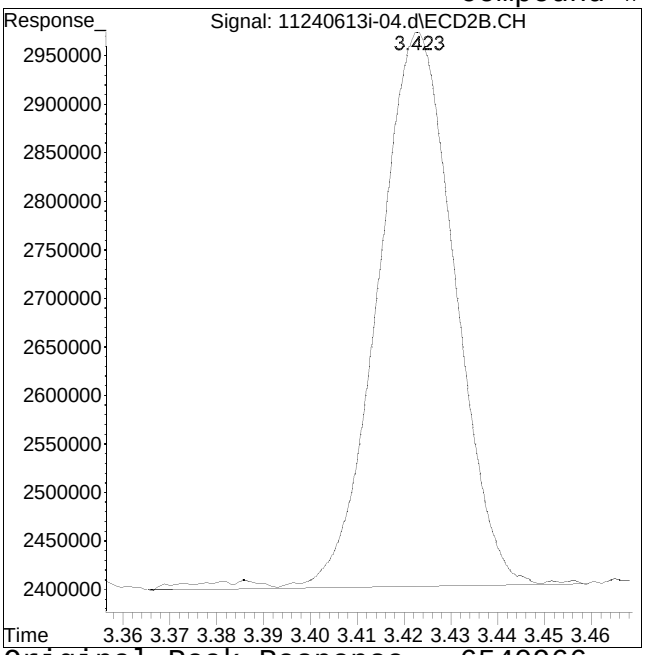
Manual Peak Response = 7415242 M4

M4 = Poor automated baseline construction.

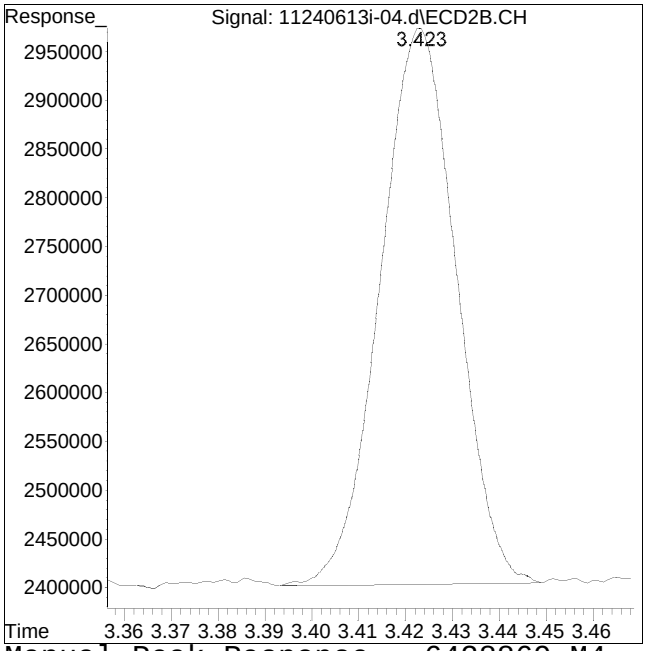
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #47: Aldrin #2



Original Peak Response = 6540966



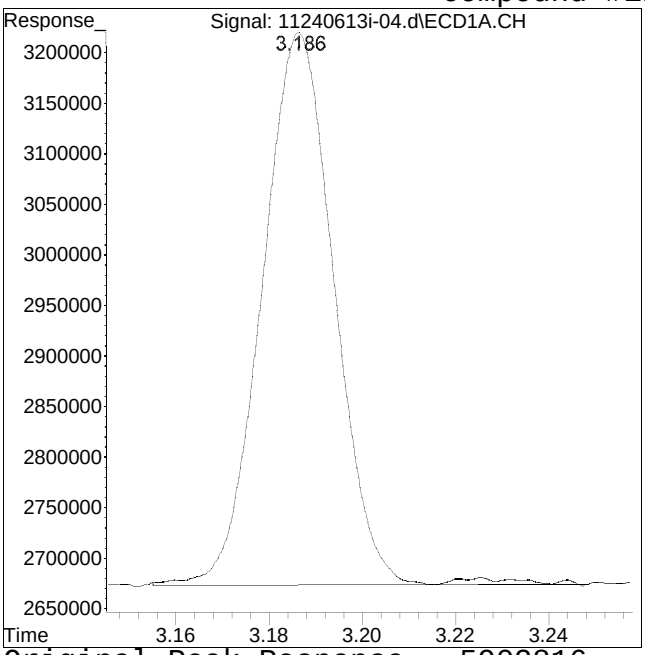
Manual Peak Response = 6428869 M4

M4 = Poor automated baseline construction.

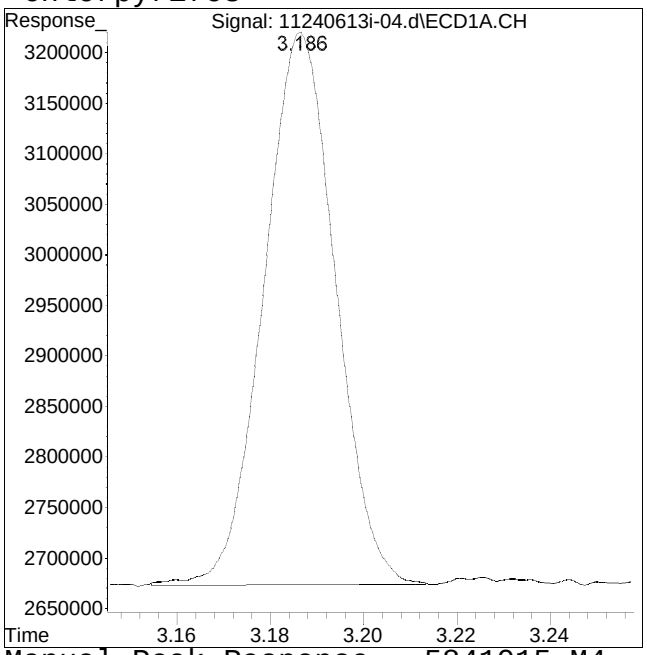
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #11: Chlorpyrifos



Original Peak Response = 5902816



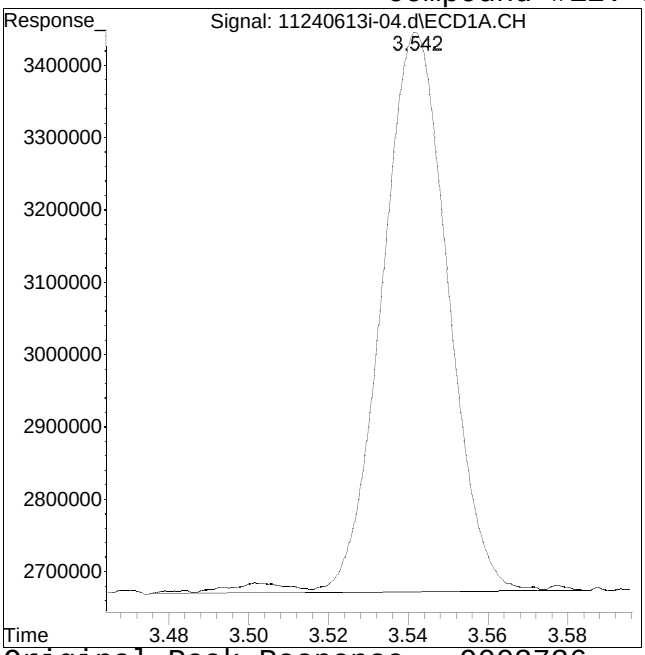
Manual Peak Response = 5841015 M4

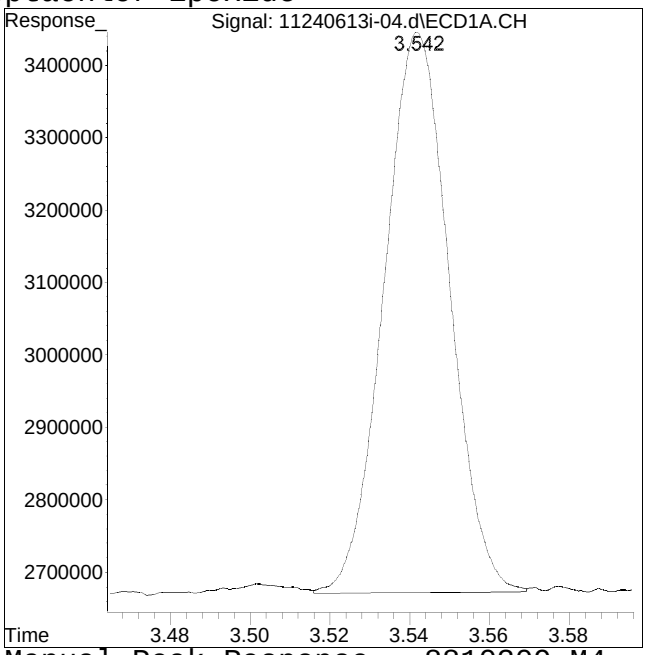
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #12: Heptachlor Epoxide



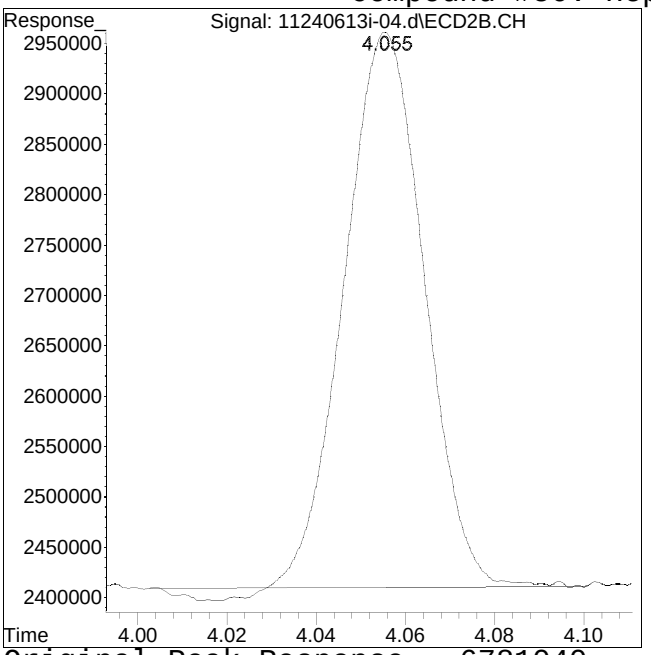


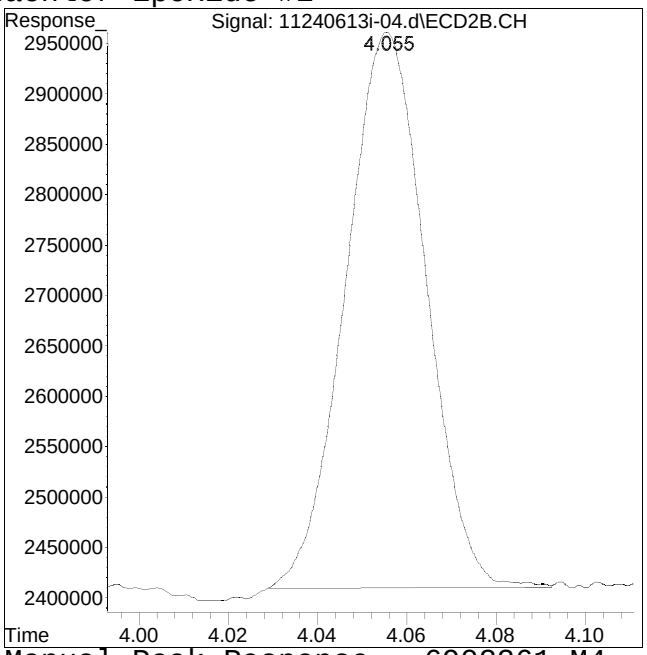
Original Peak Response = 9003736 Manual Peak Response = 8810309 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #50: Heptachlor Epoxide #2



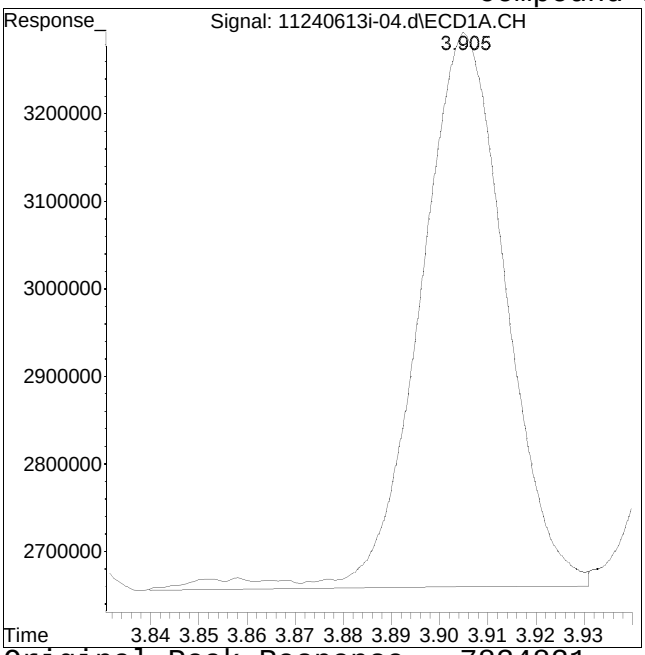


Original Peak Response = 6781040 Manual Peak Response = 6902261 M4
M4 = Poor automated baseline construction.

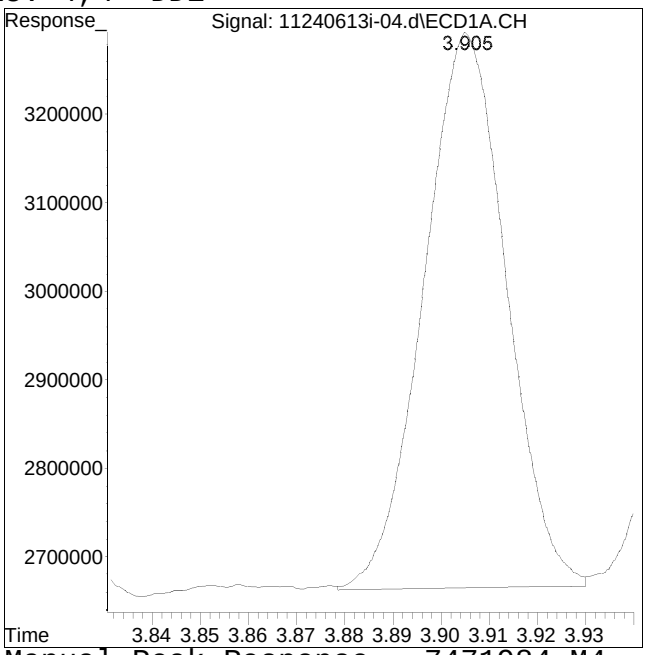
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #15: 4,4'-DDE



Original Peak Response = 7834821



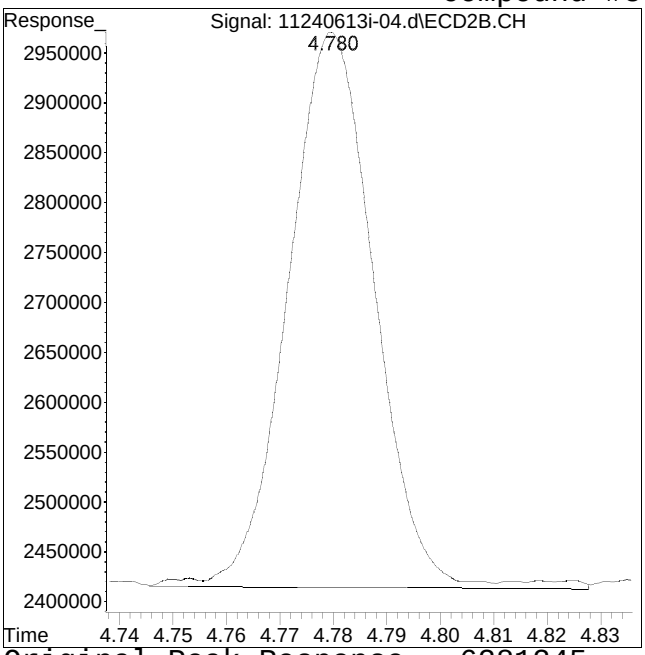
Manual Peak Response = 7471984 M4

M4 = Poor automated baseline construction.

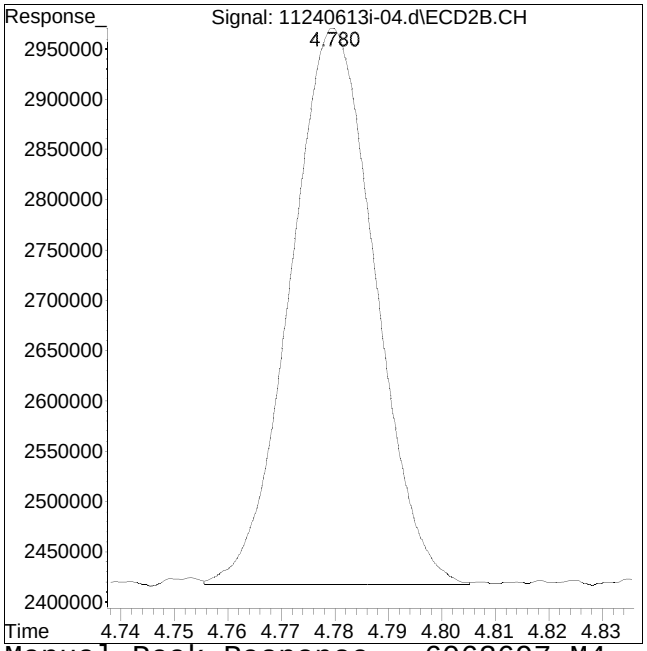
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #55: Dieldrin #2



Original Peak Response = 6281245



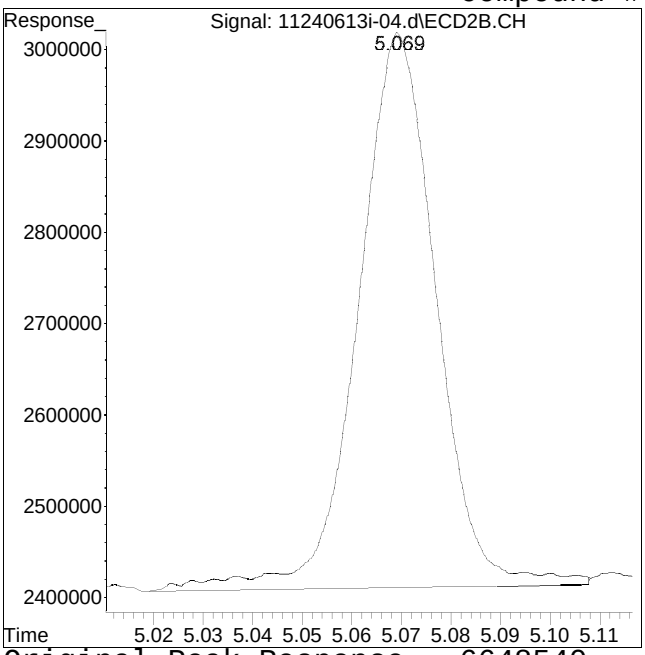
Manual Peak Response = 6063697 M4

M4 = Poor automated baseline construction.

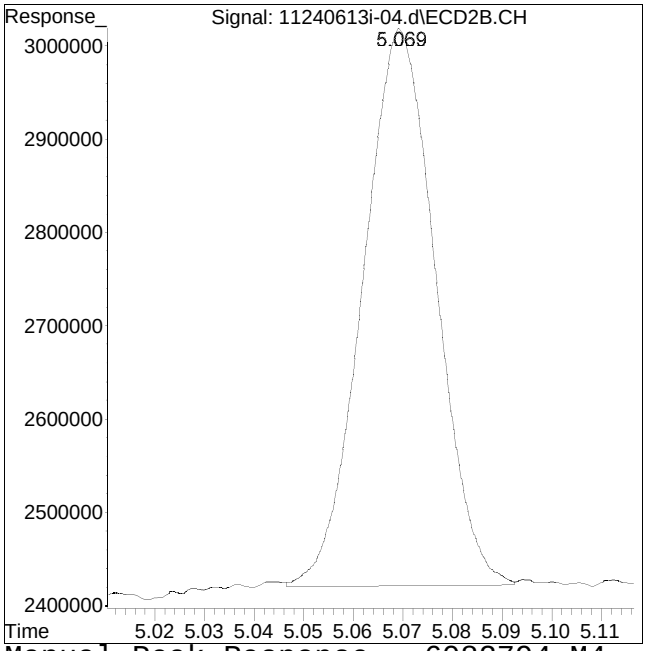
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #56: Endrin #2



Original Peak Response = 6648540



Manual Peak Response = 6082794 M4

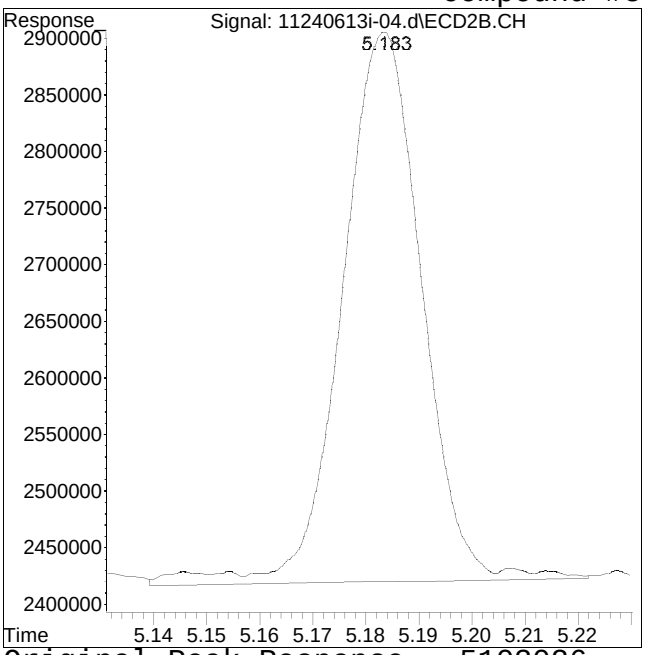
M4 = Poor automated baseline construction.

Manual Integration Report

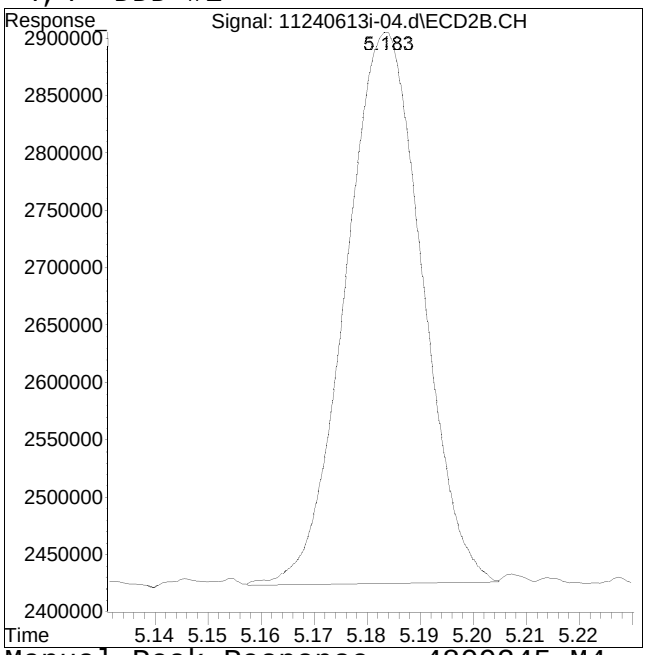
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-04.d
Date Inj'd : 6/13/2024 14:20
Sample : il2pest,42e,,pp 11571 L0.0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:49 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 5103026



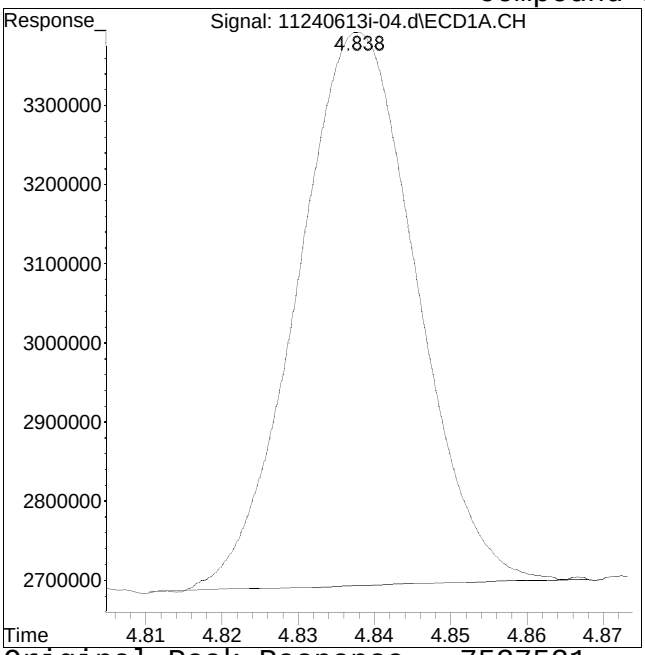
Manual Peak Response = 4809245 M4

M4 = Poor automated baseline construction.

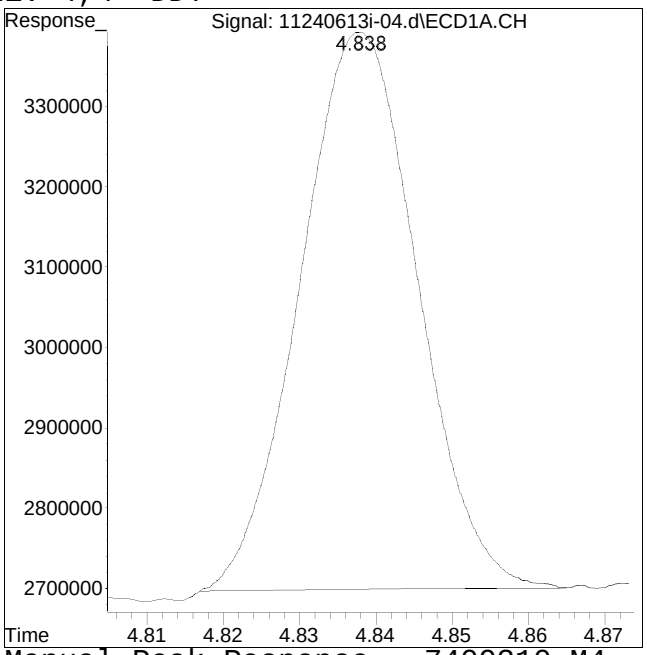
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #21: 4,4'-DDT



Original Peak Response = 7537521



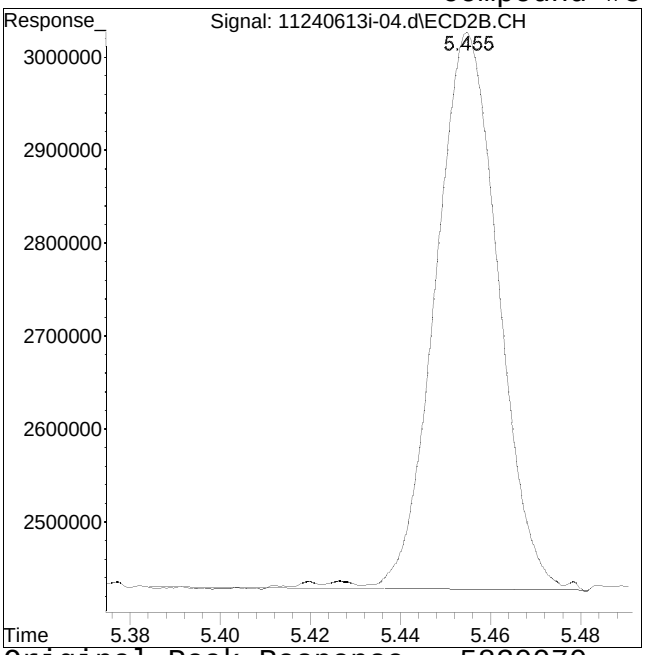
Manual Peak Response = 7409310 M4

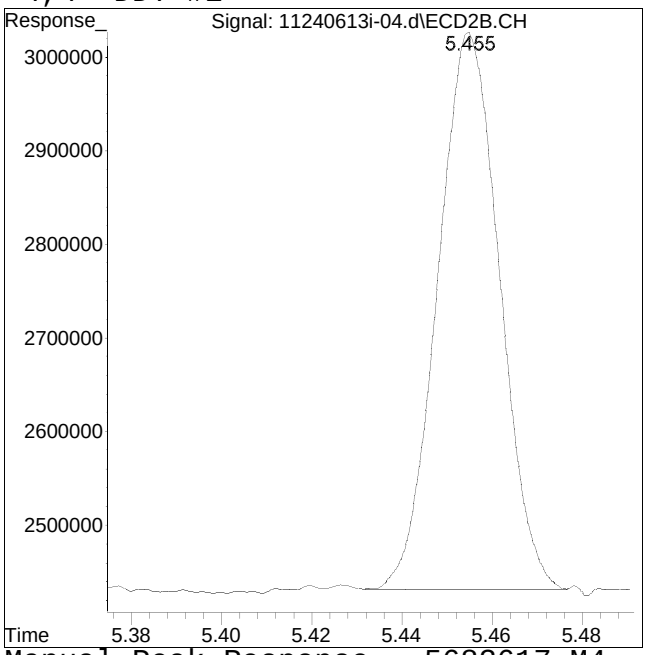
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #59: 4,4'-DDT #2



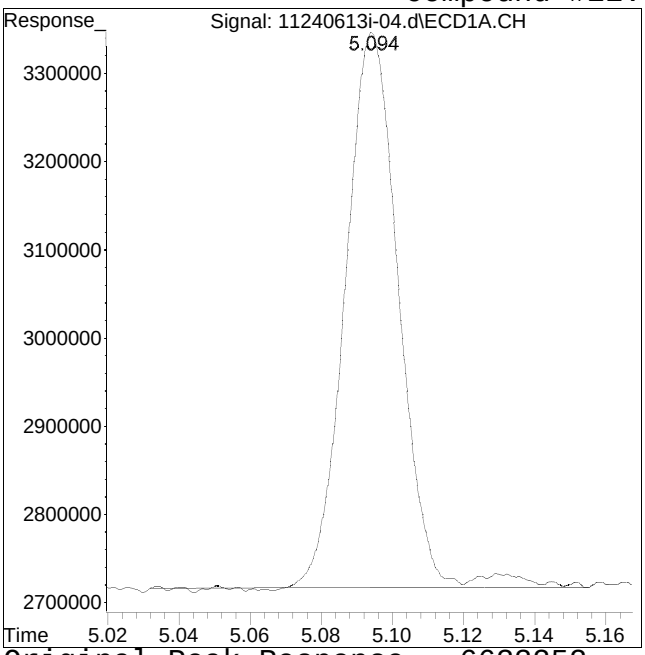


Original Peak Response = 5830070 Manual Peak Response = 5683617 M4
M4 = Poor automated baseline construction.

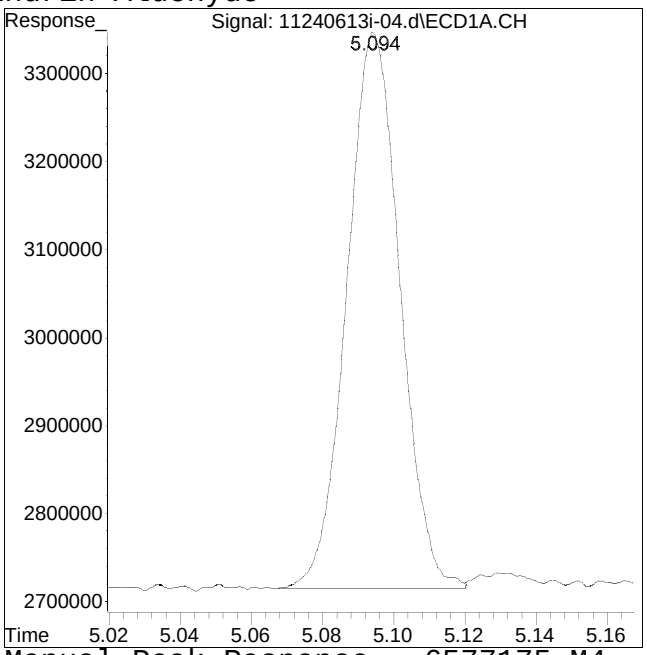
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 6633252



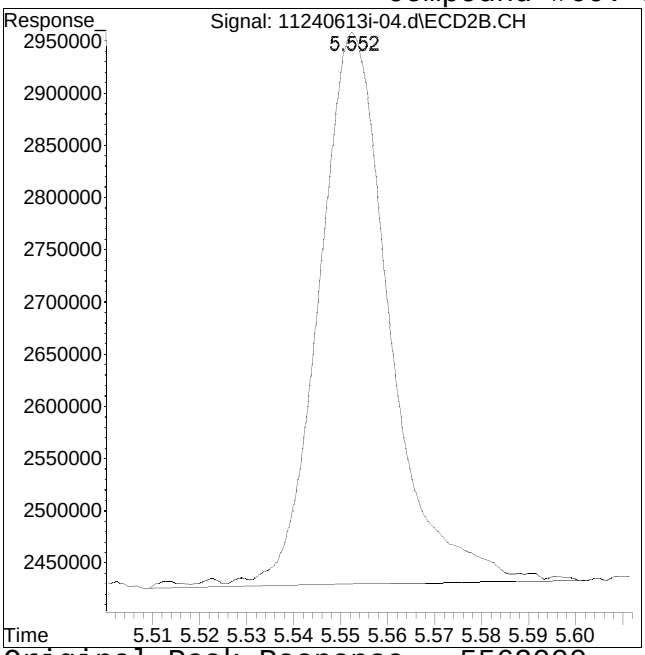
Manual Peak Response = 6577175 M4

M4 = Poor automated baseline construction.

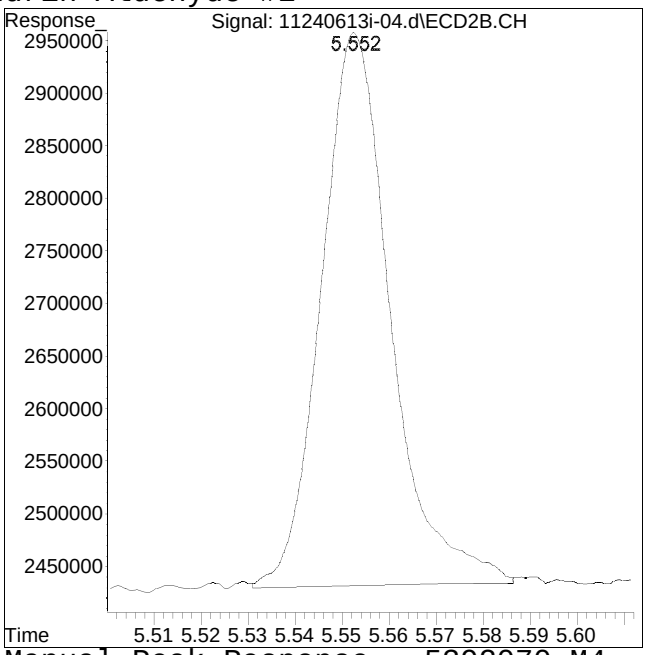
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 5562000



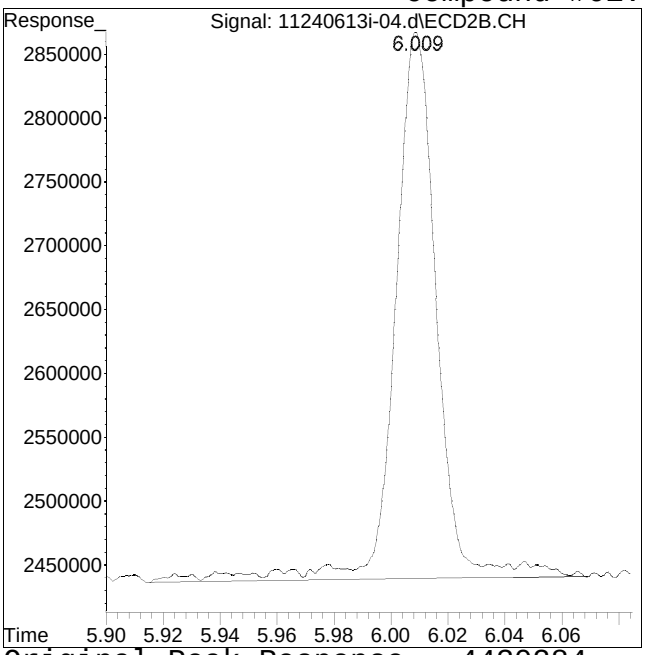
Manual Peak Response = 5392070 M4

M4 = Poor automated baseline construction.

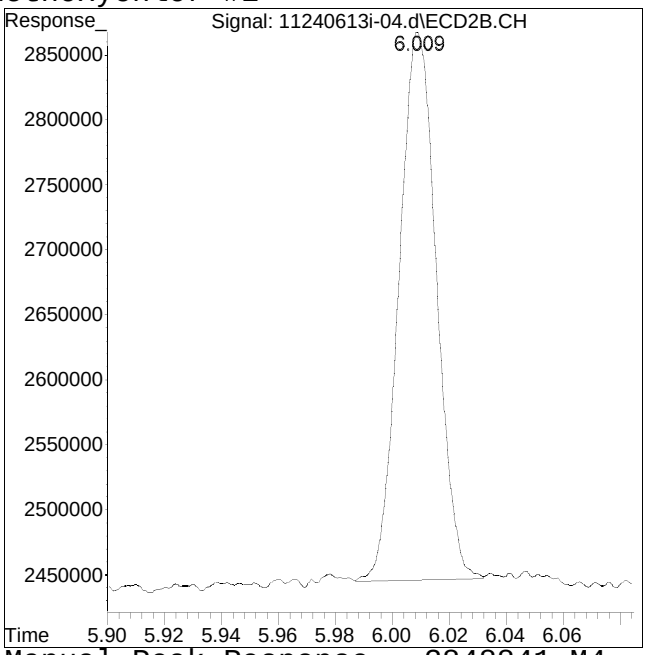
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #61: Methoxychlor #2



Original Peak Response = 4430284



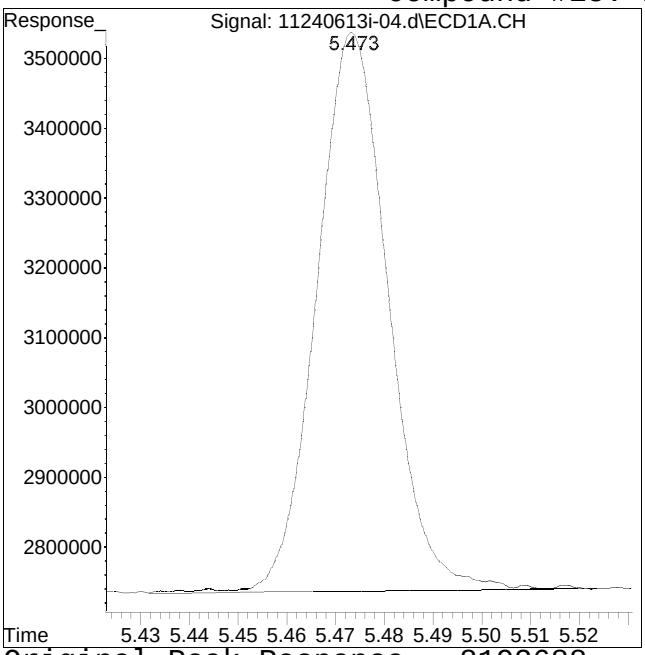
Manual Peak Response = 3848841 M4

M4 = Poor automated baseline construction.

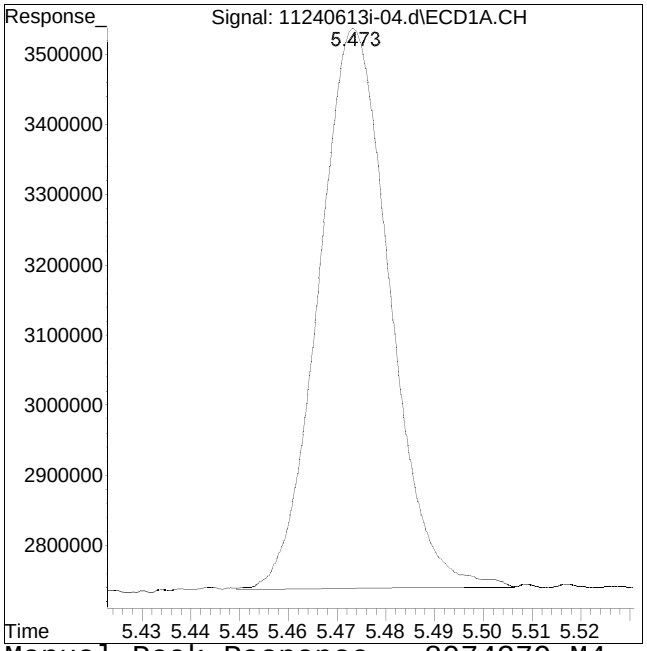
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 8192688



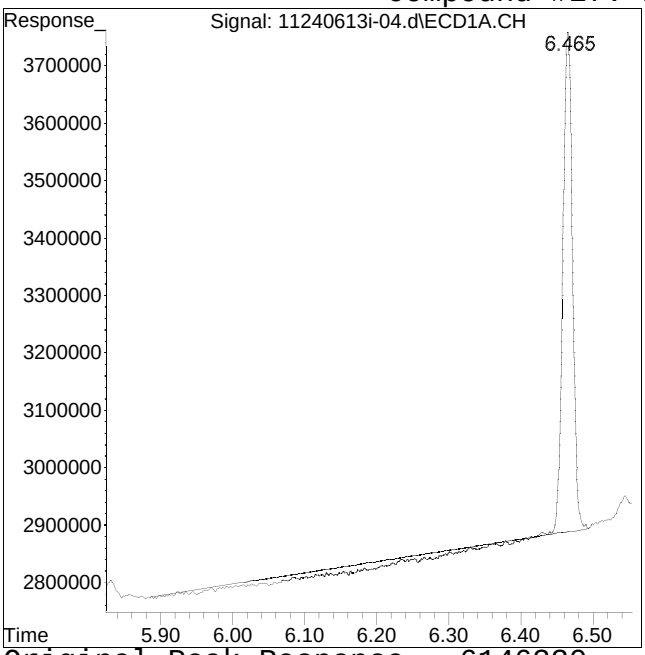
Manual Peak Response = 8074379 M4

M4 = Poor automated baseline construction.

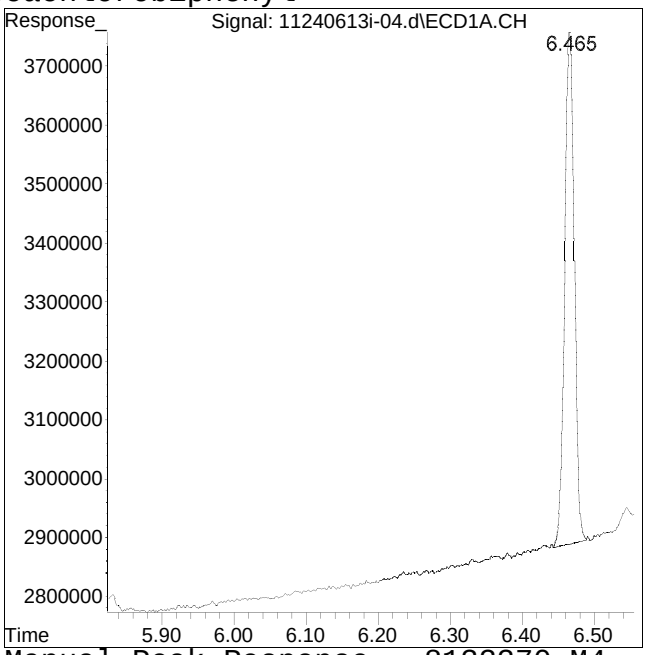
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 6146330



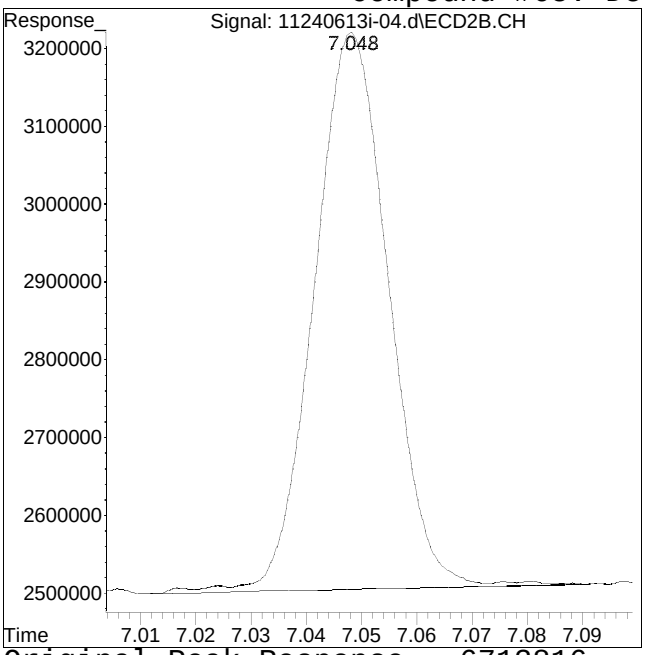
Manual Peak Response = 8133370 M4

M4 = Poor automated baseline construction.

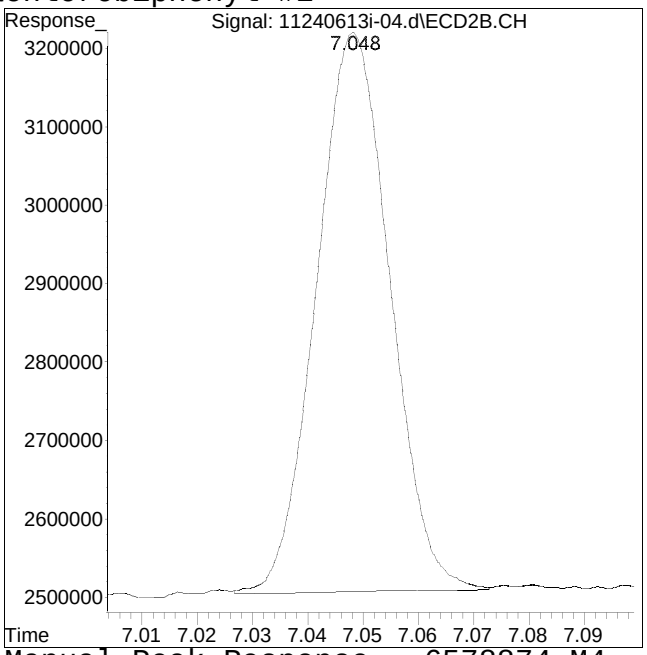
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-04.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:20 Instrument : Pest 11
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/14/2024 1:49 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 6713816



Manual Peak Response = 6578874 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:32
Operator : PEST11:kab/elj
Sample : il3pest,42e,,pp 11570 L0.002
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:44:47 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:44:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.425	1.453	150.8E6	108.8E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.789	1.950	13832024	10790950	2.098	2.168
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.20%#	4.34%#
27) s	Decachlorobi	6.466	7.051	15605268	12108831	2.461	2.661M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.92%#	5.32%#
	Target Compounds						
3) t	Hexachlorobe	2.019	2.285	16735369	12876346	2.258	2.328
4) t	alpha-BHC	2.124	2.384	16806447	12991436	1.798	1.859
5) t	gamma-BHC (l	2.341	2.681	16561938	12884534	1.889	1.978
6) t	beta-BHC	2.399	2.748	9239890	7134358	2.296	2.302
7) t	delta-BHC	2.536	3.024	15936909	12424012	1.835	1.904
8) t	Heptachlor	2.709	3.093	18681196	14148097	2.068	2.134
9) t	Aldrin	2.967	3.423	16289257	12283197	1.958	2.021
10) t	Alachlor	3.094	3.300	3064262	2455171	2.327	2.624
11) t	Chlorpyrifos	3.187	3.665	11458508	9037632	2.583	2.589
12) t	Heptachlor E	3.543	4.056	17202270	13082880	2.163	2.205
13) t	gamma-Chlord	3.670	4.277	15634174	11680756	2.122M4	2.167M4
14) t	alpha-Chlord	3.811	4.440	17771794	13338932	2.139	2.212
15) t	4,4'-DDE	3.906	4.626	14984727	11217706	1.915	1.982
16) t	Endosulfan I	3.958	4.499	16387569	12185118	2.166	2.201
17) t	Dieldrin	4.226	4.781	15591822	11692500	2.023	2.099
18) t	Endrin	4.470	5.070	15725593	11821789	2.014	2.098M4
19) t	4,4'-DDD	4.562	5.184	12215299	9197180	1.942	2.012
20) t	Endosulfan I	4.695	5.263	15519977	11452228	2.184M4	2.250

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:32
Operator : PEST11:kab/elj
Sample : il3pest,42e,,pp 11570 L0.002
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:44:47 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:44:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t	4,4'-DDT	4.839	5.455	14807029	11107600	2.026	2.117
22) t	Endrin Aldeh	5.095	5.553	12743238	9850160	2.188M4	2.320
23) t	Methoxychlor	5.299	6.009	9937192	7280007	2.413	2.436M4
24) t	Mirex	5.370	6.154	16578452	11792227	2.516	2.659
25) t	Endosulfan S	5.475	5.778	15856540	11476170	2.282	2.340
26) t	Endrin Keton	5.696	6.186	16253076	12387136	2.194	2.298
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

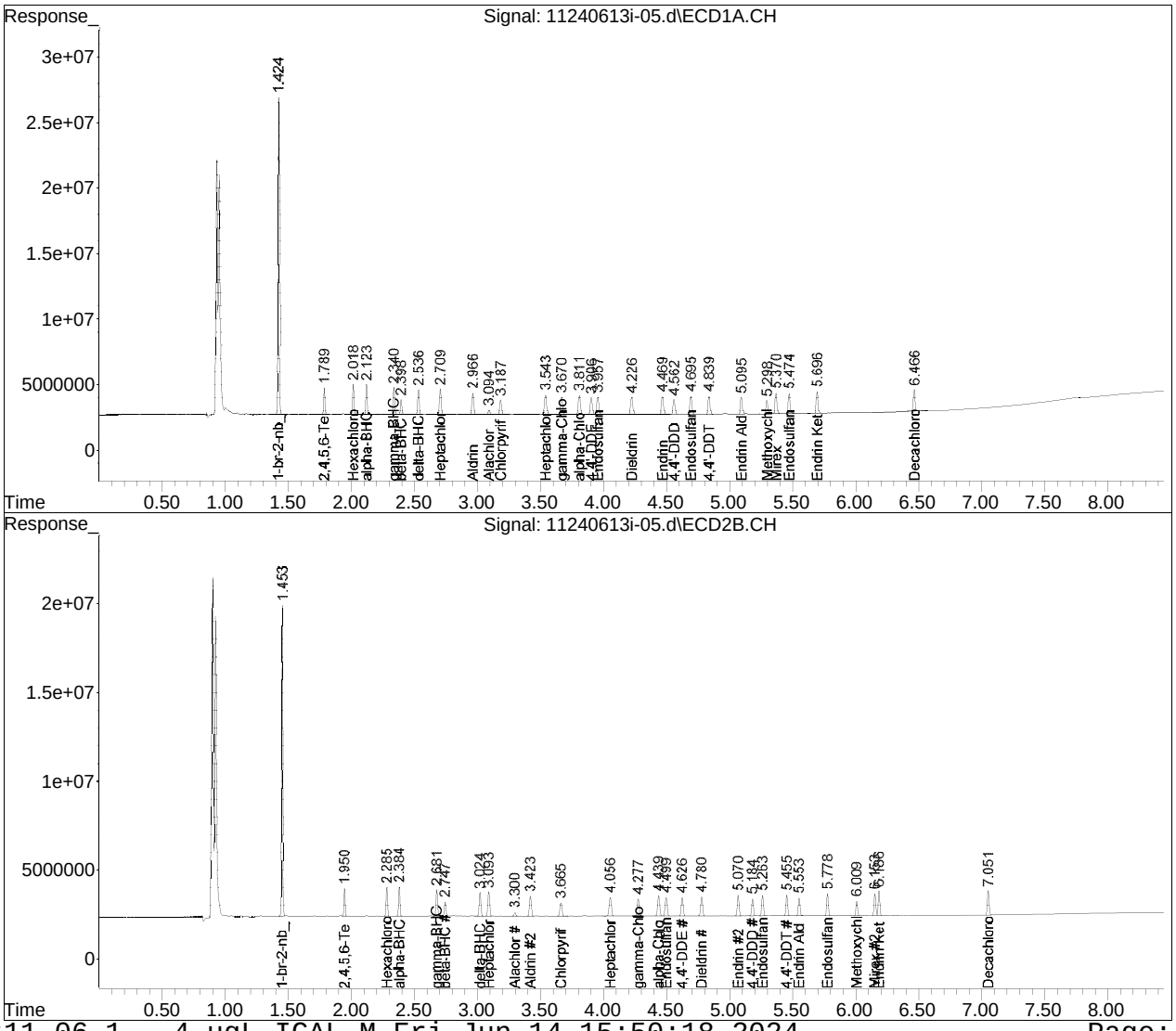
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:32
Operator : PEST11:kab/elj
Sample : il3pest,42e,,pp 11570 L0.002
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:44:47 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:44:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

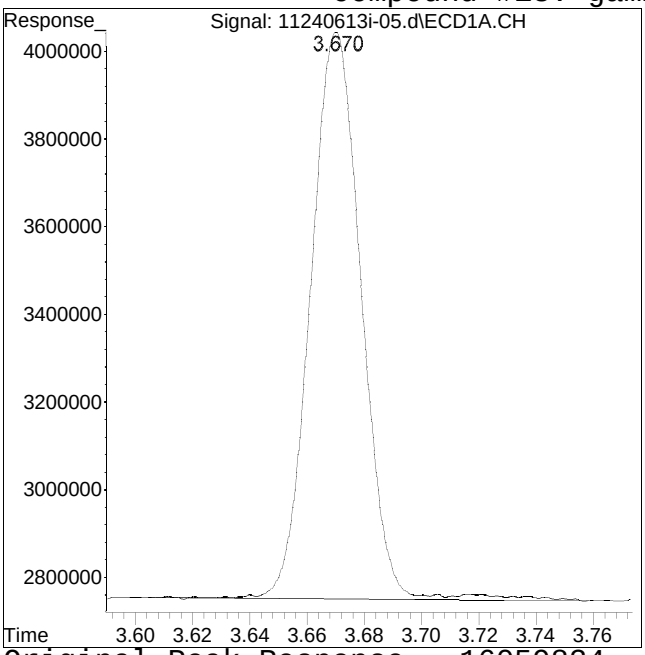


Manual Integration Report

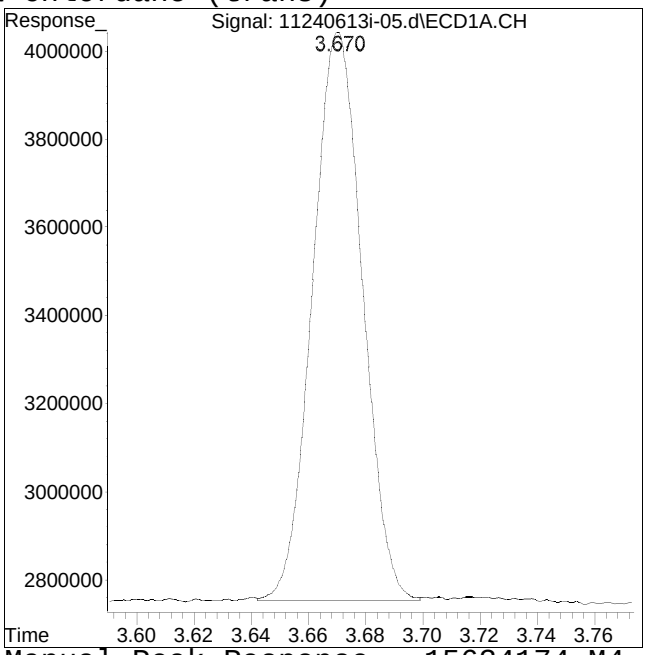
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-05.d
Date Inj'd : 6/13/2024 14:32
Sample : il3pest,42e,,pp 11570 L0.0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:44 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 16059834



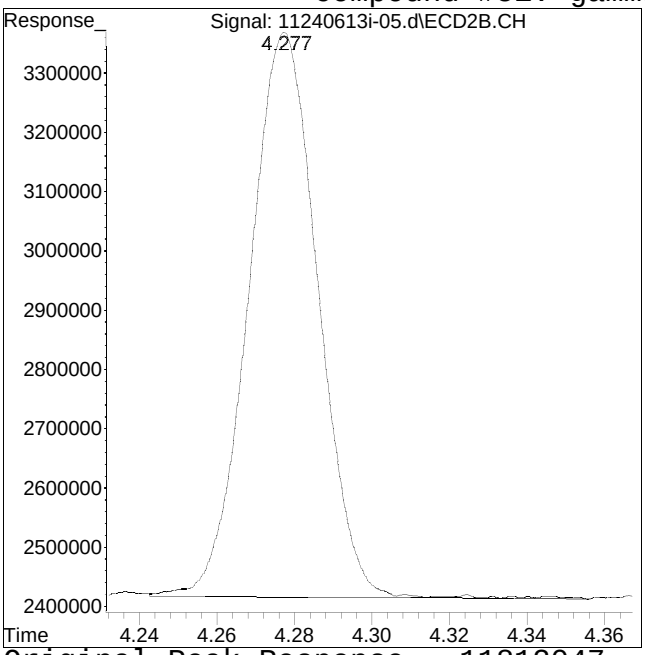
Manual Peak Response = 15634174 M4

M4 = Poor automated baseline construction.

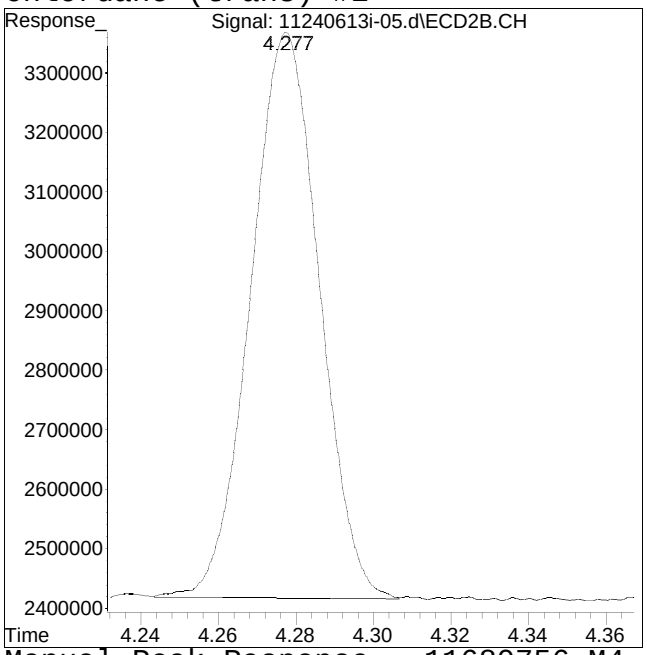
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-05.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:32 Instrument : Pest 11
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/14/2024 1:44 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 11812047



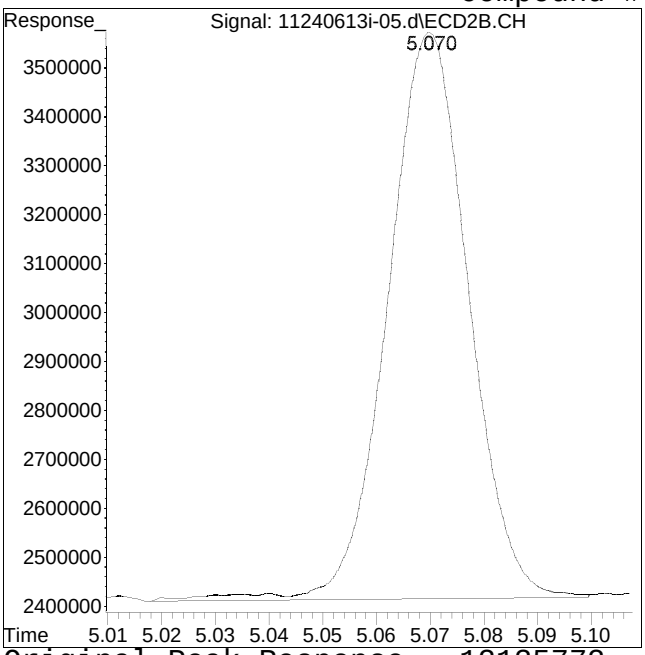
Manual Peak Response = 11680756 M4

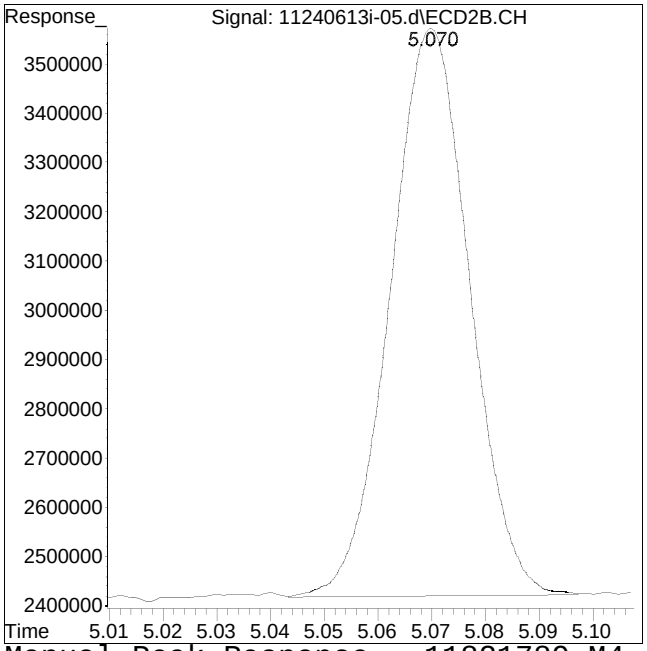
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-05.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:32 Instrument : Pest 11
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/14/2024 1:44 pm

Compound #56: Endrin #2





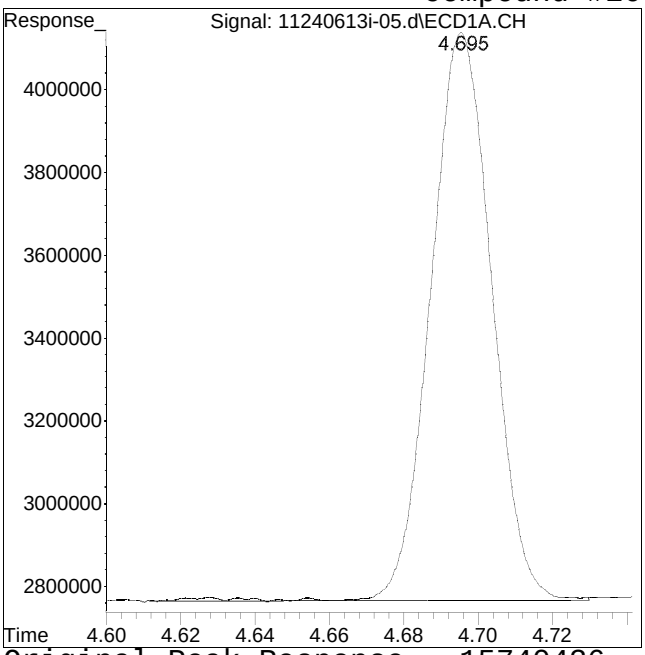
Original Peak Response = 12135772 Manual Peak Response = 11821789 M4
M4 = Poor automated baseline construction.

Manual Integration Report

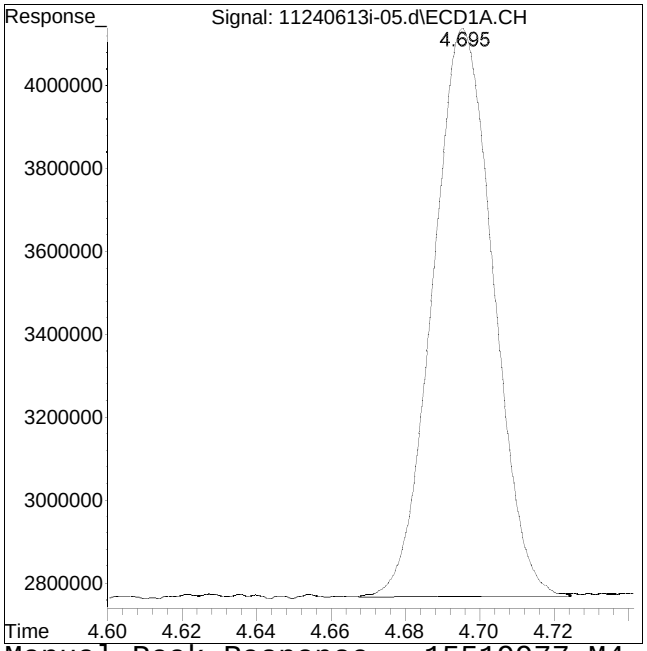
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-05.d
Date Inj'd : 6/13/2024 14:32
Sample : il3pest,42e,,pp 11570 L0.0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:44 pm

Compound #20: Endosulfan II



Original Peak Response = 15740436



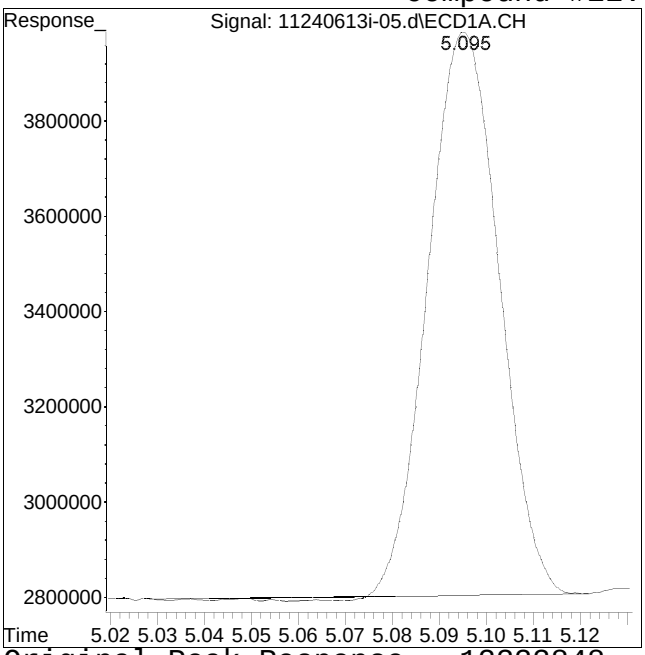
Manual Peak Response = 15519977 M4

M4 = Poor automated baseline construction.

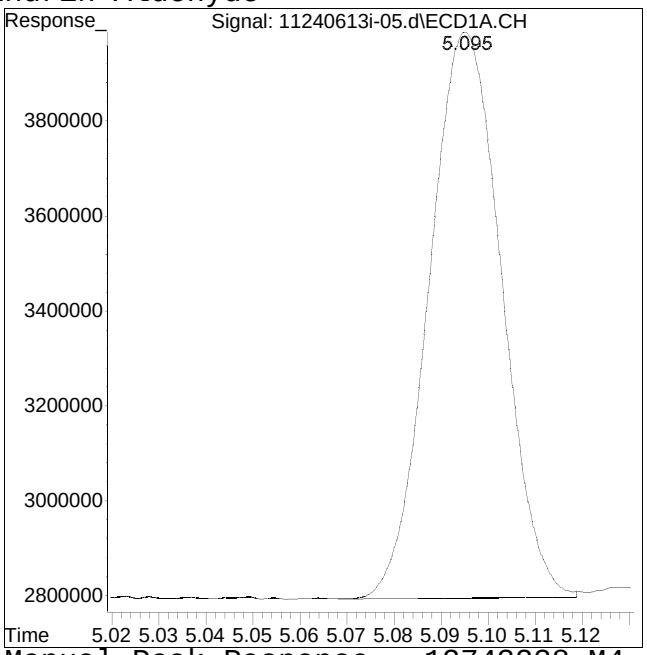
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-05.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:32 Instrument : Pest 11
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/14/2024 1:44 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 12333848



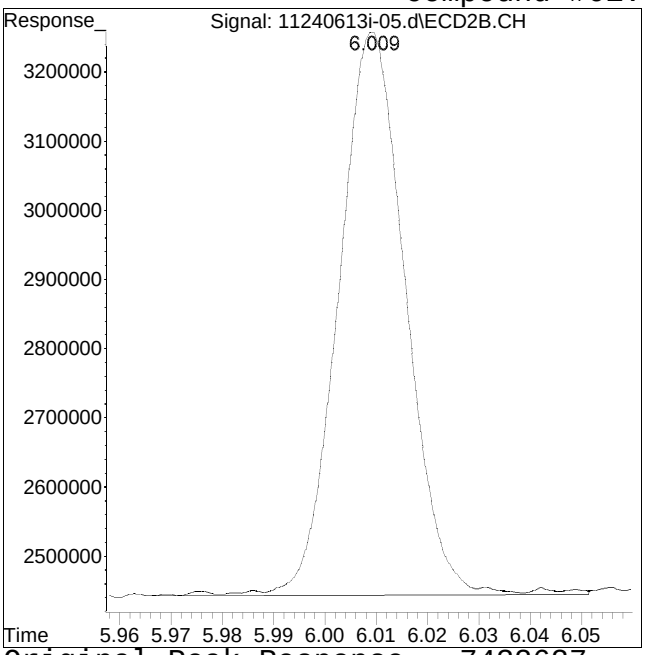
Manual Peak Response = 12743238 M4

M4 = Poor automated baseline construction.

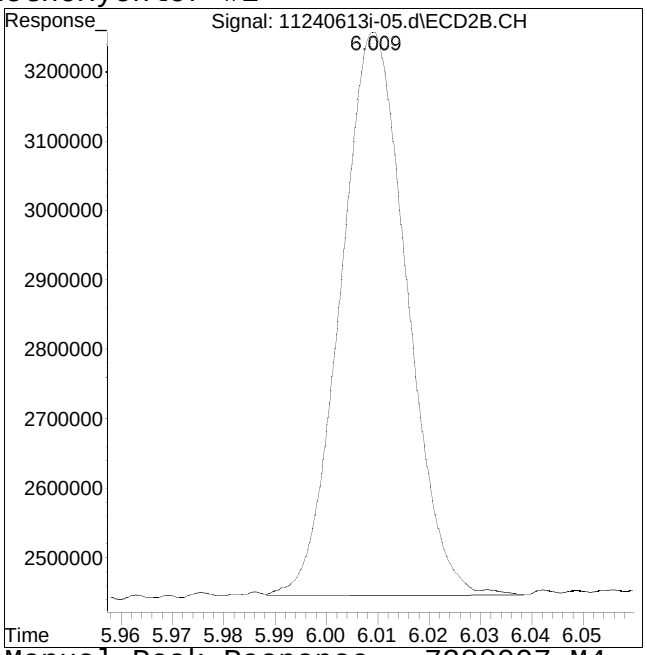
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-05.d
Date Inj'd : 6/13/2024 14:32
Sample : il3pest,42e,,pp 11570 L0.0
Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:44 pm

Compound #61: Methoxychlor #2



Original Peak Response = 7432627



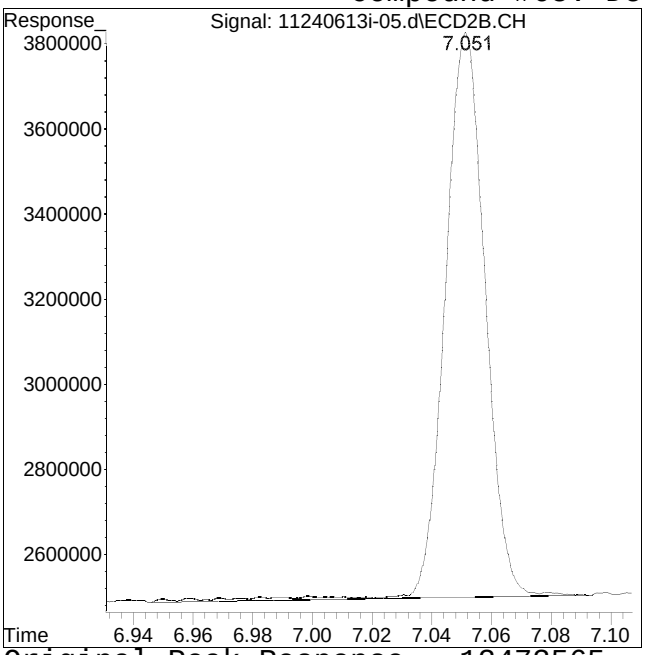
Manual Peak Response = 7280007 M4

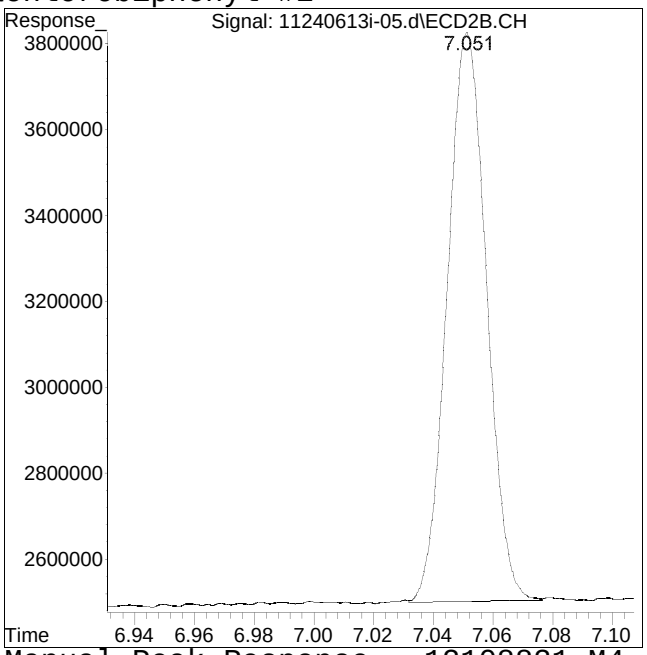
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-05.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:32 Instrument : Pest 11
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/14/2024 1:44 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 12473565 Manual Peak Response = 12108831 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:44
Operator : PEST11:kab/elj
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:40:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.426	1.454	152.3E6	107.4E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.791	1.952	21027220	15816878	3.186	3.258
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.37%#	6.52%#
27) s	Decachlorobi	6.466	7.045	22965051	17263921	3.707	4.029
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.41%#	8.06%#
	Target Compounds						
3) t	Hexachlorobe	2.021	2.286	25029810	18591497	3.409	3.482
4) t	alpha-BHC	2.126	2.386	25798912	19137654	2.692	2.739
5) t	gamma-BHC (l	2.343	2.683	25463559	18893511	2.856	2.927
6) t	beta-BHC	2.401	2.749	13868505	10601908	3.492	3.556
7) t	delta-BHC	2.538	3.026	24199761	18350568	2.722	2.824
8) t	Heptachlor	2.711	3.094	28247132	20469736	3.113	3.149
9) t	Aldrin	2.969	3.425	24475521	18127543	2.900	3.023
10) t	Alachlor	3.096	3.301	4795523	3456764	3.731	3.902
11) t	Chlorpyrifos	3.190	3.666	16935848	13124890	3.952	3.986
12) t	Heptachlor E	3.545	4.057	25729790	18882029	3.240	3.262
13) t	gamma-Chlord	3.673	4.278	23055842	16966010	3.115M4	3.221M4
14) t	alpha-Chlord	3.814	4.441	26264549	19372883	3.152	3.299
15) t	4,4'-DDE	3.909	4.627	23013889	16572064	2.898	2.958
16) t	Endosulfan I	3.960	4.500	24427349	17895252	3.233	3.324
17) t	Dieldrin	4.229	4.781	23340219	17004271	2.998	3.107M4
18) t	Endrin	4.472	5.071	23641920	17157451	2.997	3.098M4
19) t	4,4'-DDD	4.564	5.185	18347320	13609432	2.871	3.018
20) t	Endosulfan I	4.697	5.264	23109192	16692144	3.259M4	3.381

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:44
Operator : PEST11:kab/elj
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:40:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t	4,4'-DDT	4.841	5.456	21924153	16297576	2.965M4	3.171
22) t	Endrin Aldeh	5.097	5.554	18937275	14103600	3.259M4	3.433
23) t	Methoxychlor	5.301	6.010	14520496	10550304	3.589	3.692M4
24) t	Mirex	5.372	6.154	24158224	16907830	3.762	4.054
25) t	Endosulfan S	5.476	5.779	23199160	16756288	3.364	3.550
26) t	Endrin Keton	5.698	6.187	24238915	18095551	3.284	3.477
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:44
Operator : PEST11:kab/elj
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:40:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

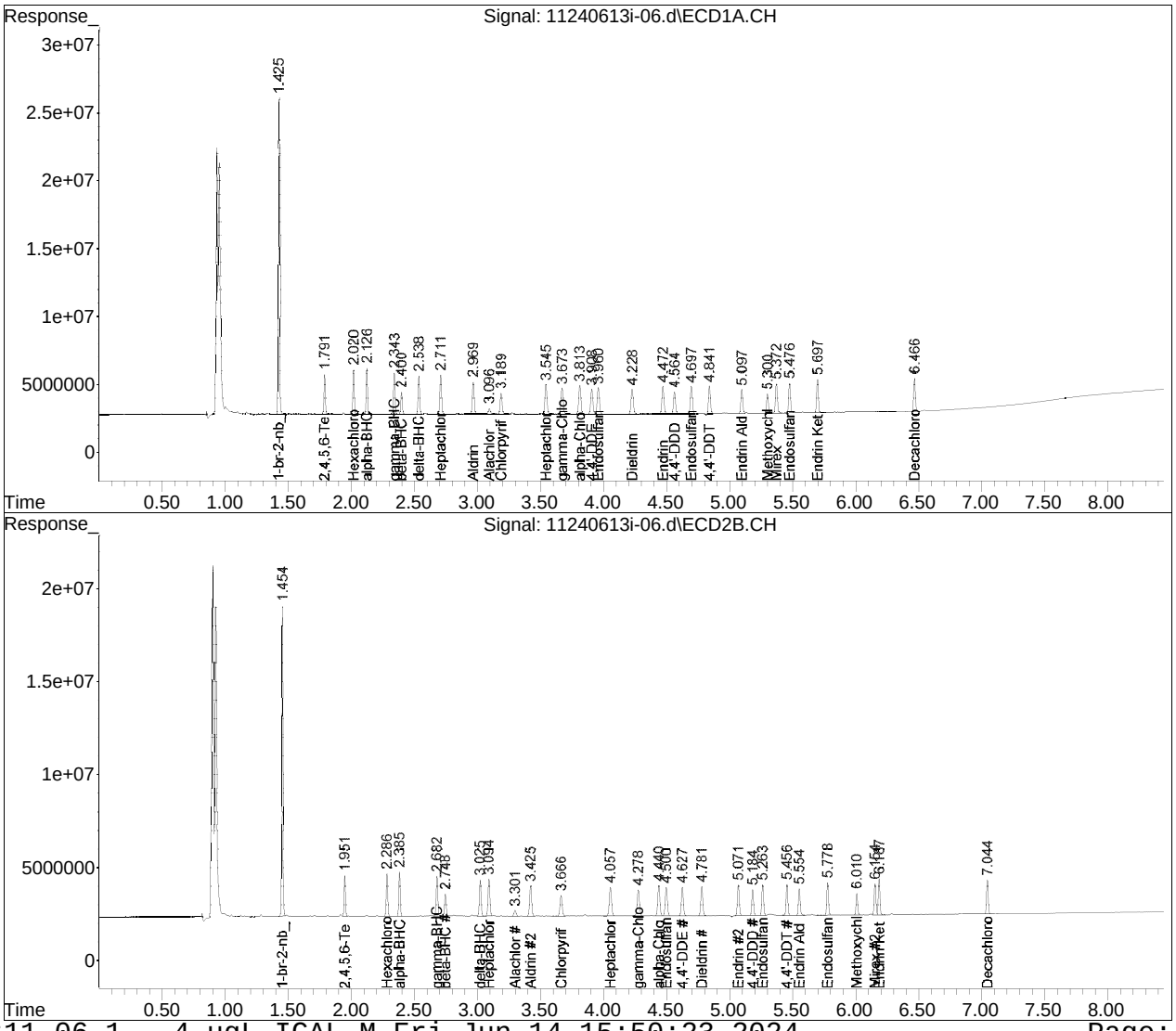
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:44
Operator : PEST11:kab/elj
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:40:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

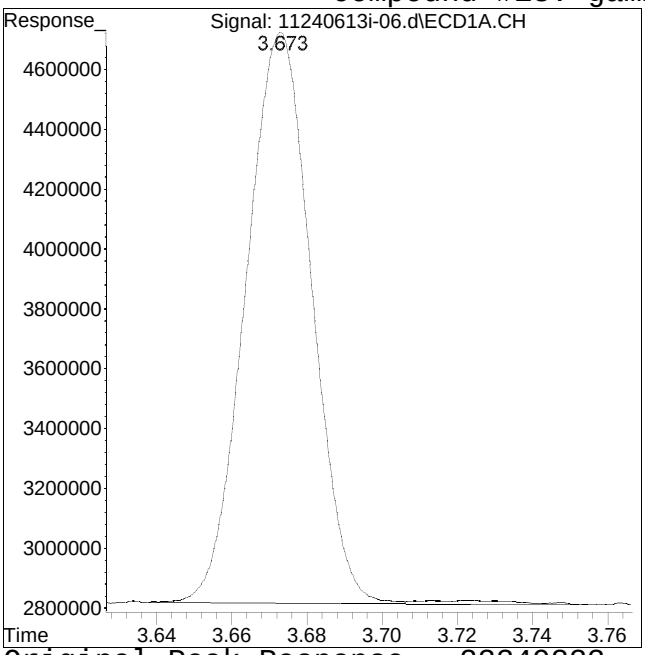


Manual Integration Report

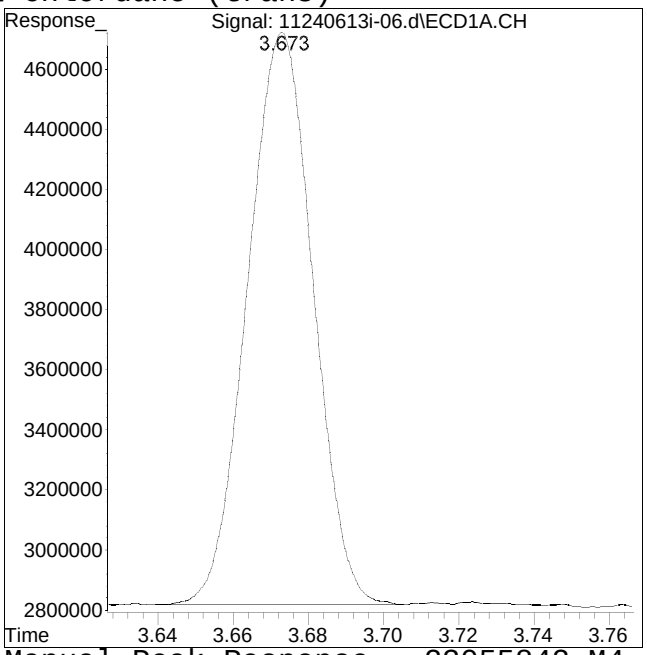
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-06.d
Date Inj'd : 6/13/2024 14:44
Sample : il4pest,42e,,pp 11569 L0.0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:40 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 23349233



Manual Peak Response = 23055842 M4

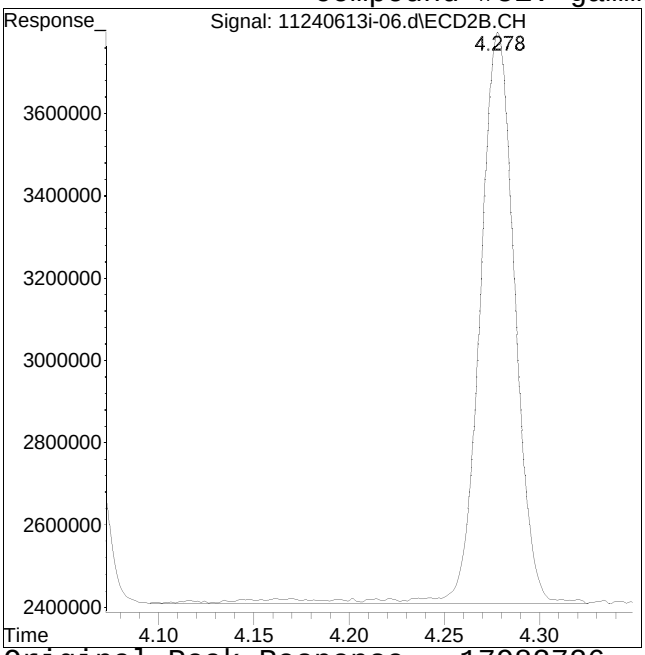
M4 = Poor automated baseline construction.

Manual Integration Report

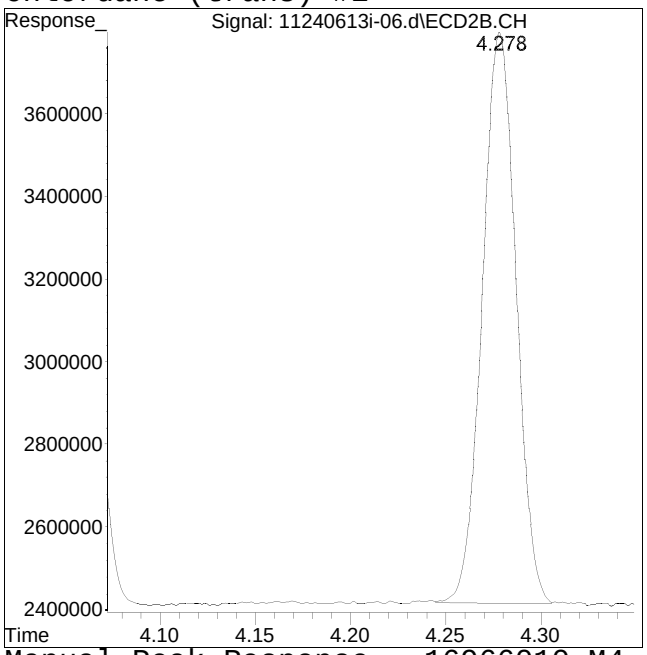
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-06.d
Date Inj'd : 6/13/2024 14:44
Sample : il4pest,42e,,pp 11569 L0.0

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 1:40 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 17982726



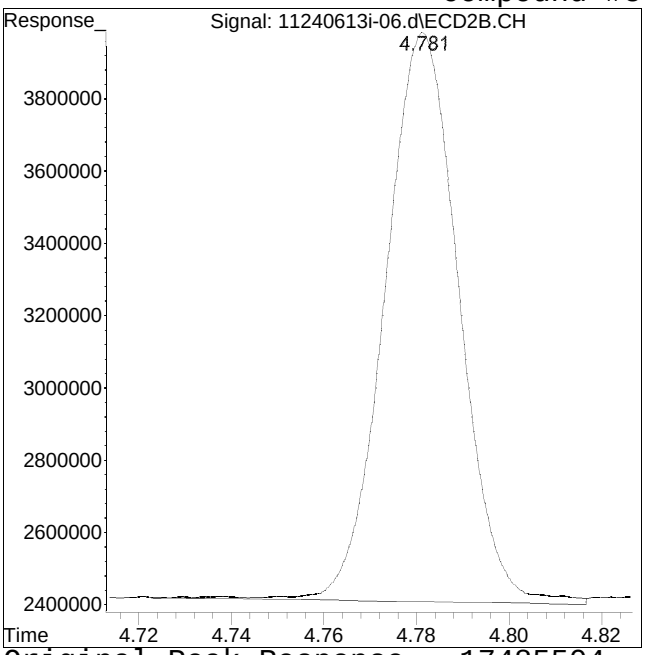
Manual Peak Response = 16966010 M4

M4 = Poor automated baseline construction.

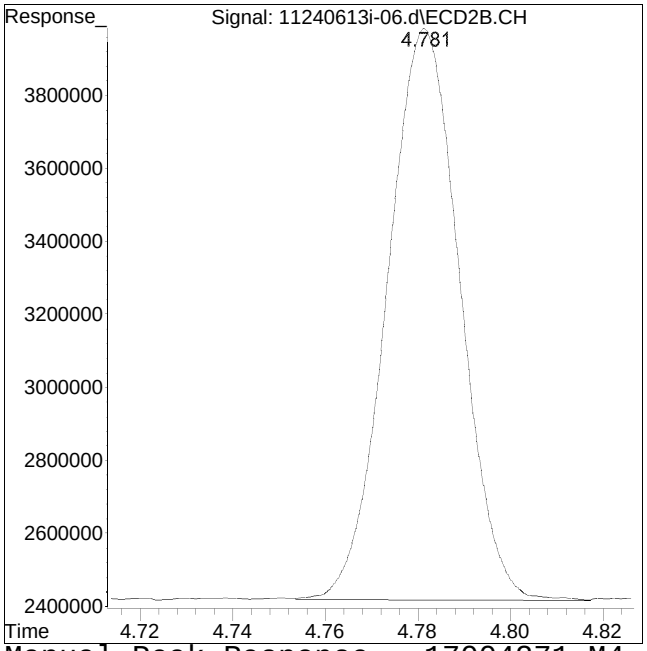
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-06.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:44 Instrument : Pest 11
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/14/2024 1:40 pm

Compound #55: Dieldrin #2



Original Peak Response = 17485504



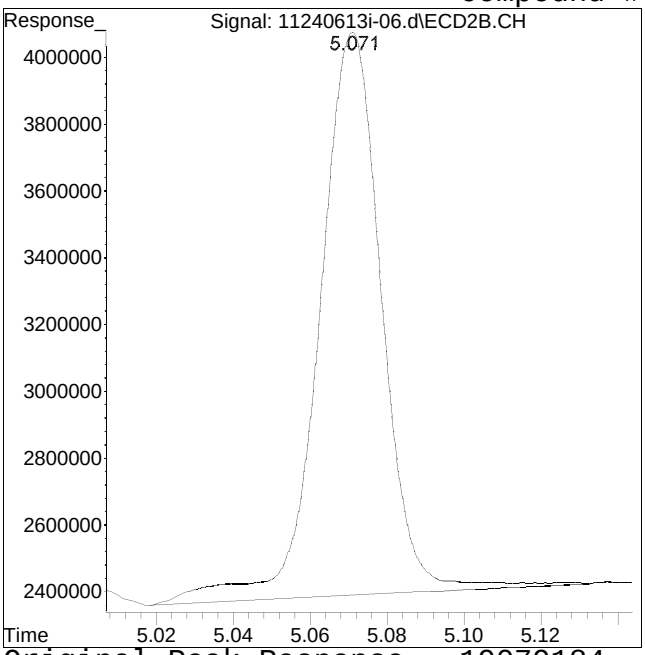
Manual Peak Response = 17004271 M4

M4 = Poor automated baseline construction.

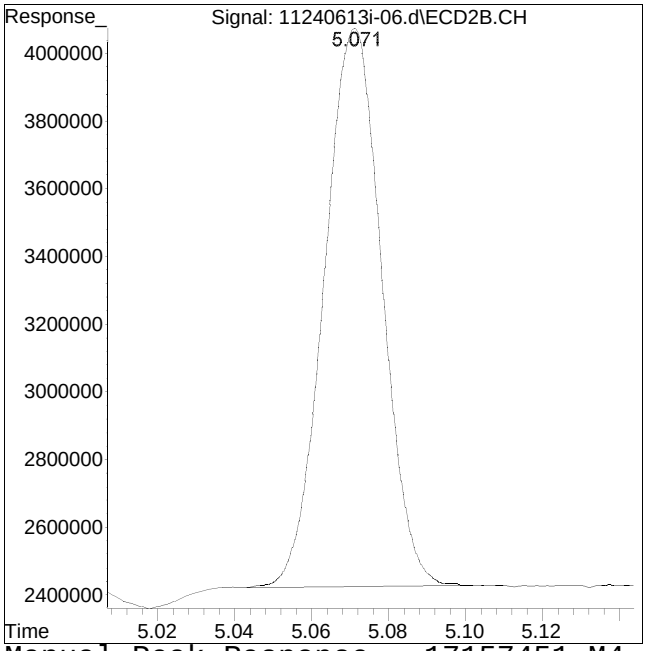
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-06.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:44 Instrument : Pest 11
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/14/2024 1:40 pm

Compound #56: Endrin #2



Original Peak Response = 19079184



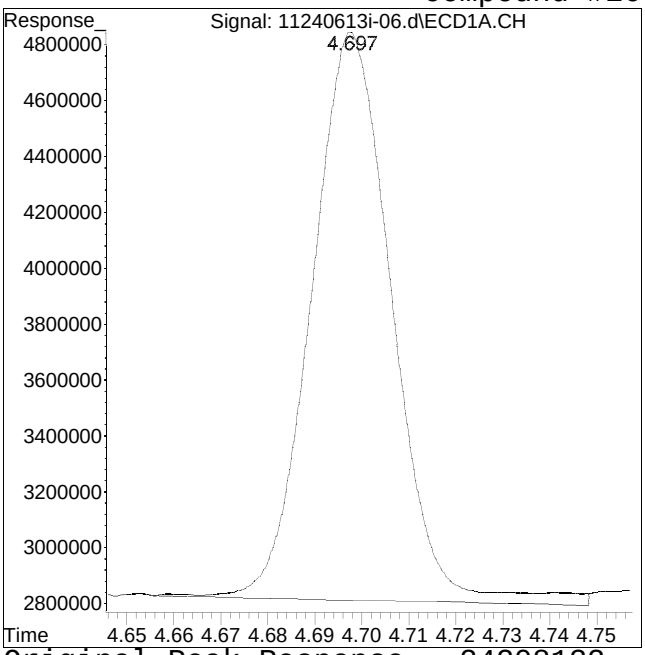
Manual Peak Response = 17157451 M4

M4 = Poor automated baseline construction.

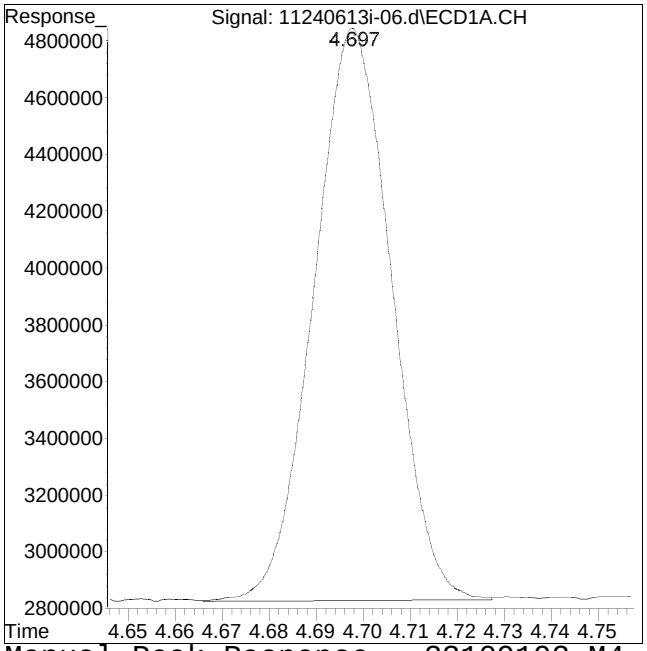
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-06.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:44 Instrument : Pest 11
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/14/2024 1:40 pm

Compound #20: Endosulfan II



Original Peak Response = 24208132



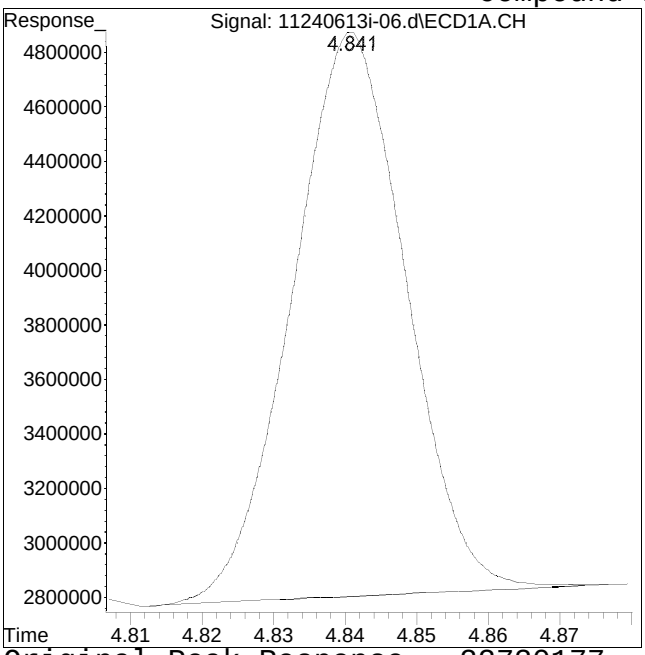
Manual Peak Response = 23109192 M4

M4 = Poor automated baseline construction.

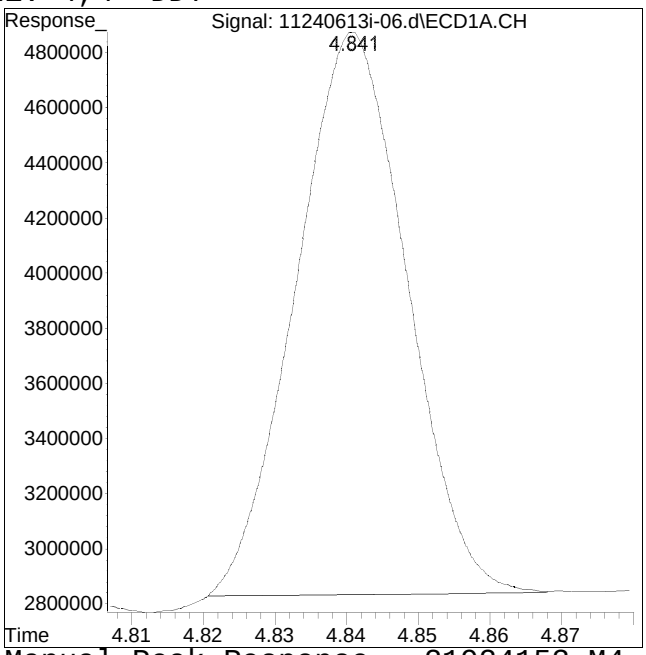
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-06.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:44 Instrument : Pest 11
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/14/2024 1:40 pm

Compound #21: 4,4'-DDT



Original Peak Response = 22730177

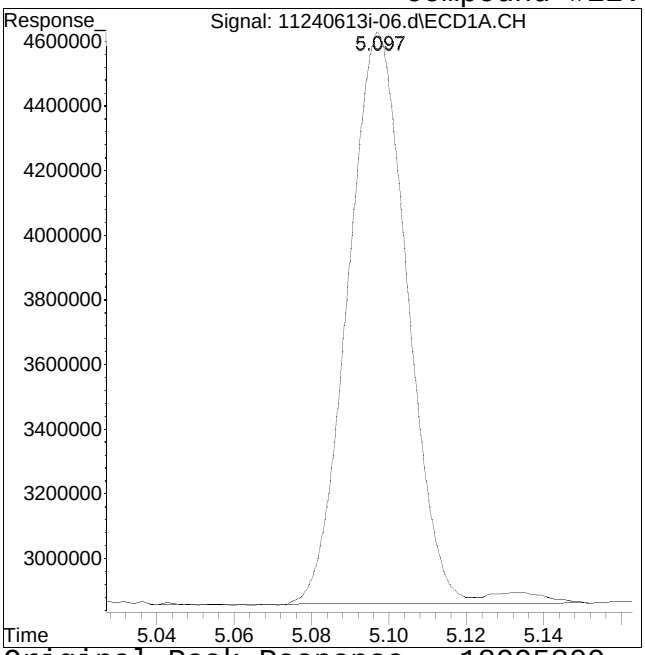


Manual Peak Response = 21924153 M4
M4 = Poor automated baseline construction.

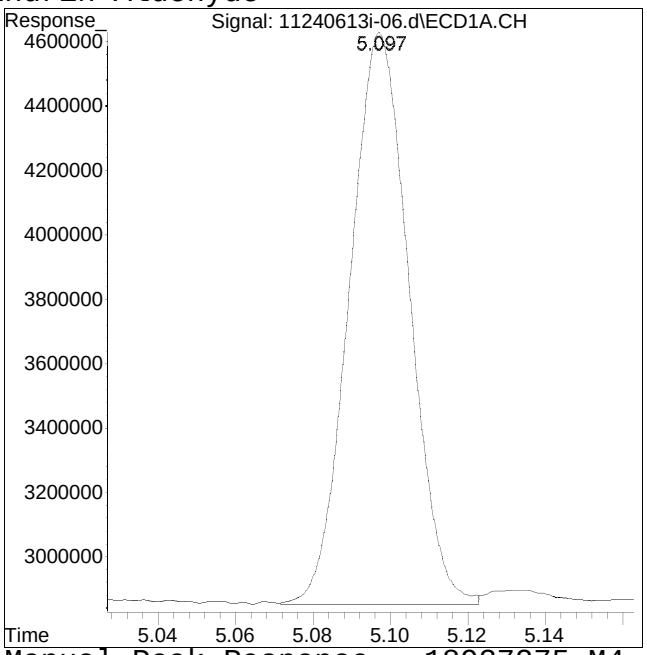
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-06.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:44 Instrument : Pest 11
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/14/2024 1:40 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 18995300



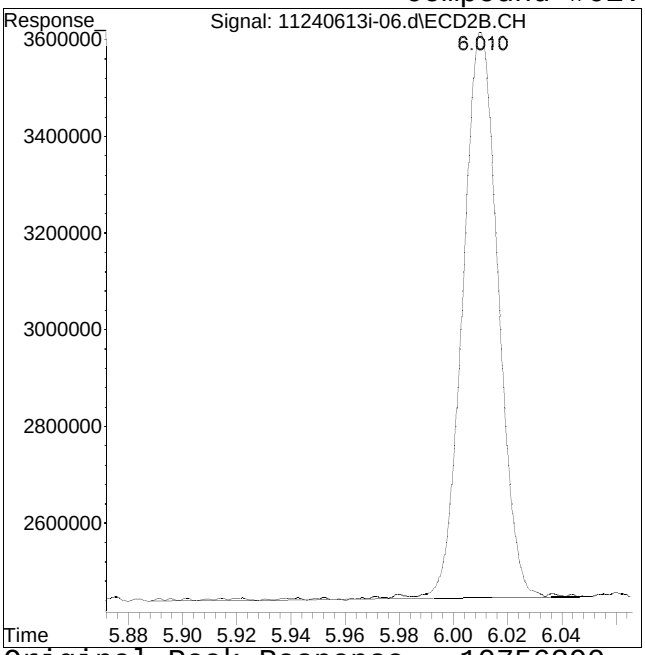
Manual Peak Response = 18937275 M4

M4 = Poor automated baseline construction.

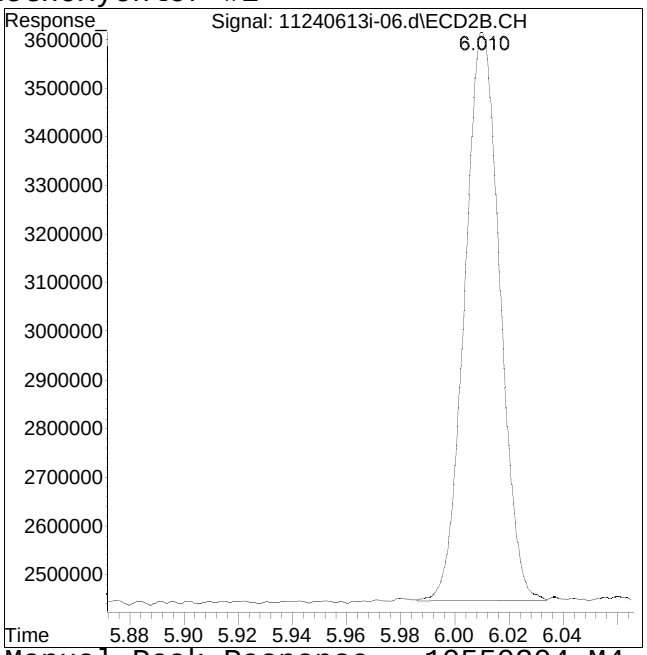
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-06.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:44 Instrument : Pest 11
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/14/2024 1:40 pm

Compound #61: Methoxychlor #2



Original Peak Response = 10756390



Manual Peak Response = 10550304 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:56
Operator : PEST11:kab/elj
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:35:38 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:35:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.426	1.455	153.2E6	106.3E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.792	1.952	28803684	21106432	4.413	4.482
	Spiked Amount 50.000	Range 30 - 150		Recovery =		8.83%#	8.96%#
27) s	Decachlorobi	6.466	7.042	30535580	22436410	5.129	5.659
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.26%#	11.32%#
	Target Compounds						
3) t	Hexachlorobe	2.021	2.287	34003449	24680448	4.747	4.835
4) t	alpha-BHC	2.126	2.386	35903688	26120451	3.673	3.737
5) t	gamma-BHC (l	2.343	2.683	35106409	25540989	3.896	3.999
6) t	beta-BHC	2.401	2.749	18697978	14107562	4.844	4.978
7) t	delta-BHC	2.539	3.026	33615346	24721703	3.714	3.817
8) t	Heptachlor	2.712	3.095	38541315	27347344	4.269	4.306
9) t	Aldrin	2.969	3.425	34409336	24367304	4.062	4.130
10) t	Alachlor	3.097	3.302	6553011	4606448	5.352	5.607
11) t	Chlorpyrifos	3.190	3.666	22880556	17356051	5.677M3	5.706M4
12) t	Heptachlor E	3.546	4.058	35245530	25866675	4.504	4.637
13) t	gamma-Chlord	3.674	4.279	31715860	22746459	4.315M4	4.446M4
14) t	alpha-Chlord	3.815	4.441	36173966	25753660	4.384	4.531
15) t	4,4'-DDE	3.910	4.628	31066548	22329965	3.866	4.035
16) t	Endosulfan I	3.961	4.501	33360108	23792799	4.474	4.573
17) t	Dieldrin	4.230	4.782	32046230	22887493	4.110	4.275
18) t	Endrin	4.473	5.071	32617285	23141351	4.132M4	4.271M4
19) t	4,4'-DDD	4.565	5.185	25432936	18457705	3.946	4.166
20) t	Endosulfan I	4.699	5.265	31404364	22348871	4.492	4.710

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:56
Operator : PEST11:kab/elj
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:35:38 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:35:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t	4,4'-DDT	4.842	5.457	30039830	21839345	4.045	4.360
22) t	Endrin Aldeh	5.098	5.554	25993273	18566320	4.547M3	4.701
23) t	Methoxychlor	5.301	6.011	19862189	14101561	5.104	5.247M4
24) t	Mirex	5.373	6.155	32694680	21794883	5.343	5.644
25) t	Endosulfan S	5.477	5.779	31713400	21877669	4.704	4.850
26) t	Endrin Keton	5.699	6.187	33157698	23713458	4.571	4.749
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

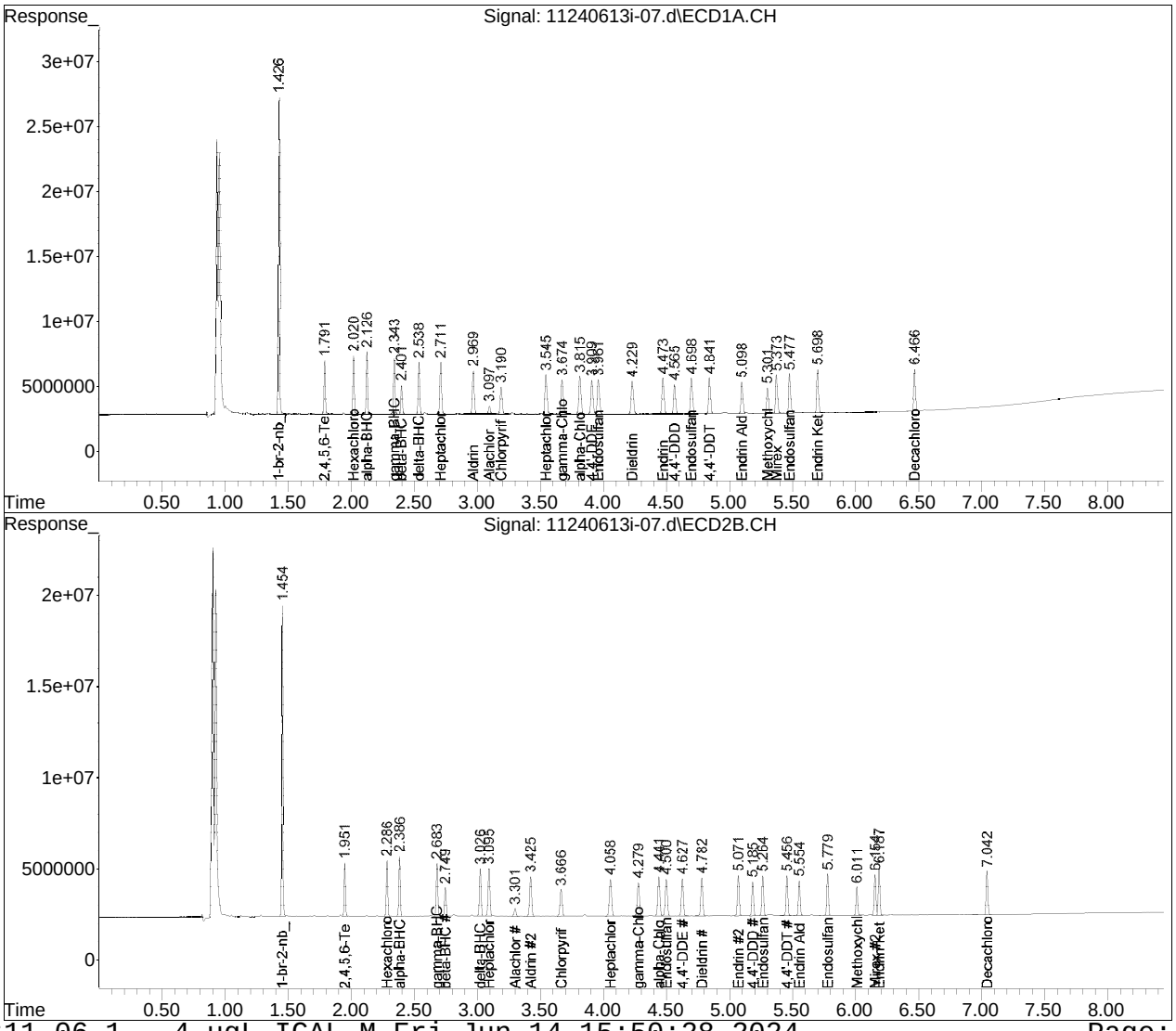
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 14:56
Operator : PEST11:kab/elj
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:35:38 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:35:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

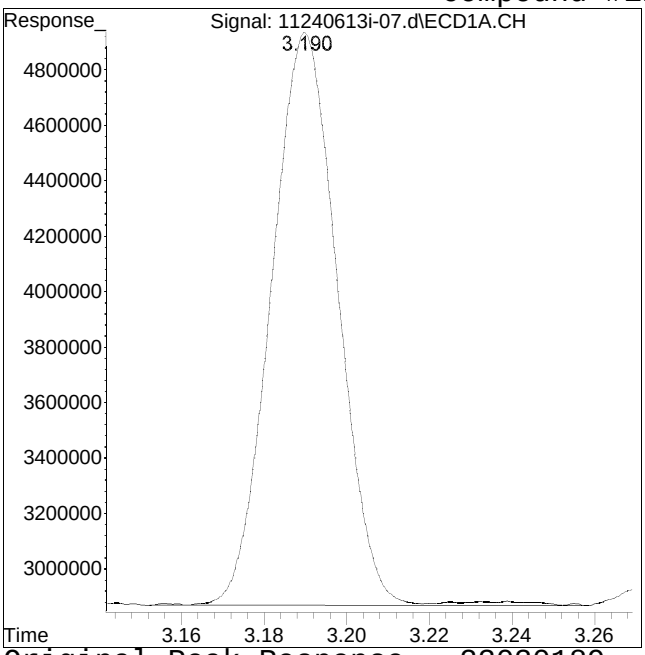
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

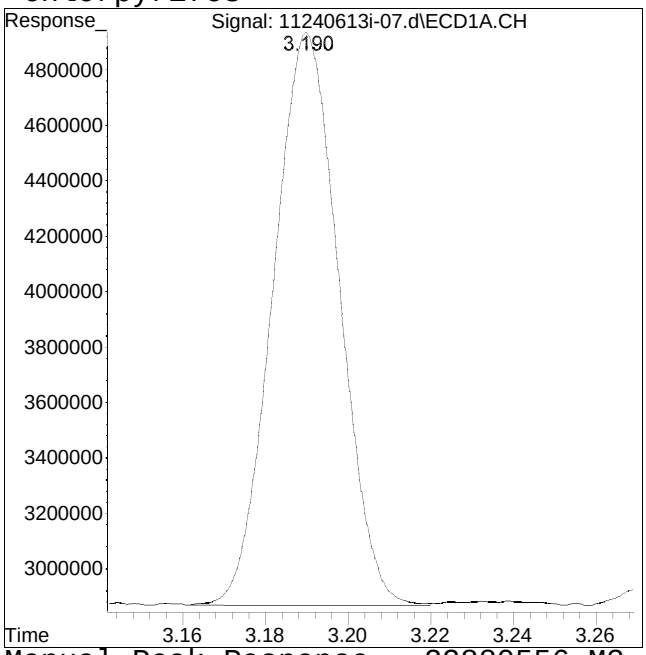


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #11: Chlorpyrifos



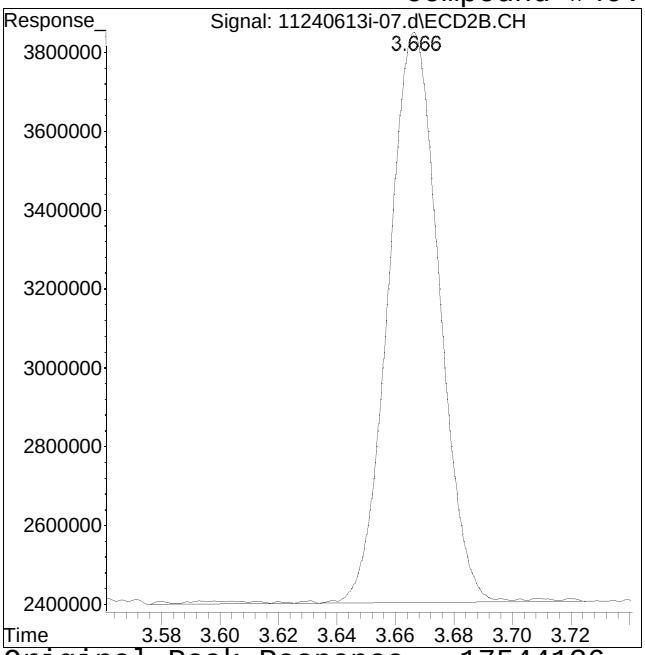


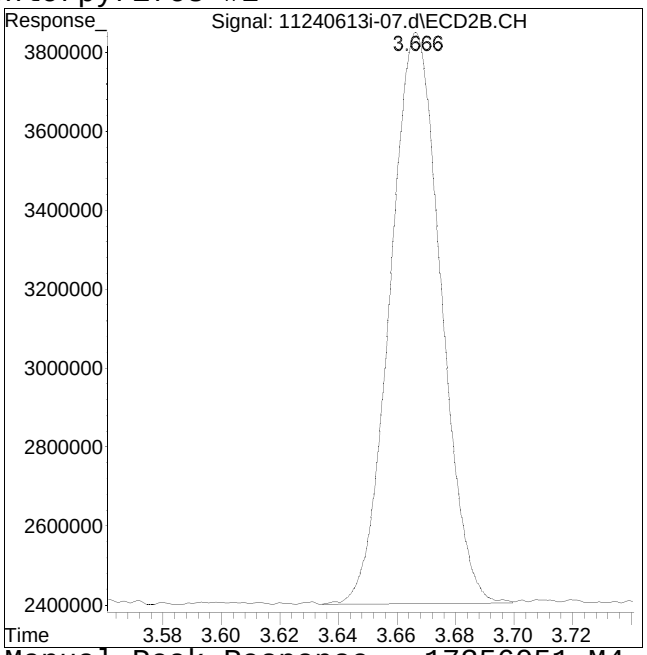
Original Peak Response = 23030189 Manual Peak Response = 22880556 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #49: Chlorpyrifos #2



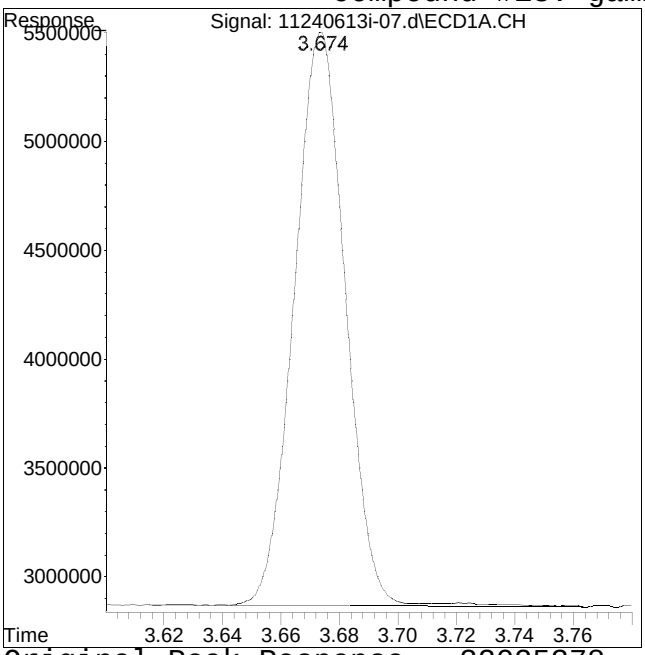


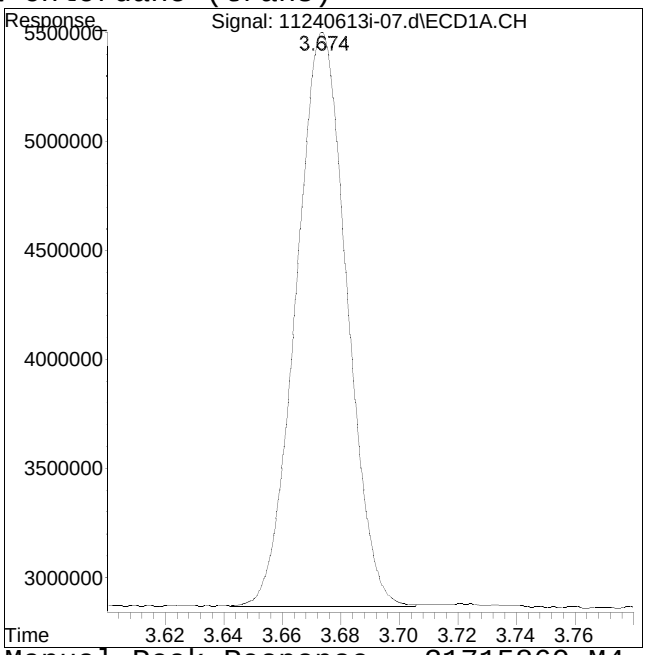
Original Peak Response = 17544136 Manual Peak Response = 17356051 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #13: gamma-Chlordane (trans)



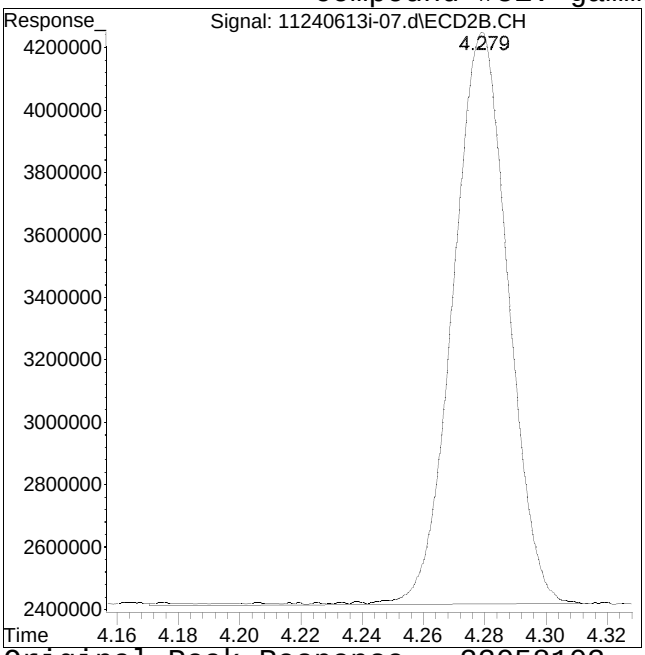


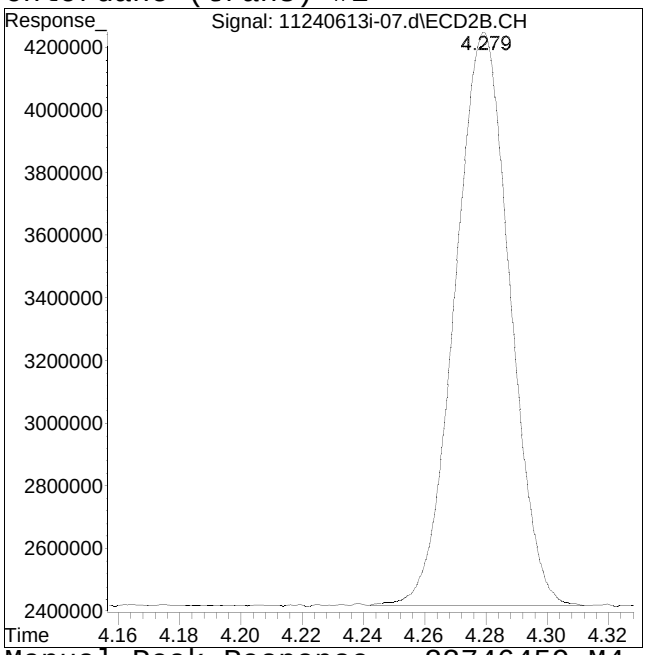
Original Peak Response = 32025378 Manual Peak Response = 31715860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #51: gamma-Chlordane (trans) #2



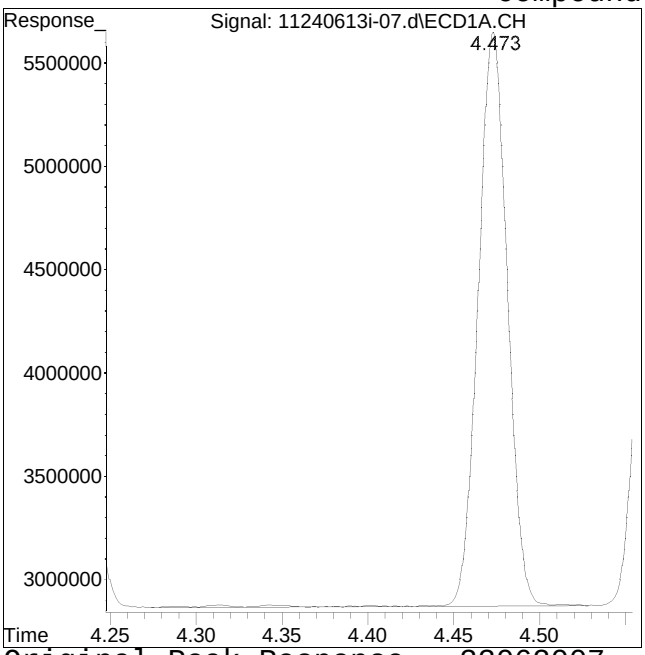


Original Peak Response = 23058103 Manual Peak Response = 22746459 M4
M4 = Poor automated baseline construction.

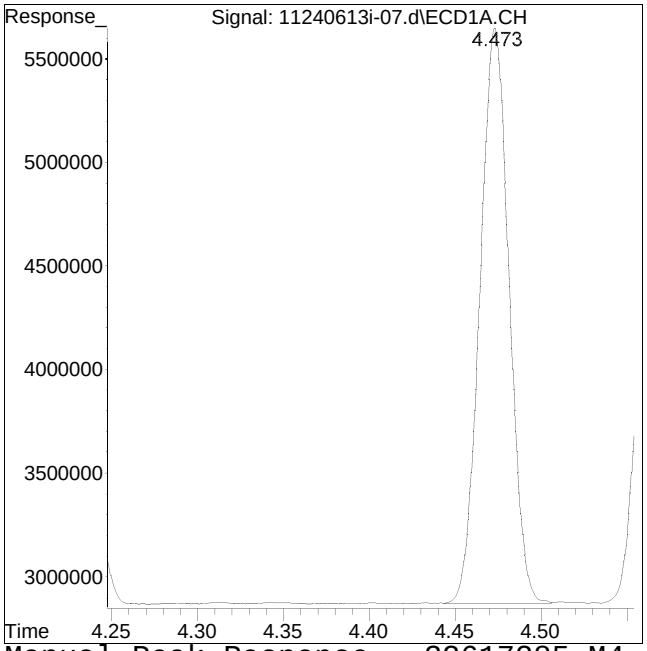
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #18: Endrin



Original Peak Response = 33062007



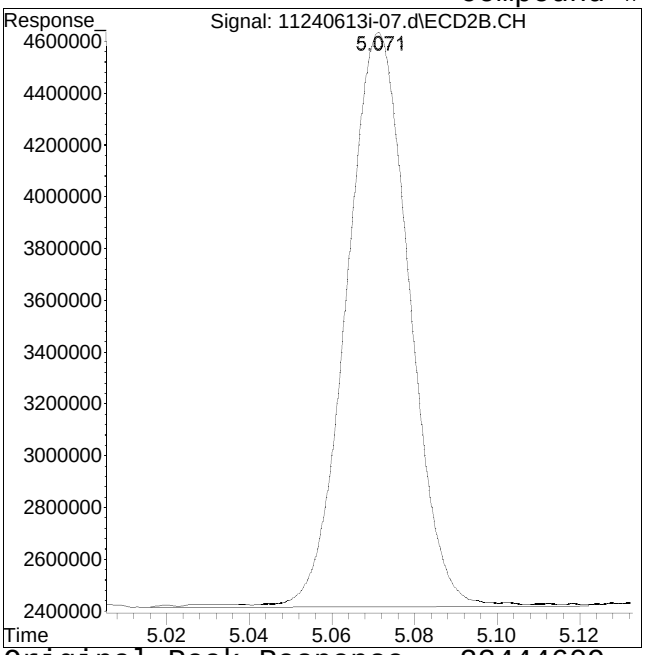
Manual Peak Response = 32617285 M4

M4 = Poor automated baseline construction.

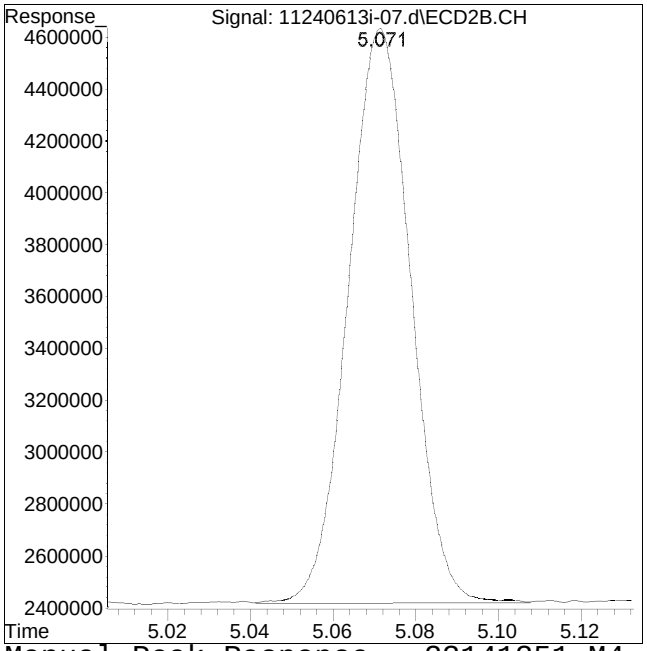
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #56: Endrin #2



Original Peak Response = 23444609



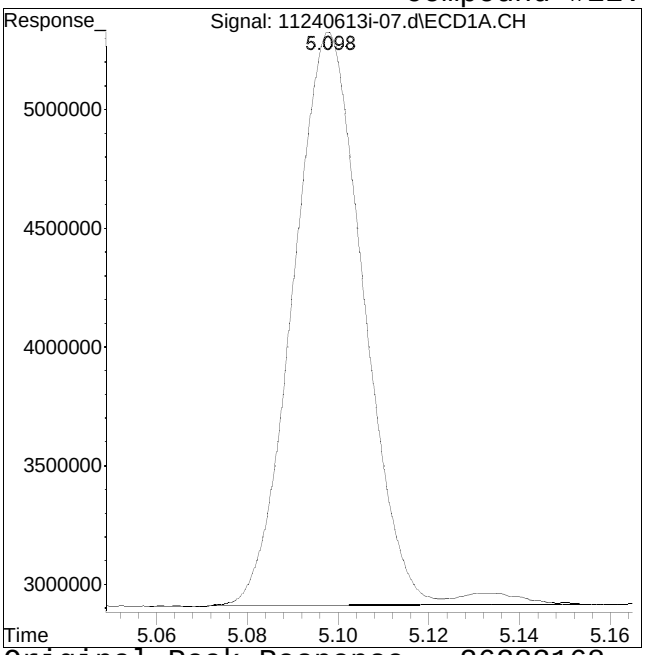
Manual Peak Response = 23141351 M4

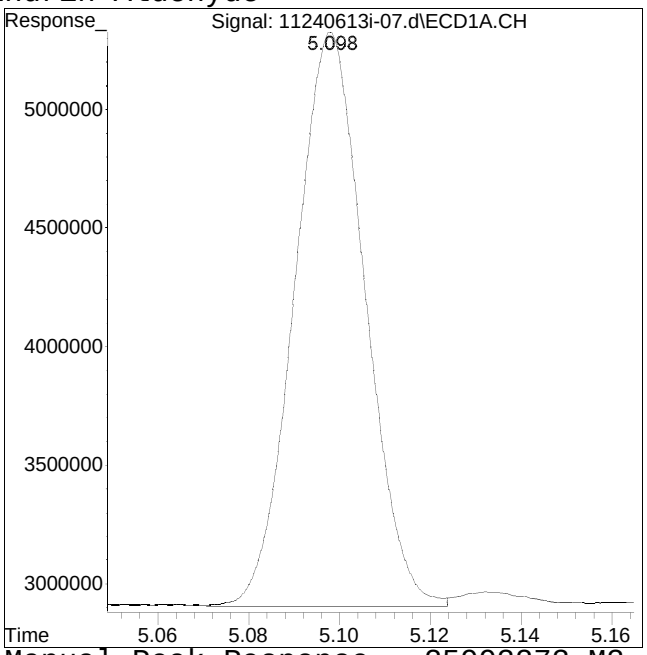
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #22: Endrin Aldehyde



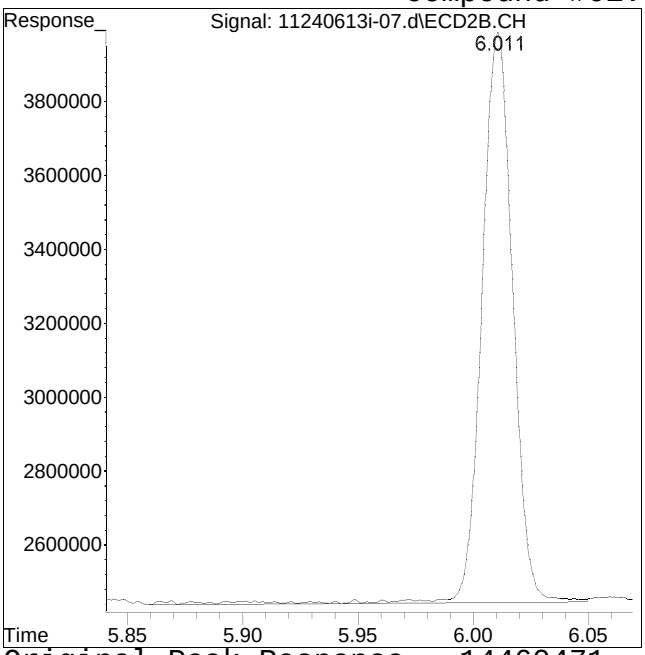


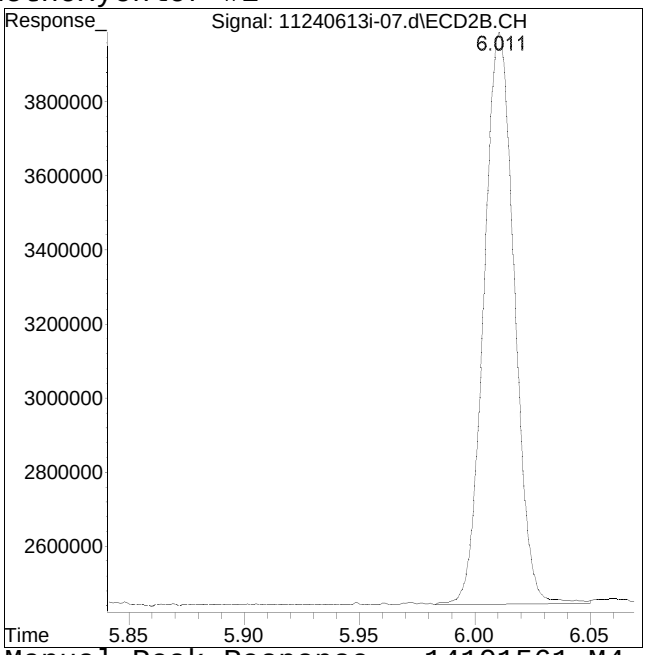
Original Peak Response = 26233168 Manual Peak Response = 25993273 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-07.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 14:56 Instrument : Pest 11
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/14/2024 1:35 pm

Compound #61: Methoxychlor #2





Original Peak Response = 14460471 Manual Peak Response = 14101561 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:08
Operator : PEST11:kab/elj
Sample : il7pest,42e,,pp 11567 L0.01
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:33:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:33:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.427	1.454	156.8E6	106.9E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.793	1.952	68554443	49031505	10.332	10.437
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.66%#	20.87%#
27) s	Decachlorobi	6.467	7.043	69062749	47880897	11.729	12.631
	Spiked Amount 50.000	Range 30 - 150		Recovery =		23.46%#	25.26%#
	Target Compounds						
3) t	Hexachlorobe	2.022	2.287	79128340	55760694	11.013	11.091
4) t	alpha-BHC	2.128	2.386	91628193	64158624	8.972	8.923
5) t	gamma-BHC (l	2.345	2.684	87298969	61062302	9.345	9.383
6) t	beta-BHC	2.402	2.750	42937872	31493846	11.114	11.336
7) t	delta-BHC	2.540	3.027	85169216	60244022	9.014	9.069
8) t	Heptachlor	2.713	3.096	92721712	64758606	10.047	10.165
9) t	Aldrin	2.971	3.426	82846985	57741931	9.454	9.658
10) t	Alachlor	3.099	3.302	14893494	10640116	12.477	13.863
11) t	Chlorpyrifos	3.192	3.668	51309246	38188875	13.250	13.298
12) t	Heptachlor E	3.548	4.059	83653919	58879092	10.566	10.616
13) t	gamma-Chlord	3.675	4.280	75286683	52405784	10.013	10.222
14) t	alpha-Chlord	3.816	4.442	86066113	59443406	10.244	10.493
15) t	4,4'-DDE	3.911	4.629	76834629	53819254	9.193	9.582
16) t	Endosulfan I	3.963	4.502	79164081	54963391	10.475	10.629
17) t	Dieldrin	4.231	4.783	77488827	53832093	9.642	9.990
18) t	Endrin	4.475	5.072	79837110	54837088	9.856	10.069
19) t	4,4'-DDD	4.566	5.186	62530679	43404497	9.361	9.668
20) t	Endosulfan I	4.700	5.266	75367847	50918639	10.679	10.843
21) t	4,4'-DDT	4.843	5.458	73851769	50718136	9.650	10.075
22) t	Endrin Aldeh	5.100	5.556	60499828	42146848	10.431	10.765
23) t	Methoxychlor	5.303	6.011	45969637	31492581	12.007	12.143

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:08
Operator : PEST11:kab/elj
Sample : il7pest,42e,,pp 11567 L0.01
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:33:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:33:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	5.374	6.155	73095313	47196990	12.185	12.830
25) t	Endosulfan S	5.478	5.780	73960571	49409298	10.918	11.130
26) t	Endrin Keton	5.699	6.188	79035096	54428289	10.823	11.059
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

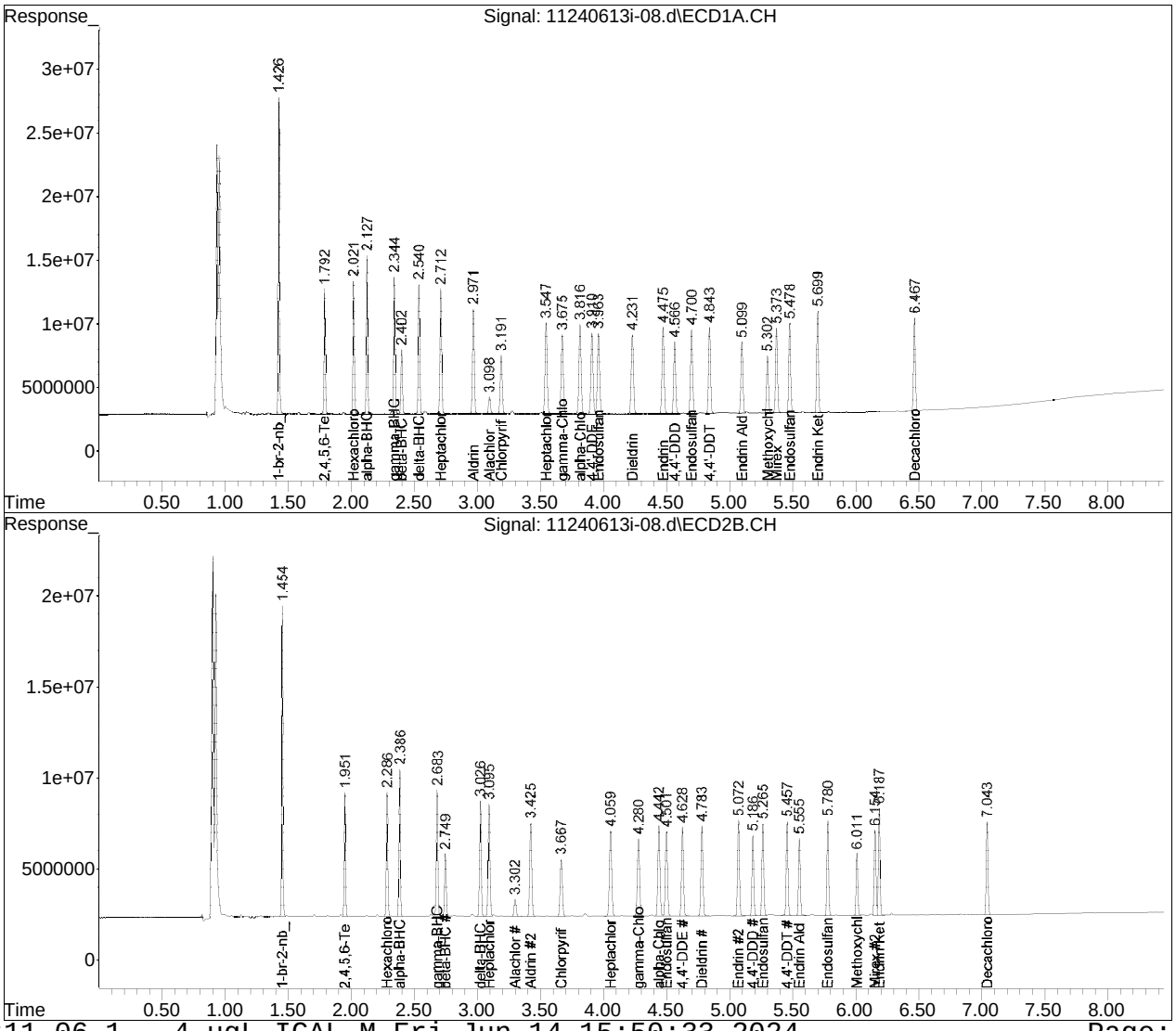
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:08
Operator : PEST11:kab/elj
Sample : il7pest,42e,,pp 11567 L0.01
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:33:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:33:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-08.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 15:08	Instrument	: Pest 11
Sample	: il7pest,42e,,pp 11567 L0.0	Quant Date	: 6/14/2024 1:33 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:20
Operator : PEST11:kab/elj
Sample : il8pest,42e,,pp 11566 L0.05
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:34:40 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:34:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.428	1.454	166.2E6	111.6E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.794	1.952	356.8E6	244.8E6	52.503	50.000
	Spiked Amount 50.000	Range 30 - 150		Recovery =		105.01%	100.00%
27) s	Decachlorobi	6.469	7.042	323.2E6	201.6E6	53.209	50.000
	Spiked Amount 50.000	Range 30 - 150		Recovery =		106.42%	100.00%
	Target Compounds						
3) t	Hexachlorobe	2.023	2.287	389.8E6	263.8E6	51.768	50.000
4) t	alpha-BHC	2.129	2.386	530.4E6	357.5E6	53.209	50.000
5) t	gamma-BHC (l	2.346	2.683	489.6E6	327.0E6	53.209	50.000
6) t	beta-BHC	2.404	2.750	208.4E6	146.6E6	52.263	50.000
7) t	delta-BHC	2.542	3.027	489.2E6	330.2E6	52.876	50.000
8) t	Heptachlor	2.715	3.095	493.2E6	330.6E6	50.148	50.000
9) t	Aldrin	2.973	3.426	460.4E6	303.0E6	51.817	50.000
10) t	Alachlor	3.100	3.302	65124980	44639780	37.233	50.000
11) t	Chlorpyrifos	3.194	3.667	224.7E6	161.8E6	50.392	50.000
12) t	Heptachlor E	3.550	4.058	431.0E6	289.2E6	53.273	50.000
13) t	gamma-Chlord	3.678	4.280	392.9E6	260.1E6	52.077	50.000
14) t	alpha-Chlord	3.819	4.442	446.4E6	290.4E6	53.238	50.000
15) t	4,4'-DDE	3.914	4.628	432.0E6	281.7E6	52.969	50.000
16) t	Endosulfan I	3.966	4.501	409.4E6	268.9E6	53.723	50.000
17) t	Dieldrin	4.234	4.782	420.3E6	273.6E6	51.290	50.000
18) t	Endrin	4.478	5.072	429.7E6	277.4E6	52.188	50.000
19) t	4,4'-DDD	4.569	5.185	343.8E6	224.6E6	51.942	50.000
20) t	Endosulfan I	4.703	5.265	383.5E6	246.6E6	52.182	50.000
21) t	4,4'-DDT	4.845	5.457	397.1E6	254.1E6	51.955	50.000
22) t	Endrin Aldeh	5.101	5.555	309.2E6	201.3E6	53.630	50.000
23) t	Methoxychlor	5.304	6.011	214.3E6	136.9E6	52.234	50.000

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:20
Operator : PEST11:kab/elj
Sample : il8pest,42e,,pp 11566 L0.05
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:34:40 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:34:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	5.376	6.154	331.2E6	198.0E6	52.598	50.000
25) t	Endosulfan S	5.480	5.779	367.1E6	231.0E6	53.209	50.000
26) t	Endrin Keton	5.701	6.187	399.8E6	257.1E6	53.209	50.000
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

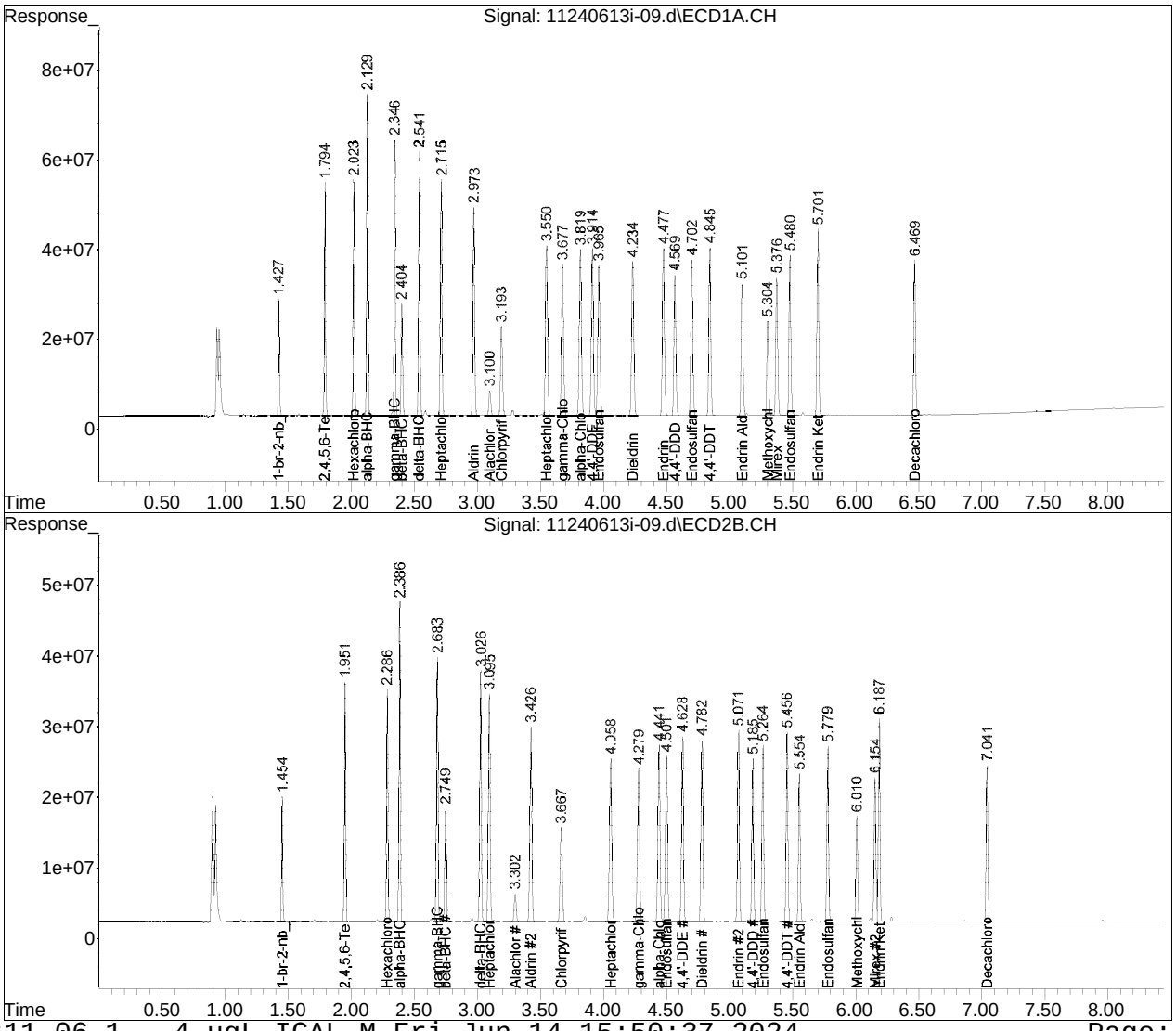
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:20
Operator : PEST11:kab/elj
Sample : il8pest,42e,,pp 11566 L0.05
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:34:40 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:34:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-09.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 15:20	Instrument	: Pest 11
Sample	: il8pest,42e,,pp 11566 L0.0	Quant Date	: 6/14/2024 12:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:32
Operator : PEST11:kab/elj
Sample : il9pest,42e,,pp 11565 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:17 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:35:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.429	1.455	160.8E6	106.1E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.795	1.952	694.4E6	469.9E6	100.554	100.919
	Spiked Amount 50.000	Range 30 - 150		Recovery =		201.11%#	201.84%#
27) s	Decachlorobi	6.469	7.041	628.5E6	384.8E6	100.478	100.355
	Spiked Amount 50.000	Range 30 - 150		Recovery =		200.96%#	200.71%#
	Target Compounds						
3) t	Hexachlorobe	2.024	2.287	748.5E6	500.4E6	99.224	99.765
4) t	alpha-BHC	2.130	2.387	1062.4E6	708.6E6	103.500	104.217
5) t	gamma-BHC (l	2.347	2.684	972.8E6	642.3E6	102.660	103.278
6) t	beta-BHC	2.405	2.750	402.5E6	276.8E6	99.775	99.259
7) t	delta-BHC	2.542	3.027	981.7E6	654.4E6	103.695	104.228
8) t	Heptachlor	2.715	3.096	965.4E6	639.4E6	101.139	101.692
9) t	Aldrin	2.974	3.427	916.1E6	596.0E6	102.806	103.423
10) t	Alachlor	3.101	3.303	117.3E6	79563534	93.032	93.721
11) t	Chlorpyrifos	3.194	3.668	414.2E6	295.9E6	95.269	96.191
12) t	Heptachlor E	3.551	4.059	843.0E6	557.5E6	101.079	101.384
13) t	gamma-Chlord	3.678	4.280	782.8E6	509.3E6	102.939	102.960
14) t	alpha-Chlord	3.820	4.442	882.1E6	565.1E6	102.109	102.316
15) t	4,4'-DDE	3.915	4.629	877.5E6	561.3E6	104.971	104.768
16) t	Endosulfan I	3.966	4.501	804.7E6	520.7E6	101.560	101.827
17) t	Dieldrin	4.234	4.783	842.5E6	540.2E6	103.569	103.813
18) t	Endrin	4.478	5.073	858.6E6	547.2E6	103.239	103.705
19) t	4,4'-DDD	4.569	5.186	698.5E6	446.6E6	104.994	104.562
20) t	Endosulfan I	4.703	5.265	754.9E6	477.1E6	101.718	101.727
21) t	4,4'-DDT	4.846	5.458	802.8E6	503.3E6	104.466	104.144
22) t	Endrin Aldeh	5.102	5.555	621.8E6	395.5E6	103.931M3	103.326

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:32
Operator : PEST11:kab/elj
Sample : il9pest,42e,,pp 11565 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:17 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:35:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.305	6.011	413.7E6	261.4E6	99.750	100.387
24) t	Mirex	5.376	6.155	637.6E6	372.0E6	99.459	98.789
25) t	Endosulfan S	5.481	5.780	722.6E6	446.9E6	101.700	101.735
26) t	Endrin Keton	5.702	6.188	783.9E6	496.1E6	101.324	101.475
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

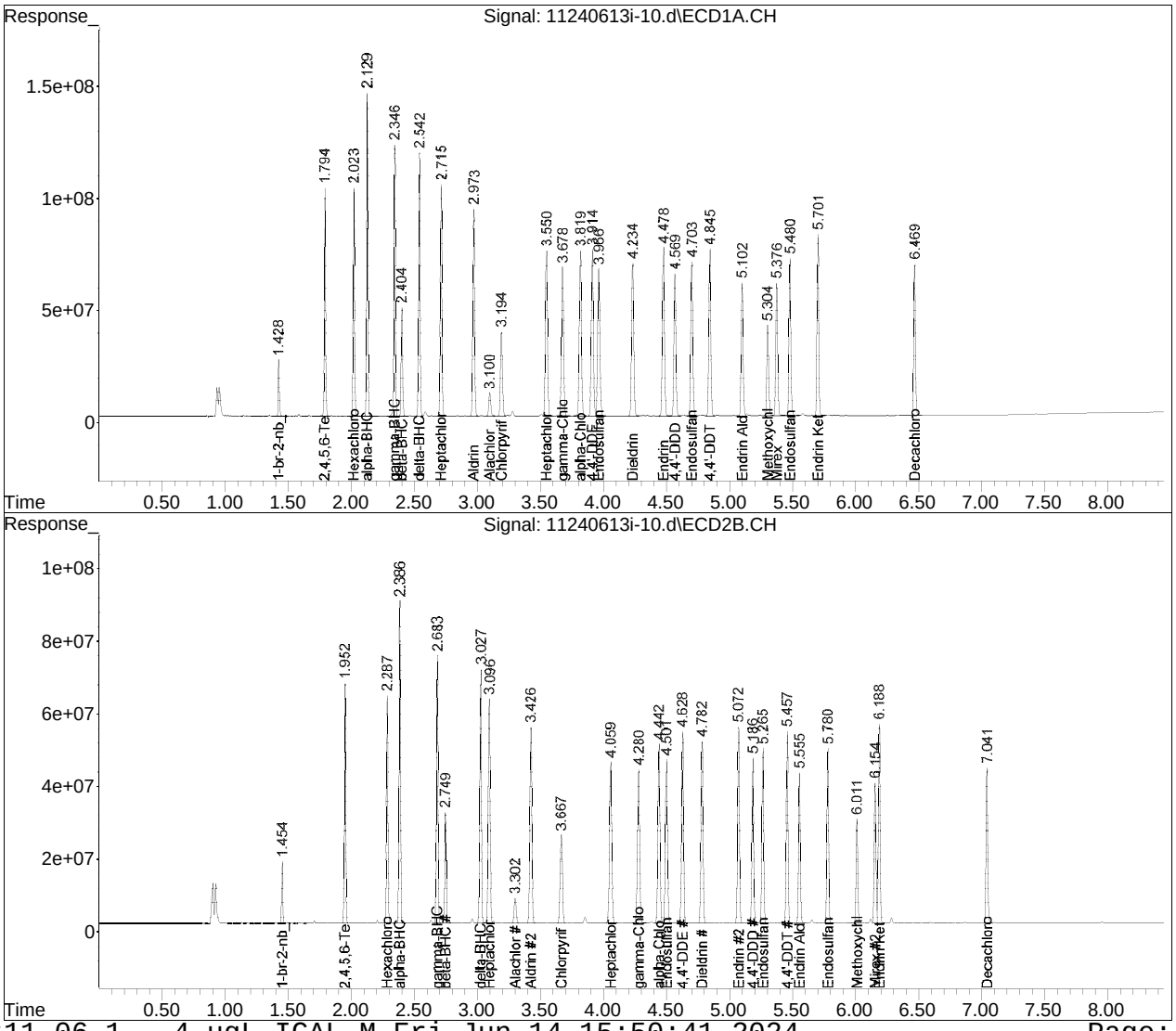
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:32
Operator : PEST11:kab/elj
Sample : il9pest,42e,,pp 11565 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:17 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:35:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

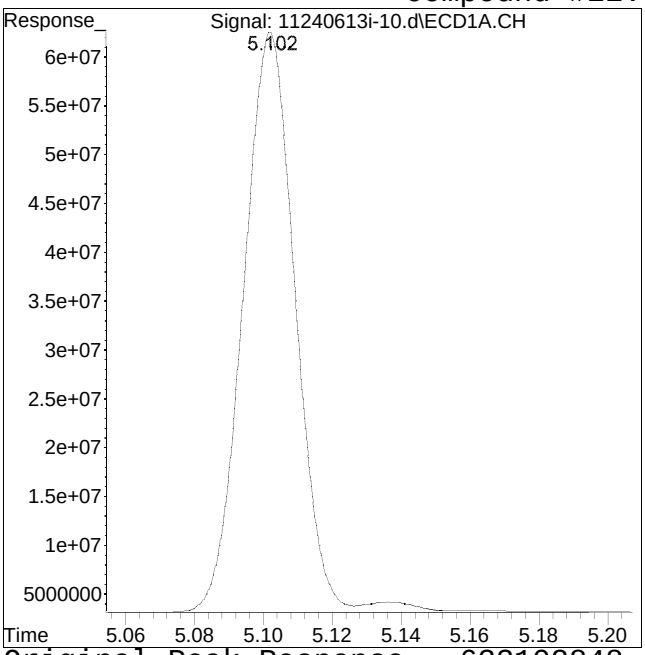
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

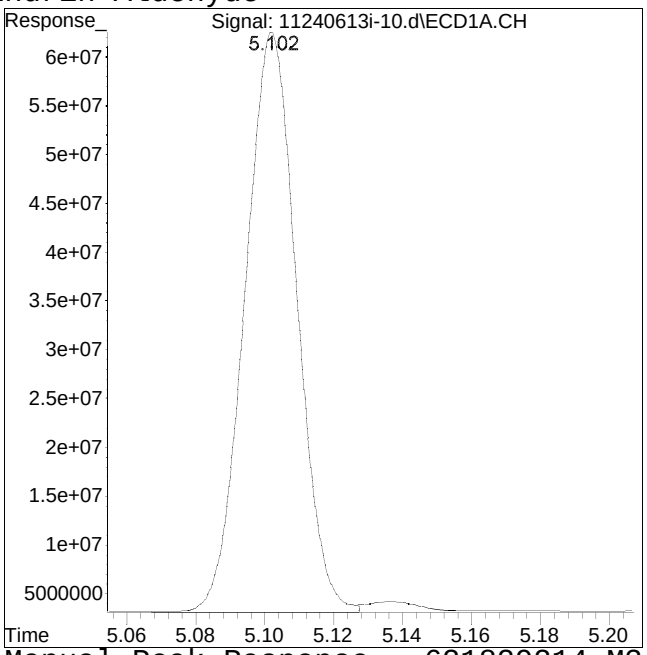


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-10.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 15:32 Instrument : Pest 11
Sample : il9pest,42e,,pp 11565 L0.1Quant Date : 6/14/2024 12:36 pm

Compound #22: Endrin Aldehyde





Original Peak Response = 633102848 Manual Peak Response = 621829214 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:44
Operator : PEST11:kab/elj
Sample : il10pest,42e,,pp 11564 L0.2
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:28:34 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.428	1.455	163.9E6	106.5E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.794	1.953	1441.3E6	958.0E6	209.204	203.973
	Spiked Amount 50.000	Range 30 - 150		Recovery =		418.41%#	407.95%#
27) s	Decachlorobi	6.468	7.040	1257.2E6	757.1E6	202.837	196.285
	Spiked Amount 50.000	Range 30 - 150		Recovery =		405.67%#	392.57%#
	Target Compounds						
3) t	Hexachlorobe	2.023	2.288	1543.4E6	1019.5E6	205.045	202.671
4) t	alpha-BHC	2.129	2.387	2253.3E6	1489.6E6	218.165	213.673
5) t	gamma-BHC (l	2.346	2.684	2057.2E6	1343.6E6	216.678	211.690
6) t	beta-BHC	2.404	2.750	833.9E6	561.5E6	207.561	201.324
7) t	delta-BHC	2.542	3.028	2085.7E6	1377.2E6	218.079	213.931
8) t	Heptachlor	2.714	3.097	1988.0E6	1305.4E6	203.504	205.058
9) t	Aldrin	2.972	3.427	1919.9E6	1236.0E6	212.157	210.009
10) t	Alachlor	3.099	3.303	221.5E6	149.2E6	151.719	180.650
11) t	Chlorpyrifos	3.193	3.668	803.3E6	566.7E6	186.430	187.022
12) t	Heptachlor E	3.549	4.060	1725.9E6	1132.5E6	208.321	203.689
13) t	gamma-Chlord	3.677	4.281	1646.2E6	1055.9E6	213.539	209.486
14) t	alpha-Chlord	3.818	4.443	1837.1E6	1162.1E6	212.901	207.155
15) t	4,4'-DDE	3.913	4.630	1851.1E6	1164.3E6	217.971	211.404
16) t	Endosulfan I	3.965	4.502	1652.8E6	1057.4E6	210.316	204.068
17) t	Dieldrin	4.233	4.783	1753.8E6	1110.2E6	210.444	208.517
18) t	Endrin	4.476	5.073	1770.3E6	1120.5E6	209.875	207.663
19) t	4,4'-DDD	4.568	5.187	1469.4E6	924.8E6	215.354	210.833
20) t	Endosulfan I	4.701	5.266	1539.9E6	963.4E6	206.127	202.830
21) t	4,4'-DDT	4.844	5.458	1676.0E6	1037.7E6	213.247	209.530
22) t	Endrin Aldeh	5.101	5.556	1267.2E6	798.8E6	210.812	204.438
23) t	Methoxychlor	5.303	6.012	814.7E6	518.0E6	197.206	197.702

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:44
Operator : PEST11:kab/elj
Sample : il10pest,42e,,pp 11564 L0.2
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:28:34 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	5.375	6.155	1281.5E6	735.9E6	201.685	195.801
25) t	Endosulfan S	5.479	5.780	1475.4E6	903.4E6	208.261	203.074
26) t	Endrin Keton	5.701	6.188	1580.4E6	999.9E6	205.281	202.206
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

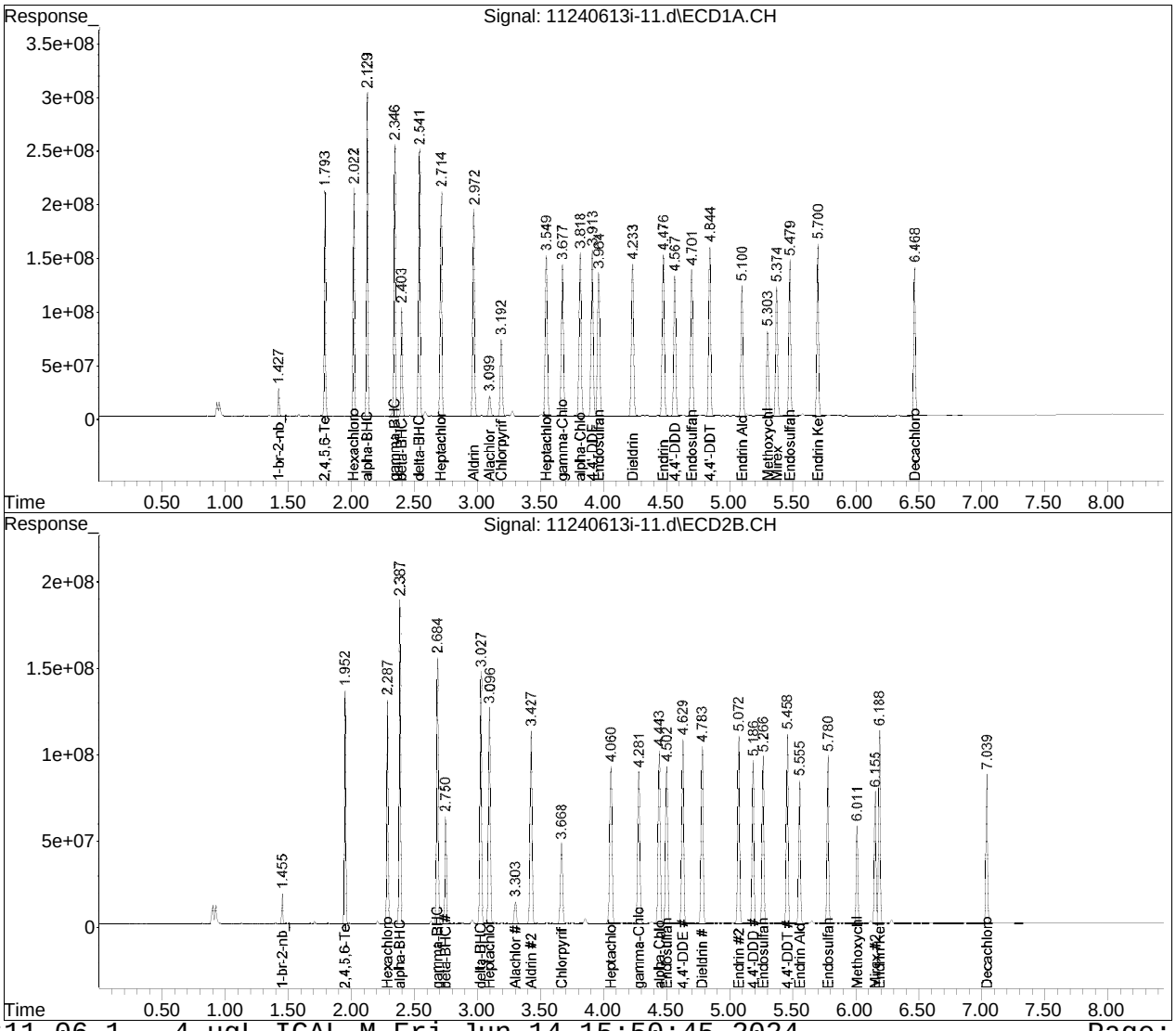
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:44
Operator : PEST11:kab/elj
Sample : il10pest,42e,,pp 11564 L0.2
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:28:34 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 12:38:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-11.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 15:44	Instrument	: Pest 11
Sample	: il10pest,42e,,pp 11564 L0.	Quant Date	: 6/14/2024 1:28 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:56
Operator : PEST11:kab/elj
Sample : il11pest,42e,,pp 11563 L0.4
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:31:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:30:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.429	1.455	170.1E6	109.6E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.795	1.953	2805.4E6	1866.5E6	386.424	383.688
	Spiked Amount 50.000	Range 30 - 150		Recovery =		772.85%#	767.38%#
27) s	Decachlorobi	6.470	7.045	2465.9E6	1483.8E6	381.536	376.235
	Spiked Amount 50.000	Range 30 - 150		Recovery =		763.07%#	752.47%#
	Target Compounds						
3) t	Hexachlorobe	2.025	2.288	3018.8E6	2005.7E6	383.217	385.787
4) t	alpha-BHC	2.131	2.387	4474.7E6	2987.6E6	405.185	407.223
5) t	gamma-BHC (l	2.348	2.684	4063.4E6	2682.2E6	401.246	402.854
6) t	beta-BHC	2.405	2.751	1640.3E6	1104.4E6	388.511	383.958
7) t	delta-BHC	2.543	3.028	4130.8E6	2760.2E6	404.005	407.261
8) t	Heptachlor	2.716	3.096	3783.0E6	2520.2E6	370.975	381.519
9) t	Aldrin	2.975	3.427	3714.2E6	2416.6E6	387.633	392.510
10) t	Alachlor	3.101	3.303	400.2E6	272.0E6	287.279	330.899
11) t	Chlorpyrifos	3.195	3.668	1477.1E6	1048.9E6	337.937	343.841
12) t	Heptachlor E	3.551	4.060	3282.2E6	2187.7E6	376.523	380.076
13) t	gamma-Chlord	3.679	4.281	3234.2E6	2084.8E6	395.335	395.724
14) t	alpha-Chlord	3.820	4.443	3606.8E6	2281.2E6	394.286	390.564
15) t	4,4'-DDE	3.915	4.629	3615.0E6	2280.7E6	398.228	394.952
16) t	Endosulfan I	3.967	4.502	3163.2E6	2039.1E6	381.301	379.880
17) t	Dieldrin	4.236	4.783	3390.5E6	2169.3E6	385.300	390.431
18) t	Endrin	4.479	5.073	3383.5E6	2182.9E6	380.257	388.213
19) t	4,4'-DDD	4.570	5.186	2881.0E6	1848.0E6	396.705	402.191
20) t	Endosulfan I	4.704	5.266	2852.6E6	1808.4E6	364.223	368.311
21) t	4,4'-DDT	4.846	5.458	3279.9E6	2042.5E6	393.425	394.538
22) t	Endrin Aldeh	5.102	5.556	2446.7E6	1560.2E6	385.264M3	385.218

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:56
Operator : PEST11:kab/elj
Sample : il11pest,42e,,pp 11563 L0.4
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:31:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:30:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.305	6.011	1524.4E6	1030.4E6	357.193	383.688
24) t	Mirex	5.377	6.155	2477.6E6	1424.0E6	374.665	370.812
25) t	Endosulfan S	5.481	5.780	2815.3E6	1758.4E6	377.717	382.180
26) t	Endrin Keton	5.702	6.188	3003.8E6	1942.9E6	372.669	380.461
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

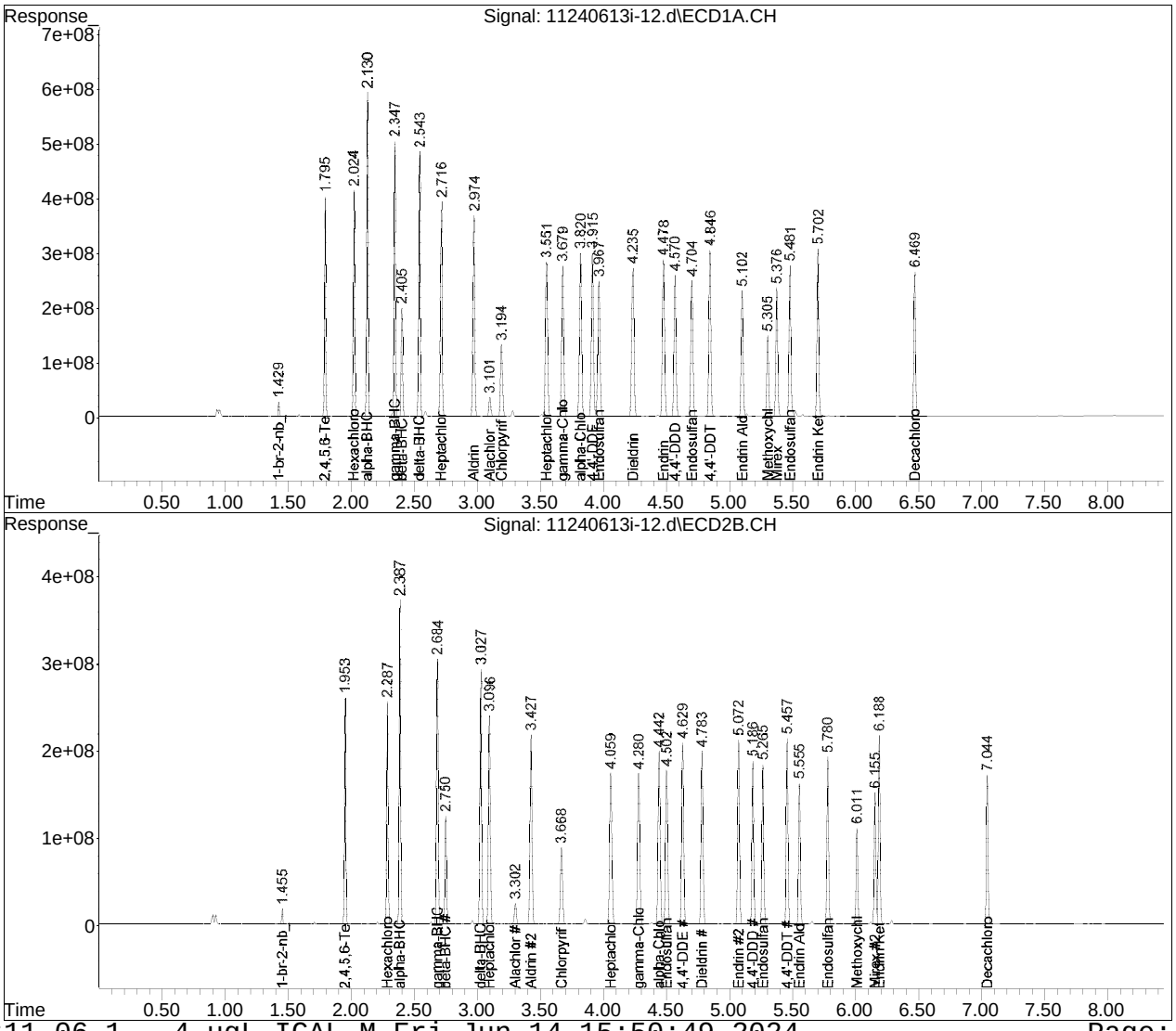
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 15:56
Operator : PEST11:kab/elj
Sample : il11pest,42e,,pp 11563 L0.4
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 13:31:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 13:30:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

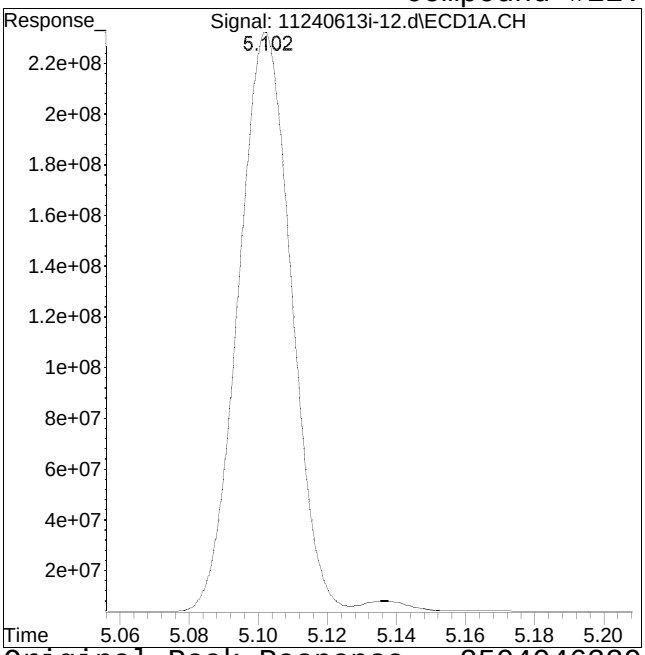
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

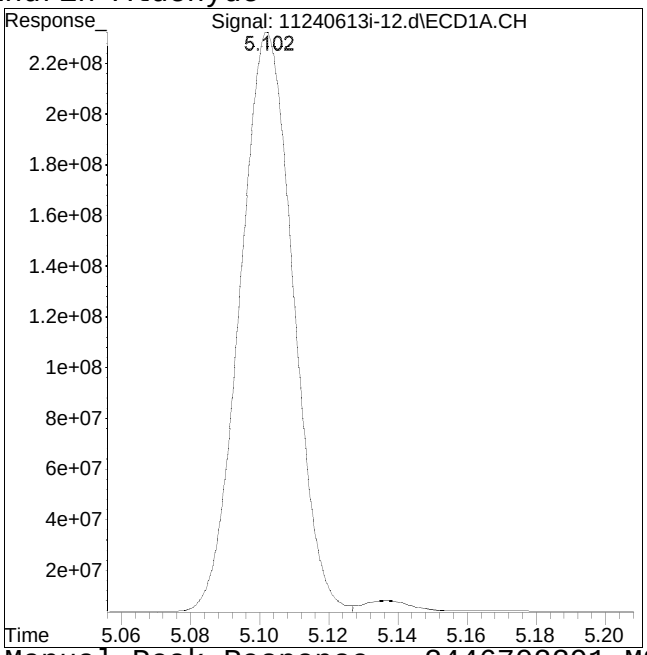


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-12.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 15:56 Instrument : Pest 11
Sample : il11pest,42e,,pp 11563 L0.Quant Date : 6/14/2024 1:31 pm

Compound #22: Endrin Aldehyde





Original Peak Response = 2504046339 Manual Peak Response = 2446702291 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 16:08
Operator : PEST11:kab/elj
Sample   : cicvpest,42e,,pp 11604 L0.05ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:11:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:11:14 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	1.146	-3.0	104	0.00
3	t	Hexachlorobenzene		1.275	1.233	3.3	101	0.00
4	t	alpha-BHC		1.524	1.687	-10.7	104	0.00
5	t	gamma-BHC (lindane)		1.455	1.520	-4.5	102	0.00
6	t	beta-BHC		0.696	0.665	4.5	103	0.00
7	t	delta-BHC		1.422	1.488	-4.6	99	0.00
8	t	Heptachlor		1.524	1.565	-2.7	98	0.00
9	t	Aldrin		1.387	1.475	-6.3	102	0.00
10	t	Alachlor		0.234	0.209	10.7	74	0.00
11	t	Chlorpyrifos		0.821	0.716	12.8	99	0.00
12	t	Heptachlor Epoxide		1.353	1.364	-0.8	104	0.00
13	t	gamma-Chlordane (trans)		1.246	1.423	-14.2	116	0.00
14	t	alpha-Chlordane (cis)		1.410	1.408	0.1	103	0.00
15	t	4,4'-DDE		1.291	1.359	-5.3	103	0.00
16	t	Endosulfan I		1.289	1.286	0.2	104	0.00
17	t	Dieldrin		1.289	1.436	-11.4	108	0.00
18	t	Endrin		1.305	1.344	-3.0	101	0.00
19	t	4,4'-DDD		1.040	1.152	-10.8	107	0.00
20	t	Endosulfan II		1.214	1.241	-2.2	104	0.00
21	t	4,4'-DDT		1.221	1.259	-3.1	102	0.00
22	t	Endrin Aldehyde		0.995	0.901	9.4	96	0.00
23	t	Methoxychlor		0.700	0.699	0.1	105	0.00
24	t	Mirex	*	50.000	54.320	-8.6	105	0.00
25	t	Endosulfan Sulfate		1.197	1.173	2.0	105	0.00
26	t	Endrin Ketone		1.264	1.354	-7.1	111	0.00
27	s	Decachlorobiphenyl		1.082	1.054	2.6	107	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 16:08
Operator : PEST11:kab/elj
Sample   : cicvpest,42e,,pp 11604 L0.05ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:11:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:11:14 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	1.175	-0.3	105	0.00
3	t	Hexachlorobenzene		1.329	1.252	5.8	104	0.00
4	t	alpha-BHC		1.585	1.687	-6.4	103	0.00
5	t	gamma-BHC (lindane)		1.506	1.518	-0.8	102	0.00
6	t	beta-BHC		0.741	0.687	7.3	102	0.00
7	t	delta-BHC		1.490	1.490	0.0	99	0.00
8	t	Heptachlor		1.555	1.551	0.3	103	0.00
9	t	Aldrin		1.407	1.438	-2.2	104	0.00
10	t	Alachlor		0.233	0.214	8.2	105	0.00
11	t	Chlorpyrifos		0.894	0.761	14.9	103	0.00
12	t	Heptachlor Epoxide		1.404	1.339	4.6	101	0.00
13	t	gamma-Chlordane (trans)		1.270	1.387	-9.2	117	0.00
14	t	alpha-Chlordane (cis)		1.426	1.356	4.9	102	0.00
15	t	4,4'-DDE		1.304	1.313	-0.7	102	0.00
16	t	Endosulfan I		1.310	1.246	4.9	101	0.00
17	t	Dieldrin		1.299	1.385	-6.6	111	0.00
18	t	Endrin		1.313	1.282	2.4	101	0.00
19	t	4,4'-DDD		1.057	1.110	-5.0	108	0.00
20	t	Endosulfan II		1.211	1.184	2.2	105	0.00
21	t	4,4'-DDT		1.224	1.177	3.8	101	0.00
22	t	Endrin Aldehyde		1.022	0.868	15.1#	94	0.00
23	t	Methoxychlor	*	50.000	53.080	-6.2	103	0.00
24	t	Mirex	*	50.000	52.923	-5.8	104	0.00
25	t	Endosulfan Sulfate		1.181	1.109	6.1	105	0.00
26	t	Endrin Ketone		1.290	1.271	1.5	108	0.00
27	s	Decachlorobiphenyl	*	50.000	53.871	-7.7	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 16:08
Operator : PEST11:kab/elj
Sample   : cicvpest,42e,,pp 11604 L0.05ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:11:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:11:14 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1	*	0.040	0.000	100.0#	0#	-2.66#
30	l1	chlordane-3	*	0.053	0.000	100.0#	0#	-3.10#
31	l1	chlordane-4	*	0.175	0.000	100.0#	0#	-3.69#
32	l1	chlordane-5	*	0.267	0.000	100.0#	0#	-3.82#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.35#
34	l2	toxaphene-2		0.058	0.000	100.0#	0#	-4.53#
35	l2	toxaphene-3		0.044	0.000	100.0#	0#	-4.65#
36	l2	toxaphene-4		0.046	0.000	100.0#	0#	-4.87#
37	l2	toxaphene-5		0.042	0.000	100.0#	0#	-5.24#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.46#
29	l1	chlordane-1	*	0.038	0.000	100.0#	0#	-2.96#
30	l1	chlordane-3	*	0.050	0.000	100.0#	0#	-3.58#
31	l1	chlordane-4	*	0.155	0.000	100.0#	0#	-4.28#
32	l1	chlordane-5	*	0.122	0.000	100.0#	0#	-4.44#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-2		0.024	0.000	100.0#	0#	-5.21#
35	l2	toxaphene-3		0.037	0.000	100.0#	0#	-5.24#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.55#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-5.97#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:08
Operator : PEST11:kab/elj
Sample : cicvpest,42e,,pp 11604 L0.05ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:11:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:11:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.429	1.455	163.9E6	109.3E6	25.000M4	25.000
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.796	1.952	375.7E6	257.0E6	51.469	50.184
		Spiked Amount 50.000	Range 30 - 150			Recovery =	102.94%	100.37%
27)	s	Decachlorobi	6.470	7.042	345.5E6	209.7E6	48.722	53.871
		Spiked Amount 50.000	Range 30 - 150			Recovery =	97.44%	107.74%
		Target Compounds						
3)	t	Hexachlorobe	2.025	2.287	404.1E6	273.6E6	48.348	47.093
4)	t	alpha-BHC	2.131	2.387	552.9E6	368.9E6	55.338	53.238
5)	t	gamma-BHC (l	2.348	2.684	498.2E6	331.9E6	52.212	50.426
6)	t	beta-BHC	2.406	2.750	217.9E6	150.2E6	47.750	46.364
7)	t	delta-BHC	2.544	3.027	488.0E6	325.8E6	52.354	50.008
8)	t	Heptachlor	2.717	3.096	513.0E6	339.0E6	51.322	49.880
9)	t	Aldrin	2.975	3.427	483.4E6	314.3E6	53.149	51.096
10)	t	Alachlor	3.102	3.303	68409005	46887349	44.657	45.984
11)	t	Chlorpyrifos	3.196	3.668	234.6E6	166.4E6	43.597	42.553
12)	t	Heptachlor E	3.552	4.059	447.3E6	292.7E6	50.418	47.691
13)	t	gamma-Chlord	3.680	4.281	466.6E6	303.2E6	57.103	54.621
14)	t	alpha-Chlord	3.821	4.442	461.6E6	296.4E6	49.932	47.531
15)	t	4,4'-DDE	3.916	4.629	445.5E6	286.9E6	52.639	50.320
16)	t	Endosulfan I	3.968	4.502	421.7E6	272.4E6	49.913	47.559
17)	t	Dieldrin	4.236	4.783	470.8E6	302.8E6	55.709	53.297
18)	t	Endrin	4.479	5.072	440.6E6	280.3E6	51.504	48.818
19)	t	4,4'-DDD	4.571	5.186	377.8E6	242.7E6	55.378	52.532
20)	t	Endosulfan I	4.705	5.265	406.7E6	258.8E6	51.078	48.879
21)	t	4,4'-DDT	4.847	5.457	412.9E6	257.3E6	51.560	48.074
22)	t	Endrin Aldeh	5.103	5.555	295.2E6	189.8E6	45.260	42.482

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:08
Operator : PEST11:kab/elj
Sample : cicvpest,42e,,pp 11604 L0.05ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:11:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:11:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.306	6.011	229.2E6	141.3E6	49.918	53.080
24) t	Mirex	5.377	6.155	352.7E6	205.4E6	54.320	52.923
25) t	Endosulfan S	5.482	5.780	384.5E6	242.5E6	48.986	46.959
26) t	Endrin Keton	5.703	6.188	443.7E6	277.7E6	53.536	49.245
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

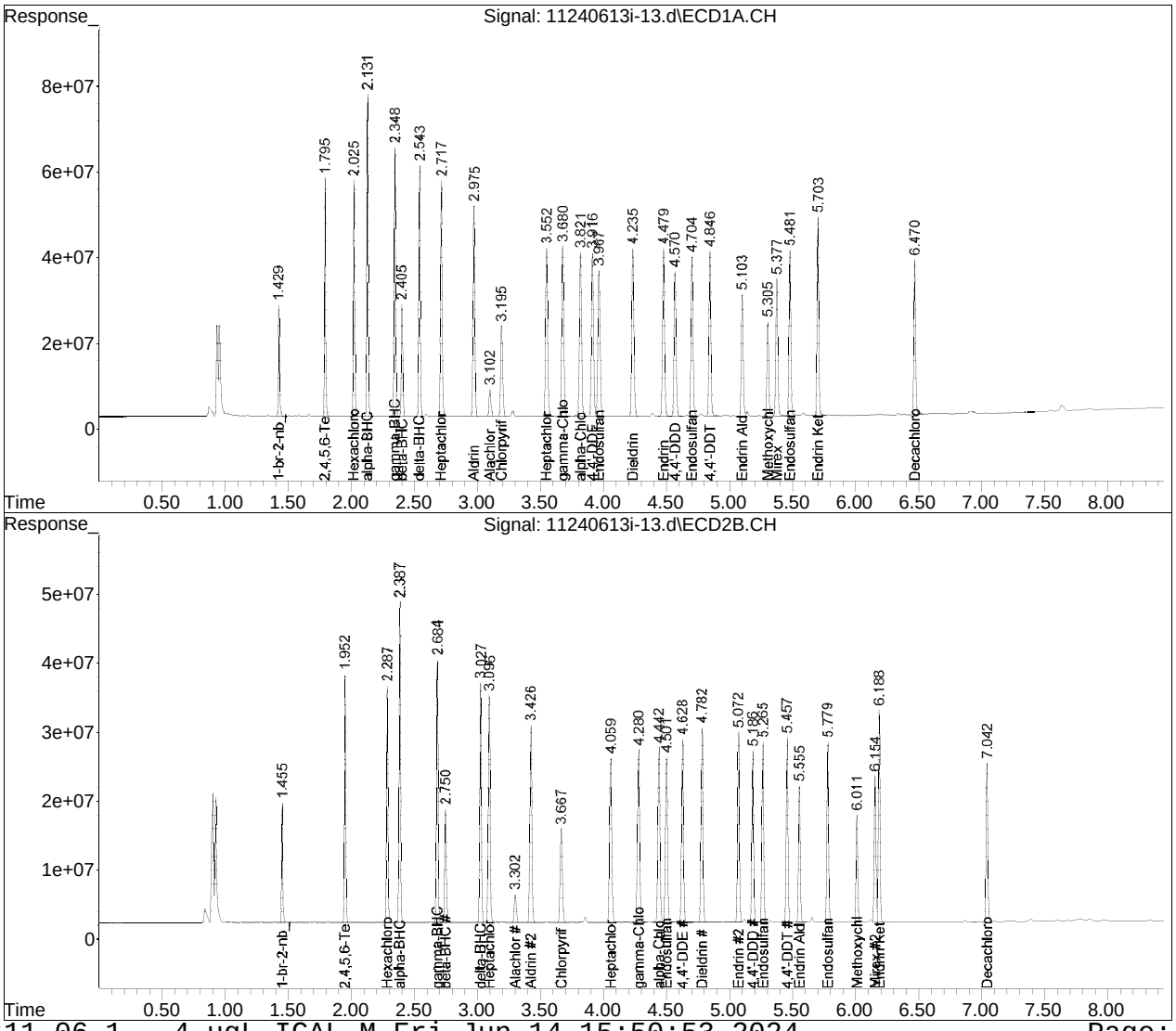
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:08
Operator : PEST11:kab/elj
Sample : cicvpest,42e,,pp 11604 L0.05ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:11:14 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:11:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

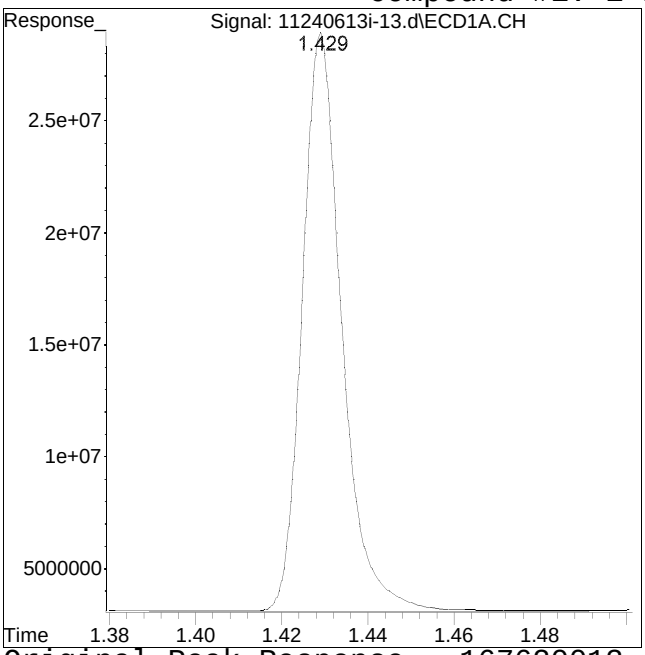


Manual Integration Report

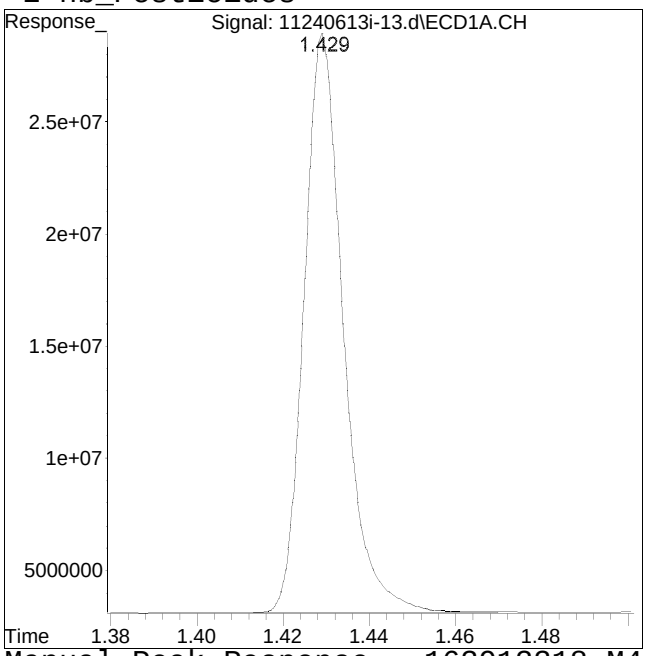
Data Path : I:\PEST\Pest11\2024\240613Q
Data File : 11240613i-13.d
Date Inj'd : 6/13/2024 16:08
Sample : cicvpest,42e,,pp 11604 L0.

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:kab/elj
Instrument : Pest 11
Quant Date : 6/14/2024 2:11 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 167620013



Manual Peak Response = 163913318 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:20
Operator : PEST11:kab/elj
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:20:31 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:20:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.430	1.455	173.6E6	116.4E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:20
Operator : PEST11:kab/elj
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:20:31 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:20:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D.	N.D.
25) t	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26) t	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	2.652	2.956	3216132	2183103	12.074	13.509
30) l1	chlordane-3	3.095	3.582	4494120	3064824	13.195	15.167
31) l1	chlordane-4	3.680	4.280	13756626	8699678	11.905M4	13.297
32) l1	chlordane-5	3.807	4.442	20236916	6762934	11.370M4	13.135
Sum	chlordane-1			41703795	20710538	NoCal	NoCal D
Average	chlordane-1					12.136	13.777
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

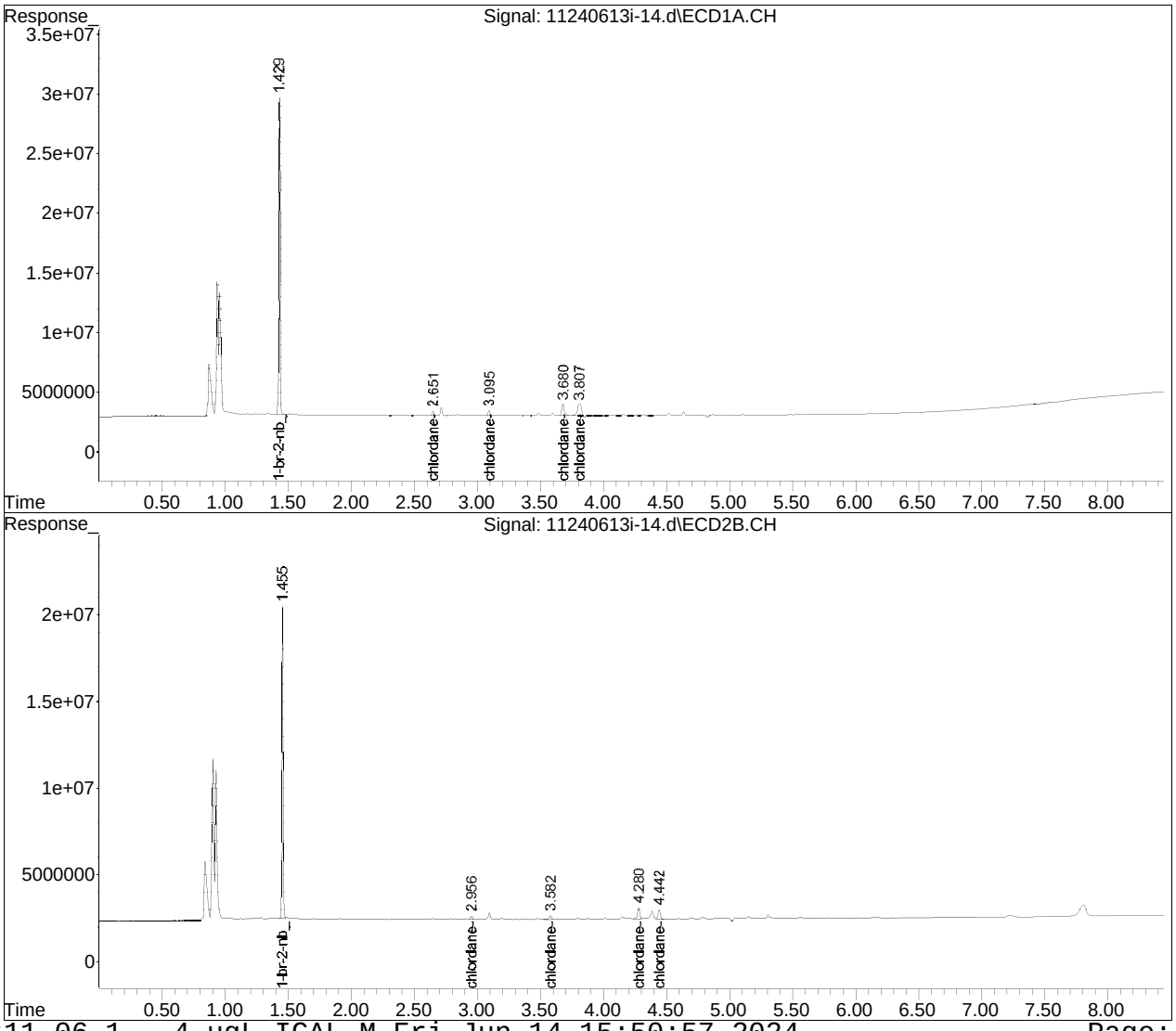
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:20
Operator : PEST11:kab/elj
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:20:31 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:20:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

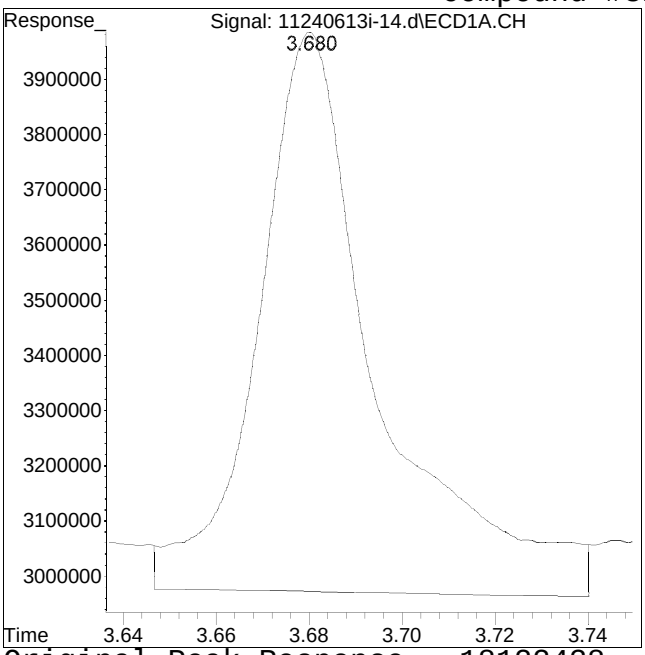
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

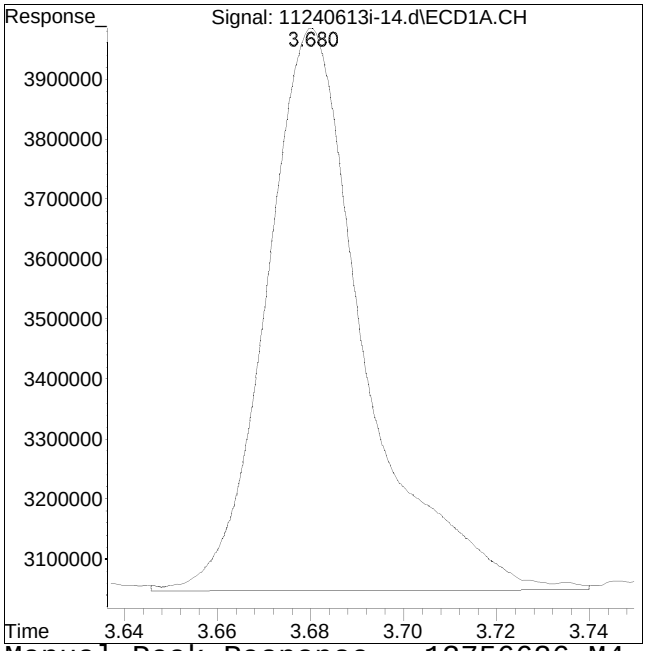


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-14.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:20 Instrument : Pest 11
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 6/14/2024 2:20 pm

Compound #31: chlordane-4



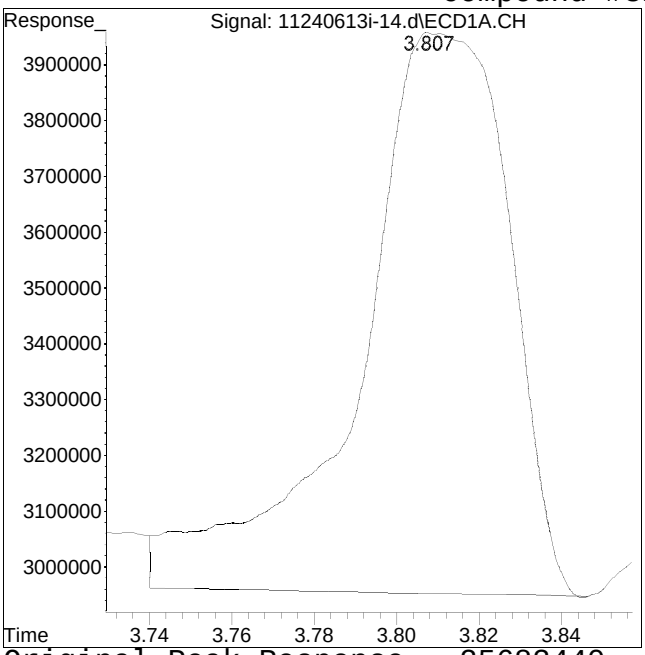


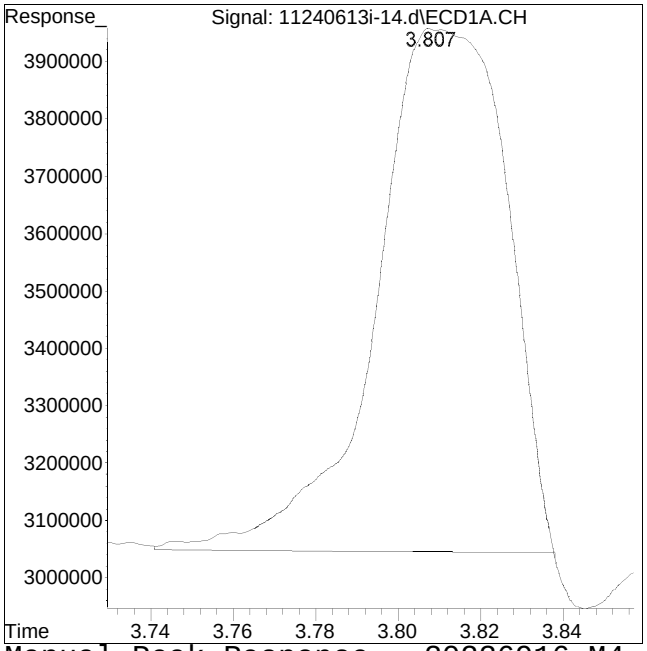
Original Peak Response = 18122438 Manual Peak Response = 13756626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-14.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:20 Instrument : Pest 11
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 6/14/2024 2:20 pm

Compound #32: chlordane-5





Original Peak Response = 25683440 Manual Peak Response = 20236916 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:32
Operator : PEST11:kab/elj
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:17:48 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:17:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.432	1.457	173.9E6	116.6E6	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:32
Operator : PEST11:kab/elj
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:17:48 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:17:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
24) t	Mirex	0.000	0.000	0	0	N.D.	N.D.
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	2.654	2.957	6665003	4273738	26.285	28.218
30) l1	chlordane-3	3.098	3.583	8929034	5702328	27.892M4	30.693
31) l1	chlordane-4	3.682	4.280	25989055	16504049	23.016M4	26.571
32) l1	chlordane-5	3.811	4.443	38788246	13165660	22.144M4	27.033
Sum	chlordane-1			80371337	39645774	NoCal	NoCal D
Average	chlordane-1					24.834	28.129
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

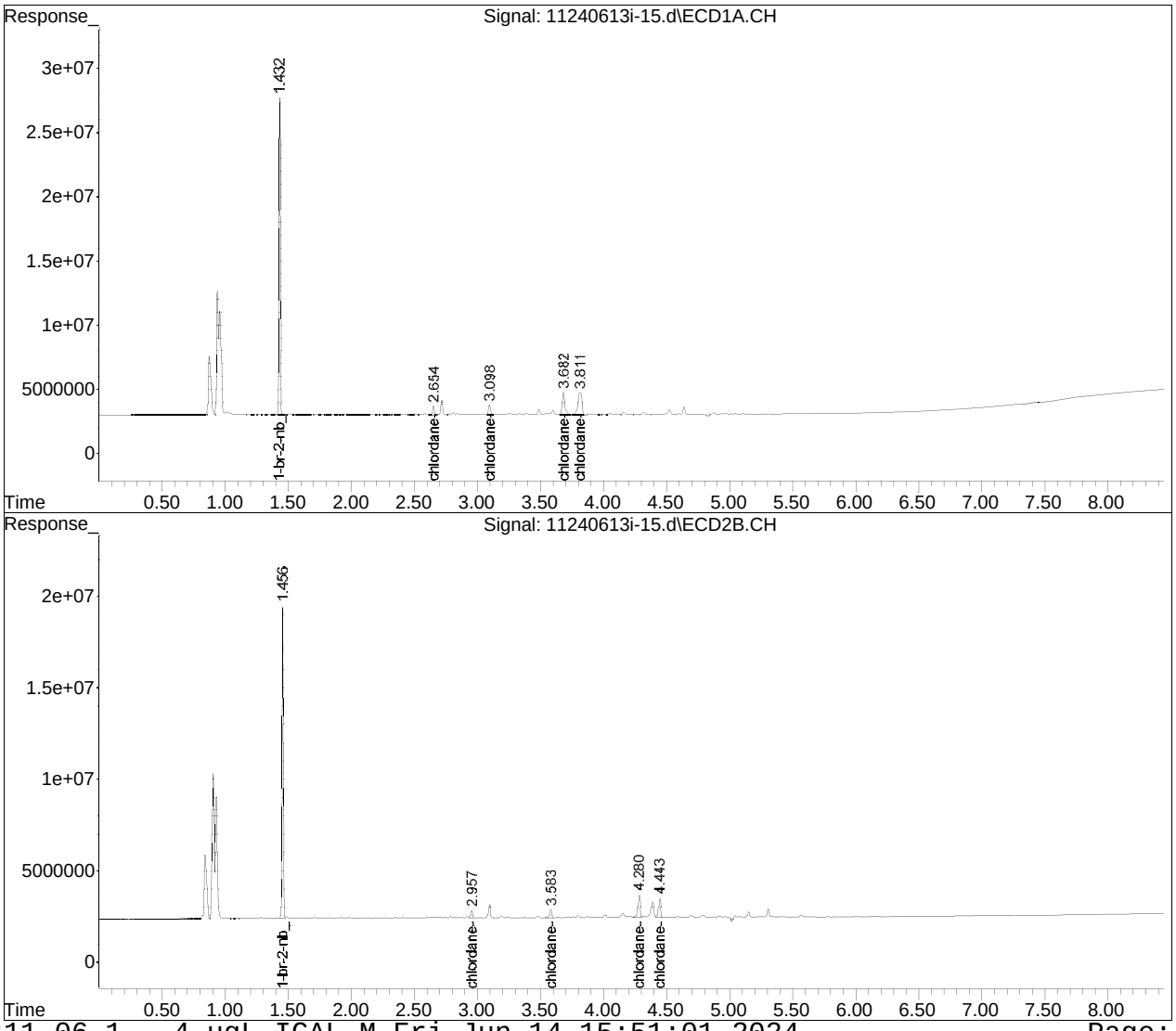
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:32
Operator : PEST11:kab/elj
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:17:48 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:17:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

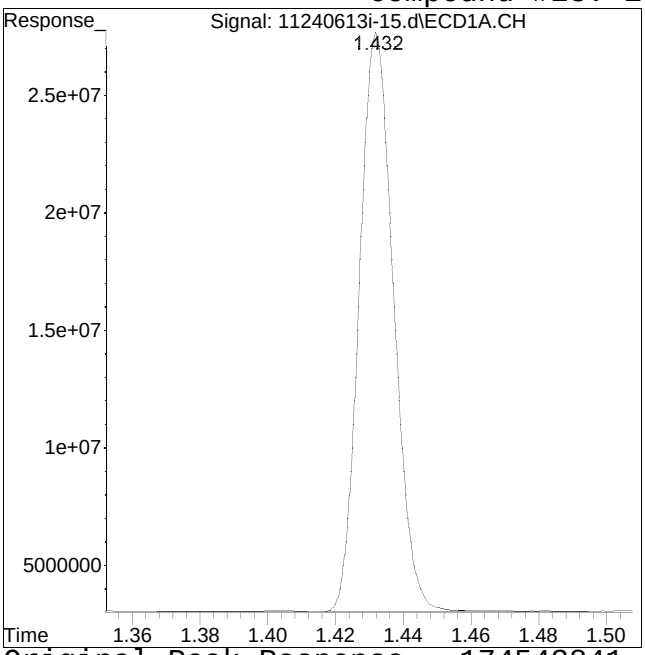
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

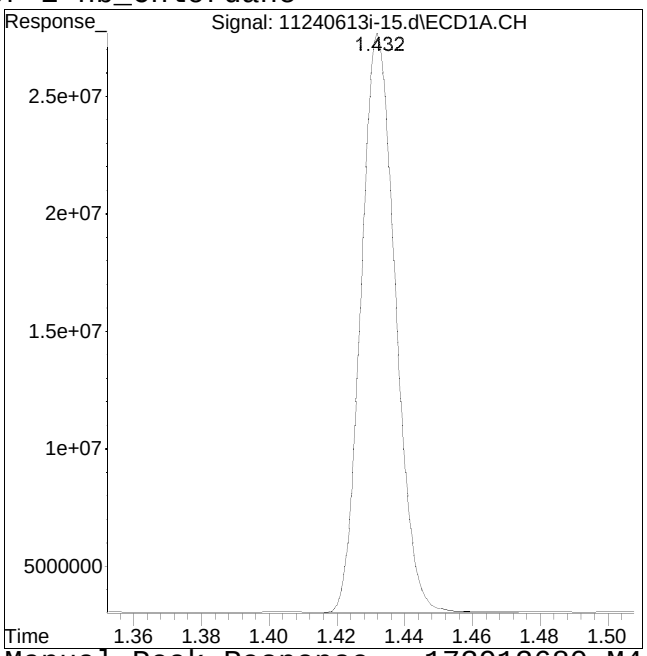


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-15.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:32 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 6/14/2024 2:17 pm

Compound #28: 1-br-2-nb_Chlordane



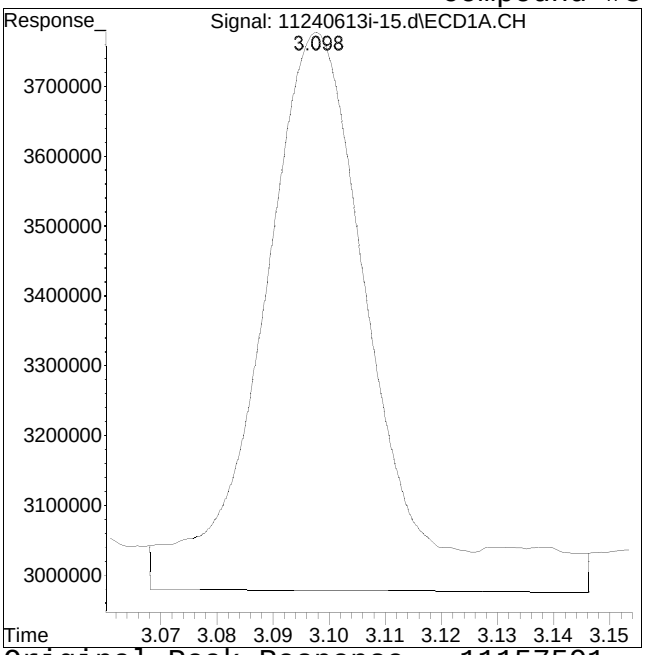


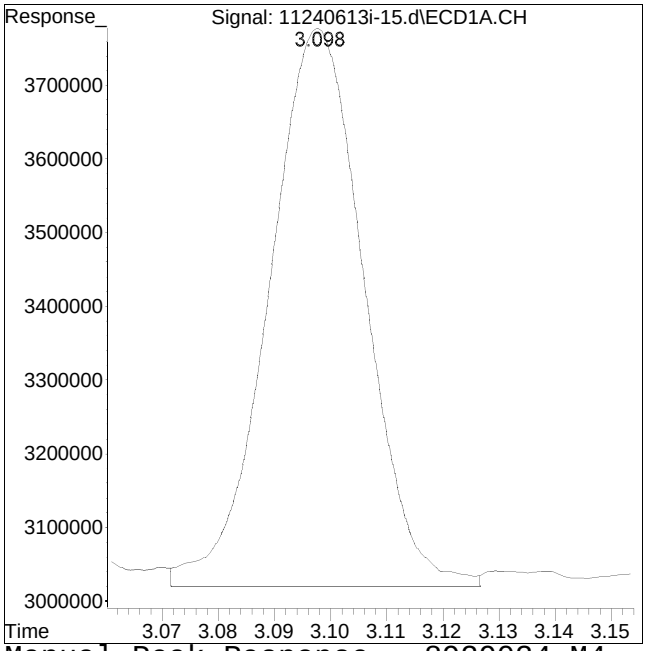
Original Peak Response = 174543841 Manual Peak Response = 173913680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-15.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:32 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 6/14/2024 2:17 pm

Compound #30: chlordane-3



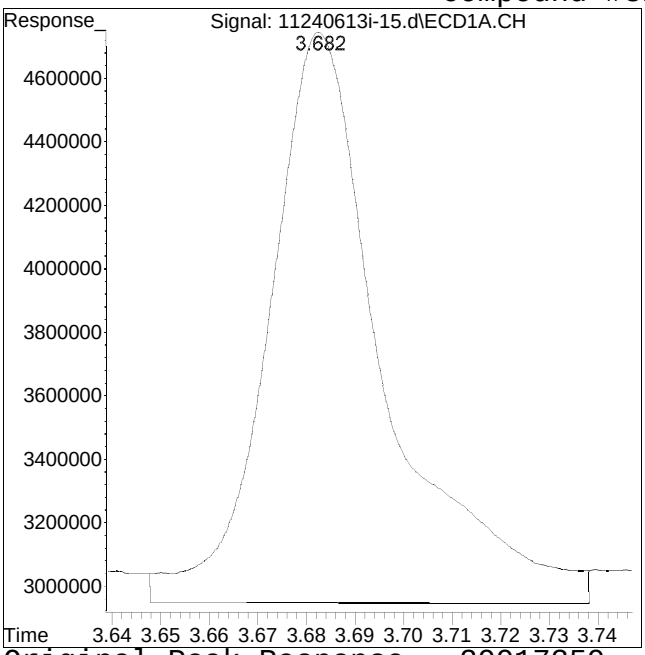


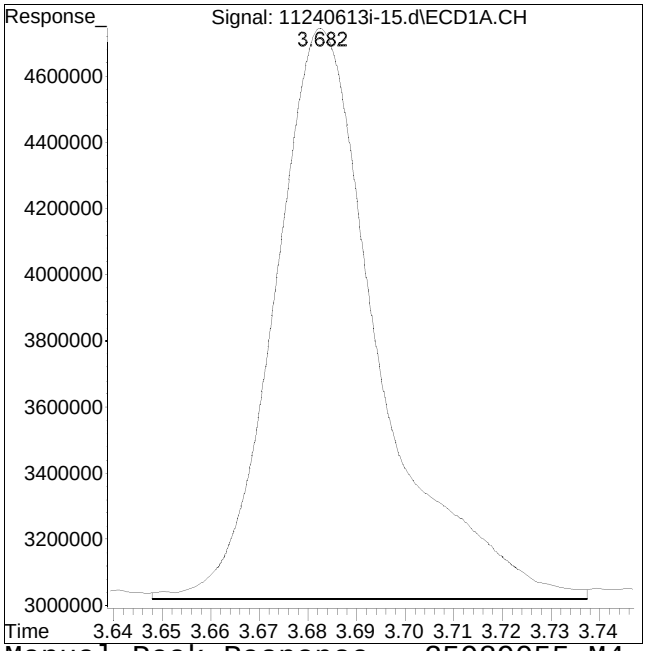
Original Peak Response = 11157591 Manual Peak Response = 8929034 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-15.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:32 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 6/14/2024 2:17 pm

Compound #31: chlordane-4



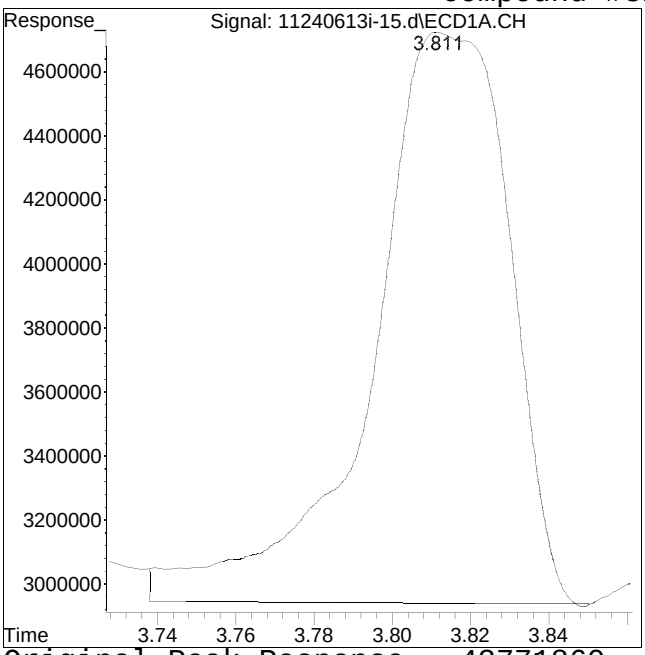


Original Peak Response = 29917359 Manual Peak Response = 25989055 M4
M4 = Poor automated baseline construction.

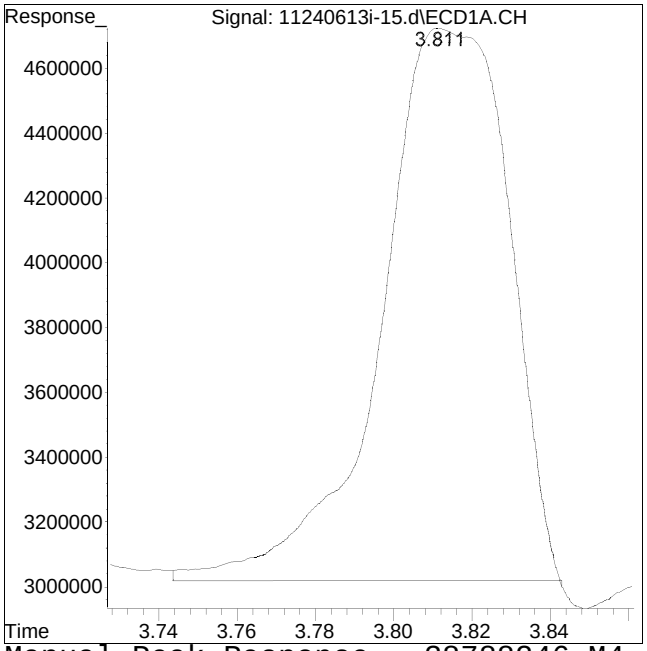
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-15.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:32 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 6/14/2024 2:17 pm

Compound #32: chlordane-5



Original Peak Response = 43771860



Manual Peak Response = 38788246 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:44
Operator : PEST11:kab/elj
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:16:55 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:16:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.433	1.456	174.8E6	119.1E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:44
Operator : PEST11:kab/elj
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:16:55 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:16:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.655	2.956	26967052	18375498	107.366	124.597
30) l1	chlordane-3	3.099	3.583	37244117	24765007	121.533M3	141.234
31) l1	chlordane-4	3.684	4.280	114.4E6	71712337	100.979	116.805
32) l1	chlordane-5	3.815	4.442	178.1E6	57688795	101.438	120.754
Sum	chlordane-1			356.7E6	172.5E6	NoCal	NoCal D
Average	chlordane-1					107.829	125.848
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

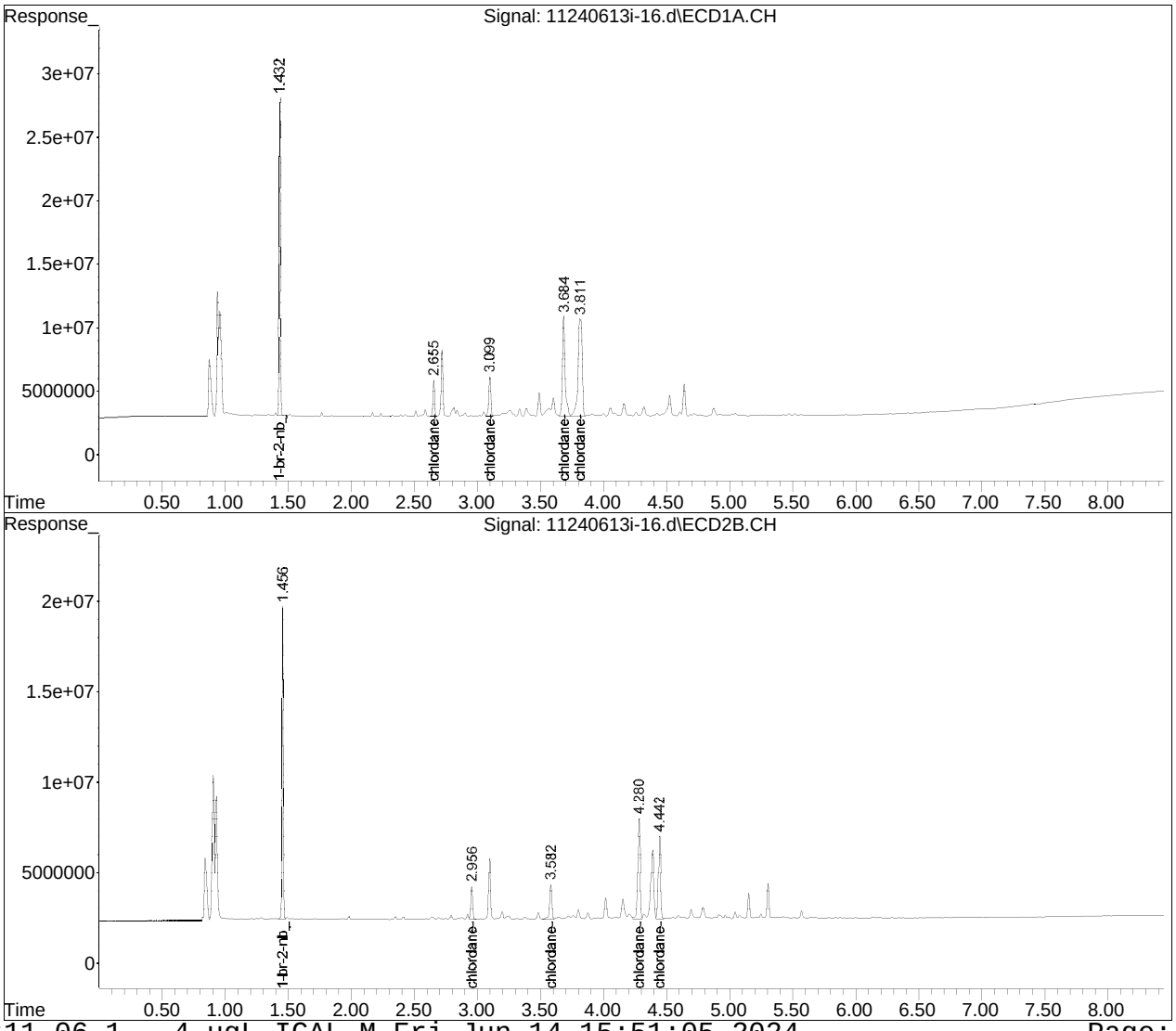
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:44
Operator : PEST11:kab/elj
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:16:55 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:16:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

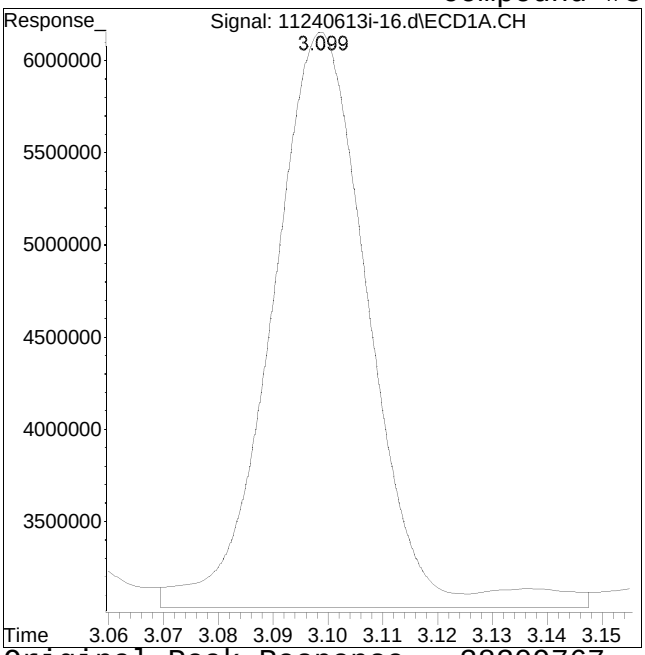
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

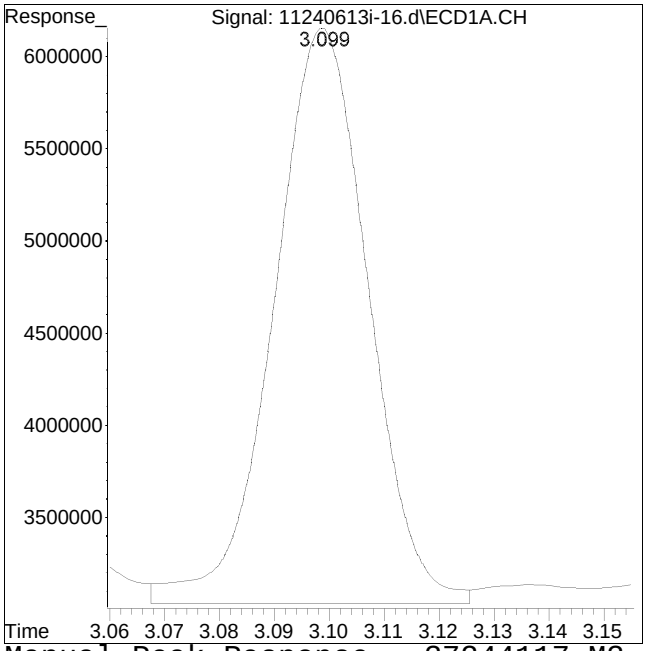


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240613QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240613i-16.d Operator : PEST11:kab/elj
Date Inj'd : 6/13/2024 16:44 Instrument : Pest 11
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 6/14/2024 2:16 pm

Compound #30: chlordane-3





Original Peak Response = 38309767 Manual Peak Response = 37244117 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:56
Operator : PEST11:kab/elj
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:16:02 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:15:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.432	1.456	178.3E6	125.0E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:56
Operator : PEST11:kab/elj
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:16:02 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:15:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.655	2.957	130.8E6	87912977	514.393	595.194
30) l1	chlordane-3	3.098	3.583	168.5E6	111.0E6	553.612	648.195
31) l1	chlordane-4	3.684	4.281	591.1E6	363.3E6	515.615	589.116
32) l1	chlordane-5	3.814	4.444	921.8E6	284.9E6	519.862	595.405
Sum	chlordane-1			1812.3E6	847.1E6	NoCal	NoCal D
Average	chlordane-1					525.871	606.978
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

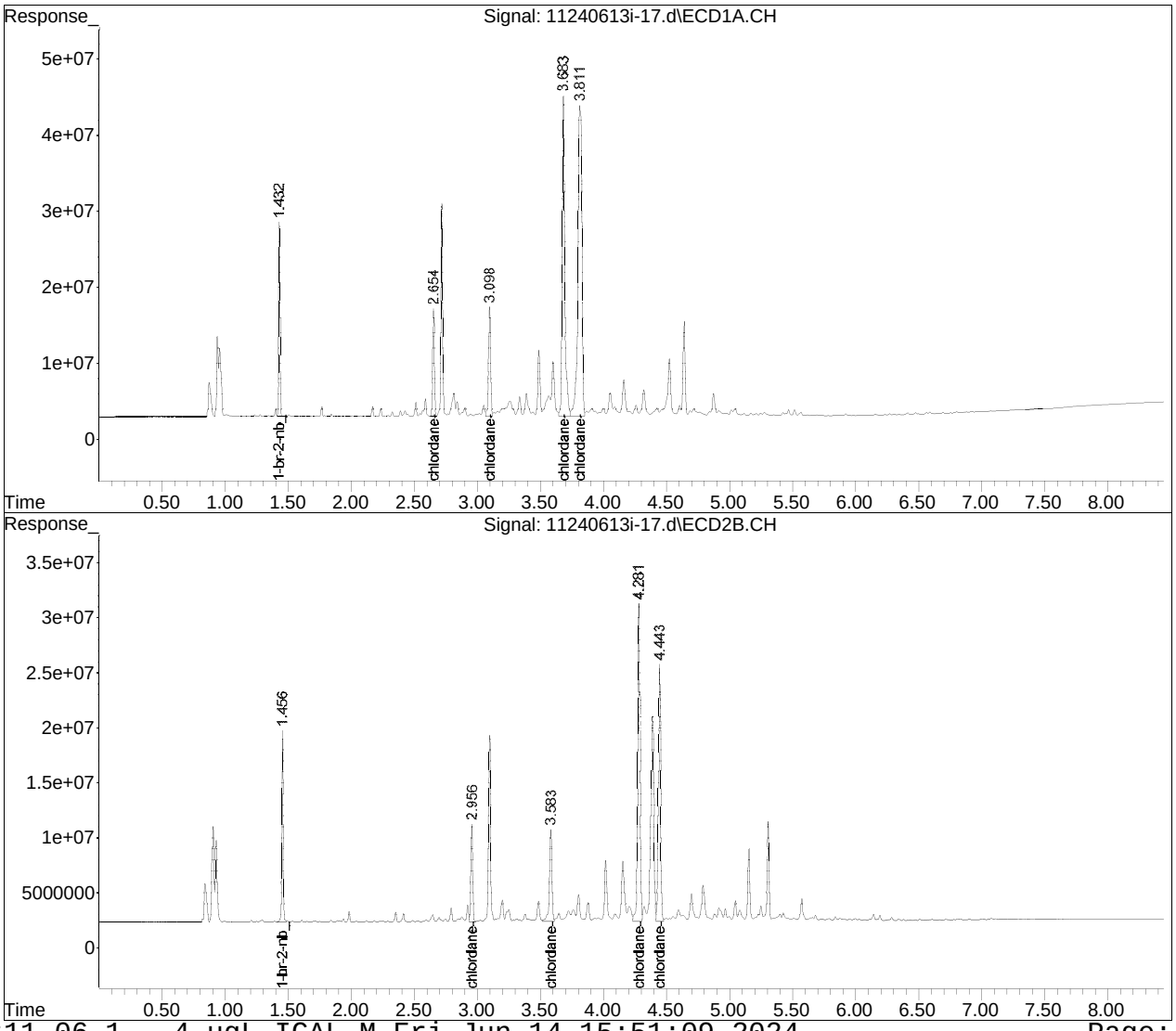
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 16:56
Operator : PEST11:kab/elj
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:16:02 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:15:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-17.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 16:56	Instrument	: Pest 11
Sample	: il7chlor,42e,,pp 11506 L0.	Quant Date	: 6/14/2024 2:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:08
Operator : PEST11:kab/elj
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:13:32 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:13:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.433	1.456	177.4E6	130.2E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:08
Operator : PEST11:kab/elj
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:13:32 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:13:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.656	2.957	262.2E6	173.6E6	917.495	880.921
30) l1	chlordane-3	3.100	3.583	325.6E6	210.2E6	1004.597	1000.000
31) l1	chlordane-4	3.685	4.280	1192.8E6	728.3E6	979.784	1000.000
32) l1	chlordane-5	3.816	4.443	1853.5E6	566.6E6	969.265	1000.000
Sum	chlordane-1			3634.0E6	1678.8E6	NoCal	NoCal D
Average	chlordane-1					967.785	970.230
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

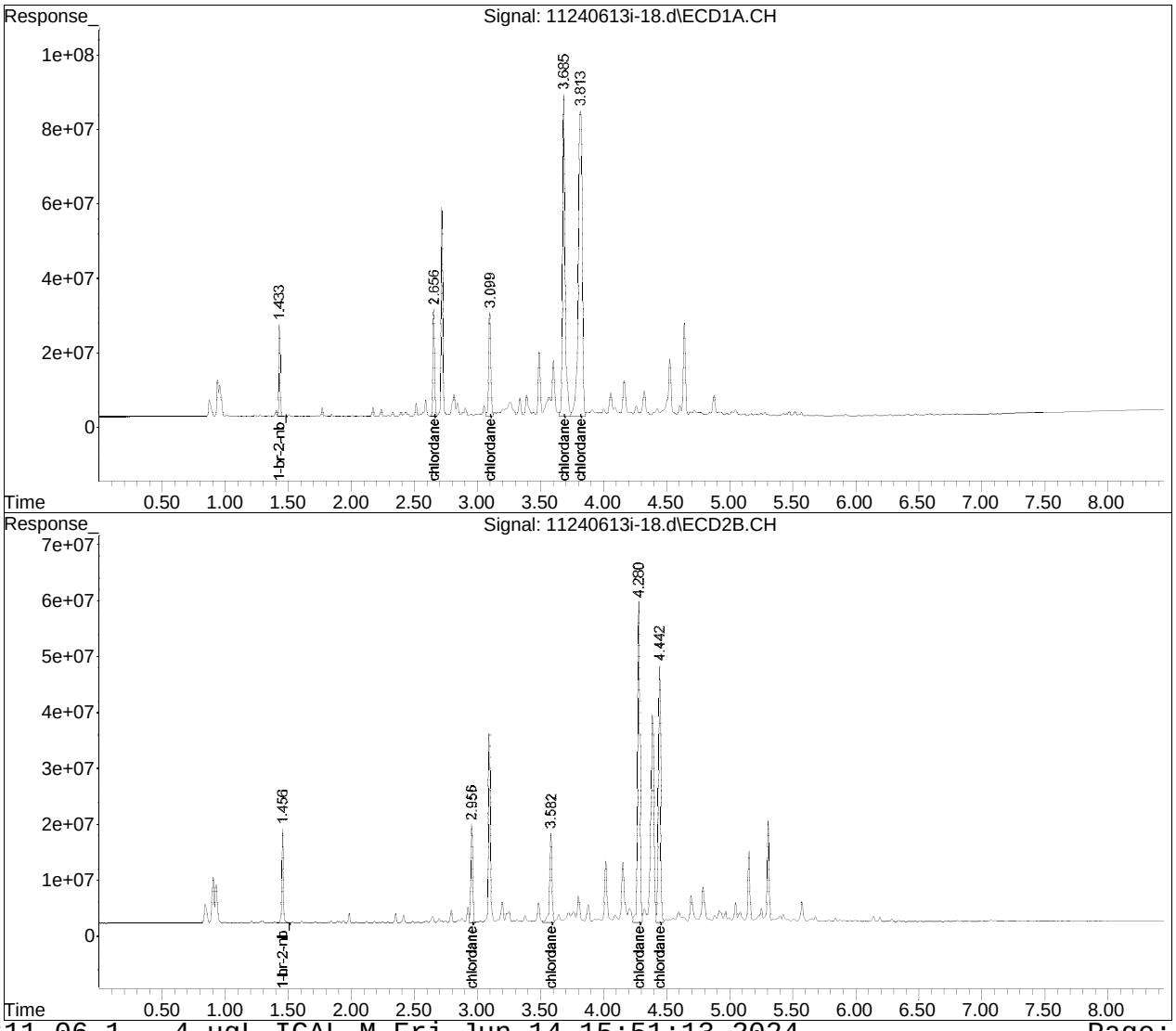
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:08
Operator : PEST11:kab/elj
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:13:32 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:13:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-18.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 17:08	Instrument	: Pest 11
Sample	: il8chlor,42e,,pp 11505 L1.	Quant Date	: 6/14/2024 2:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:20
Operator : PEST11:kab/elj
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:14:17 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.435	1.457	191.7E6	148.6E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:20
Operator : PEST11:kab/elj
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:14:17 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.657	2.957	559.0E6	367.2E6	1972.737	1853.910
30) l1	chlordane-3	3.101	3.583	667.9E6	424.1E6	1898.189	1768.438
31) l1	chlordane-4	3.686	4.281	2534.4E6	1538.8E6	1965.981	1852.106
32) l1	chlordane-5	3.817	4.443	3922.9E6	1193.6E6	1958.368	1846.397
Sum	chlordane-1			7684.1E6	3523.8E6	NoCal	NoCal D
Average	chlordane-1					1948.819	1830.213
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

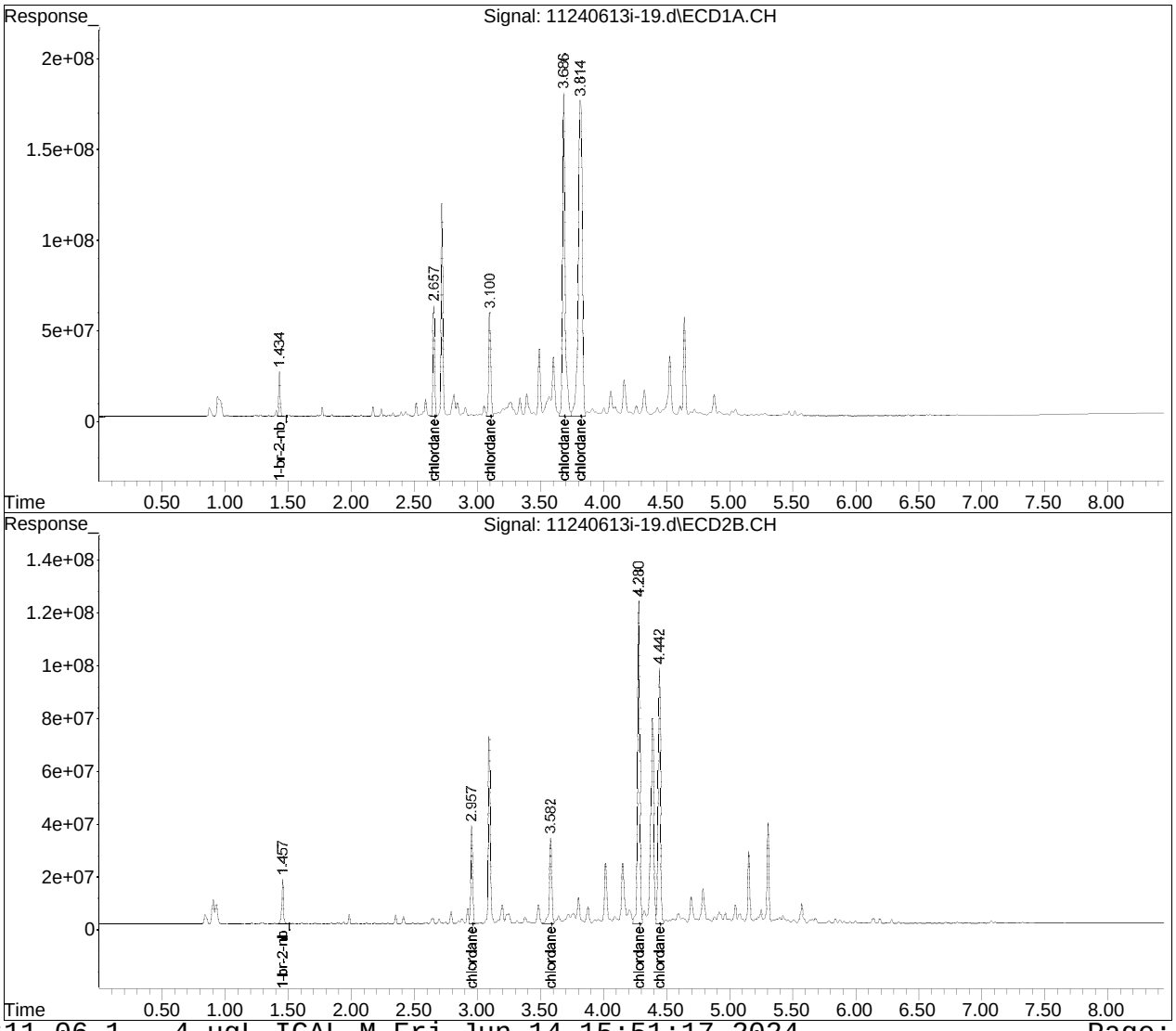
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:20
Operator : PEST11:kab/elj
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:14:17 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613	QMethod	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-19.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 17:20	Instrument	: Pest 11
Sample	: il9chlor,42e,,pp 11504 L2.	Quant Date	: 6/14/2024 2:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:32
Operator : PEST11:kab/elj
Sample : il10chlor,42e,,pp 11515 L5.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:15:10 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.434	1.456	201.0E6	181.6E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:32
Operator : PEST11:kab/elj
Sample : il10chlor,42e,,pp 11515 L5.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:15:10 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.657	2.957	1351.2E6	886.5E6	4579.590	3799.591	
30) l1	chlordane-3	3.101	3.583	1553.4E6	971.3E6	4320.987	3516.293	
31) l1	chlordane-4	3.687	4.281	5988.3E6	3660.1E6	4468.722	3741.604	
32) l1	chlordane-5	3.816	4.443	9203.9E6	2828.9E6	4428.512	3722.449	
Sum	chlordane-1			18096.9E6	8346.9E6	NoCal	NoCal	D
Average	chlordane-1					4449.453	3694.984	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

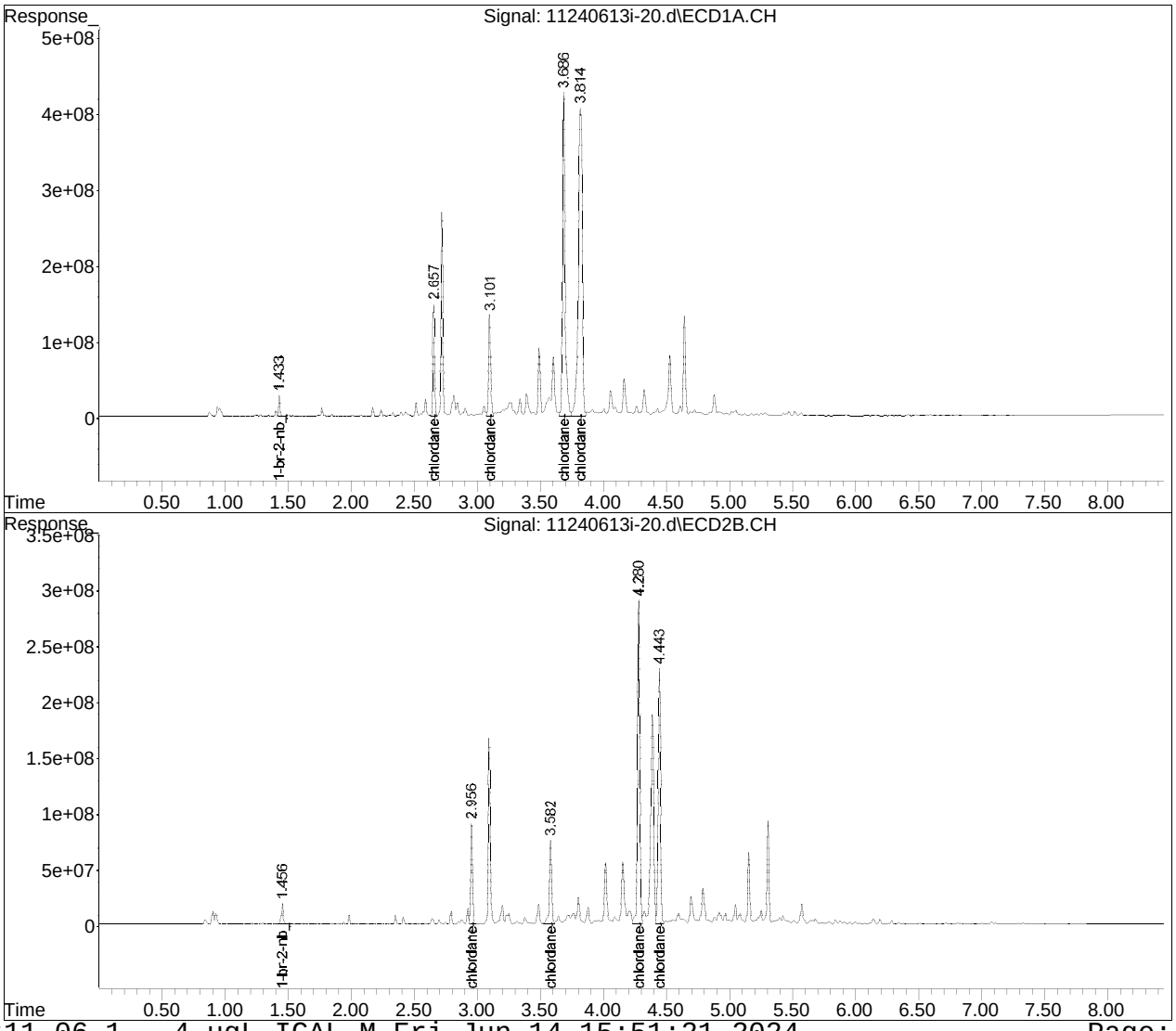
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:32
Operator : PEST11:kab/elj
Sample : il10chlor,42e,,pp 11515 L5.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:15:10 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-20.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 17:32	Instrument	: Pest 11
Sample	: il10chlor,42e,,pp 11515 L5	Quant Date	: 6/14/2024 2:15 pm

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 17:44
Operator : PEST11:kab/elj
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 15:28:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 15:28:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	98	0.00
29	l1	chlordane-1		*1000.000	1028.102	-2.8	102	0.00
30	l1	chlordane-3		*1000.000	1026.950	-2.7	101	0.00
31	l1	chlordane-4		*1000.000	1017.452	-1.7	101	0.00
32	l1	chlordane-5		*1000.000	1133.586	-13.4	112	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	90	0.00
29	l1	chlordane-1		*1000.000	1144.893	-14.5	103	0.00
30	l1	chlordane-3		*1000.000	1143.037	-14.3	101	0.00
31	l1	chlordane-4		*1000.000	1102.446	-10.2	99	0.00
32	l1	chlordane-5		*1000.000	1079.440	-7.9	97	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	0.000	100.0#	0#	-1.79#
3	t	Hexachlorobenzene		1.275	0.000	100.0#	0#	-2.02#
4	t	alpha-BHC		1.524	0.000	100.0#	0#	-2.13#
5	t	gamma-BHC (lindane)		1.455	0.000	100.0#	0#	-2.35#
6	t	beta-BHC		0.696	0.000	100.0#	0#	-2.40#
7	t	delta-BHC		1.422	0.000	100.0#	0#	-2.54#
8	t	Heptachlor		1.524	0.000	100.0#	0#	-2.71#
9	t	Aldrin		1.387	0.000	100.0#	0#	-2.97#
10	t	Alachlor		0.234	0.000	100.0#	0#	-3.10#
11	t	Chlorpyrifos		0.821	0.000	100.0#	0#	-3.19#
12	t	Heptachlor Epoxide		1.353	0.000	100.0#	0#	-3.55#
13	t	gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.68#

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 17:44
Operator : PEST11:kab/elj
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 15:28:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 15:28:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.410	0.000	100.0#	0#	-3.82#
15	t	4,4'-DDE		1.291	0.000	100.0#	0#	-3.91#
16	t	Endosulfan I		1.289	0.000	100.0#	0#	-3.96#
17	t	Dieldrin		1.289	0.000	100.0#	0#	-4.23#
18	t	Endrin		1.305	0.000	100.0#	0#	-4.48#
19	t	4,4'-DDD		1.040	0.000	100.0#	0#	-4.57#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.70#
21	t	4,4'-DDT		1.221	0.000	100.0#	0#	-4.84#
22	t	Endrin Aldehyde		0.995	0.000	100.0#	0#	-5.10#
23	t	Methoxychlor		0.700	0.000	100.0#	0#	-5.30#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.38#
25	t	Endosulfan Sulfate		1.197	0.000	100.0#	0#	-5.48#
26	t	Endrin Ketone		1.264	0.000	100.0#	0#	-5.70#
27	s	Decachlorobiphenyl		1.082	0.000	100.0#	0#	-6.47#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.35#
34	l2	toxaphene-2		0.058	0.000	100.0#	0#	-4.53#
35	l2	toxaphene-3		0.044	0.000	100.0#	0#	-4.65#
36	l2	toxaphene-4		0.046	0.000	100.0#	0#	-4.87#
37	l2	toxaphene-5		0.042	0.000	100.0#	0#	-5.24#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.45#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	0.000	100.0#	0#	-1.95#
3	t	Hexachlorobenzene		1.329	0.000	100.0#	0#	-2.29#
4	t	alpha-BHC		1.585	0.000	100.0#	0#	-2.39#
5	t	gamma-BHC (lindane)		1.506	0.000	100.0#	0#	-2.68#
6	t	beta-BHC		0.741	0.000	100.0#	0#	-2.75#
7	t	delta-BHC		1.490	0.000	100.0#	0#	-3.03#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 17:44
Operator : PEST11:kab/elj
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 15:28:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 15:28:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.555	0.000	100.0#	0#	-3.10#
9	t	Aldrin		1.407	0.000	100.0#	0#	-3.43#
10	t	Alachlor		0.233	0.000	100.0#	0#	-3.30#
11	t	Chlorpyrifos		0.894	0.000	100.0#	0#	-3.67#
12	t	Heptachlor Epoxide		1.404	0.000	100.0#	0#	-4.06#
13	t	gamma-Chlordane (trans)		1.270	0.000	100.0#	0#	-4.28#
14	t	alpha-Chlordane (cis)		1.426	0.000	100.0#	0#	-4.44#
15	t	4,4'-DDE		1.304	0.000	100.0#	0#	-4.63#
16	t	Endosulfan I		1.310	0.000	100.0#	0#	-4.50#
17	t	Dieldrin		1.299	0.000	100.0#	0#	-4.78#
18	t	Endrin		1.313	0.000	100.0#	0#	-5.07#
19	t	4,4'-DDD		1.057	0.000	100.0#	0#	-5.18#
20	t	Endosulfan II		1.211	0.000	100.0#	0#	-5.26#
21	t	4,4'-DDT		1.224	0.000	100.0#	0#	-5.46#
22	t	Endrin Aldehyde		1.022	0.000	100.0#	0#	-5.55#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.01#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.15#
25	t	Endosulfan Sulfate		1.181	0.000	100.0#	0#	-5.78#
26	t	Endrin Ketone		1.290	0.000	100.0#	0#	-6.19#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.04#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-2		0.024	0.000	100.0#	0#	-5.21#
35	l2	toxaphene-3		0.037	0.000	100.0#	0#	-5.24#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.55#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-5.97#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:44
Operator : PEST11:kab/elj
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 15:28:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 15:28:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.433	1.456	177.7E6	121.1E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:44
Operator : PEST11:kab/elj
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 15:28:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 15:28:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.657	2.956	267.9E6	179.2E6	1028.102	1144.893
30) l1	chlordane-3	3.101	3.582	327.8E6	213.3E6	1026.950	1143.037
31) l1	chlordane-4	3.687	4.280	1200.5E6	720.8E6	1017.452	1102.446
32) l1	chlordane-5	3.814	4.443	2074.8E6	549.4E6	1133.586	1079.440
Sum	chlordane-1			3871.0E6	1662.8E6	N.D.	N.D. D
Average	chlordane-1					1051.523	1117.454
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

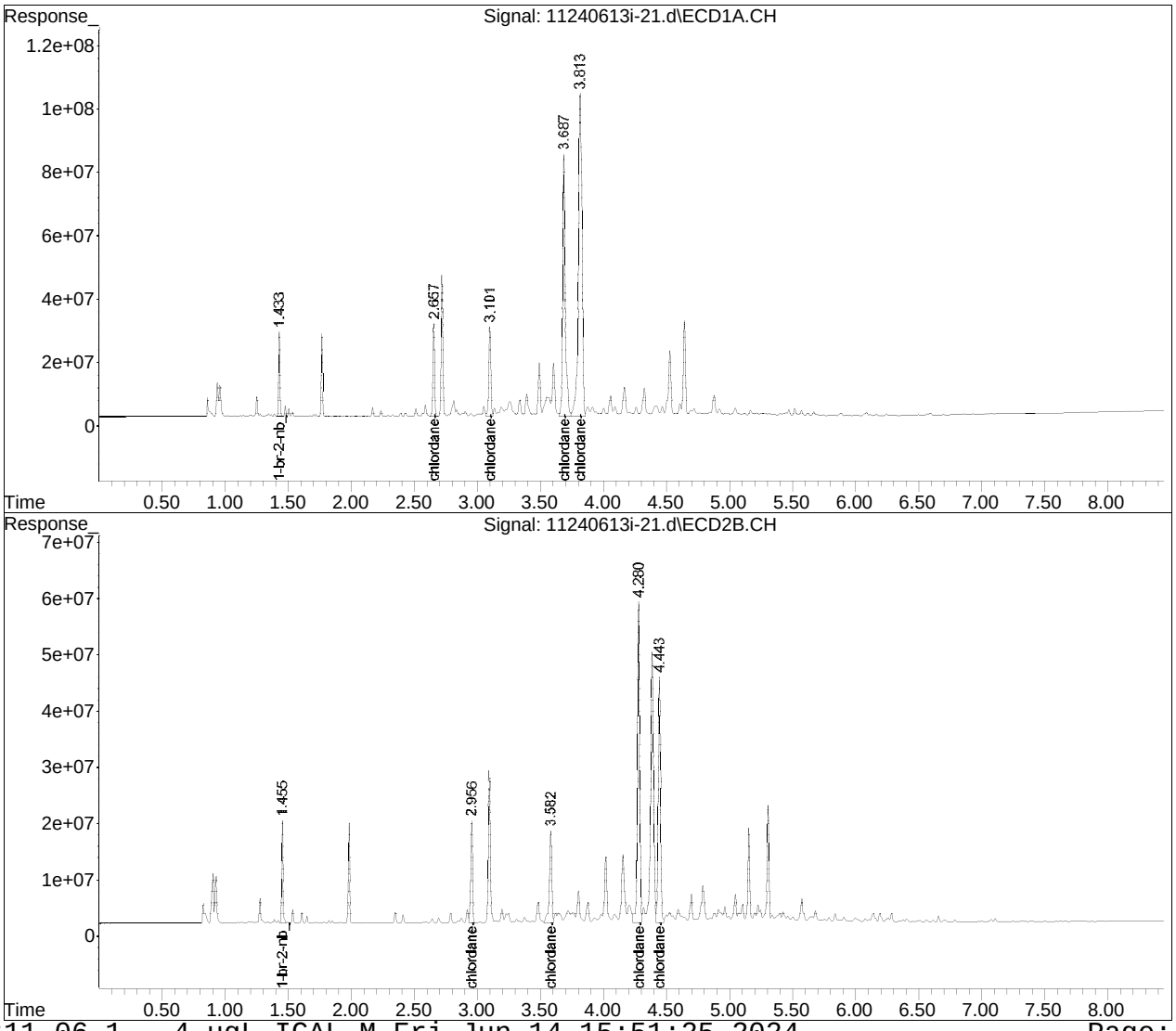
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:44
Operator : PEST11:kab/elj
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 15:28:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 15:28:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-21.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 17:44	Instrument	: Pest 11
Sample	: cicvchlor,42e,,pp 11540 L1	Quant Date	: 6/14/2024 3:28 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:56
Operator : PEST11:kab/elj
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:35:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:35:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.434	1.456	150.4E6	103.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:56
Operator : PEST11:kab/elj
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:35:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:35:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.704	5.224	6638320	1922760	18.844	18.969
35) l2	toxaphene-3	4.818	5.253	4094983	3281117	14.454	21.754
36) l2	toxaphene-4	5.031	5.562	4810046	3603040	16.993	20.462
37) l2	toxaphene-5	5.397	5.966	4234360	3267743	15.885	20.008
Sum	toxaphene-2			19777709	12074659	66.176	81.194
Average	toxaphene-2					16.544	20.299

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			19777709	12074659	66.176	81.194
Average	toxaphene-2					16.544	20.299

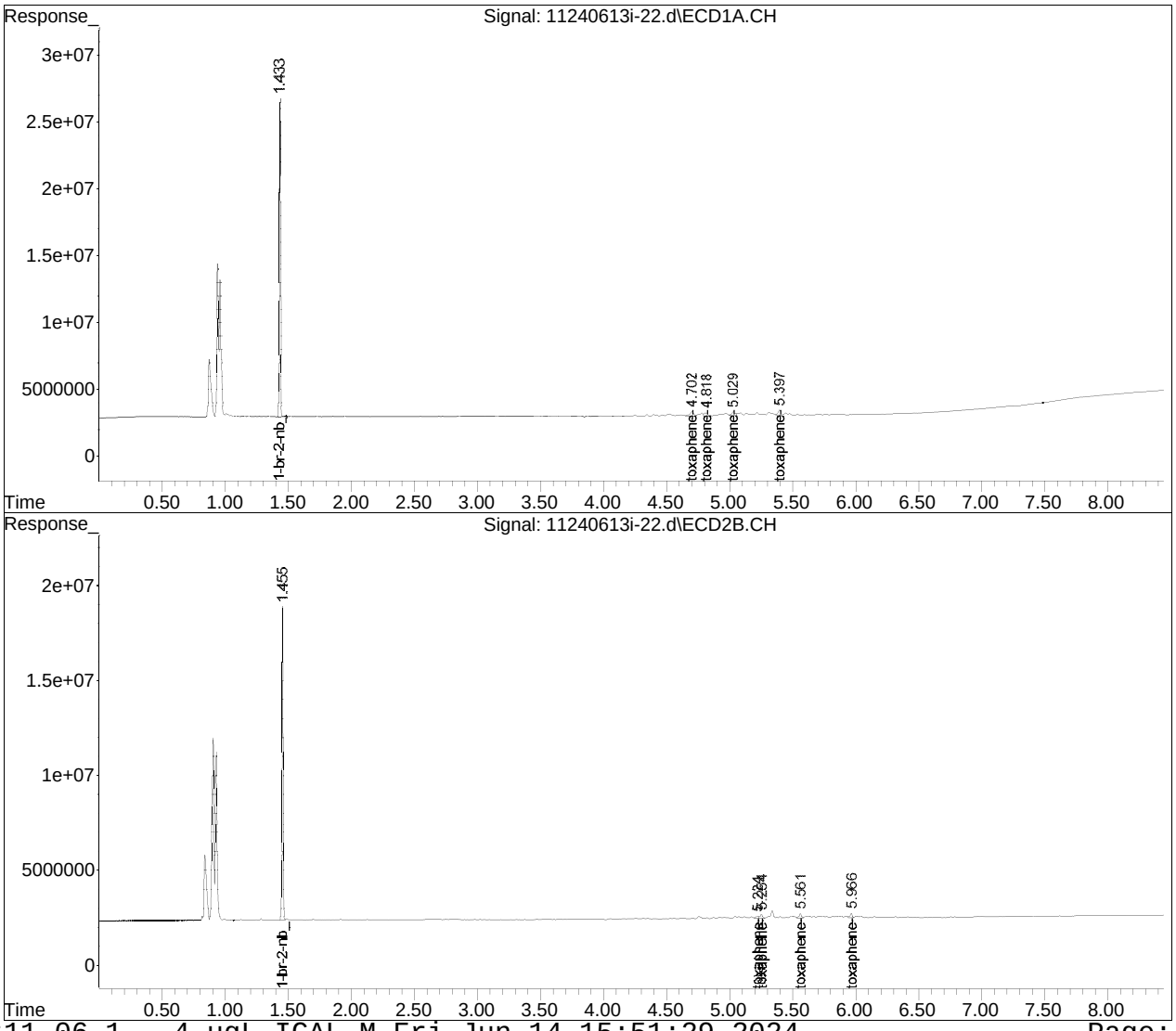
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 17:56
Operator : PEST11:kab/elj
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:35:36 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:35:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613	QMethod	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-22.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 17:56	Instrument	: Pest 11
Sample	: il3tox,42e,,pp 11519 L0.02	Quant Date	: 6/14/2024 2:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:08
Operator : PEST11:kab/elj
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:34:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:34:38 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.434	1.456	148.8E6	102.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:08
Operator : PEST11:kab/elj
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:34:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:34:38 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.704	5.224	35248866	10863724	101.548	111.699
35) l2	toxaphene-3	4.820	5.253	26539999	16436577	93.059	114.290
36) l2	toxaphene-4	5.031	5.562	27789391	18715511	99.009	110.433
37) l2	toxaphene-5	5.397	5.966	26556135	17746045	100.956	113.827
Sum	toxaphene-2			116.1E6	63761857	394.572	450.249
Average	toxaphene-2					98.643	112.562

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			116.1E6	63761857	394.572	450.249
Average	toxaphene-2					98.643	112.562

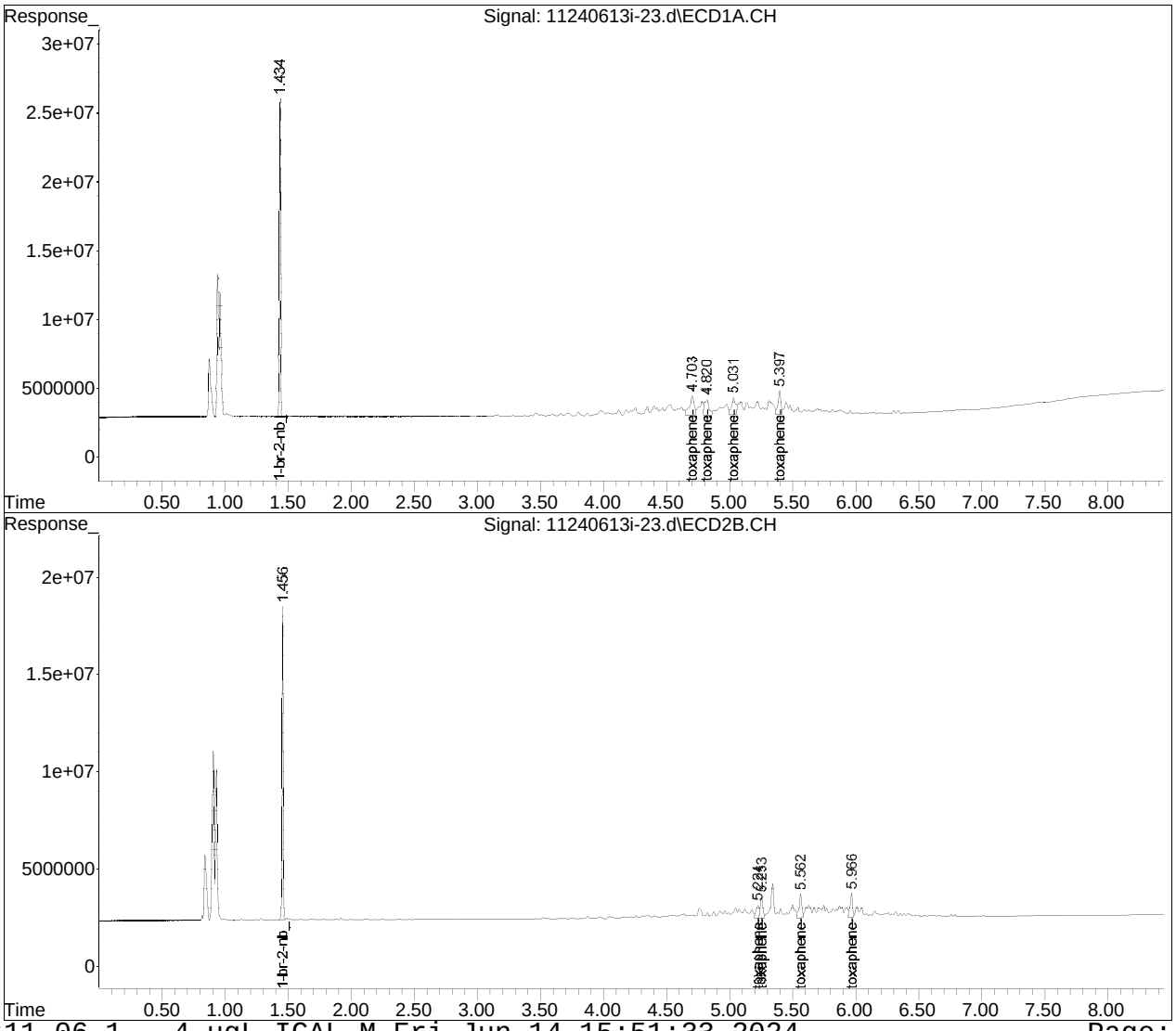
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:08
Operator : PEST11:kab/elj
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:34:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:34:38 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613	QMethod	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-23.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 18:08	Instrument	: Pest 11
Sample	: il4tox,42e,,pp 11518 L0.1	Quant Date	: 6/14/2024 2:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:20
Operator : PEST11:kab/elj
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:34:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:33:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.435	1.456	150.8E6	103.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:20
Operator : PEST11:kab/elj
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:34:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:33:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.705	5.224	360.8E6	100.5E6	1038.702	1034.096
35) l2	toxaphene-3	4.822	5.253	292.2E6	149.5E6	1016.445	1043.850
36) l2	toxaphene-4	5.032	5.562	287.6E6	176.4E6	1016.499	1046.519
37) l2	toxaphene-5	5.397	5.966	272.3E6	162.6E6	1032.420	1048.800
Sum	toxaphene-2			1213.0E6	588.9E6	4104.065	4173.265
Average	toxaphene-2					1026.016	1043.316

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1213.0E6	588.9E6	4104.065	4173.265
Average	toxaphene-2					1026.016	1043.316

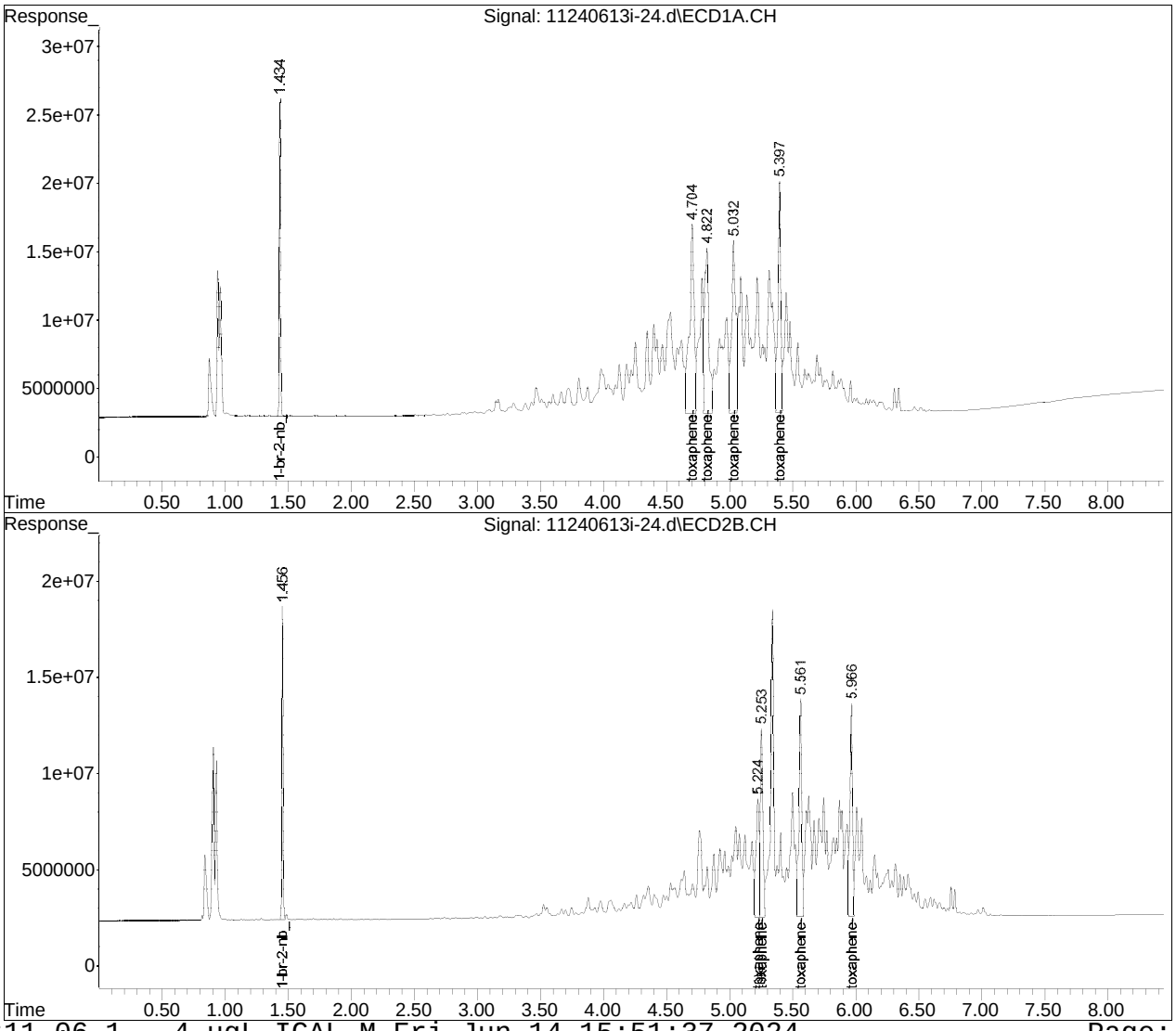
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:20
Operator : PEST11:kab/elj
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:34:04 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:33:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-24.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 18:20	Instrument	: Pest 11
Sample	: il7tox,42e,,pp 11517 L1.0	Quant Date	: 6/14/2024 2:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:32
Operator : PEST11:kab/elj
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:30:59 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:30:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.436	1.457	156.8E6	106.4E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:32
Operator : PEST11:kab/elj
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:30:59 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:30:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.705	5.224	725.4E6	202.0E6	4458.829	2857.143
35) l2	toxaphene-3	4.823	5.253	598.9E6	296.0E6	4060.920	2857.143
36) l2	toxaphene-4	5.033	5.563	589.7E6	349.6E6	4254.732	2857.143
37) l2	toxaphene-5	5.398	5.966	551.0E6	320.9E6	3992.917	2857.143
Sum	toxaphene-2			2465.0E6	1168.5E6	16767.398	11428.571
Average	toxaphene-2					4191.850	2857.143

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			2465.0E6	1168.5E6	16767.398	11428.571
Average	toxaphene-2					4191.850	2857.143

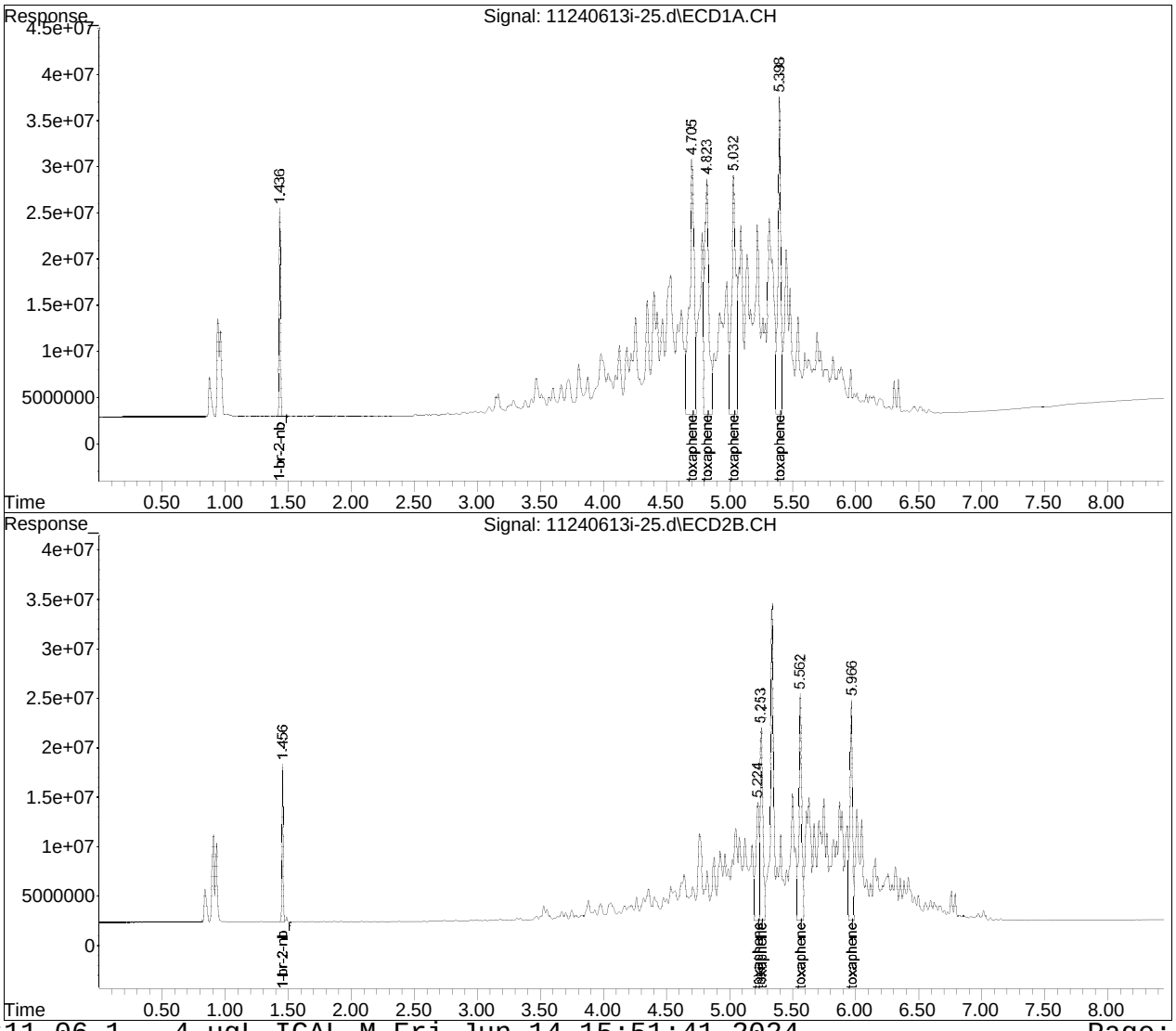
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:32
Operator : PEST11:kab/elj
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:30:59 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:30:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-25.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 18:32	Instrument	: Pest 11
Sample	: il8tox,42e,,pp 11516 L2.0	Quant Date	: 6/14/2024 2:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:44
Operator : PEST11:kab/elj
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:32:03 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:31:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.436	1.456	163.6E6	108.3E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:44
Operator : PEST11:kab/elj
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:32:03 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:31:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.706	5.224	1877.1E6	504.9E6	7894.185	7014.347
35) l2	toxaphene-3	4.823	5.253	1557.6E6	748.8E6	7778.837	7101.046
36) l2	toxaphene-4	5.033	5.562	1531.9E6	878.9E6	7847.687	7057.985
37) l2	toxaphene-5	5.398	5.966	1424.9E6	809.1E6	7705.473	7077.090
Sum	toxaphene-2			6391.5E6	2941.7E6	31226.182	28250.467
Average	toxaphene-2					7806.546	7062.617

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			6391.5E6	2941.7E6	31226.182	28250.467
Average	toxaphene-2					7806.546	7062.617

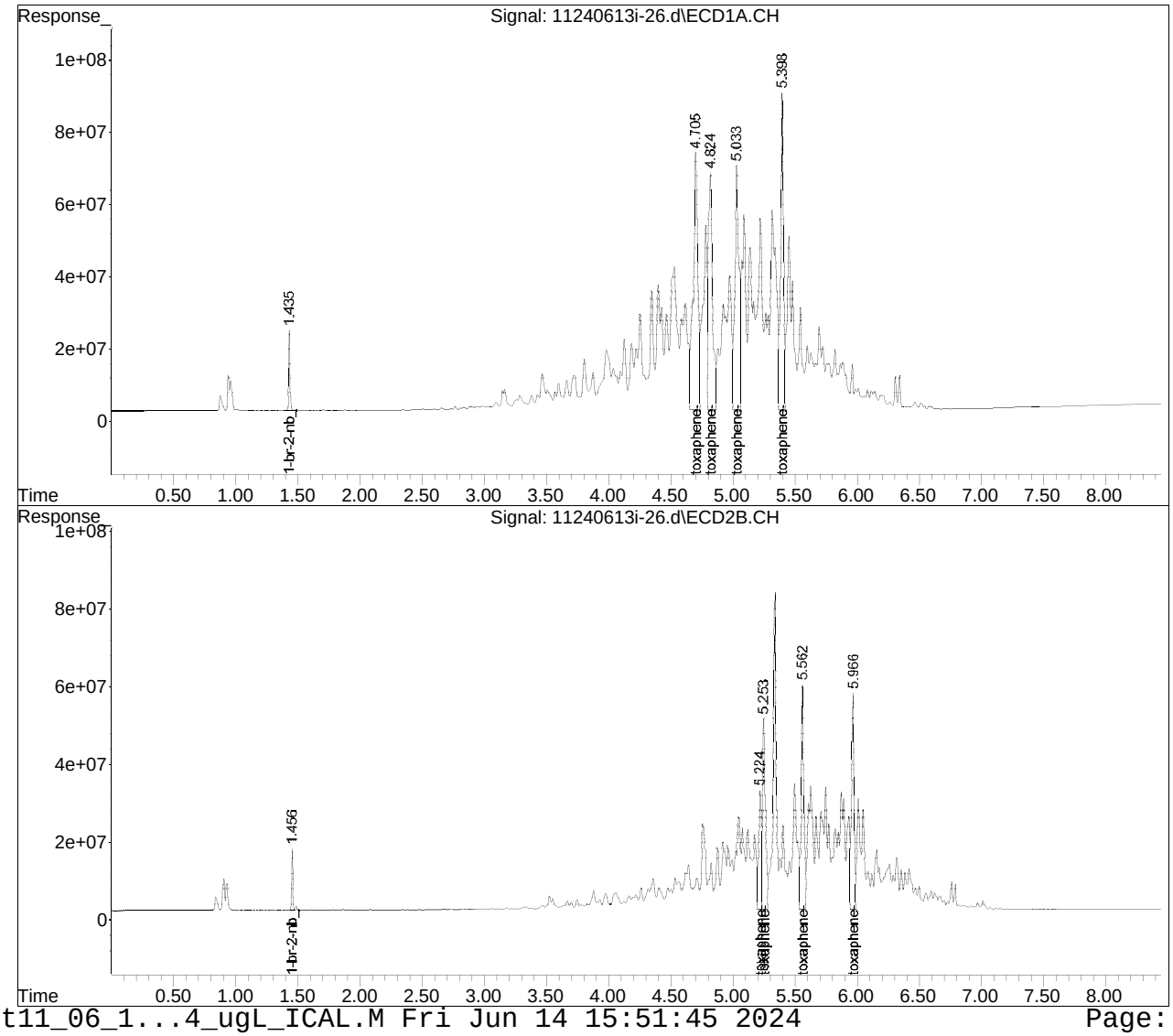
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:44
Operator : PEST11:kab/elj
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:32:03 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:31:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613	QMethod	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-26.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 18:44	Instrument	: Pest 11
Sample	: il9tox,42e,,pp 11510 L5.0	Quant Date	: 6/14/2024 2:32 pm

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 18:56
Operator : PEST11:kab/elj
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:36:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	104	0.09
34	l2	toxaphene-2		0.058	0.067	-15.5#	118	0.18
35	l2	toxaphene-3		0.044	0.049	-11.4	106	0.17
36	l2	toxaphene-4		0.046	0.051	-10.9	111	0.16
37	l2	toxaphene-5		0.042	0.047	-11.9	109	0.16

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	101	0.03
34	l2	toxaphene-2		0.024	0.028	-16.7#	117	0.01
35	l2	toxaphene-3		0.037	0.041	-10.8	116	0.01
36	l2	toxaphene-4		0.043	0.044	-2.3	106	0.00
37	l2	toxaphene-5		0.039	0.043	-10.3	115	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	0.000	100.0#	0#	-1.79#
3	t	Hexachlorobenzene		1.275	0.000	100.0#	0#	-2.02#
4	t	alpha-BHC		1.524	0.000	100.0#	0#	-2.13#
5	t	gamma-BHC (lindane)		1.455	0.000	100.0#	0#	-2.35#
6	t	beta-BHC		0.696	0.000	100.0#	0#	-2.40#
7	t	delta-BHC		1.422	0.000	100.0#	0#	-2.54#
8	t	Heptachlor		1.524	0.000	100.0#	0#	-2.71#
9	t	Aldrin		1.387	0.000	100.0#	0#	-2.97#
10	t	Alachlor		0.234	0.000	100.0#	0#	-3.10#
11	t	Chlorpyrifos		0.821	0.000	100.0#	0#	-3.19#
12	t	Heptachlor Epoxide		1.353	0.000	100.0#	0#	-3.55#
13	t	gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 18:56
Operator : PEST11:kab/elj
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:36:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.410	0.000	100.0#	0#	-3.82#
15	t	4,4'-DDE		1.291	0.000	100.0#	0#	-3.91#
16	t	Endosulfan I		1.289	0.000	100.0#	0#	-3.96#
17	t	Dieldrin		1.289	0.000	100.0#	0#	-4.23#
18	t	Endrin		1.305	0.000	100.0#	0#	-4.48#
19	t	4,4'-DDD		1.040	0.000	100.0#	0#	-4.57#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.70#
21	t	4,4'-DDT		1.221	0.000	100.0#	0#	-4.84#
22	t	Endrin Aldehyde		0.995	0.000	100.0#	0#	-5.10#
23	t	Methoxychlor		0.700	0.000	100.0#	0#	-5.30#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.38#
25	t	Endosulfan Sulfate		1.197	0.000	100.0#	0#	-5.48#
26	t	Endrin Ketone		1.264	0.000	100.0#	0#	-5.70#
27	s	Decachlorobiphenyl		1.082	0.000	100.0#	0#	-6.47#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.66#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.10#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.69#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.82#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.45#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	0.000	100.0#	0#	-1.95#
3	t	Hexachlorobenzene		1.329	0.000	100.0#	0#	-2.29#
4	t	alpha-BHC		1.585	0.000	100.0#	0#	-2.39#
5	t	gamma-BHC (lindane)		1.506	0.000	100.0#	0#	-2.68#
6	t	beta-BHC		0.741	0.000	100.0#	0#	-2.75#
7	t	delta-BHC		1.490	0.000	100.0#	0#	-3.03#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Jun 2024 18:56
Operator : PEST11:kab/elj
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:36:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.555	0.000	100.0#	0#	-3.10#
9	t	Aldrin		1.407	0.000	100.0#	0#	-3.43#
10	t	Alachlor		0.233	0.000	100.0#	0#	-3.30#
11	t	Chlorpyrifos		0.894	0.000	100.0#	0#	-3.67#
12	t	Heptachlor Epoxide		1.404	0.000	100.0#	0#	-4.06#
13	t	gamma-Chlordane (trans)		1.270	0.000	100.0#	0#	-4.28#
14	t	alpha-Chlordane (cis)		1.426	0.000	100.0#	0#	-4.44#
15	t	4,4'-DDE		1.304	0.000	100.0#	0#	-4.63#
16	t	Endosulfan I		1.310	0.000	100.0#	0#	-4.50#
17	t	Dieldrin		1.299	0.000	100.0#	0#	-4.78#
18	t	Endrin		1.313	0.000	100.0#	0#	-5.07#
19	t	4,4'-DDD		1.057	0.000	100.0#	0#	-5.18#
20	t	Endosulfan II		1.211	0.000	100.0#	0#	-5.26#
21	t	4,4'-DDT		1.224	0.000	100.0#	0#	-5.46#
22	t	Endrin Aldehyde		1.022	0.000	100.0#	0#	-5.55#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.01#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.15#
25	t	Endosulfan Sulfate		1.181	0.000	100.0#	0#	-5.78#
26	t	Endrin Ketone		1.290	0.000	100.0#	0#	-6.19#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.04#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.46#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.96#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.58#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.28#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.44#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:56
Operator : PEST11:kab/elj
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:36:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.437	1.457	160.3E6	106.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:56
Operator : PEST11:kab/elj
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:36:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.707	5.224	859.3E6	235.8E6	2314.779	2291.635
35) l2	toxaphene-3	4.824	5.253	632.7E6	344.2E6	2217.574	2186.447
36) l2	toxaphene-4	5.034	5.563	653.8E6	369.7E6	2233.623	2037.639
37) l2	toxaphene-5	5.399	5.966	599.5E6	369.2E6	2200.090	2204.002
Sum	toxaphene-2			2745.4E6	1318.8E6	8966.066	8719.723
Average	toxaphene-2					2241.516	2179.931

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			2745.4E6	1318.8E6	8966.066	8719.723
Average	toxaphene-2					2241.516	2179.931

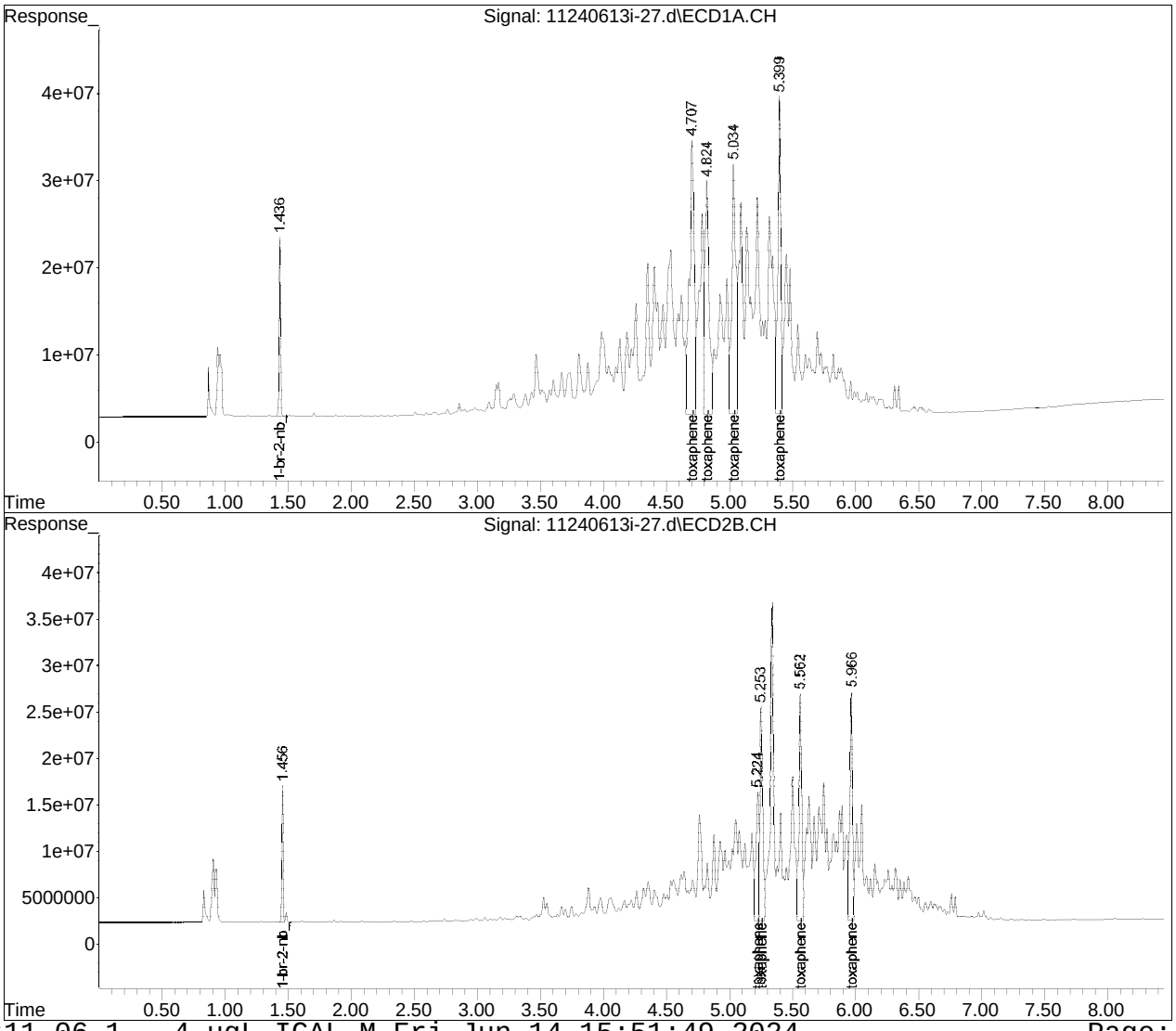
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240613ICAL\
Data File : 11240613i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Jun 2024 18:56
Operator : PEST11:kab/elj
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : WG1934571,, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 14:36:53 2024
Quant Method : I:\PEST\Pest11\2024\240613ICAL\pest11_06_13_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Jun 14 14:36:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2024\240613Q	Method	: pest11_06_13_24_ugL_ICAL
Data File	: 11240613i-27.d	Operator	: PEST11:kab/elj
Date Inj'd	: 6/13/2024 18:56	Instrument	: Pest 11
Sample	: cicvtox,42e,,pp 11541 L2.0	Quant Date	: 6/14/2024 2:36 pm

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report Pest 11

Method Path : I:\PEST\Pest11\2024\240613ICAL\
Method File : pest11_06_13_24_ugL_ICAL.M
Title : pest
Last Update : Fri Jun 14 15:27:41 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
24	T Mirex	L	ug/l	50.0	47.694	-4.6	2.00	1.717	-14.1
29	L1 chlordane-1	L	ug/l	1000.0	1007.563	0.8	10.00	8.708	-12.9
30	L1 chlordane-3	L	ug/l	1000.0	1021.149	2.1	10.00	7.497	-25.0
31	L1 chlordane-4	L	ug/l	1000.0	1012.337	1.2	10.00	9.988	-0.1
32	L1 chlordane-5	L	ug/l	1000.0	1013.961	1.4	10.00	9.976	-0.2
61	T Methoxychlor #2	L	ug/l	50.0	50.318	0.6	2.00	1.596	-20.2
62	T Mirex #2	L	ug/l	50.0	49.905	-0.2	2.00	1.578	-21.1
65	S Decachlorobiphenyl #2	L	ug/l	50.0	50.650	1.3	2.00	1.504	-24.8
67	L1 chlordane-1 #2	L	ug/l	1000.0	1030.827	3.1	10.00	7.361	-26.4
68	L1 chlordane-3 #2	L	ug/l	1000.0	1047.015	4.7	10.00	5.938	-40.6
69	L1 chlordane-4 #2	L	ug/l	1000.0	1035.752	3.6	10.00	8.296	-17.0
70	L1 chlordane-5 #2	L	ug/l	1000.0	1035.306	3.5	10.00	7.821	-21.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
24	T Mirex	Linear	0.999167	0.000000	0.970371	0.0432888
29	L1 chlordane-1	Linear	0.999839	0.000000	0.0365225	0.00580403
30	L1 chlordane-3	Linear	0.998444	0.000000	0.0446175	0.0125077
31	L1 chlordane-4	Linear	0.999909	0.000000	0.165705	0.0130417
32	L1 chlordane-5	Linear	0.999900	0.000000	0.257236	0.0139165
61	T Methoxychlor #2	Linear	0.999372	0.000000	0.595402	0.0289158
62	T Mirex #2	Linear	0.999134	0.000000	0.862031	0.0540281
65	S Decachlorobiphenyl #2	Linear	0.998949	0.000000	0.862574	0.0594342
67	L1 chlordane-1 #2	Linear	0.997054	0.000000	0.032109	0.00929436
68	L1 chlordane-3 #2	Linear	0.991284	0.000000	0.0381325	0.0172631
69	L1 chlordane-4 #2	Linear	0.997802	0.000000	0.134258	0.0301573
70	L1 chlordane-5 #2	Linear	0.997281	0.000000	0.104457	0.0253991

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 07:58		
Lab File ID	: 11240615a-03	**Init. Calib. Date(s)**	: 06/13/24	06/13/24	
Sample No	: WG1934790-1	**Init. Calib. Times**	: 14:08	18:44	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	15	105	0
2,4,5,6-Tetrachloro-m-xylen	1.113	1.077	-	3.2	15	98	0
Hexachlorobenzene	1.275	1.153	-	9.6	15	95	0
alpha-BHC	1.524	1.6	-	-5	15	100	0
gamma-BHC (lindane)	1.455	1.444	-	0.8	15	97	0
beta-BHC	0.696	0.621	-	10.8	15	96	0
delta-BHC	1.422	1.413	-	0.6	15	95	0
Heptachlor	1.524	1.491	-	2.2	15	94	0
Aldrin	1.387	1.407	-	-1.4	15	98	0
Alachlor	0.234	0.193	-	17.5*	15	68	0
Chlorpyrifos	0.821	0.684	-	16.7*	15	95	0
Heptachlor Epoxide	1.353	1.301	-	3.8	15	100	0
gamma-Chlordane (trans)	1.246	1.363	-	-9.4	15	112	0
alpha-Chlordane (cis)	1.41	1.321	-	6.3	15	98	0
4,4'-DDE	1.291	1.315	-	-1.9	15	100	0
Endosulfan I	1.289	1.231	-	4.5	15	100	0
Dieldrin	1.289	1.39	-	-7.8	15	105	0
Endrin	1.305	1.316	-	-0.8	15	99	0
4,4'-DDD	1.04	1.114	-	-7.1	15	104	0
Endosulfan II	1.214	1.191	-	1.9	15	100	0
4,4'-DDT	1.221	1.241	-	-1.6	15	101	0
Endrin Aldehyde	0.995	0.882	-	11.4	15	95	0
Methoxychlor	0.7	0.668	-	4.6	15	101	0
Mirex	50	52.176	-	-4.4	15	102	0
Endosulfan Sulfate	1.197	1.115	-	6.9	15	100	0
Endrin Ketone	1.264	1.294	-	-2.4	15	107	0
Decachlorobiphenyl	1.082	0.565	-	47.8*	15	58	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 07:58	
Lab File ID	: 11240615a-03	**Init. Calib. Date(s)**	: 06/13/24	06/13/24
Sample No	: WG1934790-1	**Init. Calib. Times**	: 14:08	18:44
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	15	118	0
2,4,5,6-Tetrachloro-m-xyl	1.171	1.057	-	9.7	15	111	0
Hexachlorobenzene	1.329	1.162	-	12.6	15	113	0
alpha-BHC	1.585	1.582	-	0.2	15	113	0
gamma-BHC (lindane)	1.506	1.424	-	5.4	15	112	0
beta-BHC	0.741	0.633	-	14.6	15	111	0
delta-BHC	1.49	1.397	-	6.2	15	109	0
Heptachlor	1.555	1.46	-	6.1	15	113	0
Aldrin	1.407	1.353	-	3.8	15	115	0
Alachlor	0.233	0.197	-	15.5*	15	113	0
Chlorpyrifos	0.894	0.715	-	20*	15	113	0
Heptachlor Epoxide	1.404	1.279	-	8.9	15	113	0
gamma-Chlordane (trans)	1.27	1.309	-	-3.1	15	129	0
alpha-Chlordane (cis)	1.426	1.283	-	10	15	113	0
4,4'-DDE	1.304	1.252	-	4	15	114	0
Endosulfan I	1.31	1.186	-	9.5	15	113	0
Dieldrin	1.299	1.311	-	-0.9	15	123	0
Endrin	1.313	1.226	-	6.6	15	113	0
4,4'-DDD	1.057	1.04	-	1.6	15	119	0
Endosulfan II	1.211	1.104	-	8.8	15	115	0
4,4'-DDT	1.224	1.116	-	8.8	15	113	0
Endrin Aldehyde	1.022	0.822	-	19.6*	15	105	0
Methoxychlor	50	49.875	-	0.3	15	114	0
Mirex	50	49.889	-	0.2	15	115	0
Endosulfan Sulfate	1.181	1.044	-	11.6	15	116	0
Endrin Ketone	1.29	1.176	-	8.8	15	117	0
Decachlorobiphenyl	50	29.284	-	41.4*	15	68	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 08:10		
Lab File ID	: 11240615a-04	**Init. Calib. Date(s)**	: 06/13/24	06/13/24	
Sample No	: WG1934790-2	**Init. Calib. Times**	: 14:08	18:44	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	15	96	0
chlordane-1	1000	868.167	-	13.2	15	84	0
chlordane-3	1000	857.702	-	14.2	15	82	0
chlordane-4	1000	846.59	-	15.3*	15	82	0
chlordane-5	1000	935.526	-	6.4	15	90	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 08:10
Lab File ID	: 11240615a-04	**Init. Calib. Date(s)**	: 06/13/24 06/13/24
Sample No	: WG1934790-2	**Init. Calib. Times**	: 14:08 18:44
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	15	98	0
chlordane-1	1000	957.711	-	4.2	15	94	0
chlordane-3	1000	950.832	-	4.9	15	92	0
chlordane-4	1000	922.636	-	7.7	15	90	0
chlordane-5	1000	906.631	-	9.3	15	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 08:22
Lab File ID	: 11240615a-05	**Init. Calib. Date(s)**	: 06/13/24 06/13/24
Sample No	: WG1934790-3	**Init. Calib. Times**	: 14:08 18:44
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	15	112	0
toxaphene-2	0.058	0.063	-	-8.6	15	120	0
toxaphene-3	0.044	0.043	-	2.3	15	99	0
toxaphene-4	0.046	0.049	-	-6.5	15	114	0
toxaphene-5	0.042	0.047	-	-11.9	15	119	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 08:22
Lab File ID	: 11240615a-05	**Init. Calib. Date(s)**	: 06/13/24 06/13/24
Sample No	: WG1934790-3	**Init. Calib. Times**	: 14:08 18:44
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	15	122	0
toxaphene-2	0.024	0.026	-	-8.3	15	130	0
toxaphene-3	0.037	0.038	-	-2.7	15	131	0
toxaphene-4	0.043	0.036	-	16.3*	15	106	0
toxaphene-5	0.039	0.039	-	0	15	126	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 15:31		
Lab File ID	: 11240615a-37	**Init. Calib. Date(s)**	: 06/13/24	06/13/24	
Sample No	: WG1934790-4	**Init. Calib. Times**	: 14:08	18:44	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	15	94	0
2,4,5,6-Tetrachloro-m-xylen	1.113	1.059	-	4.9	15	87	0
Hexachlorobenzene	1.275	1.147	-	10	15	85	0
alpha-BHC	1.524	1.575	-	-3.3	15	88	0
gamma-BHC (lindane)	1.455	1.428	-	1.9	15	86	0
beta-BHC	0.696	0.63	-	9.5	15	88	0
delta-BHC	1.422	1.416	-	0.4	15	85	0
Heptachlor	1.524	1.402	-	8	15	79	0
Aldrin	1.387	1.39	-	-0.2	15	87	0
Alachlor	0.234	0.208	-	11.1	15	66	0
Chlorpyrifos	0.821	0.668	-	18.6*	15	83	0
Heptachlor Epoxide	1.353	1.303	-	3.7	15	90	0
gamma-Chlordane (trans)	1.246	1.342	-	-7.7	15	99	0
alpha-Chlordane (cis)	1.41	1.308	-	7.2	15	87	0
4,4'-DDE	1.291	1.276	-	1.2	15	87	0
Endosulfan I	1.289	1.221	-	5.3	15	89	0
Dieldrin	1.289	1.368	-	-6.1	15	93	0
Endrin	1.305	1.301	-	0.3	15	88	0
4,4'-DDD	1.04	1.111	-	-6.8	15	93	0
Endosulfan II	1.214	1.19	-	2	15	90	0
4,4'-DDT	1.221	1.075	-	12	15	78	0
Endrin Aldehyde	0.995	0.794	-	20.2*	15	77	0
Methoxychlor	0.7	0.576	-	17.7*	15	78	0
Mirex	50	51.201	-	-2.4	15	90	0
Endosulfan Sulfate	1.197	1.095	-	8.5	15	88	0
Endrin Ketone	1.264	1.215	-	3.9	15	90	0
Decachlorobiphenyl	1.082	0.565	-	47.8*	15	52	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 06/15/24 15:31		
Lab File ID	: 11240615a-37	**Init. Calib. Date(s)**	: 06/13/24	06/13/24	
Sample No	: WG1934790-4	**Init. Calib. Times**	: 14:08	18:44	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	15	99	0
2,4,5,6-Tetrachloro-m-xyl	1.171	1.067	-	8.9	15	94	0
Hexachlorobenzene	1.329	1.16	-	12.7	15	95	0
alpha-BHC	1.585	1.549	-	2.3	15	93	0
gamma-BHC (lindane)	1.506	1.399	-	7.1	15	92	0
beta-BHC	0.741	0.643	-	13.2	15	94	0
delta-BHC	1.49	1.389	-	6.8	15	91	0
Heptachlor	1.555	1.367	-	12.1	15	89	0
Aldrin	1.407	1.321	-	6.1	15	94	0
Alachlor	0.233	0.2	-	14.2	15	97	0
Chlorpyrifos	0.894	0.692	-	22.6*	15	92	0
Heptachlor Epoxide	1.404	1.253	-	10.8	15	93	0
gamma-Chlordane (trans)	1.27	1.309	-	-3.1	15	108	0
alpha-Chlordane (cis)	1.426	1.268	-	11.1	15	94	0
4,4'-DDE	1.304	1.232	-	5.5	15	94	0
Endosulfan I	1.31	1.176	-	10.2	15	94	0
Dieldrin	1.299	1.306	-	-0.5	15	103	0
Endrin	1.313	1.234	-	6	15	96	0
4,4'-DDD	1.057	1.046	-	1	15	100	0
Endosulfan II	1.211	1.103	-	8.9	15	96	0
4,4'-DDT	1.224	0.972	-	20.6*	15	82	0
Endrin Aldehyde	1.022	0.738	-	27.8*	15	79	0
Methoxychlor	50	41.536	-	16.9*	15	80	0
Mirex	50	45.984	-	8	15	89	0
Endosulfan Sulfate	1.181	0.999	-	15.4*	15	93	0
Endrin Ketone	1.29	1.119	-	13.3	15	94	0
Decachlorobiphenyl	50	27.838	-	44.3*	15	54	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   7:58
Operator : PEST11:peg
Sample   : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	1.077	3.2	98	0.00
3	t	Hexachlorobenzene		1.275	1.153	9.6	95	0.00
4	t	alpha-BHC		1.524	1.600	-5.0	100	0.00
5	t	gamma-BHC (lindane)		1.455	1.444	0.8	97	0.00
6	t	beta-BHC		0.696	0.621	10.8	96	0.00
7	t	delta-BHC		1.422	1.413	0.6	95	0.00
8	t	Heptachlor		1.524	1.491	2.2	94	0.00
9	t	Aldrin		1.387	1.407	-1.4	98	0.00
10	t	Alachlor		0.234	0.193	17.5#	68	0.00
11	t	Chlorpyrifos		0.821	0.684	16.7#	95	0.00
12	t	Heptachlor Epoxide		1.353	1.301	3.8	100	0.00
13	t	gamma-Chlordane (trans)		1.246	1.363	-9.4	112	0.00
14	t	alpha-Chlordane (cis)		1.410	1.321	6.3	98	0.00
15	t	4,4'-DDE		1.291	1.315	-1.9	100	0.00
16	t	Endosulfan I		1.289	1.231	4.5	100	0.00
17	t	Dieldrin		1.289	1.390	-7.8	105	0.00
18	t	Endrin		1.305	1.316	-0.8	99	0.00
19	t	4,4'-DDD		1.040	1.114	-7.1	104	0.00
20	t	Endosulfan II		1.214	1.191	1.9	100	0.00
21	t	4,4'-DDT		1.221	1.241	-1.6	101	0.00
22	t	Endrin Aldehyde		0.995	0.882	11.4	95	0.00
23	t	Methoxychlor		0.700	0.668	4.6	101	0.00
24	t	Mirex	*	50.000	52.176	-4.4	102	0.00
25	t	Endosulfan Sulfate		1.197	1.115	6.9	100	0.00
26	t	Endrin Ketone		1.264	1.294	-2.4	107	0.00
27	s	Decachlorobiphenyl		1.082	0.565	47.8#	58	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   7:58
Operator : PEST11:peg
Sample   : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	118	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	1.057	9.7	111	0.00
3	t	Hexachlorobenzene		1.329	1.162	12.6	113	0.00
4	t	alpha-BHC		1.585	1.582	0.2	113	0.00
5	t	gamma-BHC (lindane)		1.506	1.424	5.4	112	0.00
6	t	beta-BHC		0.741	0.633	14.6	111	0.00
7	t	delta-BHC		1.490	1.397	6.2	109	0.00
8	t	Heptachlor		1.555	1.460	6.1	113	0.00
9	t	Aldrin		1.407	1.353	3.8	115	0.00
10	t	Alachlor		0.233	0.197	15.5#	113	0.00
11	t	Chlorpyrifos		0.894	0.715	20.0#	113	0.00
12	t	Heptachlor Epoxide		1.404	1.279	8.9	113	0.00
13	t	gamma-Chlordane (trans)		1.270	1.309	-3.1	129	0.00
14	t	alpha-Chlordane (cis)		1.426	1.283	10.0	113	0.00
15	t	4,4'-DDE		1.304	1.252	4.0	114	0.00
16	t	Endosulfan I		1.310	1.186	9.5	113	0.00
17	t	Dieldrin		1.299	1.311	-0.9	123	0.00
18	t	Endrin		1.313	1.226	6.6	113	0.00
19	t	4,4'-DDD		1.057	1.040	1.6	119	0.00
20	t	Endosulfan II		1.211	1.104	8.8	115	0.00
21	t	4,4'-DDT		1.224	1.116	8.8	113	0.00
22	t	Endrin Aldehyde		1.022	0.822	19.6#	105	0.00
23	t	Methoxychlor	*	50.000	49.875	0.3	114	0.00
24	t	Mirex	*	50.000	49.889	0.2	115	0.00
25	t	Endosulfan Sulfate		1.181	1.044	11.6	116	0.00
26	t	Endrin Ketone		1.290	1.176	8.8	117	0.00
27	s	Decachlorobiphenyl	*	50.000	29.284	41.4#	68	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   7:58
Operator : PEST11:peg
Sample   : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.65#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.09#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.68#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.81#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-2		0.058	0.000	100.0#	0#	-4.70#
35	l2	toxaphene-3		0.044	0.000	100.0#	0#	-4.82#
36	l2	toxaphene-4		0.046	0.000	100.0#	0#	-5.03#
37	l2	toxaphene-5		0.042	0.000	100.0#	0#	-5.21#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.45#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.94#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.57#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.27#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.43#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.45#
34	l2	toxaphene-2		0.024	0.000	100.0#	0#	-5.21#
35	l2	toxaphene-3		0.037	0.000	100.0#	0#	-5.24#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.55#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-5.96#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:58
Operator : PEST11:peg
Sample : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.427	1.446	164.9E6	128.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.794	1.942	355.3E6	271.0E6	48.382M4	45.113M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		96.76%	90.23%
27) s	Decachlorobi	6.470	7.033	186.4E6	137.2E6	26.133M4	29.284M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		52.27%	58.57%
	Target Compounds						
3) t	Hexachlorobe	2.023	2.276	380.2E6	298.0E6	45.220M4	43.710M4
4) t	alpha-BHC	2.129	2.375	527.8E6	405.8E6	52.513M4	49.911M4
5) t	gamma-BHC (l	2.346	2.672	476.0E6	365.2E6	49.596M4	47.284M4
6) t	beta-BHC	2.404	2.738	204.8E6	162.3E6	44.615M4	42.681M4
7) t	delta-BHC	2.543	3.014	466.0E6	358.4E6	49.701	46.880
8) t	Heptachlor	2.716	3.083	491.8E6	374.6E6	48.918M4	46.968
9) t	Aldrin	2.974	3.412	464.0E6	347.1E6	50.711M4	48.080M4
10) t	Alachlor	3.101	3.289	63731899	50416934	41.359M4	42.140M4
11) t	Chlorpyrifos	3.195	3.654	225.5E6	183.4E6	41.670M4	39.970M4
12) t	Heptachlor E	3.551	4.044	429.0E6	328.0E6	48.072M4	45.554

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:58
Operator : PEST11:peg
Sample : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.679	4.266	449.6E6	335.8E6	54.704M4	51.556M4
14)	t	alpha-Chlord	3.821	4.428	435.5E6	329.1E6	46.825M3	44.975M4
15)	t	4,4'-DDE	3.916	4.616	433.5E6	321.1E6	50.929	47.987
16)	t	Endosulfan I	3.967	4.488	406.0E6	304.2E6	47.768M4	45.258
17)	t	Dieldrin	4.236	4.771	458.2E6	336.1E6	53.906M4	50.425
18)	t	Endrin	4.479	5.060	434.1E6	314.5E6	50.440M4	46.684M4
19)	t	4,4'-DDD	4.570	5.175	367.4E6	266.7E6	53.534M4	49.196M4
20)	t	Endosulfan I	4.704	5.254	392.7E6	283.3E6	49.029M4	45.604M4
21)	t	4,4'-DDT	4.847	5.447	409.1E6	286.3E6	50.786M4	45.573M4
22)	t	Endrin Aldeh	5.104	5.545	291.0E6	210.8E6	44.350	40.208M4
23)	t	Methoxychlor	5.306	6.002	220.3E6	156.0E6	47.691M4	49.875
24)	t	Mirex	5.378	6.145	341.1E6	227.5E6	52.176M4	49.889
25)	t	Endosulfan S	5.482	5.770	367.8E6	267.8E6	46.587M4	44.193M4
26)	t	Endrin Keton	5.703	6.178	426.8E6	301.6E6	51.188M4	45.570M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:58
Operator : PEST11:peg
Sample : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

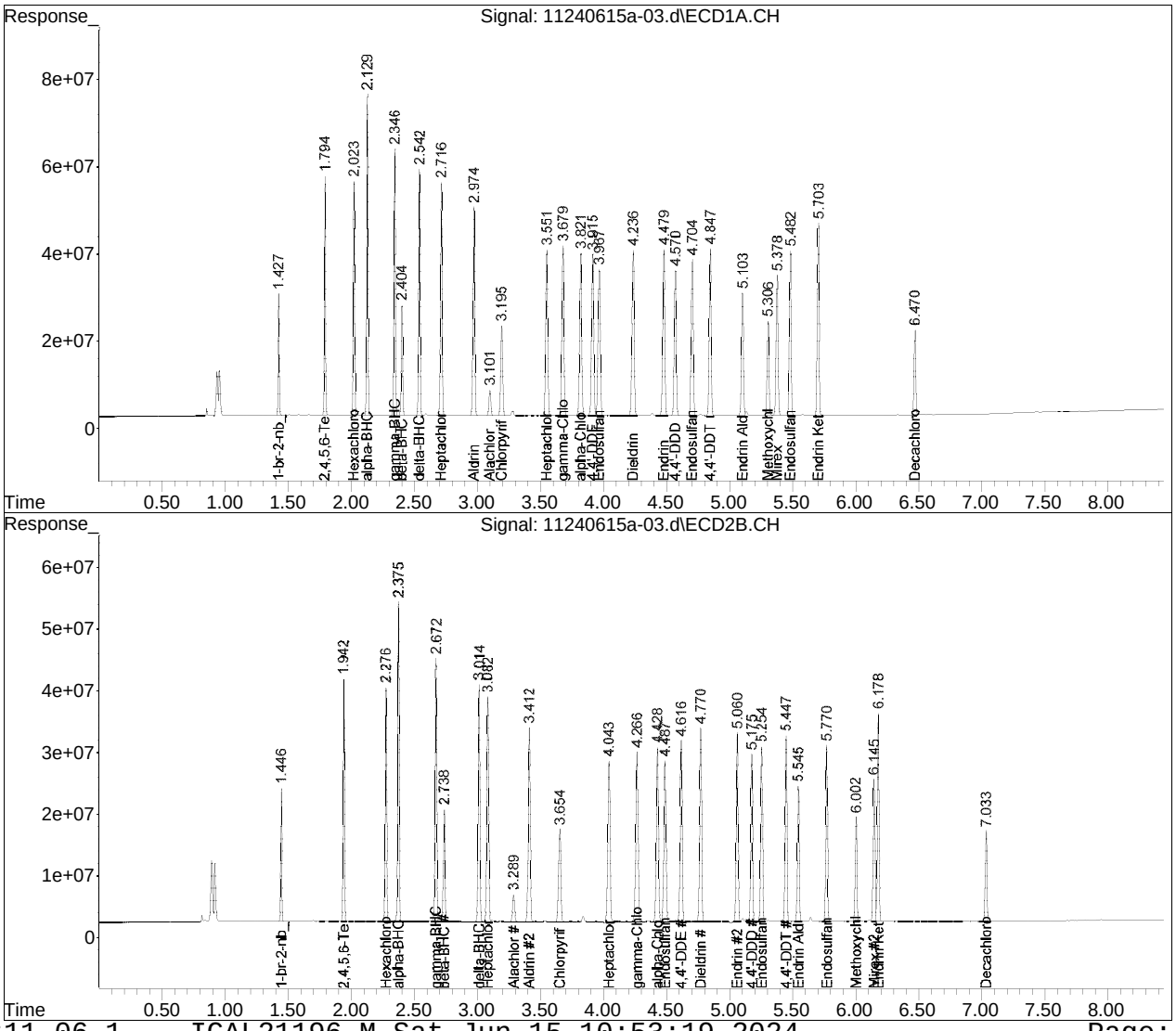
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:58
Operator : PEST11:peg
Sample : wg1934790-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:33:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:33:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

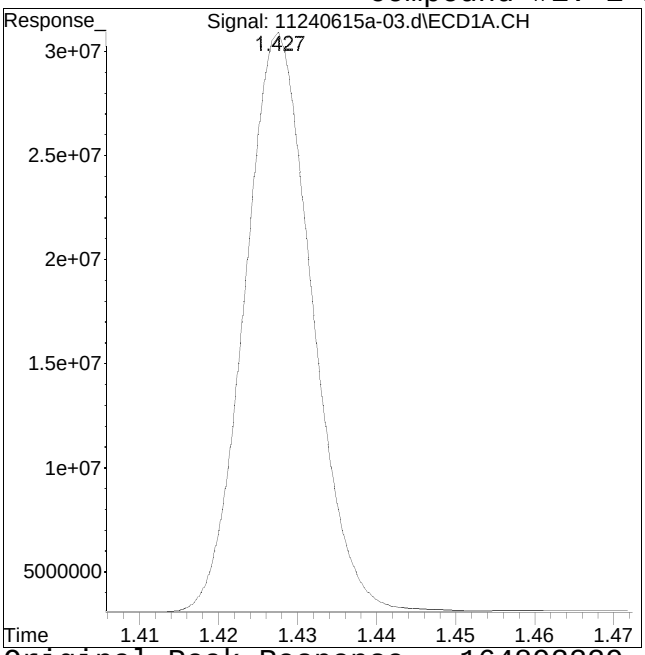
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



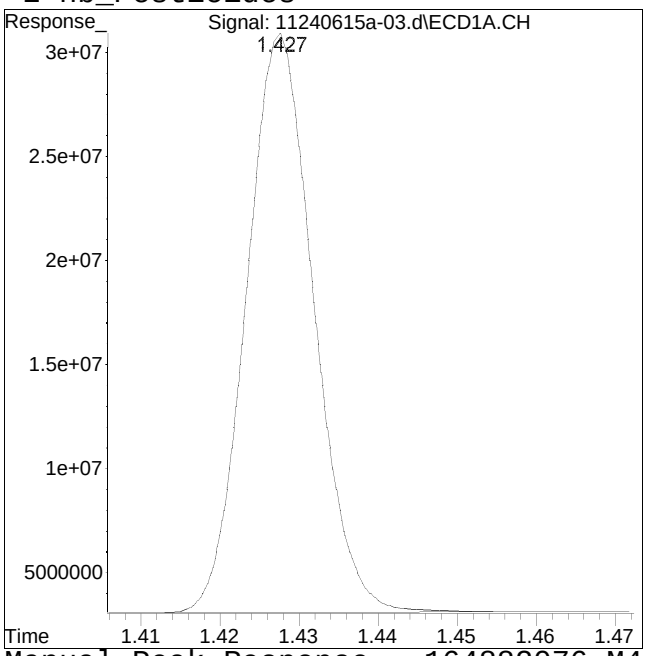
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 164892329

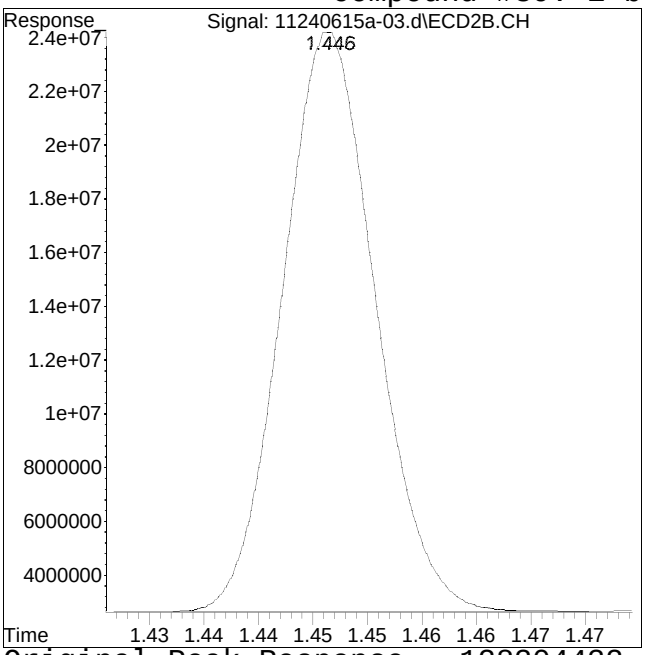


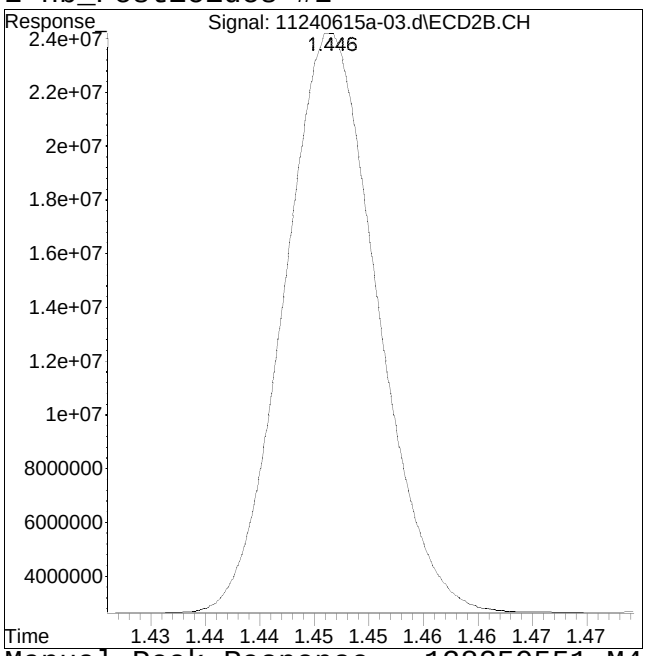
Manual Peak Response = 164882076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #39: 1-br-2-nb_Pesticides #2



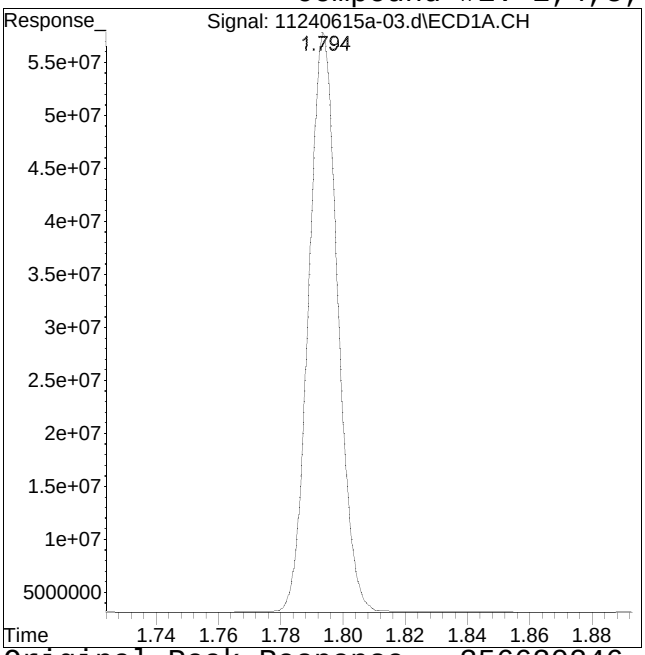


Original Peak Response = 128304432 Manual Peak Response = 128250551 M4
M4 = Poor automated baseline construction.

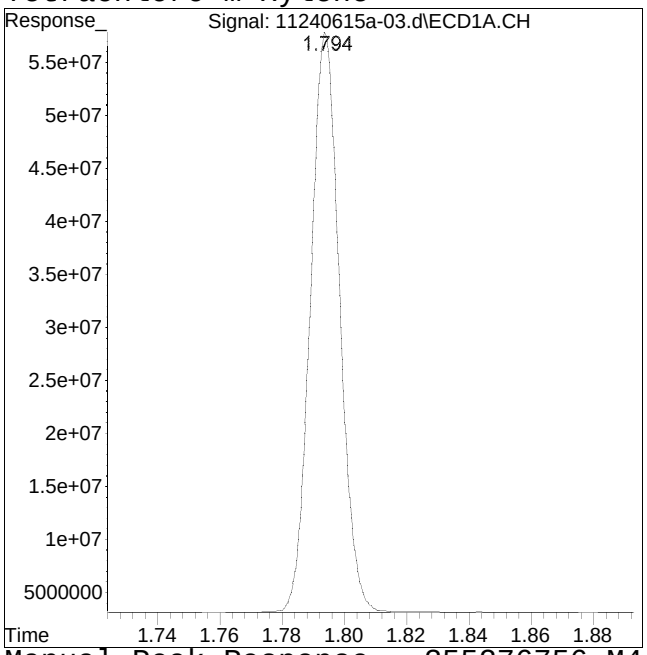
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 356630246

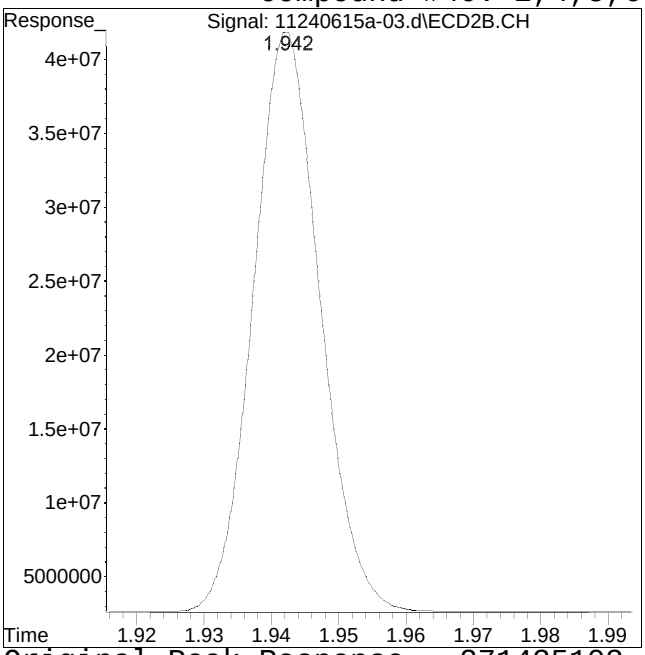


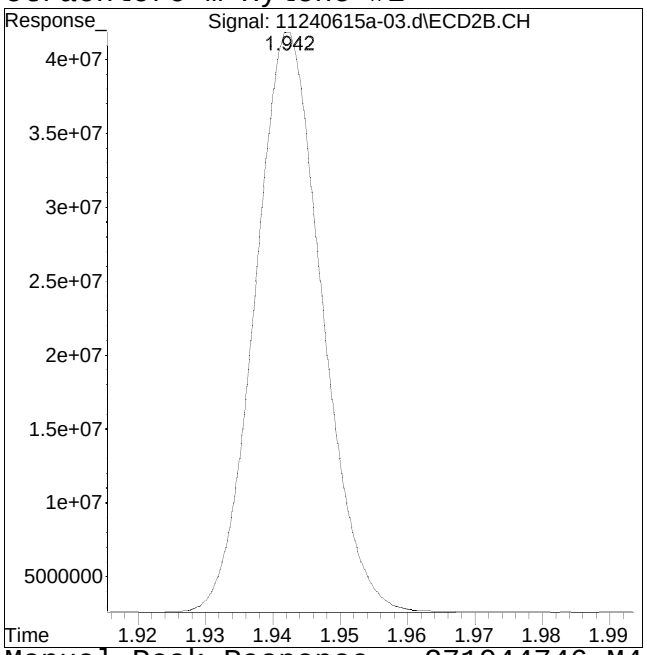
Manual Peak Response = 355276756 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



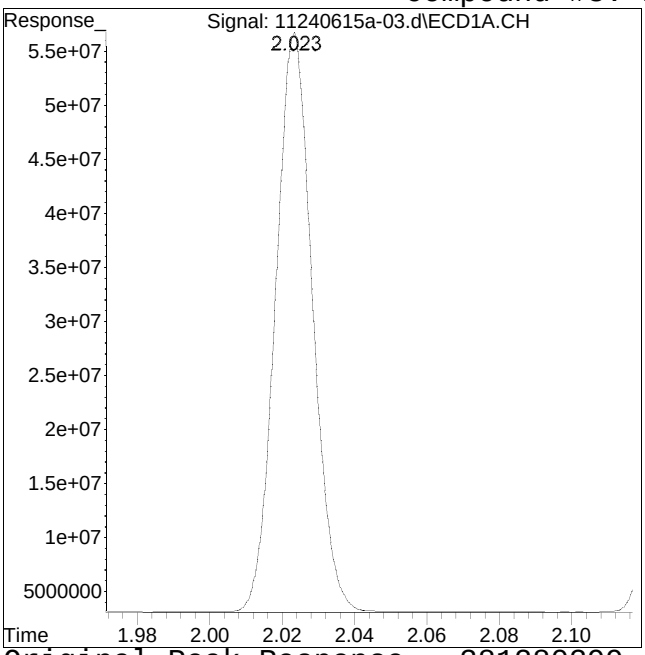


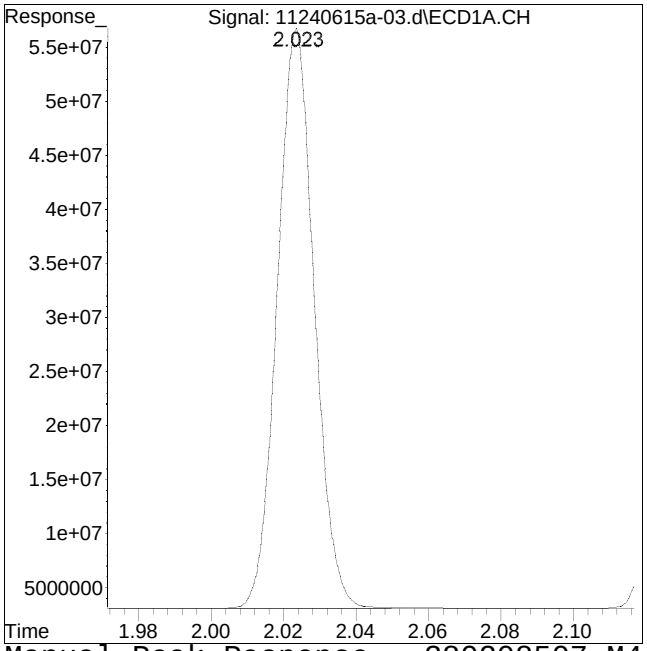
Original Peak Response = 271435103 Manual Peak Response = 271044746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #3: Hexachlorobenzene



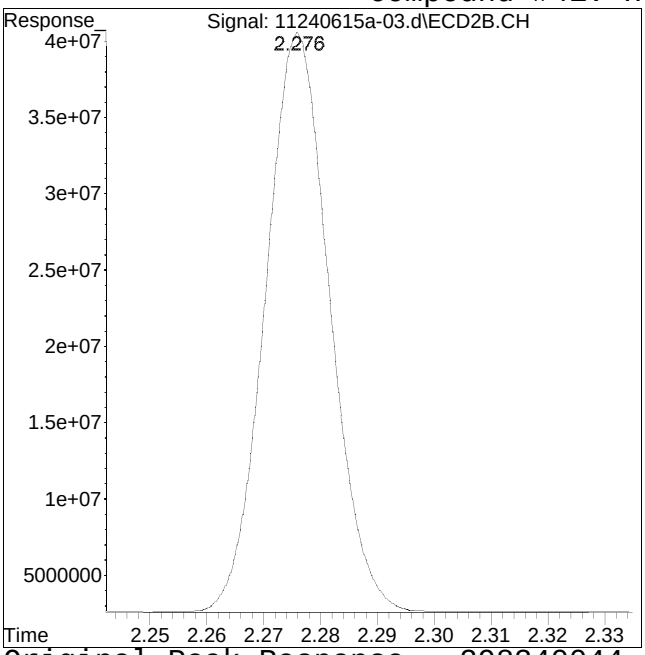


Original Peak Response = 381280399 Manual Peak Response = 380208507 M4
M4 = Poor automated baseline construction.

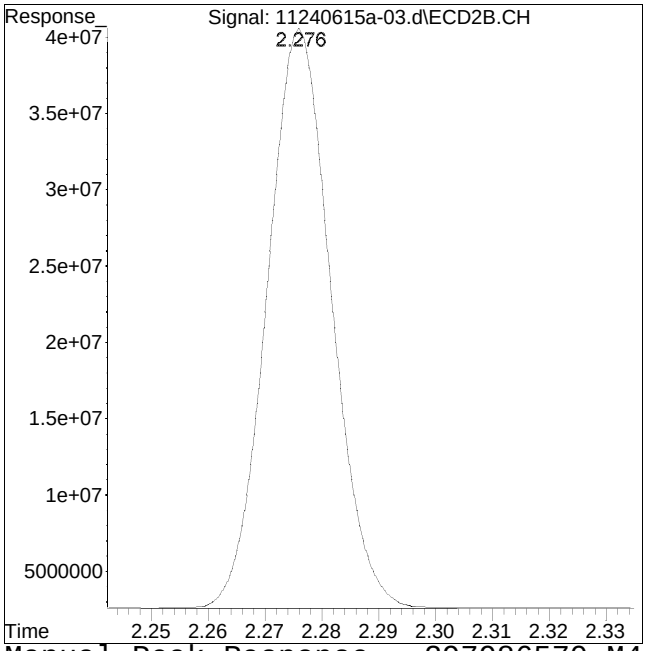
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 298340044



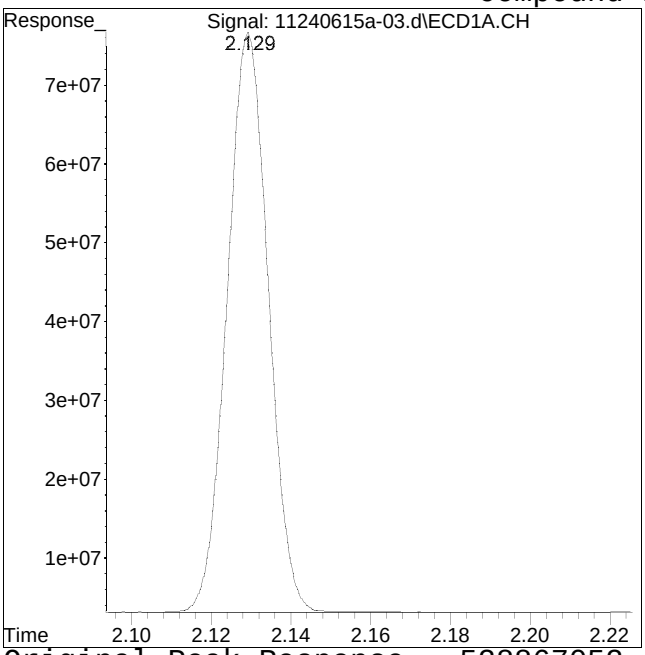
Manual Peak Response = 297986570 M4

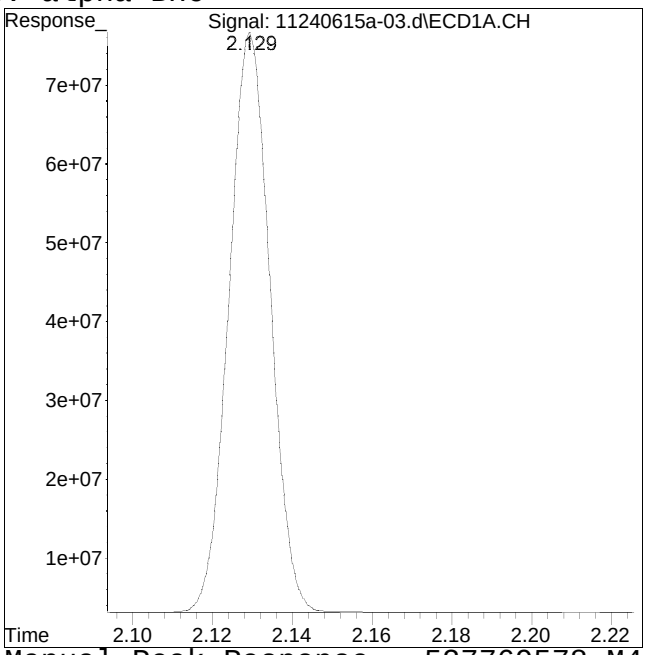
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #4: alpha-BHC



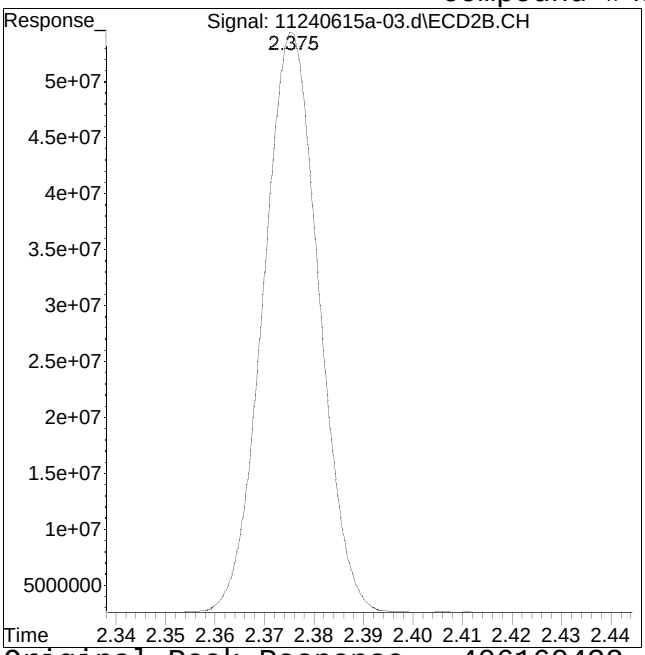


Original Peak Response = 528867052 Manual Peak Response = 527769578 M4
M4 = Poor automated baseline construction.

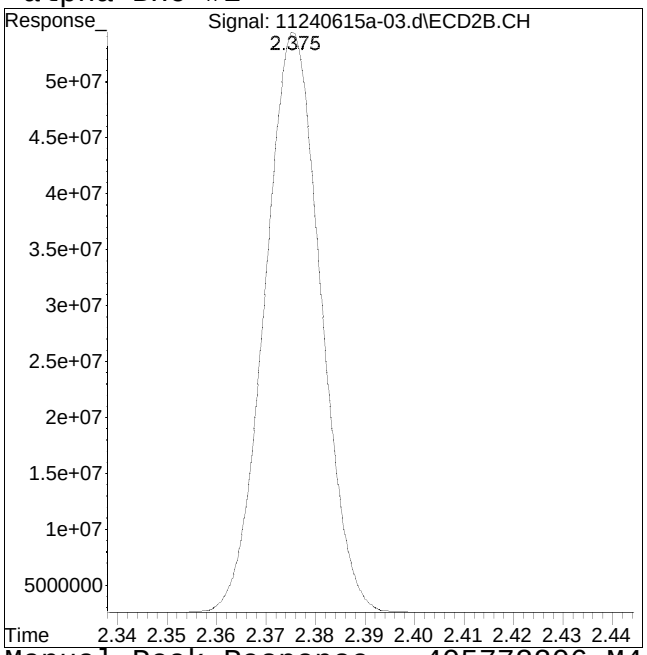
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #42: alpha-BHC #2



Original Peak Response = 406160432



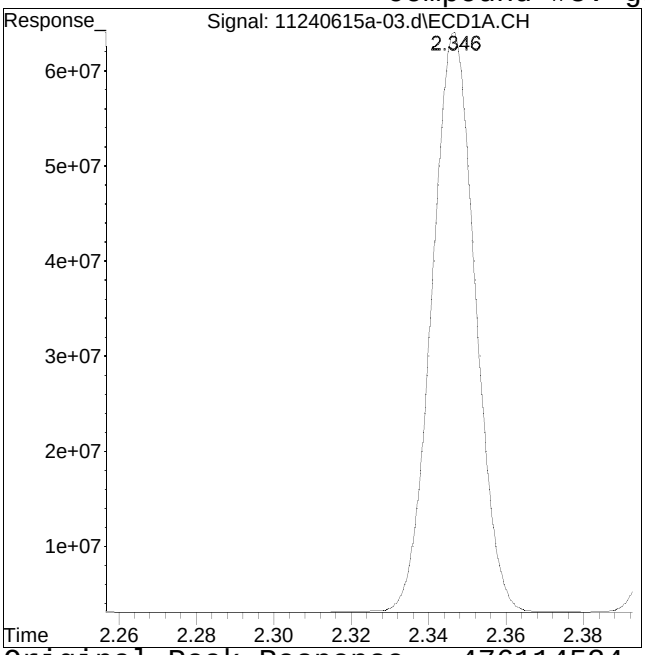
Manual Peak Response = 405772206 M4

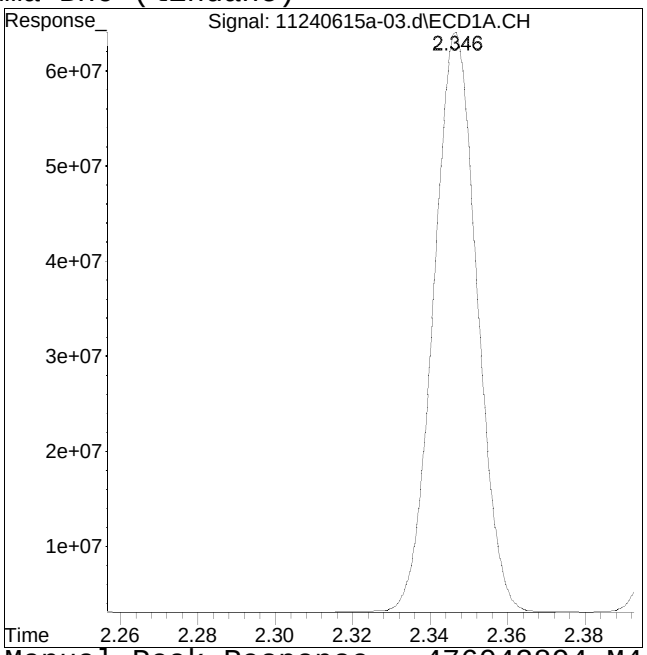
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #5: gamma-BHC (lindane)



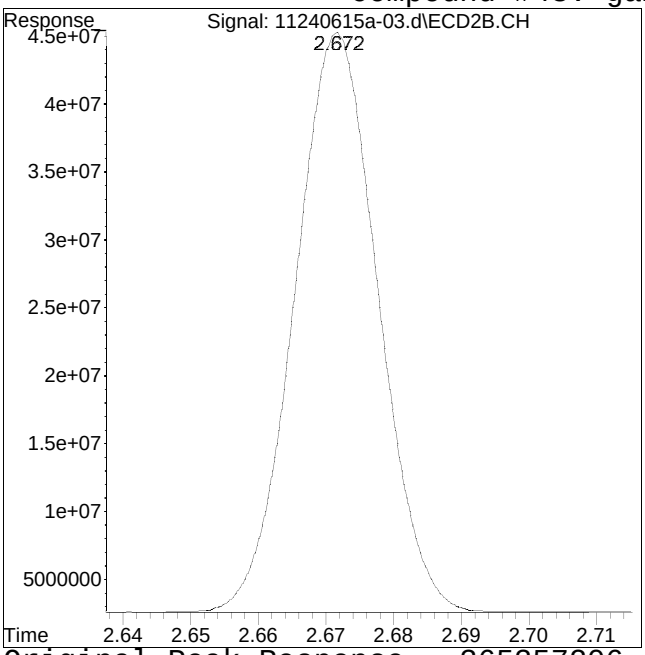


Original Peak Response = 476114524 Manual Peak Response = 476042894 M4
M4 = Poor automated baseline construction.

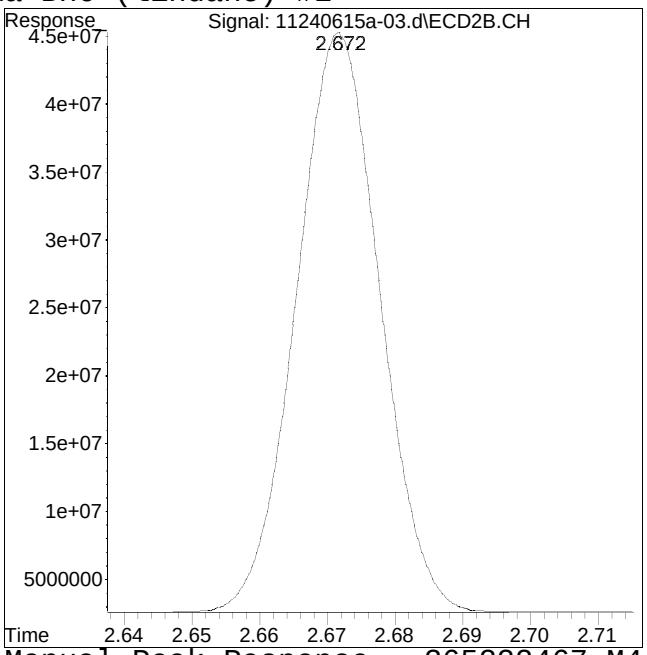
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 365357206



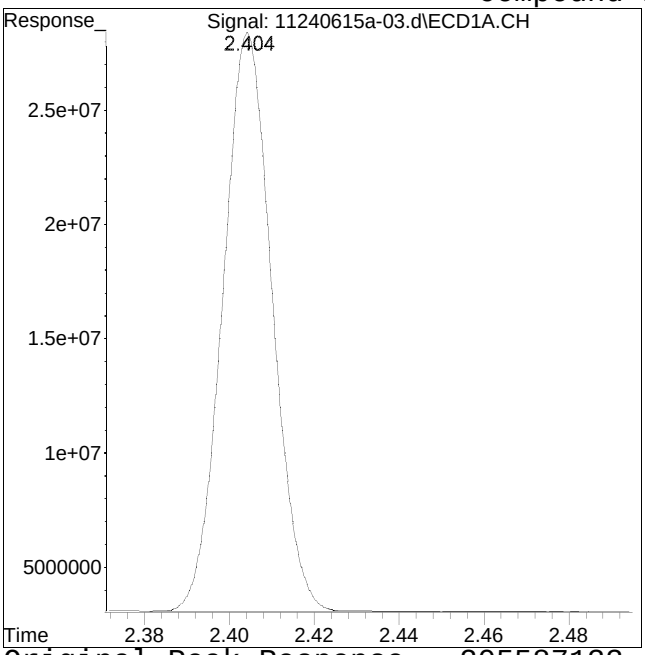
Manual Peak Response = 365222467 M4

M4 = Poor automated baseline construction.

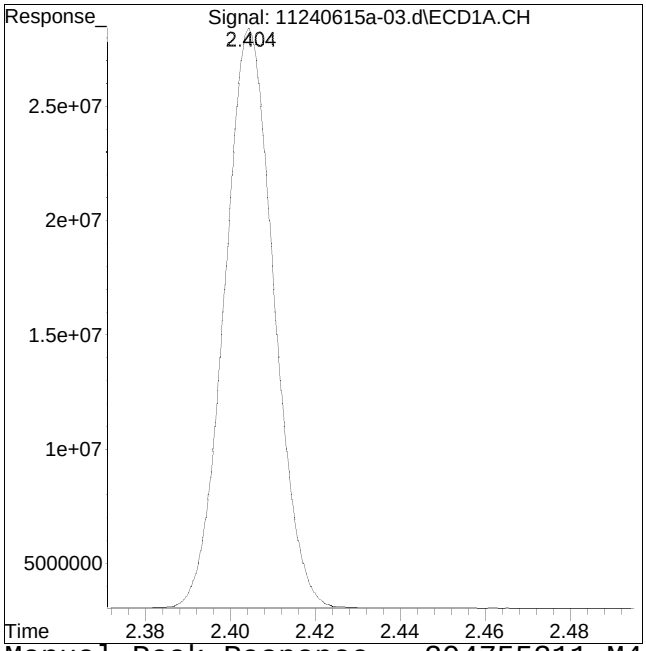
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #6: beta-BHC



Original Peak Response = 205587133



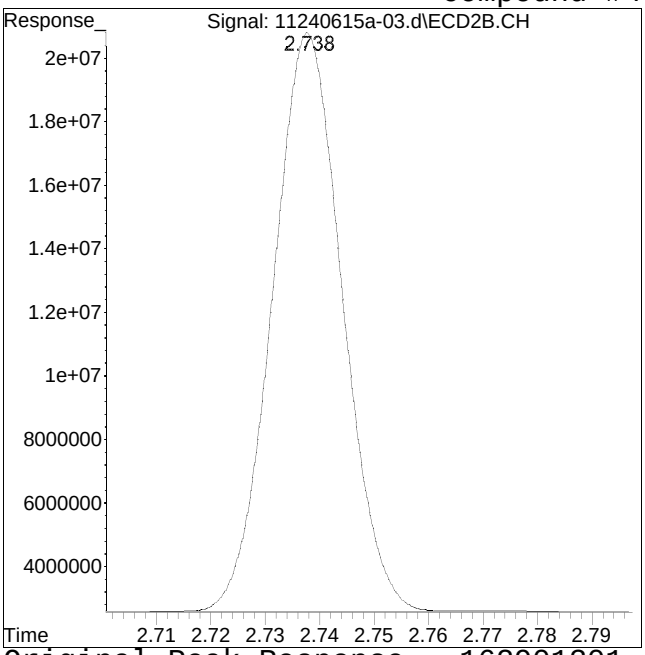
Manual Peak Response = 204755311 M4

M4 = Poor automated baseline construction.

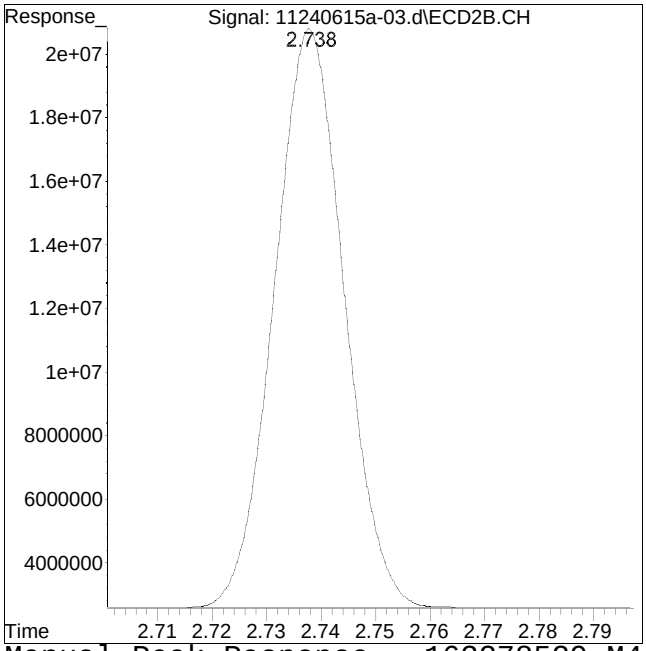
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #44: beta-BHC #2



Original Peak Response = 162901301



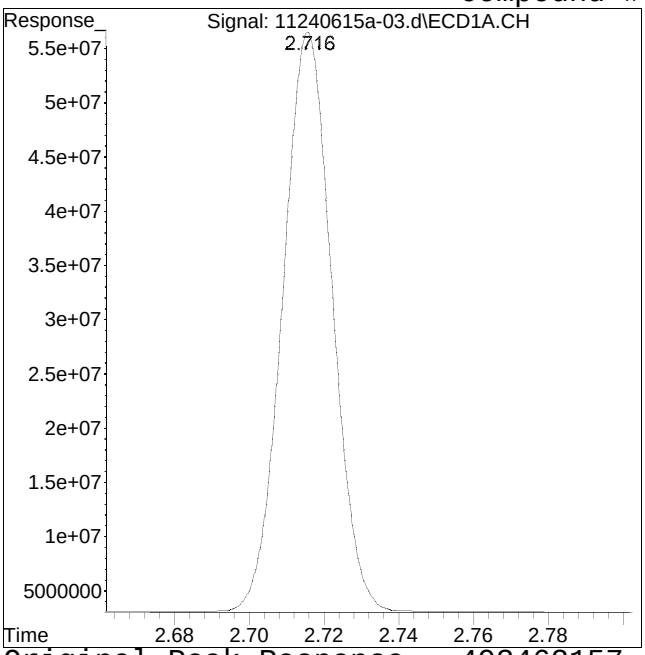
Manual Peak Response = 162278529 M4

M4 = Poor automated baseline construction.

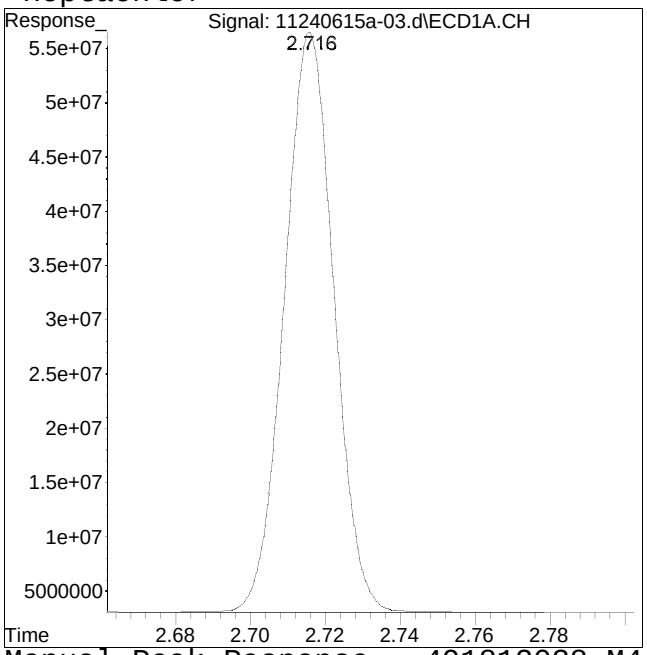
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #8: Heptachlor



Original Peak Response = 493462157



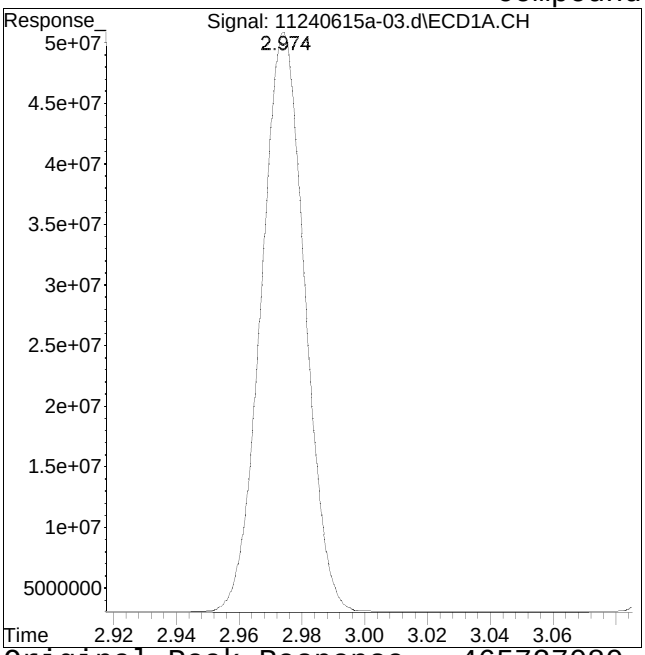
Manual Peak Response = 491812038 M4

M4 = Poor automated baseline construction.

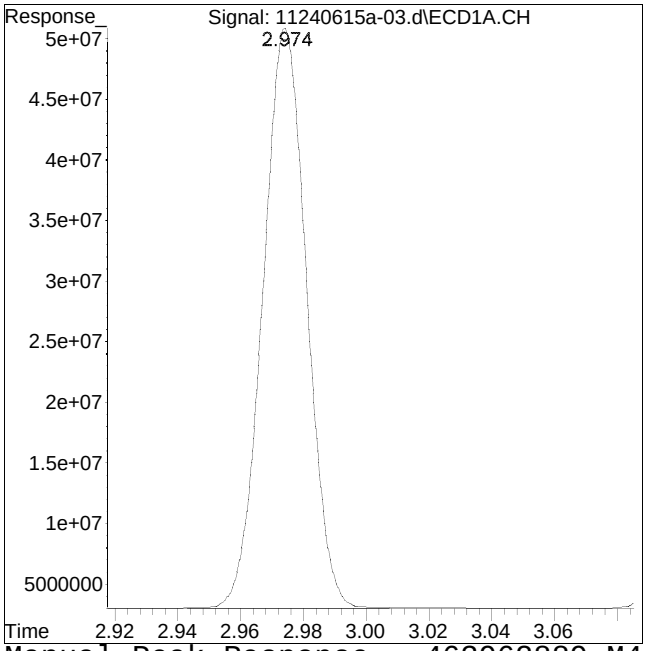
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #9: Aldrin



Original Peak Response = 465727080

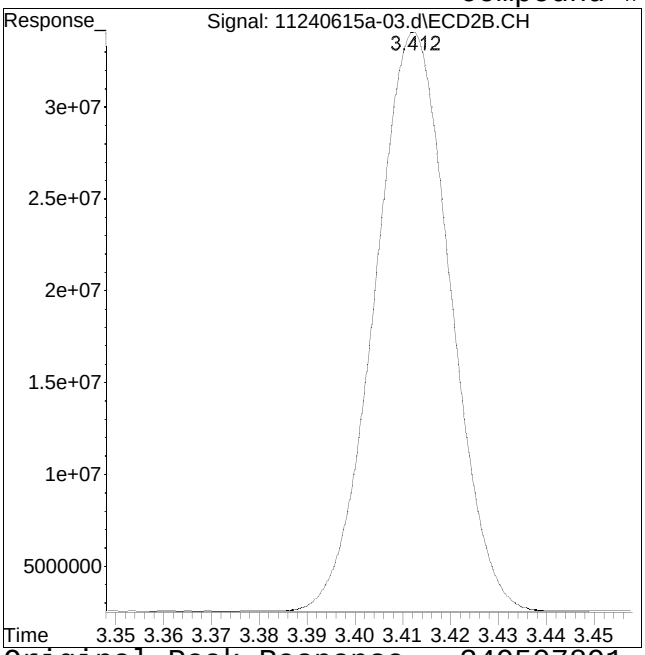


Manual Peak Response = 463962889 M4
M4 = Poor automated baseline construction.

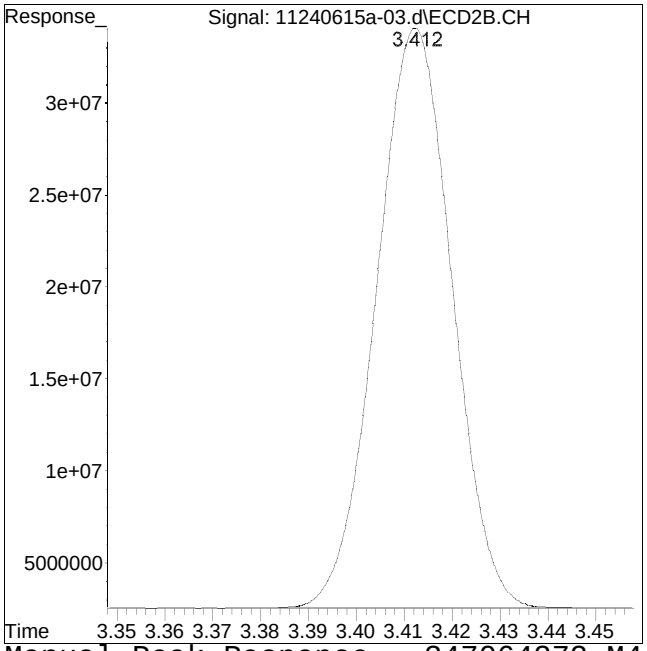
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #47: Aldrin #2



Original Peak Response = 349507891

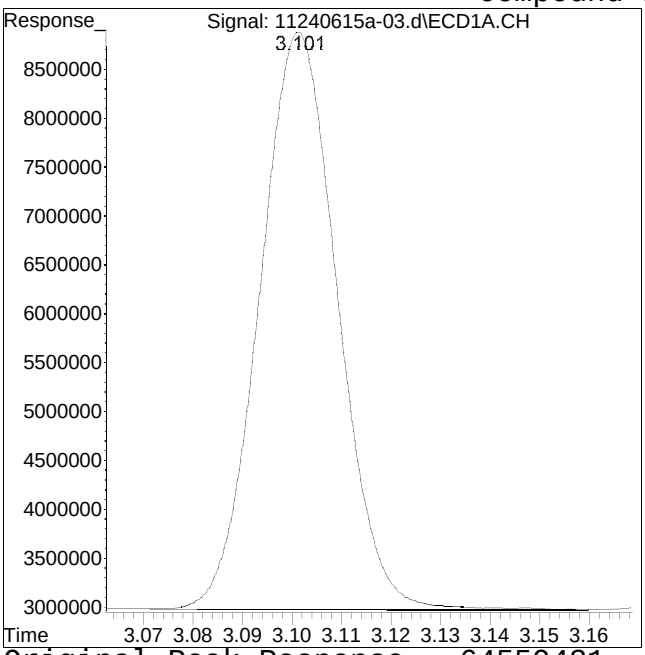


Manual Peak Response = 347064272 M4
M4 = Poor automated baseline construction.

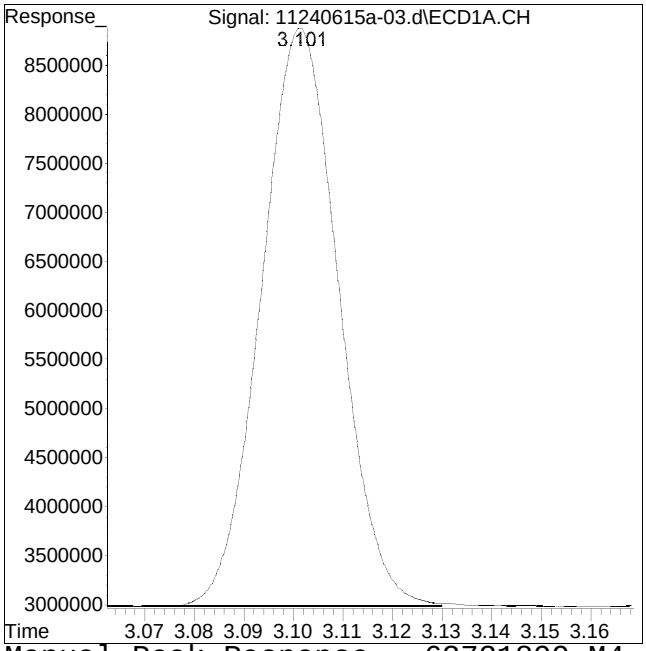
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #10: Alachlor



Original Peak Response = 64559431



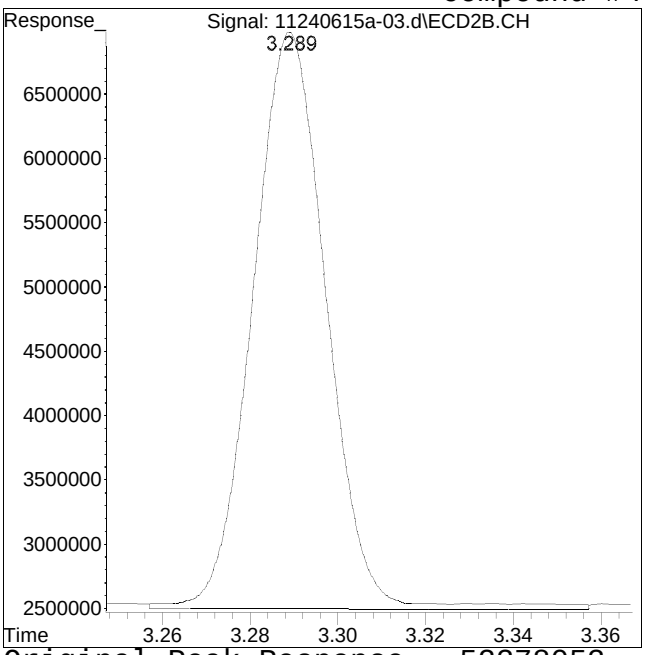
Manual Peak Response = 63731899 M4

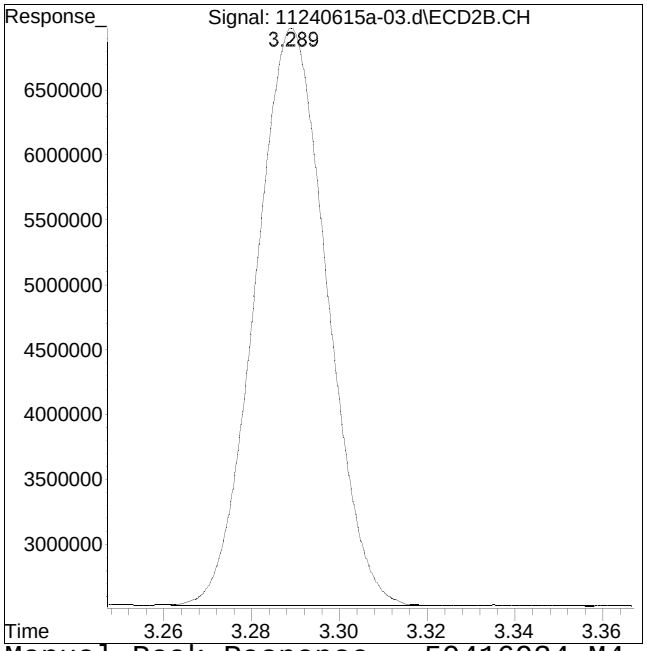
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #48: Alachlor #2



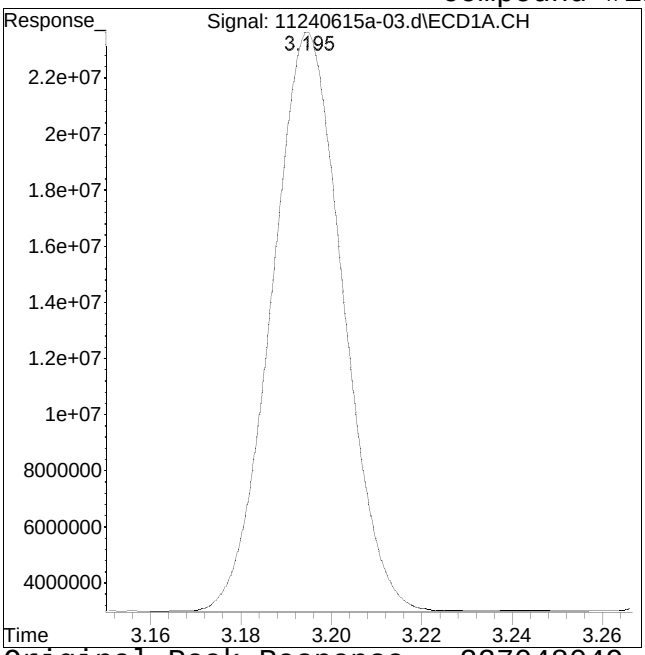


Original Peak Response = 52378053 Manual Peak Response = 50416934 M4
M4 = Poor automated baseline construction.

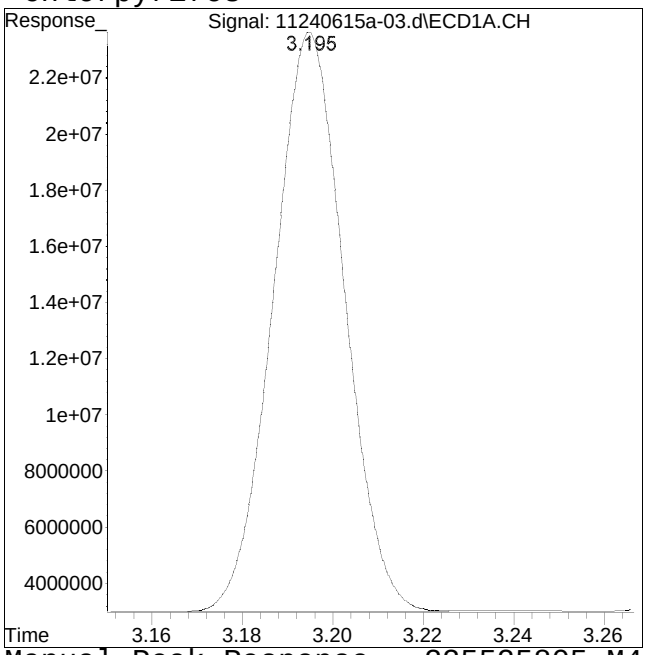
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #11: Chlorpyrifos



Original Peak Response = 227048049



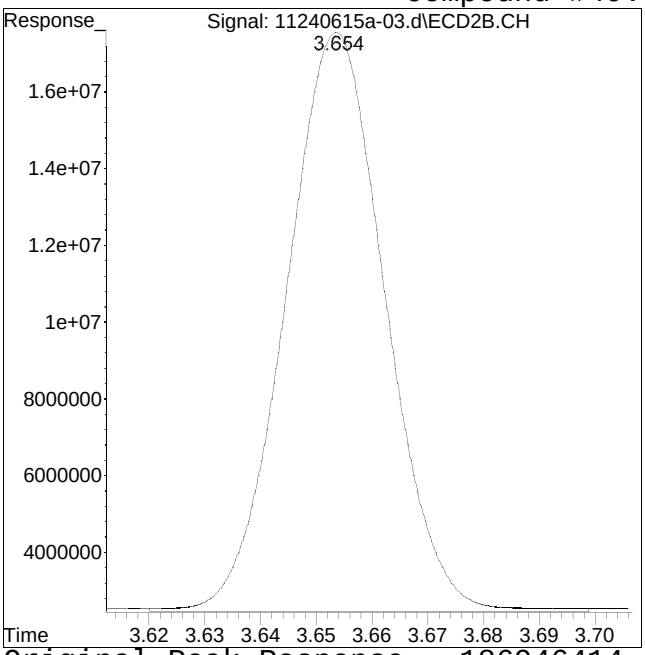
Manual Peak Response = 225525805 M4

M4 = Poor automated baseline construction.

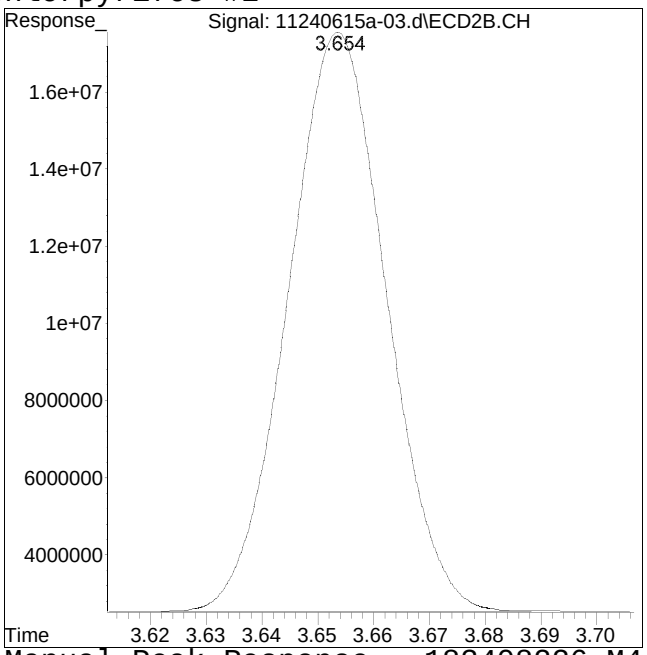
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 186946414



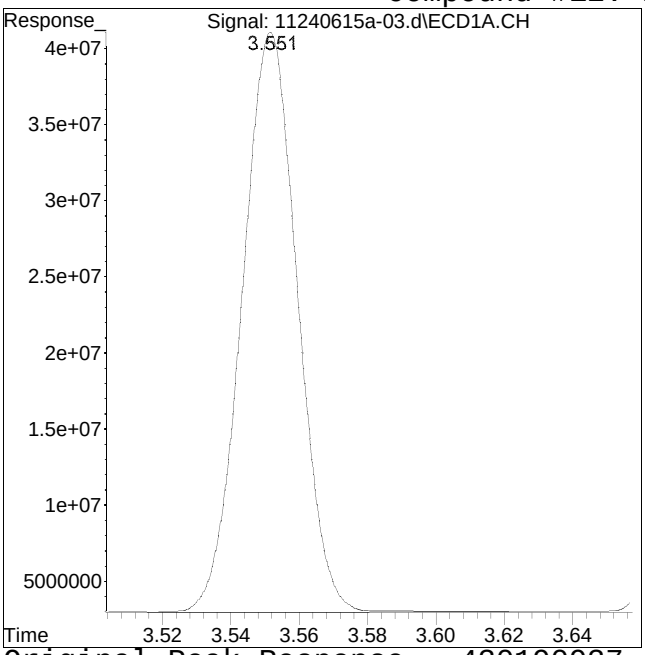
Manual Peak Response = 183408226 M4

M4 = Poor automated baseline construction.

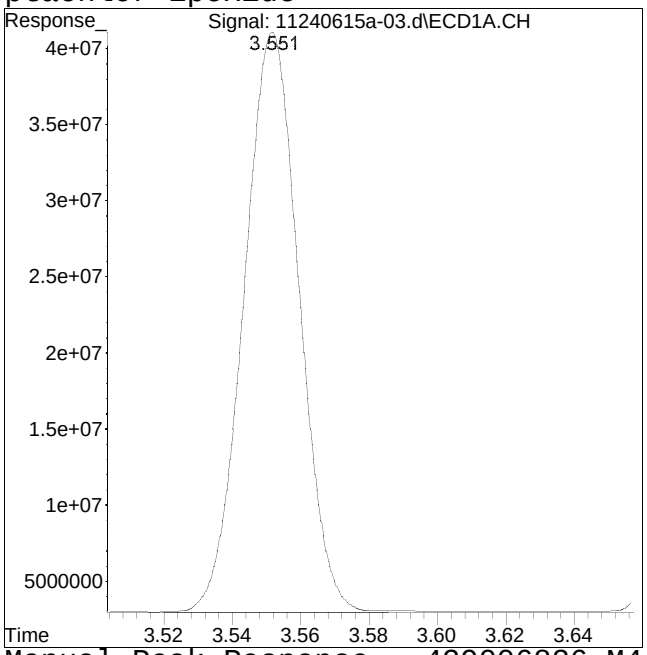
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 430190937



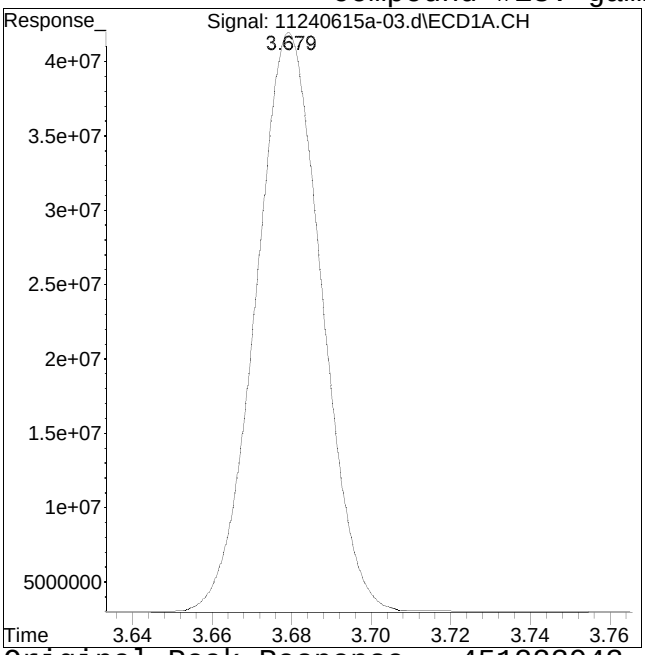
Manual Peak Response = 429006826 M4

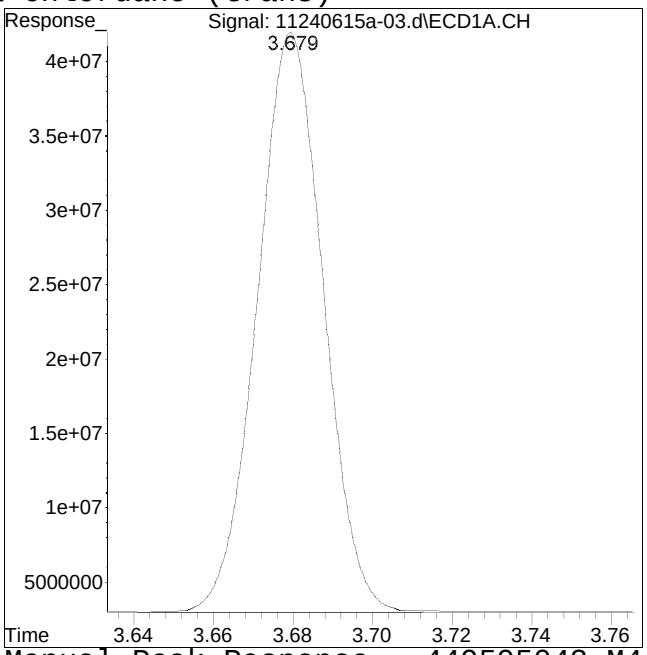
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #13: gamma-Chlordane (trans)



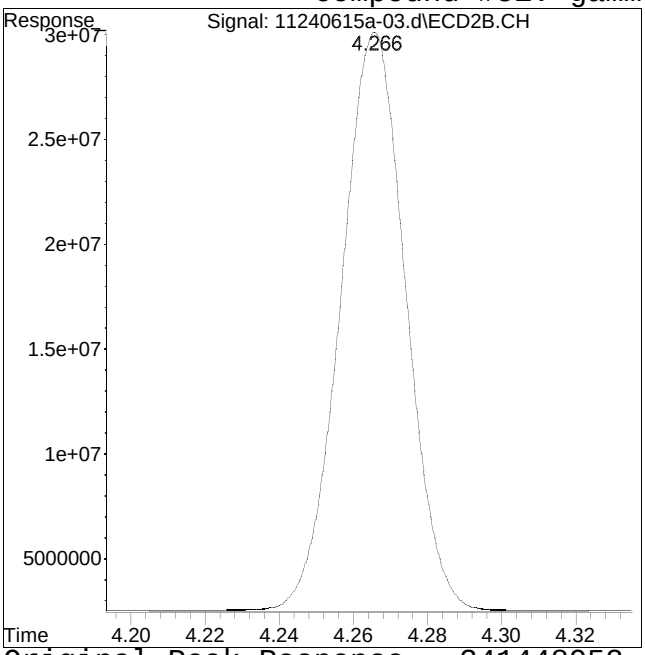


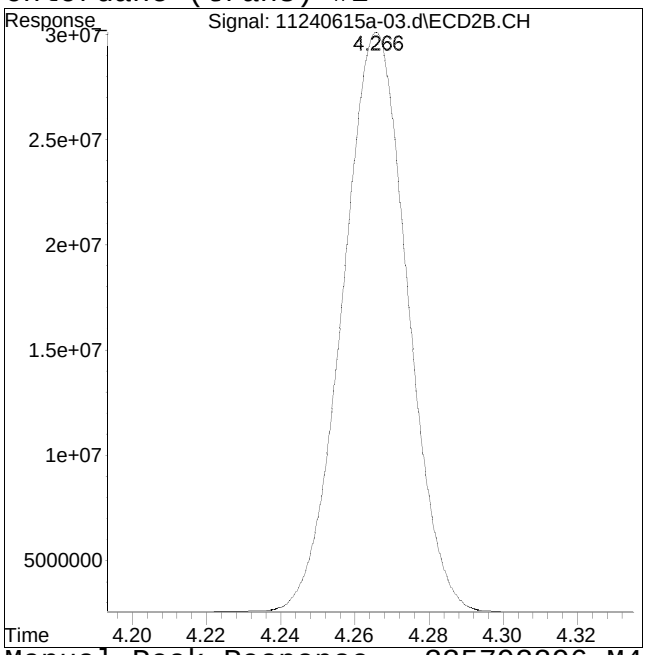
Original Peak Response = 451223943 Manual Peak Response = 449595043 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #51: gamma-Chlordane (trans) #2



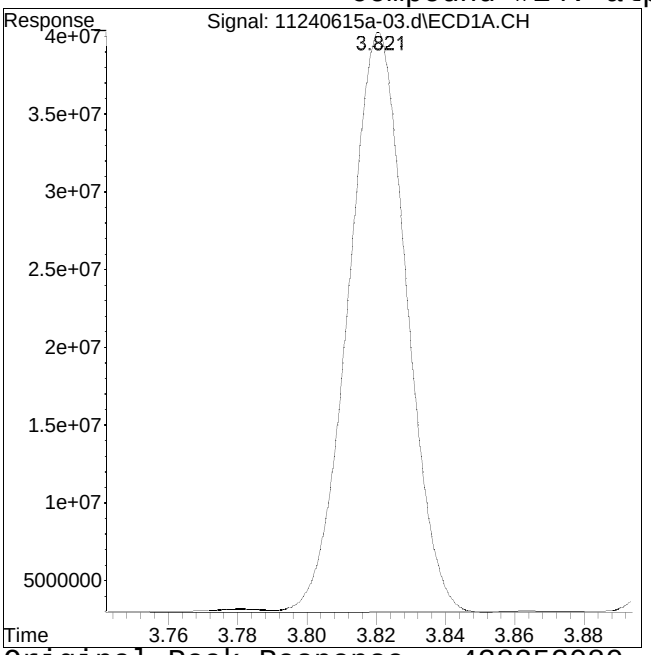


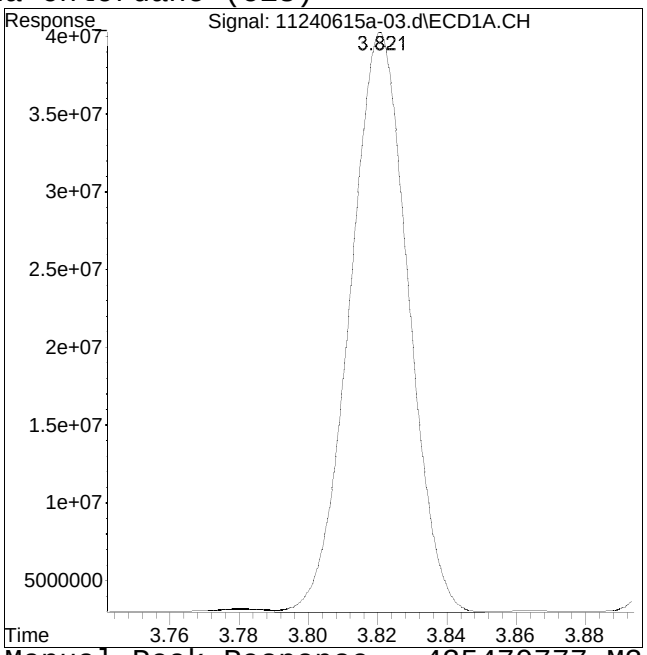
Original Peak Response = 341448952 Manual Peak Response = 335792296 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #14: alpha-Chlordane (cis)



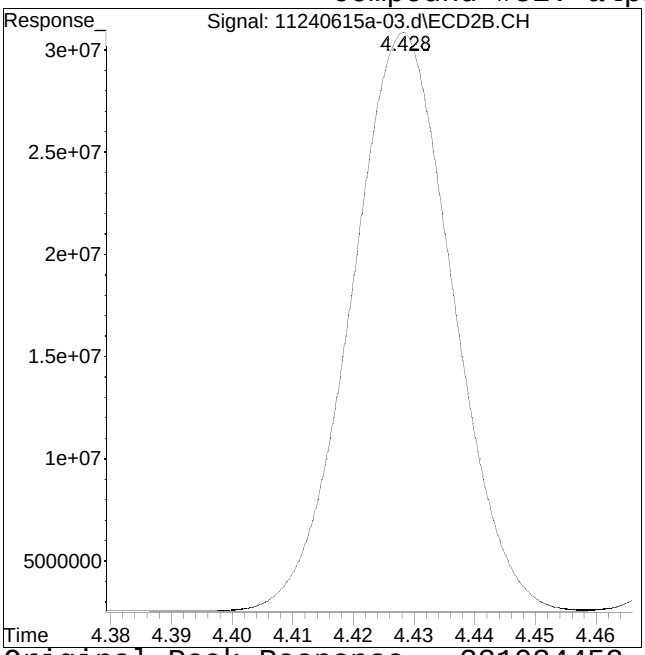


Original Peak Response = 438252080 Manual Peak Response = 435470777 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

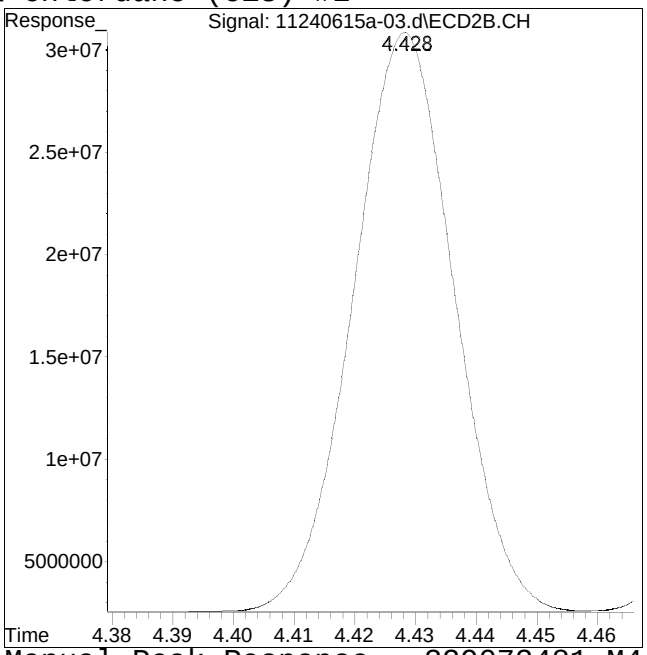
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 331034452



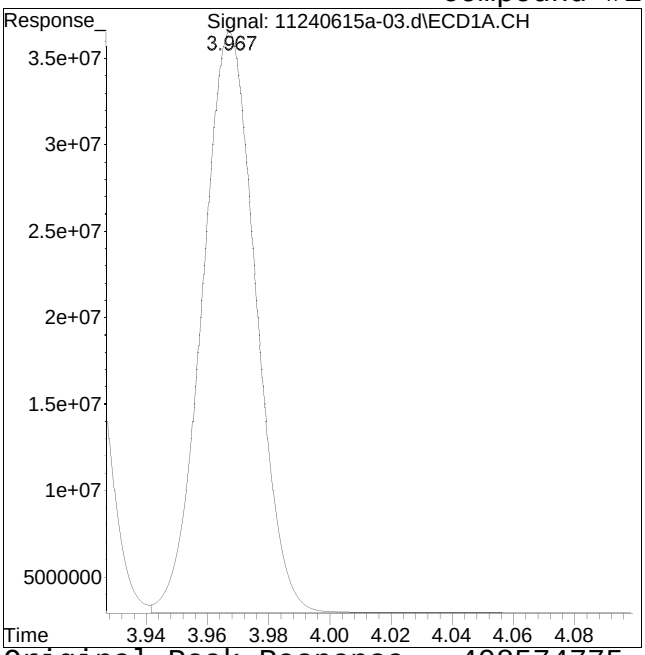
Manual Peak Response = 329073481 M4

M4 = Poor automated baseline construction.

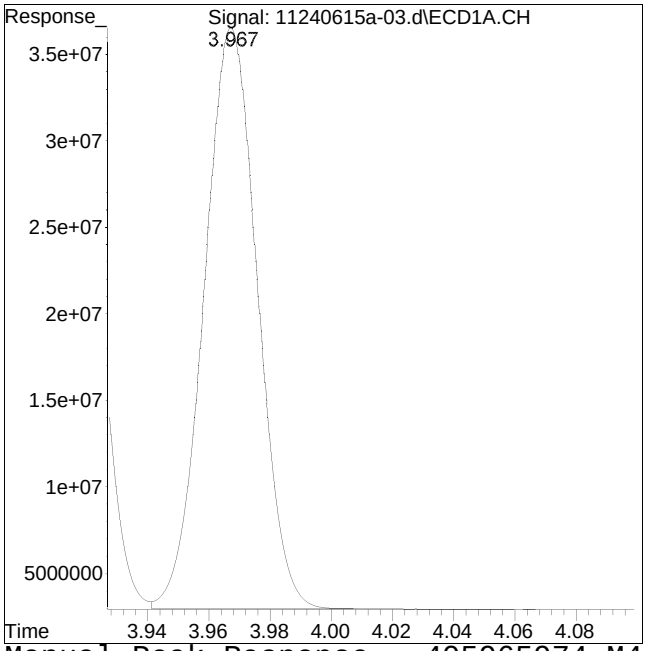
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #16: Endosulfan I



Original Peak Response = 408574775



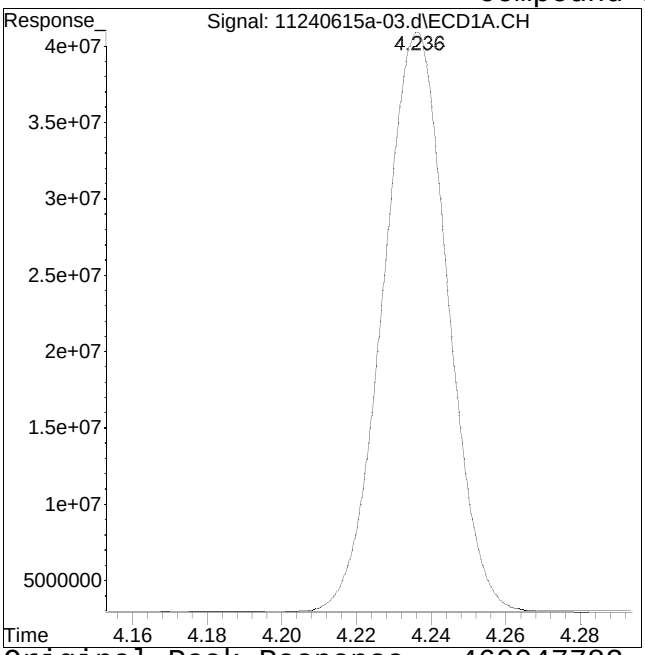
Manual Peak Response = 405965974 M4

M4 = Poor automated baseline construction.

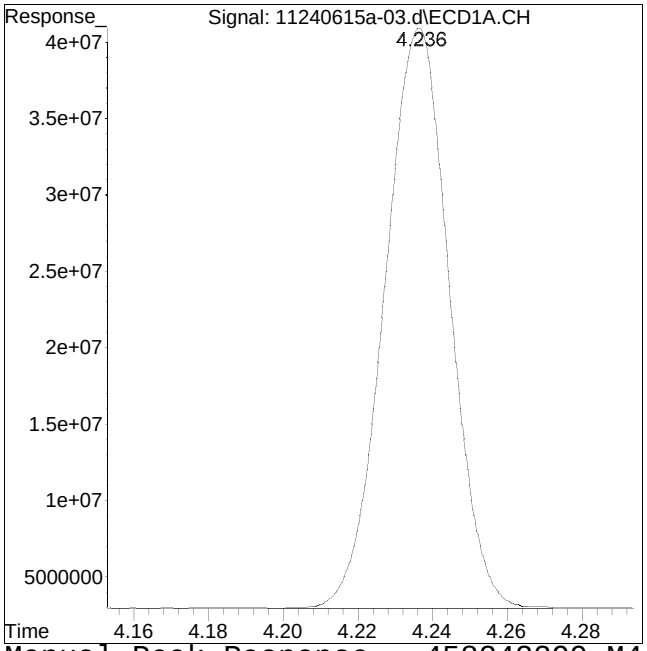
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #17: Dieldrin



Original Peak Response = 460047782



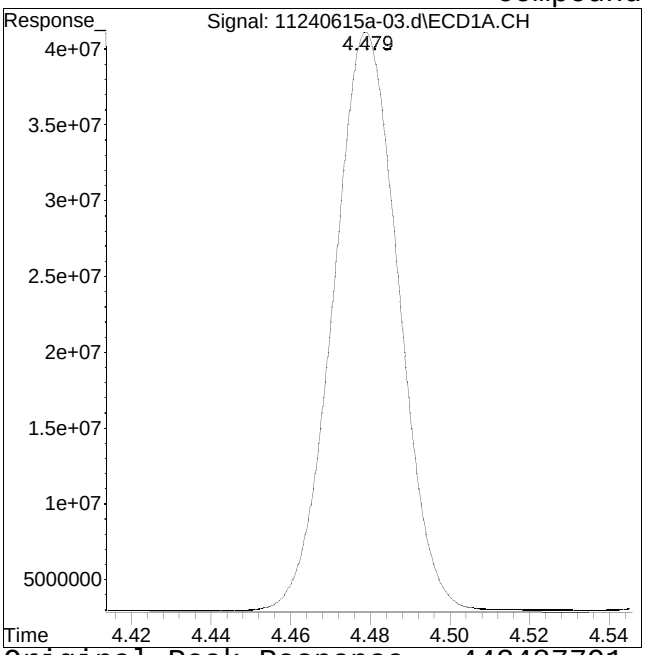
Manual Peak Response = 458242299 M4

M4 = Poor automated baseline construction.

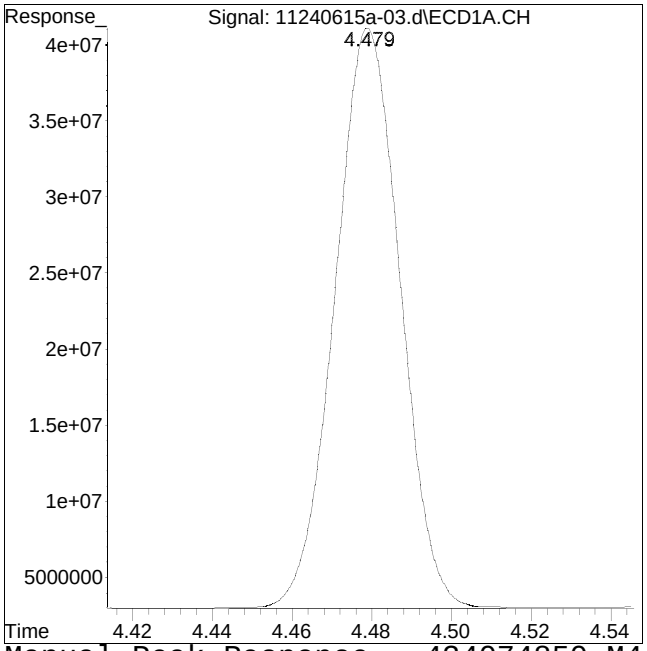
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #18: Endrin



Original Peak Response = 442487791



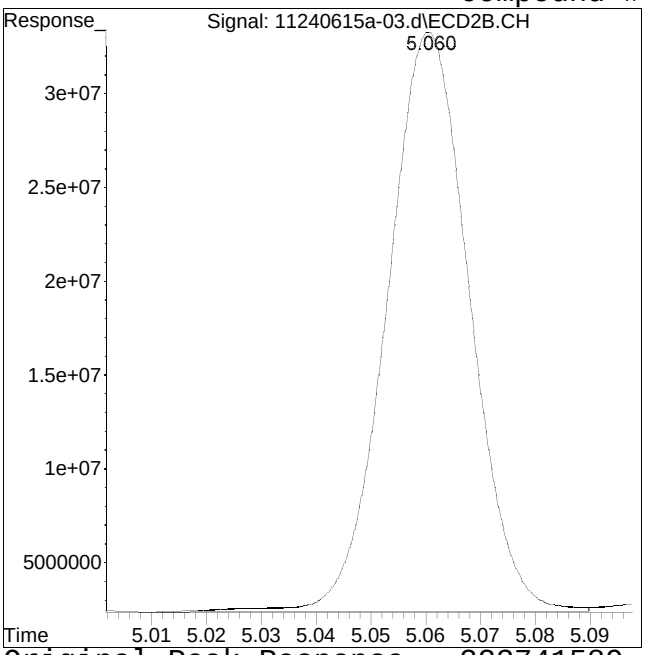
Manual Peak Response = 434074850 M4

M4 = Poor automated baseline construction.

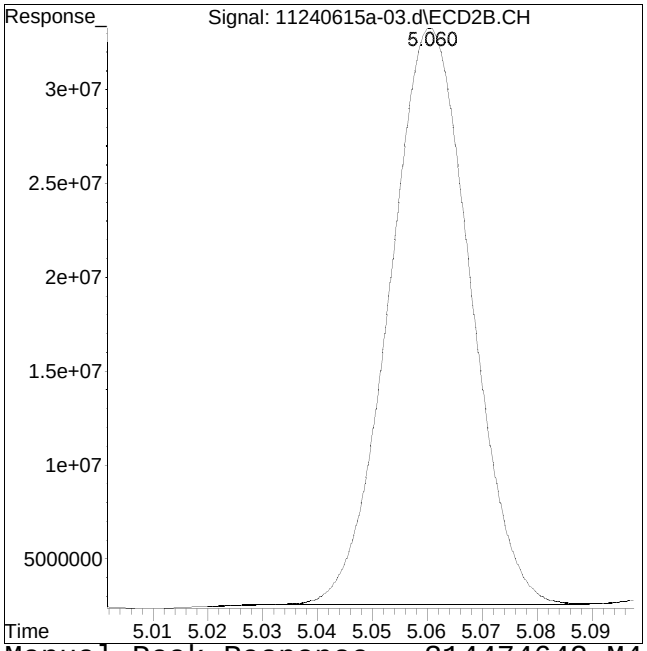
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #56: Endrin #2



Original Peak Response = 323741589



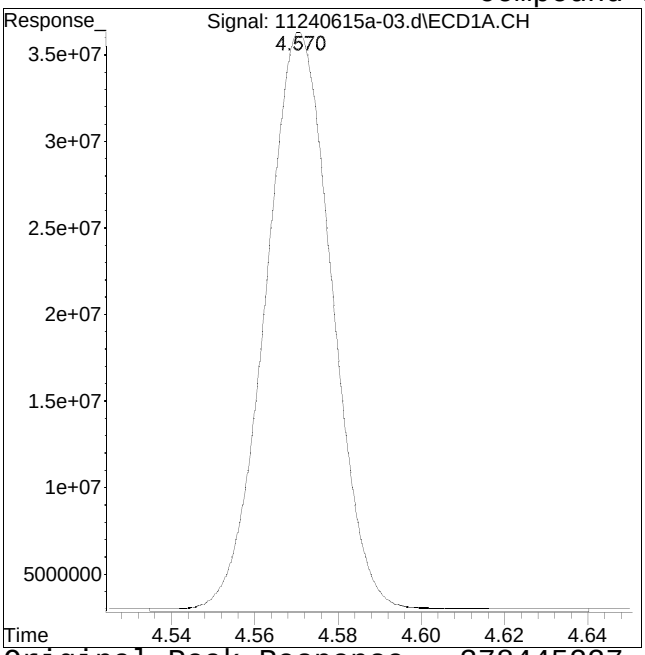
Manual Peak Response = 314474642 M4

M4 = Poor automated baseline construction.

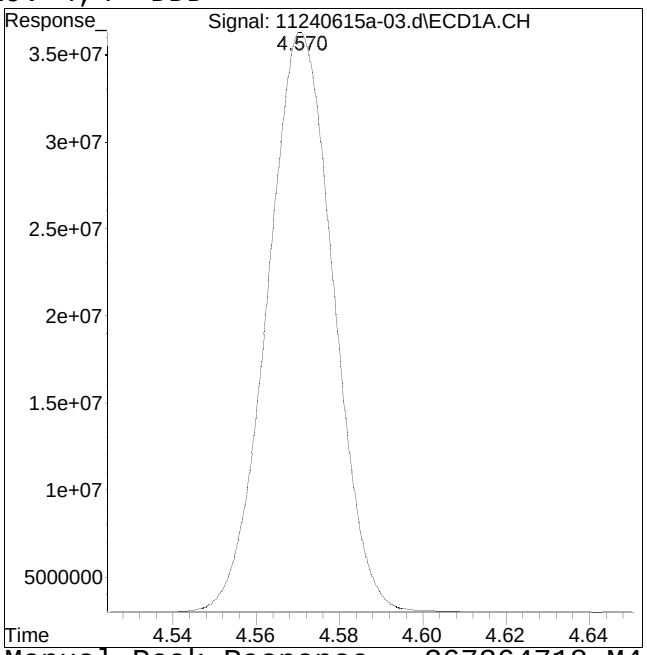
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #19: 4,4'-DDD



Original Peak Response = 378445227

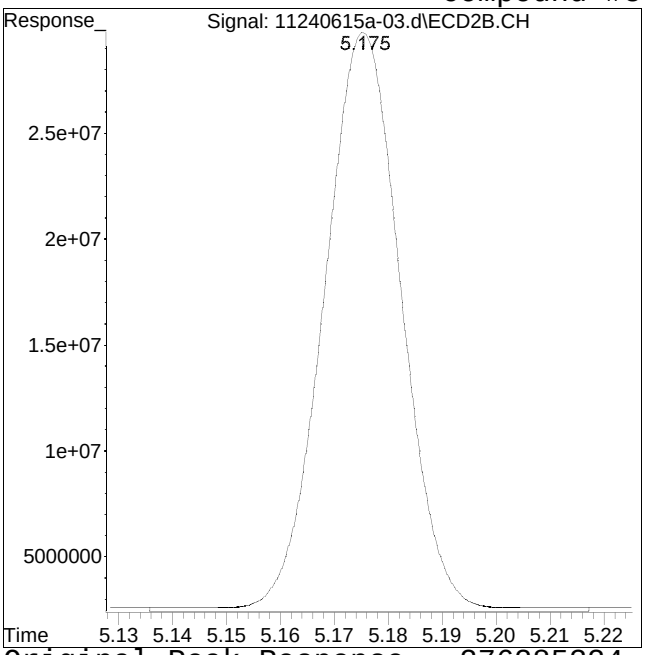


Manual Peak Response = 367364718 M4
M4 = Poor automated baseline construction.

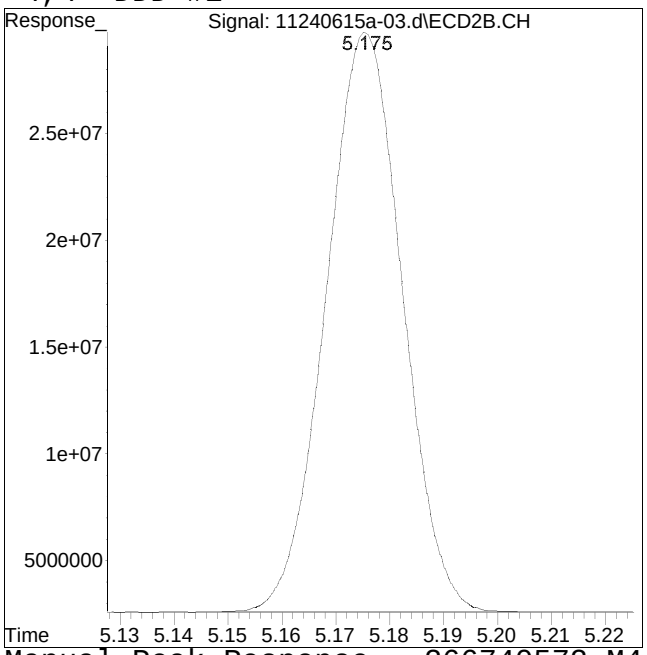
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 276285324

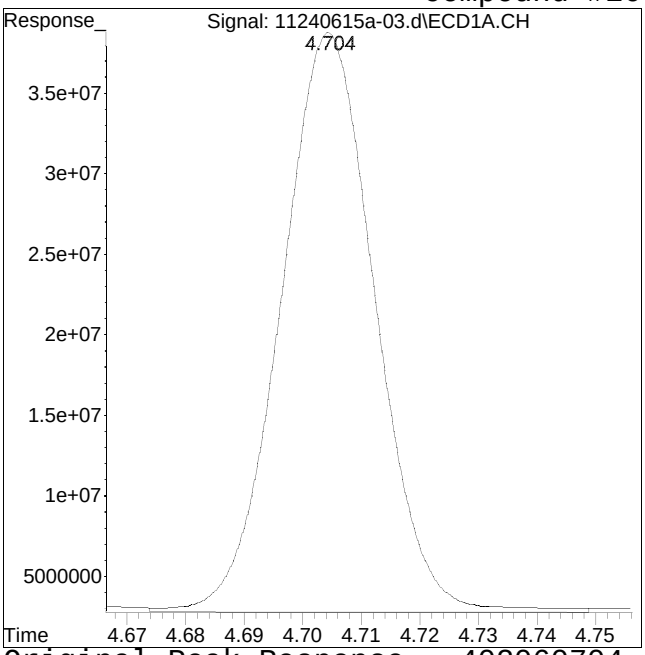


Manual Peak Response = 266740572 M4
M4 = Poor automated baseline construction.

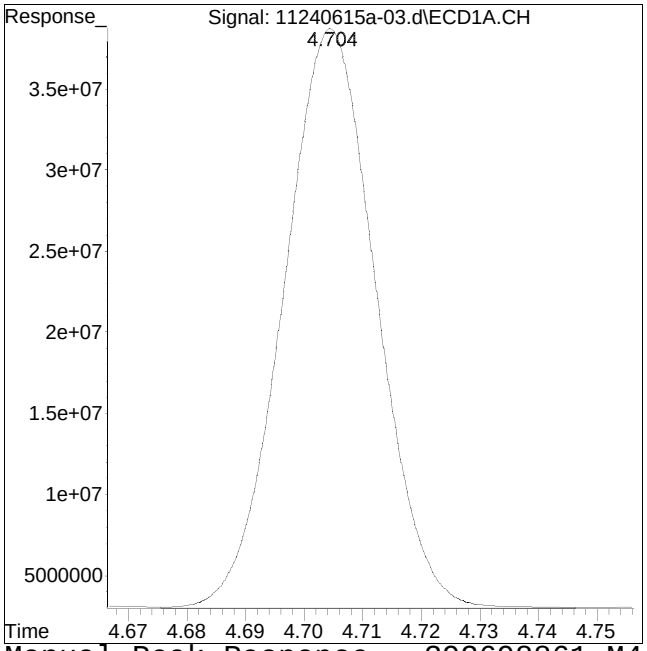
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #20: Endosulfan II



Original Peak Response = 402060704

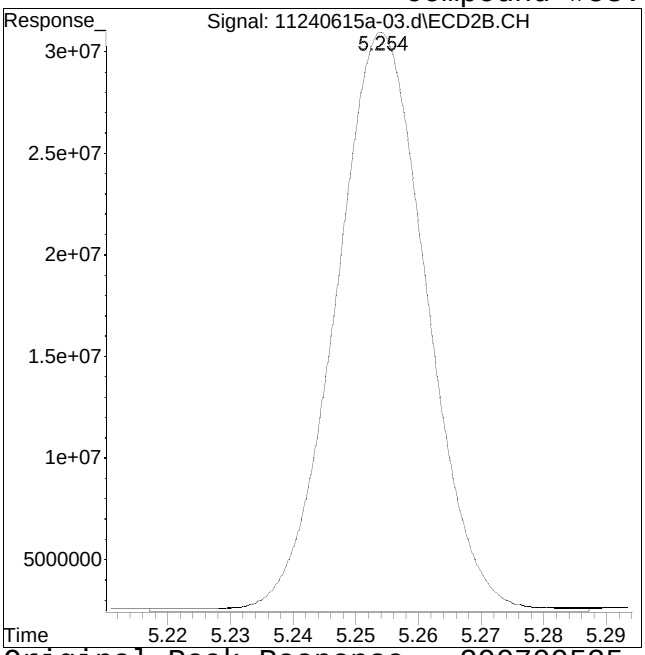


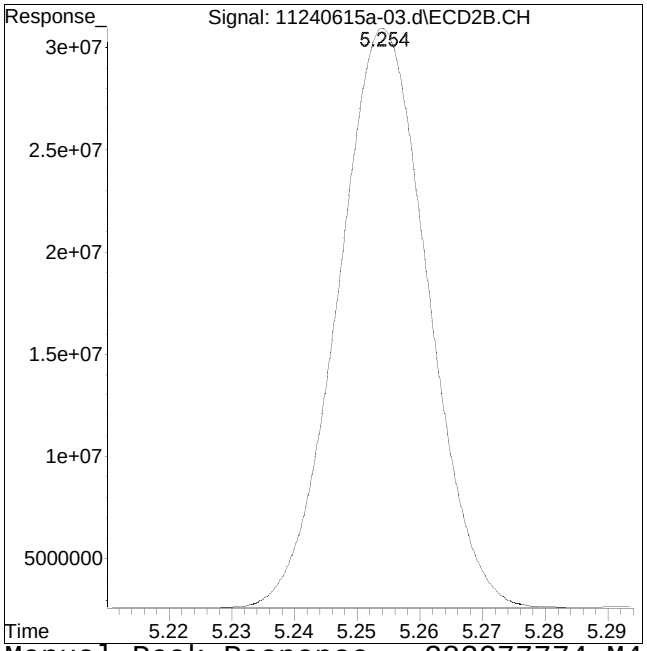
Manual Peak Response = 392698861 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #58: Endosulfan II #2



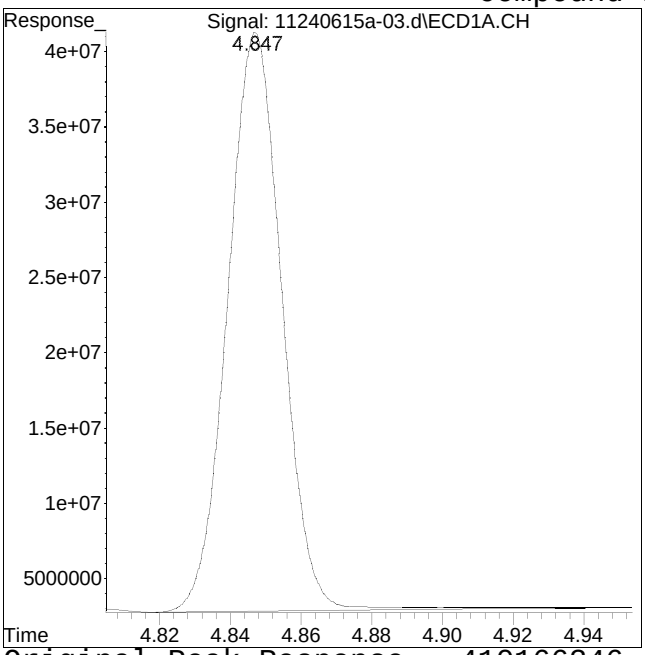


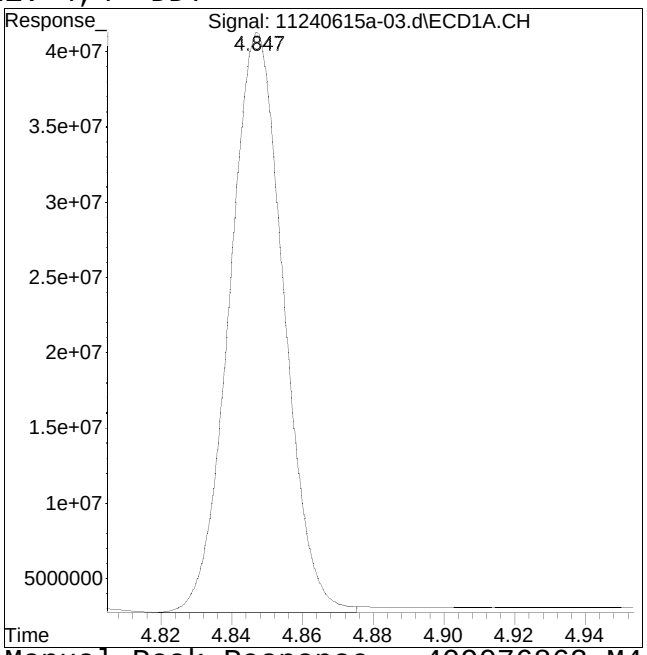
Original Peak Response = 290709535 Manual Peak Response = 283277774 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #21: 4,4'-DDT



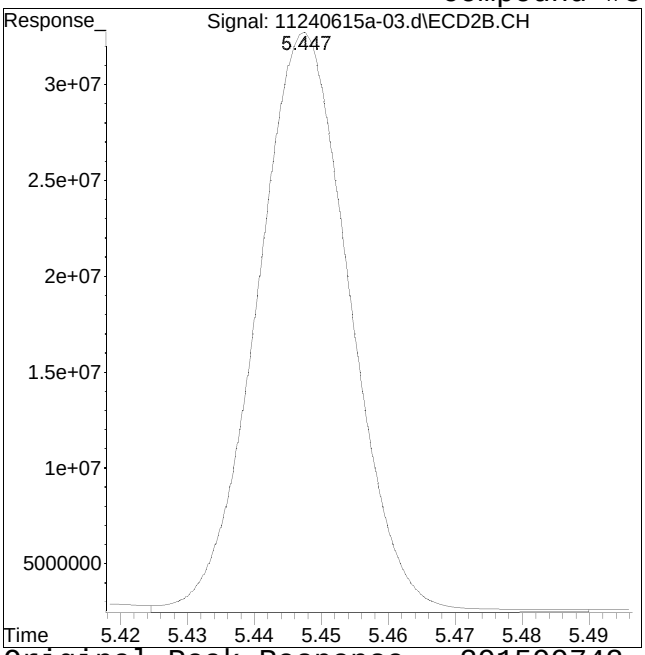


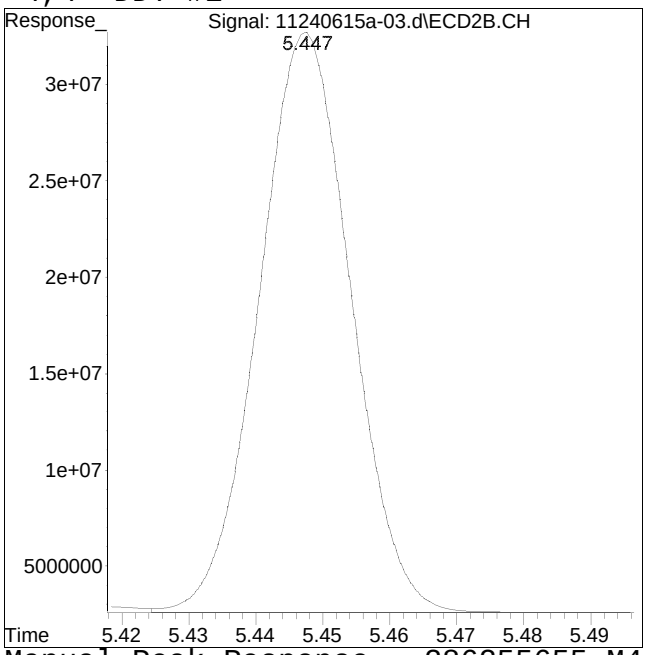
Original Peak Response = 410166346 Manual Peak Response = 409076862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #59: 4,4'-DDT #2



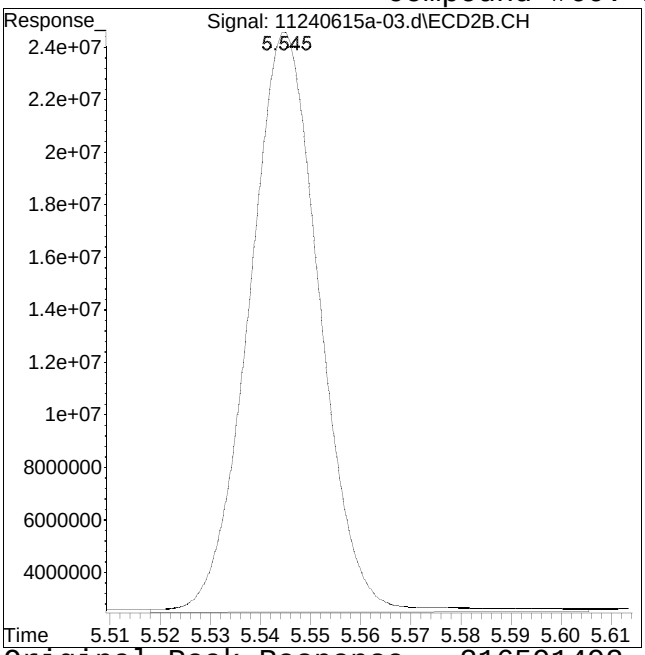


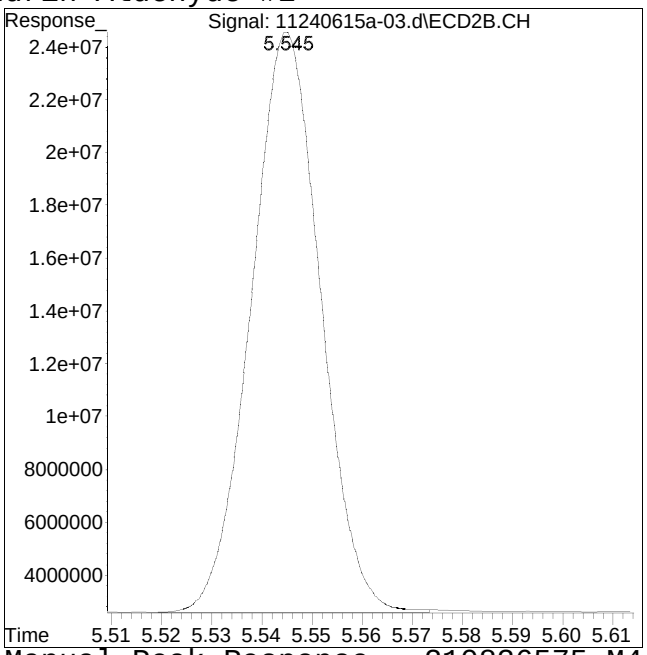
Original Peak Response = 291599742 Manual Peak Response = 286255655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #60: Endrin Aldehyde #2



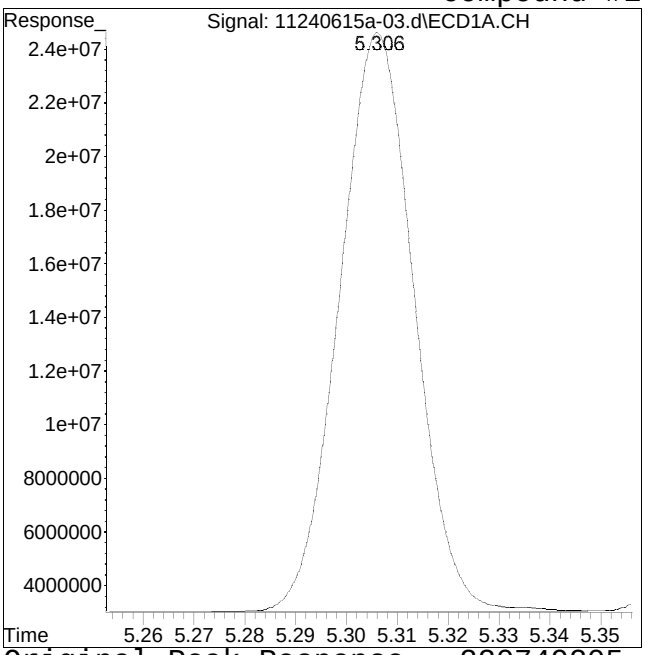


Original Peak Response = 216591492 Manual Peak Response = 210836575 M4
M4 = Poor automated baseline construction.

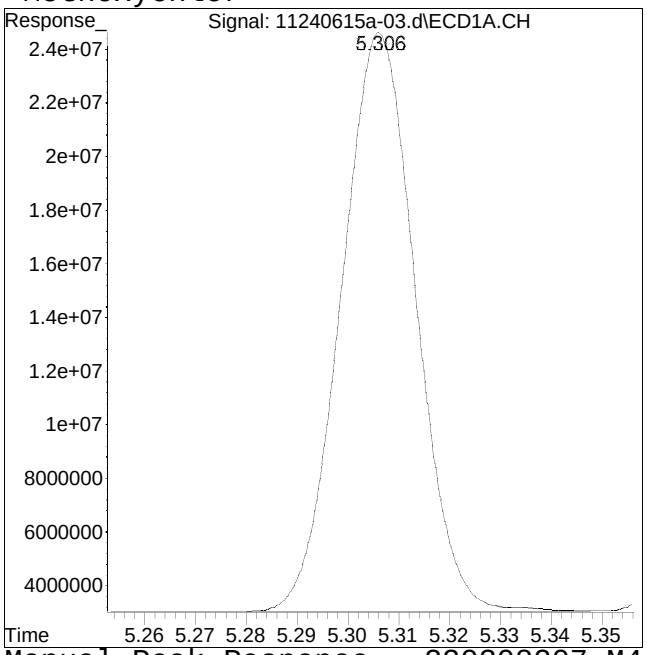
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #23: Methoxychlor



Original Peak Response = 220749205



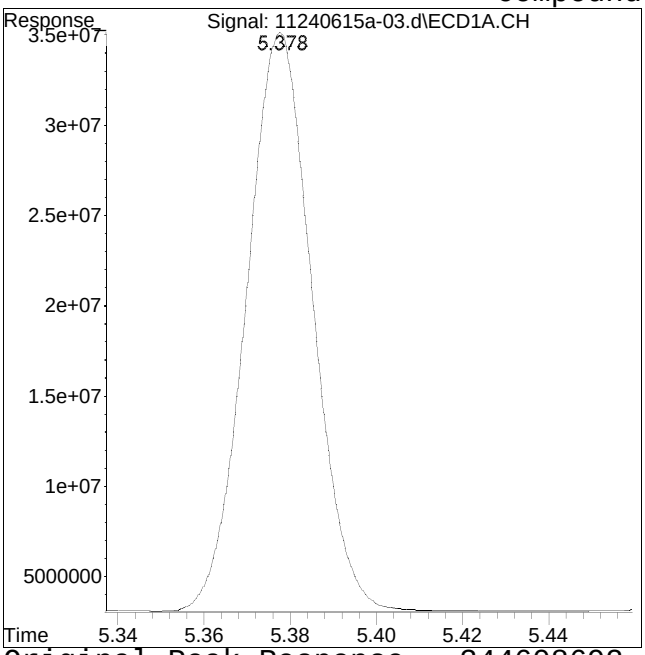
Manual Peak Response = 220308207 M4

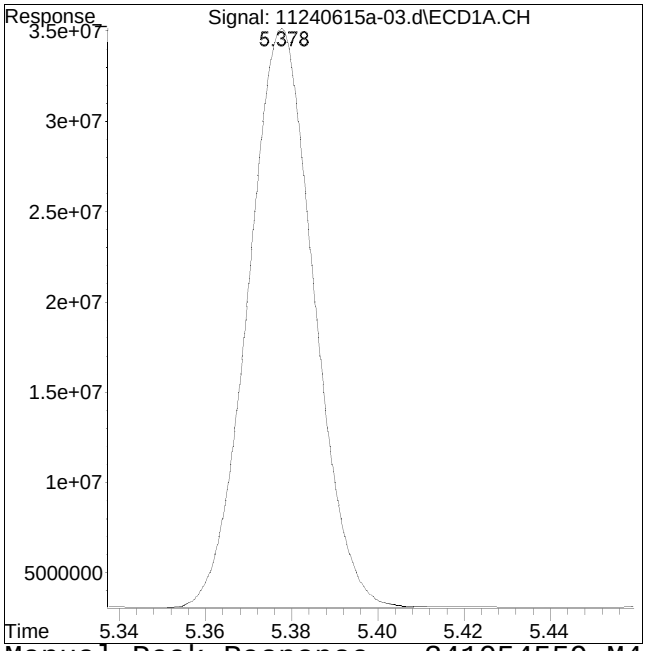
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #24: Mirex



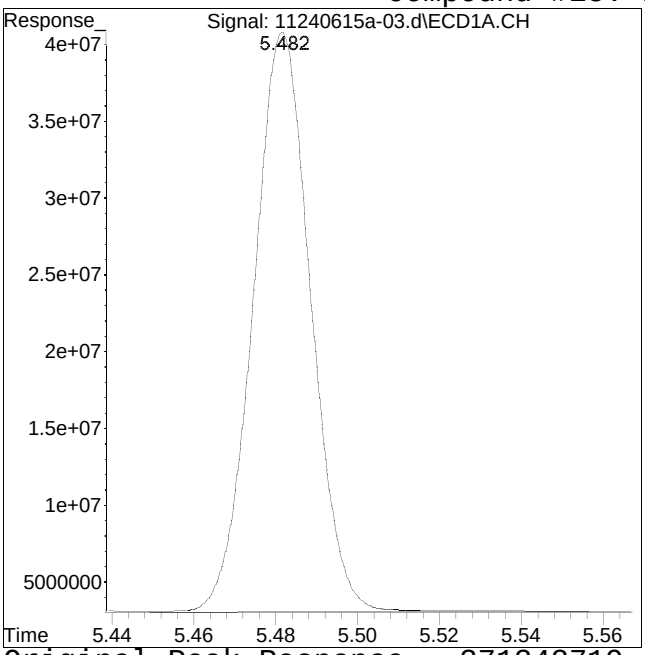


Original Peak Response = 344608692 Manual Peak Response = 341054559 M4
M4 = Poor automated baseline construction.

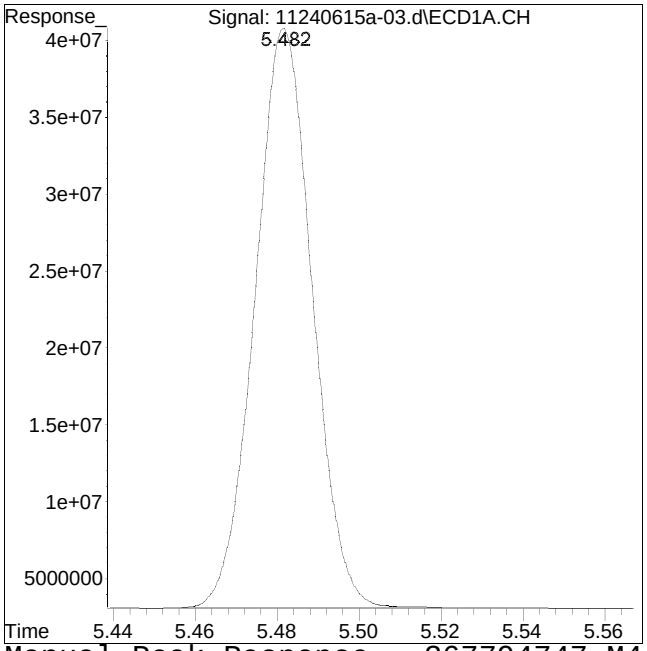
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 371342719



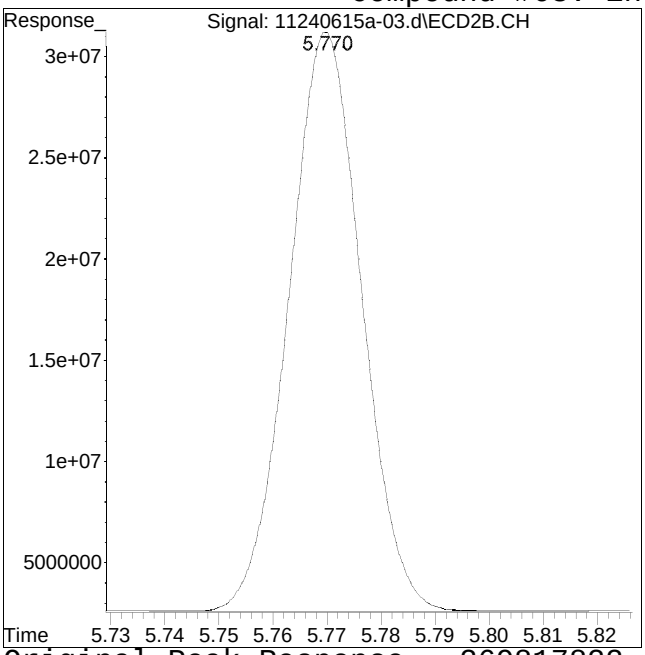
Manual Peak Response = 367794747 M4

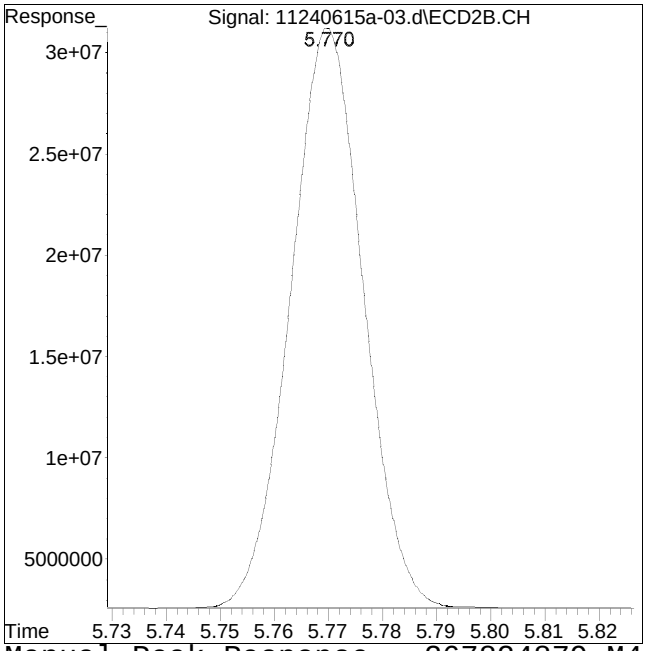
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #63: Endosulfan Sulfate #2



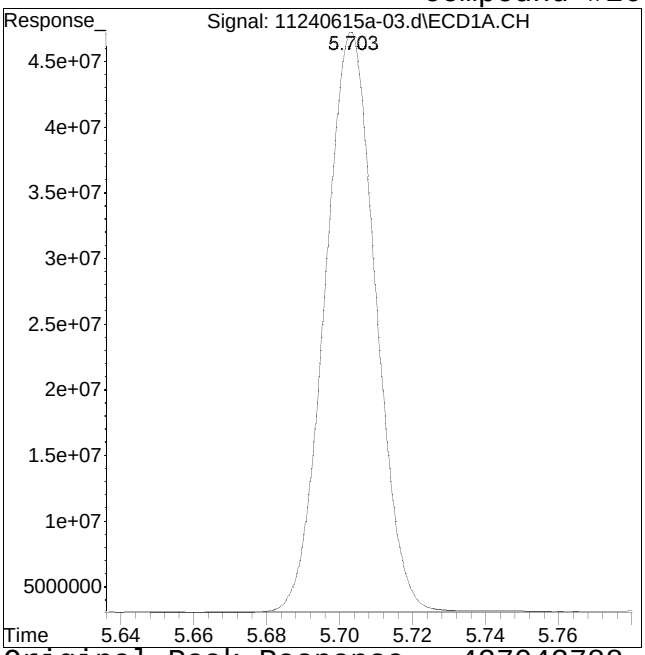


Original Peak Response = 269817822 Manual Peak Response = 267824879 M4
M4 = Poor automated baseline construction.

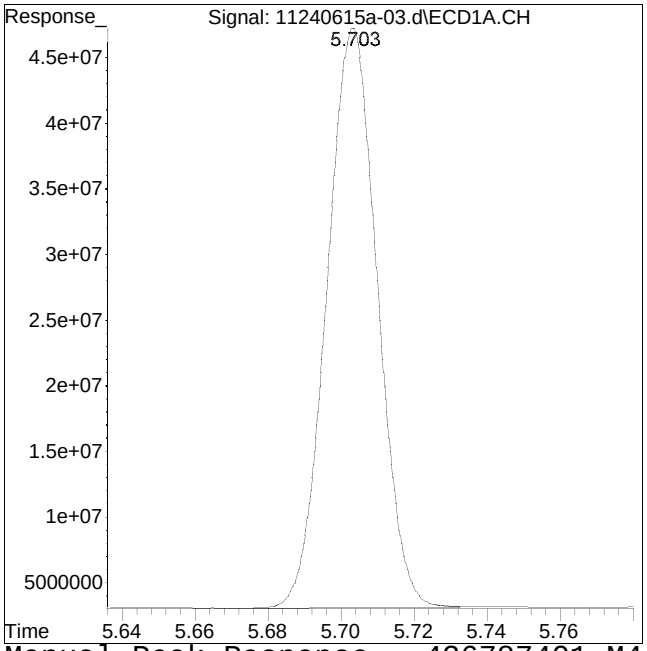
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #26: Endrin Ketone



Original Peak Response = 427042788



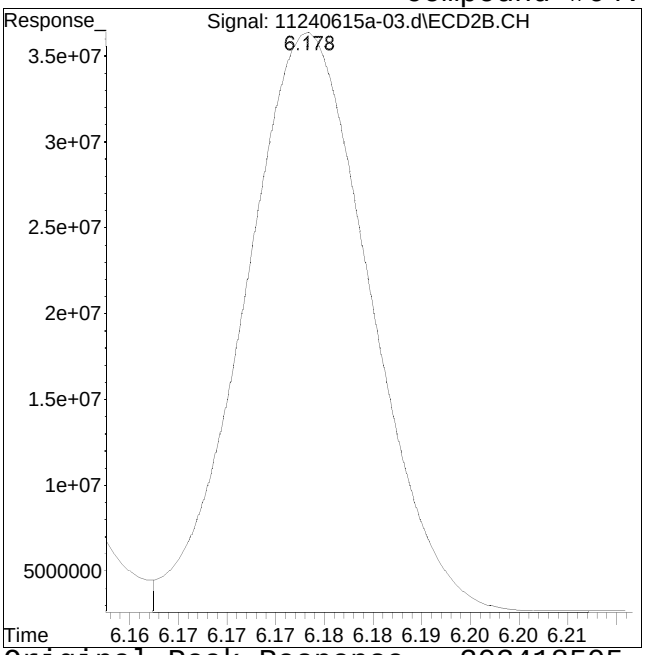
Manual Peak Response = 426787401 M4

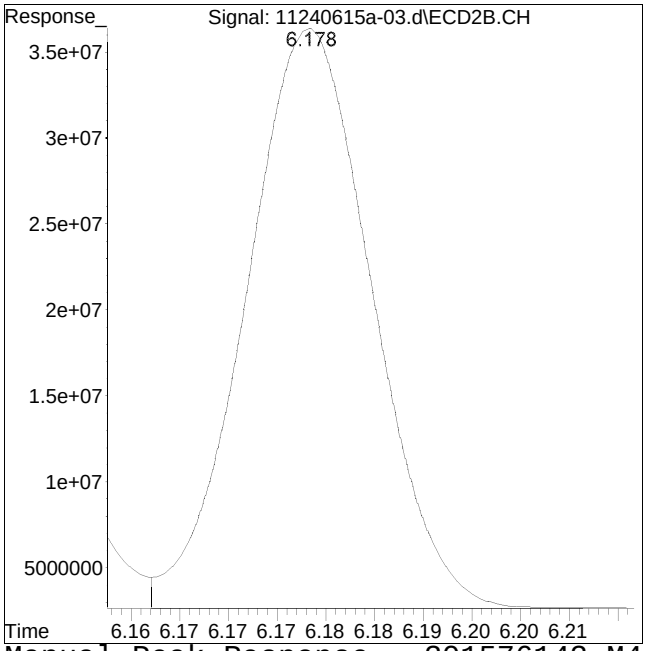
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #64: Endrin Ketone #2



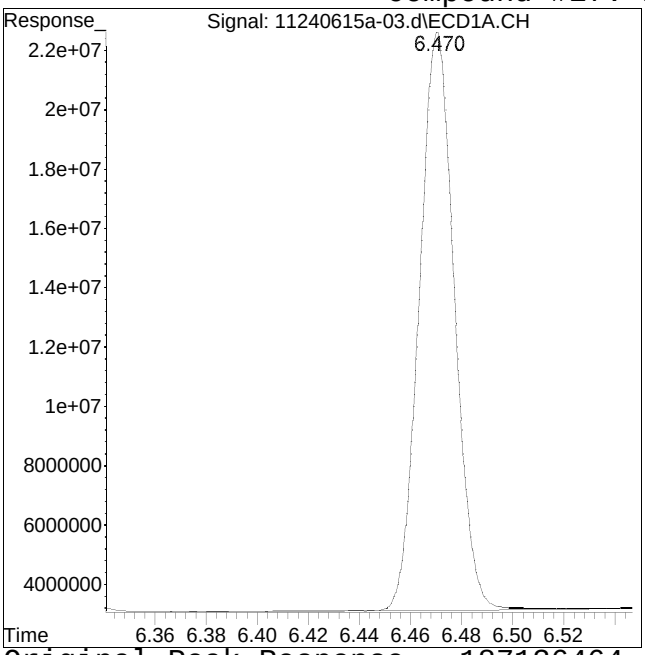


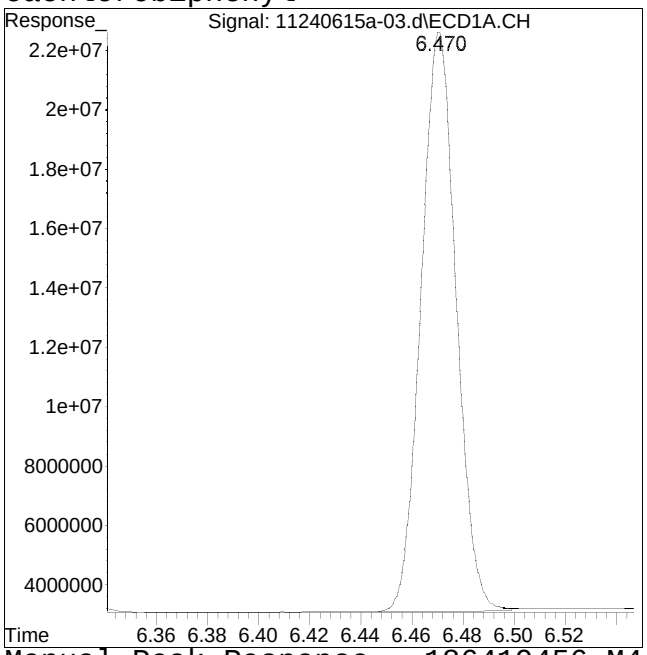
Original Peak Response = 303418505 Manual Peak Response = 301576143 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #27: Decachlorobiphenyl



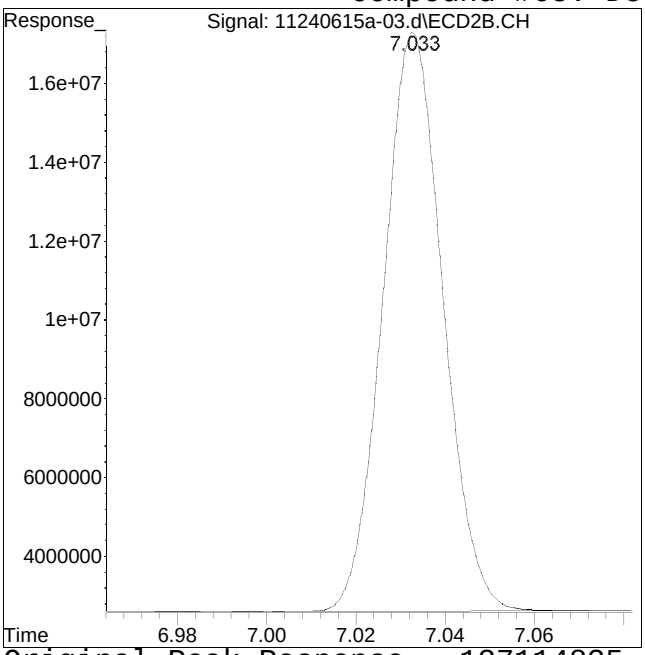


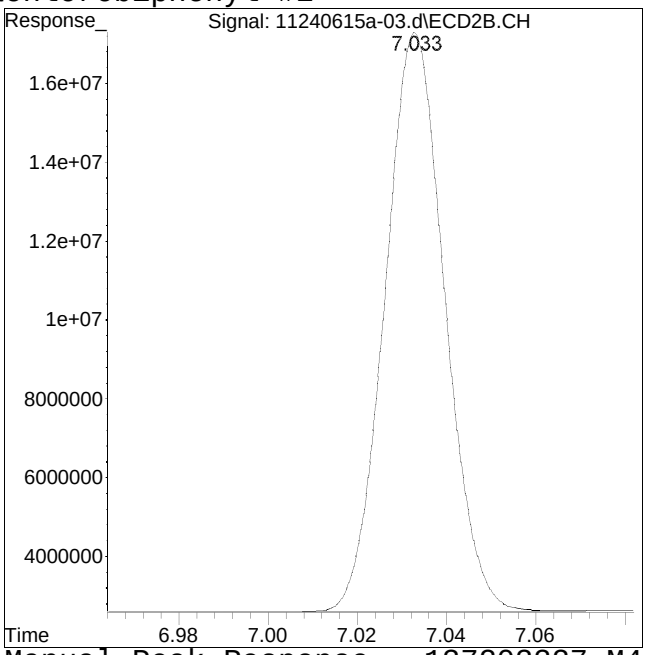
Original Peak Response = 187136464 Manual Peak Response = 186419456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-03.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:58 Instrument : Pest 11
Sample : wg1934790-1,42,,pest11595 Quant Date : 6/15/2024 8:33 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 137114835 Manual Peak Response = 137203327 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:10
Operator : PEST11:peg
Sample   : wg1934790-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:35:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:41 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	868.167	13.2	84	0.00
30	l1	chlordane-3		*1000.000	857.702	14.2	82	0.00
31	l1	chlordane-4		*1000.000	846.590	15.3#	82	0.00
32	l1	chlordane-5		*1000.000	935.526	6.4	90	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	98	0.00
29	l1	chlordane-1		*1000.000	957.711	4.2	94	0.00
30	l1	chlordane-3		*1000.000	950.832	4.9	92	0.00
31	l1	chlordane-4		*1000.000	922.636	7.7	90	0.00
32	l1	chlordane-5		*1000.000	906.631	9.3	88	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	0.000	100.0#	0#	-1.79#
3	t	Hexachlorobenzene		1.275	0.000	100.0#	0#	-2.02#
4	t	alpha-BHC		1.524	0.000	100.0#	0#	-2.13#
5	t	gamma-BHC (lindane)		1.455	0.000	100.0#	0#	-2.35#
6	t	beta-BHC		0.696	0.000	100.0#	0#	-2.40#
7	t	delta-BHC		1.422	0.000	100.0#	0#	-2.54#
8	t	Heptachlor		1.524	0.000	100.0#	0#	-2.72#
9	t	Aldrin		1.387	0.000	100.0#	0#	-2.97#
10	t	Alachlor		0.234	0.000	100.0#	0#	-3.10#
11	t	Chlorpyrifos		0.821	0.000	100.0#	0#	-3.19#
12	t	Heptachlor Epoxide		1.353	0.000	100.0#	0#	-3.55#
13	t	gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:10
Operator : PEST11:peg
Sample   : wg1934790-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:35:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:41 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.410	0.000	100.0#	0#	-3.82#
15	t	4,4'-DDE		1.291	0.000	100.0#	0#	-3.92#
16	t	Endosulfan I		1.289	0.000	100.0#	0#	-3.97#
17	t	Dieldrin		1.289	0.000	100.0#	0#	-4.24#
18	t	Endrin		1.305	0.000	100.0#	0#	-4.48#
19	t	4,4'-DDD		1.040	0.000	100.0#	0#	-4.57#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.70#
21	t	4,4'-DDT		1.221	0.000	100.0#	0#	-4.85#
22	t	Endrin Aldehyde		0.995	0.000	100.0#	0#	-5.10#
23	t	Methoxychlor		0.700	0.000	100.0#	0#	-5.31#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.38#
25	t	Endosulfan Sulfate		1.197	0.000	100.0#	0#	-5.48#
26	t	Endrin Ketone		1.264	0.000	100.0#	0#	-5.70#
27	s	Decachlorobiphenyl		1.082	0.000	100.0#	0#	-6.47#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-2		0.058	0.000	100.0#	0#	-4.70#
35	l2	toxaphene-3		0.044	0.000	100.0#	0#	-4.82#
36	l2	toxaphene-4		0.046	0.000	100.0#	0#	-5.03#
37	l2	toxaphene-5		0.042	0.000	100.0#	0#	-5.21#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.45#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	0.000	100.0#	0#	-1.94#
3	t	Hexachlorobenzene		1.329	0.000	100.0#	0#	-2.28#
4	t	alpha-BHC		1.585	0.000	100.0#	0#	-2.38#
5	t	gamma-BHC (lindane)		1.506	0.000	100.0#	0#	-2.67#
6	t	beta-BHC		0.741	0.000	100.0#	0#	-2.74#
7	t	delta-BHC		1.490	0.000	100.0#	0#	-3.01#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:10
Operator : PEST11:peg
Sample   : wg1934790-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:35:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:41 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.555	0.000	100.0#	0#	-3.08#
9	t	Aldrin		1.407	0.000	100.0#	0#	-3.41#
10	t	Alachlor		0.233	0.000	100.0#	0#	-3.29#
11	t	Chlorpyrifos		0.894	0.000	100.0#	0#	-3.65#
12	t	Heptachlor Epoxide		1.404	0.000	100.0#	0#	-4.04#
13	t	gamma-Chlordane (trans)		1.270	0.000	100.0#	0#	-4.27#
14	t	alpha-Chlordane (cis)		1.426	0.000	100.0#	0#	-4.43#
15	t	4,4'-DDE		1.304	0.000	100.0#	0#	-4.62#
16	t	Endosulfan I		1.310	0.000	100.0#	0#	-4.49#
17	t	Dieldrin		1.299	0.000	100.0#	0#	-4.77#
18	t	Endrin		1.313	0.000	100.0#	0#	-5.06#
19	t	4,4'-DDD		1.057	0.000	100.0#	0#	-5.18#
20	t	Endosulfan II		1.211	0.000	100.0#	0#	-5.25#
21	t	4,4'-DDT		1.224	0.000	100.0#	0#	-5.45#
22	t	Endrin Aldehyde		1.022	0.000	100.0#	0#	-5.54#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.00#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.15#
25	t	Endosulfan Sulfate		1.181	0.000	100.0#	0#	-5.77#
26	t	Endrin Ketone		1.290	0.000	100.0#	0#	-6.18#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.03#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.45#
34	l2	toxaphene-2		0.024	0.000	100.0#	0#	-5.21#
35	l2	toxaphene-3		0.037	0.000	100.0#	0#	-5.24#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.55#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-5.96#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:10
Operator : PEST11:peg
Sample : wg1934790-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:35:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.429	1.448	173.7E6	131.3E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:10
Operator : PEST11:peg
Sample : wg1934790-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:35:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.651	2.944	221.3E6	162.7E6	868.167	957.711
30) l1	chlordane-3	3.095	3.568	268.1E6	192.7E6	857.702	950.832
31) l1	chlordane-4	3.680	4.265	977.0E6	654.4E6	846.590	922.636
32) l1	chlordane-5	3.807	4.429	1674.5E6	500.6E6	935.526	906.631
Sum	chlordane-1			3140.9E6	1510.4E6	N.D.	N.D. D
Average	chlordane-1					876.996	934.453
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

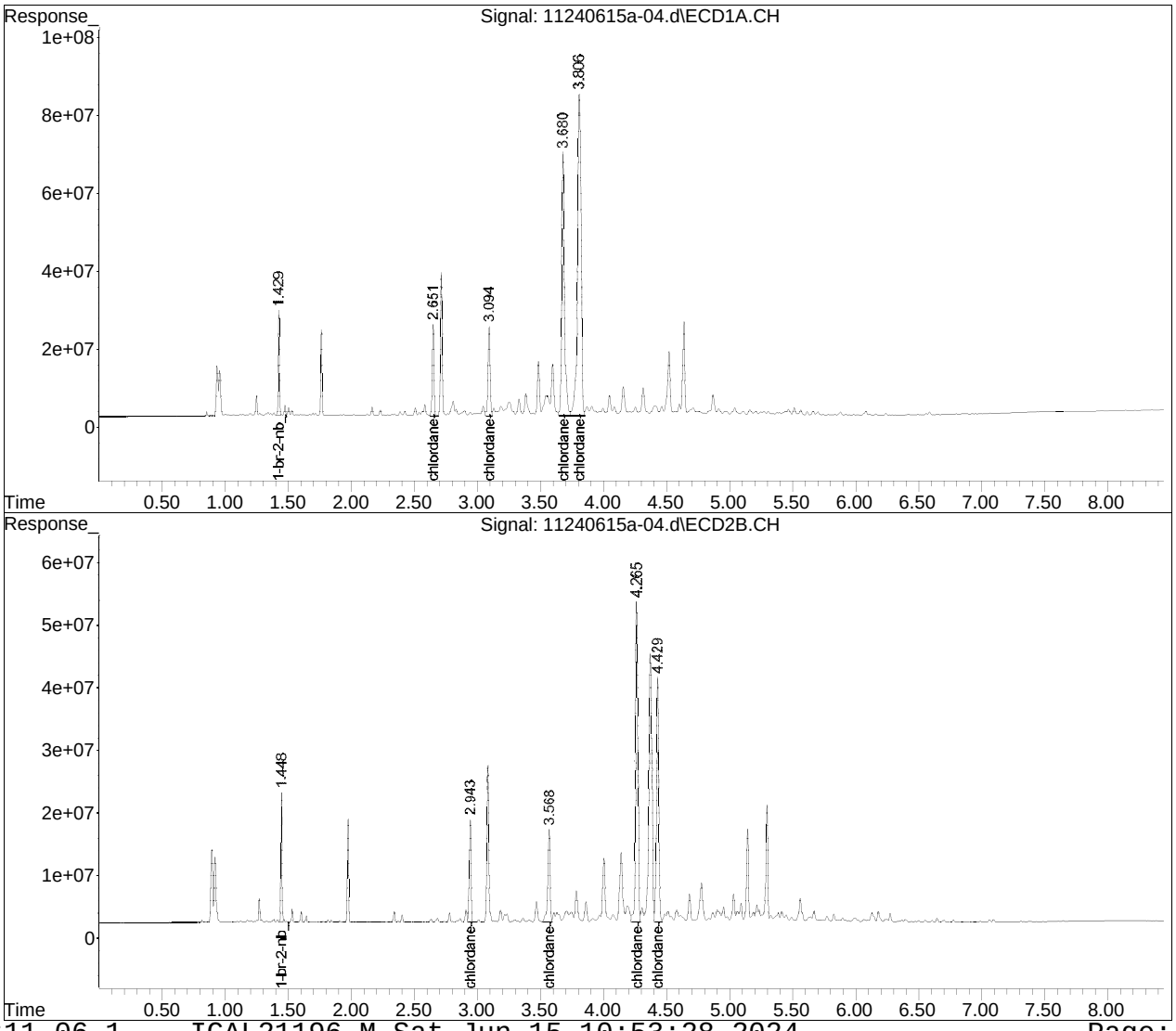
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:10
Operator : PEST11:peg
Sample : wg1934790-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:35:49 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

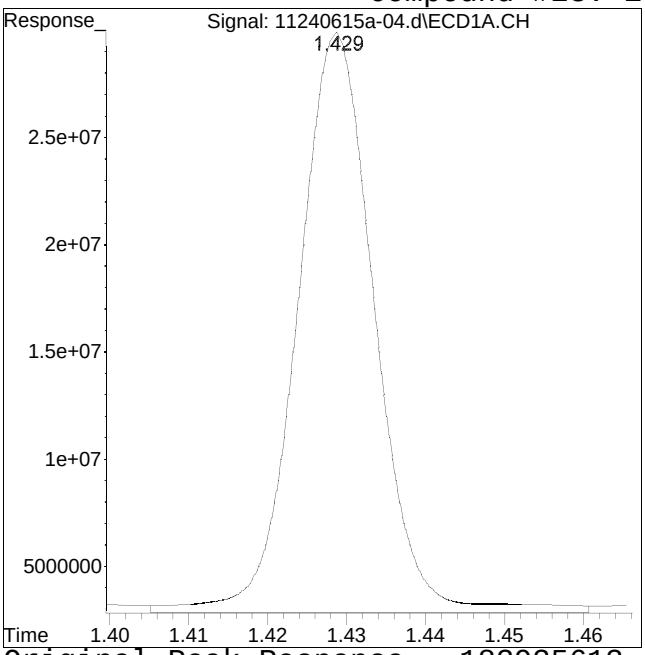
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



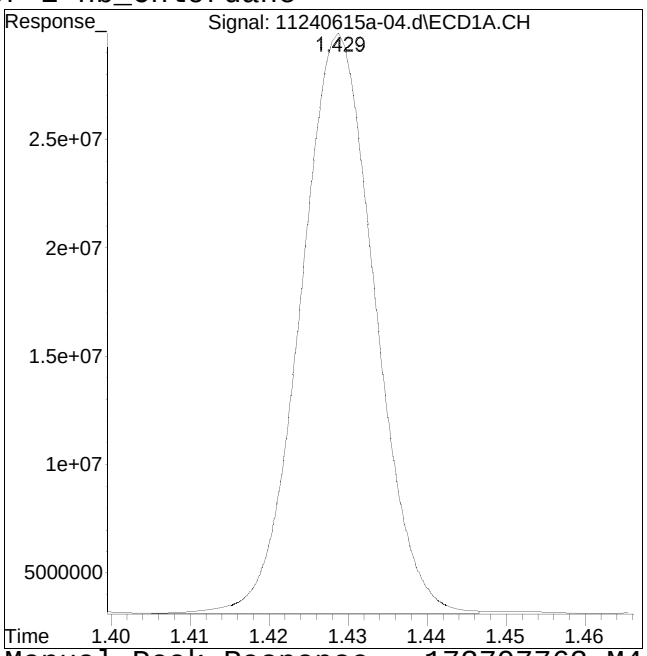
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-04.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 8:10 Instrument : Pest 11
Sample : wg1934790-2,42,,chlor11612Quant Date : 6/15/2024 8:35 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 183935613



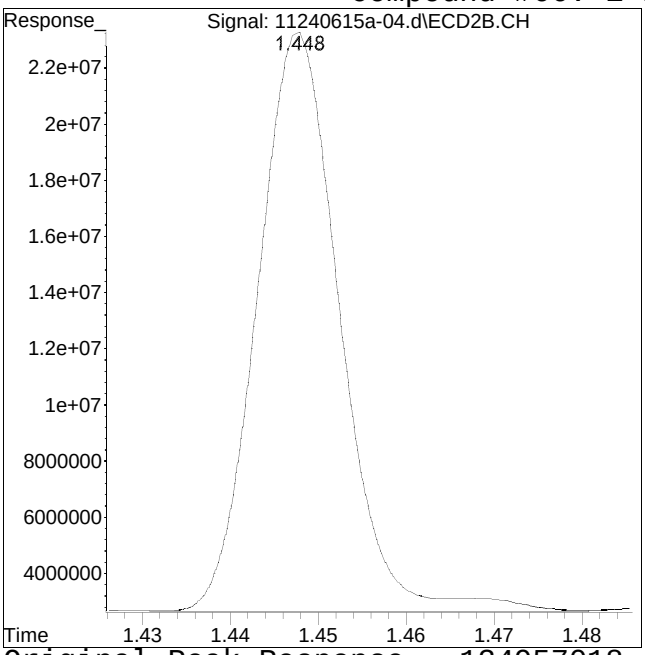
Manual Peak Response = 173707763 M4

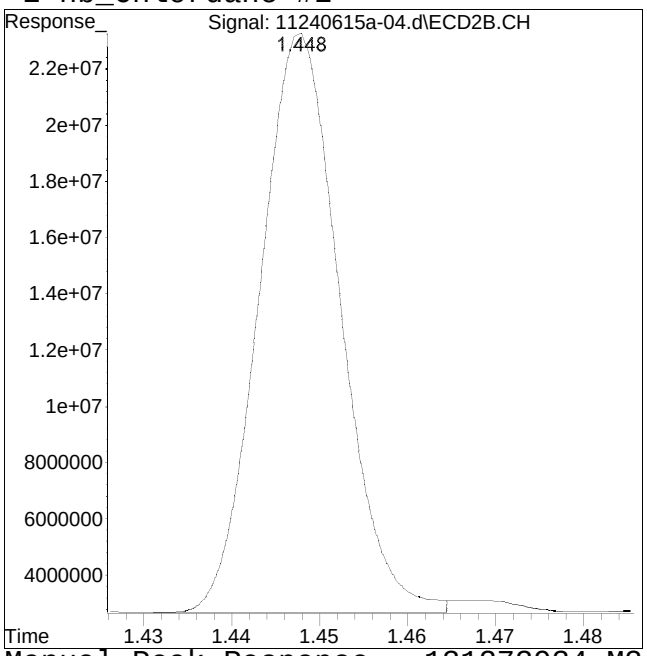
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-04.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 8:10 Instrument : Pest 11
Sample : wg1934790-2,42,,chlor11612Quant Date : 6/15/2024 8:35 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 134957018 Manual Peak Response = 131273934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:22
Operator : PEST11:peg
Sample   : wg1934790-3,42,,tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:52:14 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	112	0.00
34	l2	toxaphene-2		0.058	0.063	-8.6	120	0.00
35	l2	toxaphene-3		0.044	0.043	2.3	99	0.00
36	l2	toxaphene-4		0.046	0.049	-6.5	114	0.00
37	l2	toxaphene-5		0.042	0.047	-11.9	119	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	122	0.00
34	l2	toxaphene-2		0.024	0.026	-8.3	130	0.00
35	l2	toxaphene-3		0.037	0.038	-2.7	131	0.00
36	l2	toxaphene-4		0.043	0.036	16.3#	106	0.00
37	l2	toxaphene-5		0.039	0.039	0.0	126	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	0.000	100.0#	0#	-1.79#
3	t	Hexachlorobenzene		1.275	0.000	100.0#	0#	-2.02#
4	t	alpha-BHC		1.524	0.000	100.0#	0#	-2.13#
5	t	gamma-BHC (lindane)		1.455	0.000	100.0#	0#	-2.35#
6	t	beta-BHC		0.696	0.000	100.0#	0#	-2.40#
7	t	delta-BHC		1.422	0.000	100.0#	0#	-2.54#
8	t	Heptachlor		1.524	0.000	100.0#	0#	-2.72#
9	t	Aldrin		1.387	0.000	100.0#	0#	-2.97#
10	t	Alachlor		0.234	0.000	100.0#	0#	-3.10#
11	t	Chlorpyrifos		0.821	0.000	100.0#	0#	-3.19#
12	t	Heptachlor Epoxide		1.353	0.000	100.0#	0#	-3.55#
13	t	gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:22
Operator : PEST11:peg
Sample   : wg1934790-3,42,,tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:52:14 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.410	0.000	100.0#	0#	-3.82#
15	t	4,4'-DDE		1.291	0.000	100.0#	0#	-3.92#
16	t	Endosulfan I		1.289	0.000	100.0#	0#	-3.97#
17	t	Dieldrin		1.289	0.000	100.0#	0#	-4.24#
18	t	Endrin		1.305	0.000	100.0#	0#	-4.48#
19	t	4,4'-DDD		1.040	0.000	100.0#	0#	-4.57#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.70#
21	t	4,4'-DDT		1.221	0.000	100.0#	0#	-4.85#
22	t	Endrin Aldehyde		0.995	0.000	100.0#	0#	-5.10#
23	t	Methoxychlor		0.700	0.000	100.0#	0#	-5.31#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.38#
25	t	Endosulfan Sulfate		1.197	0.000	100.0#	0#	-5.48#
26	t	Endrin Ketone		1.264	0.000	100.0#	0#	-5.70#
27	s	Decachlorobiphenyl		1.082	0.000	100.0#	0#	-6.47#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.65#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.09#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.68#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.81#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.45#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	0.000	100.0#	0#	-1.94#
3	t	Hexachlorobenzene		1.329	0.000	100.0#	0#	-2.28#
4	t	alpha-BHC		1.585	0.000	100.0#	0#	-2.38#
5	t	gamma-BHC (lindane)		1.506	0.000	100.0#	0#	-2.67#
6	t	beta-BHC		0.741	0.000	100.0#	0#	-2.74#
7	t	delta-BHC		1.490	0.000	100.0#	0#	-3.01#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024   8:22
Operator : PEST11:peg
Sample   : wg1934790-3,42,,tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:52:14 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.555	0.000	100.0#	0#	-3.08#
9	t	Aldrin		1.407	0.000	100.0#	0#	-3.41#
10	t	Alachlor		0.233	0.000	100.0#	0#	-3.29#
11	t	Chlorpyrifos		0.894	0.000	100.0#	0#	-3.65#
12	t	Heptachlor Epoxide		1.404	0.000	100.0#	0#	-4.04#
13	t	gamma-Chlordane (trans)		1.270	0.000	100.0#	0#	-4.27#
14	t	alpha-Chlordane (cis)		1.426	0.000	100.0#	0#	-4.43#
15	t	4,4'-DDE		1.304	0.000	100.0#	0#	-4.62#
16	t	Endosulfan I		1.310	0.000	100.0#	0#	-4.49#
17	t	Dieldrin		1.299	0.000	100.0#	0#	-4.77#
18	t	Endrin		1.313	0.000	100.0#	0#	-5.06#
19	t	4,4'-DDD		1.057	0.000	100.0#	0#	-5.18#
20	t	Endosulfan II		1.211	0.000	100.0#	0#	-5.25#
21	t	4,4'-DDT		1.224	0.000	100.0#	0#	-5.45#
22	t	Endrin Aldehyde		1.022	0.000	100.0#	0#	-5.54#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.00#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.15#
25	t	Endosulfan Sulfate		1.181	0.000	100.0#	0#	-5.77#
26	t	Endrin Ketone		1.290	0.000	100.0#	0#	-6.18#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.03#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.45#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.94#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.57#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.27#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.43#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:22
Operator : PEST11:peg
Sample : wg1934790-3,42,,tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:52:14 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.428	1.447	172.7E6	128.1E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:22
Operator : PEST11:peg
Sample : wg1934790-3,42,,tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:52:14 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.698	5.213	870.3E6	262.4E6	2176.538	2113.043
35) l2	toxaphene-3	4.816	5.243	593.8E6	387.5E6	1932.416	2040.182
36) l2	toxaphene-4	5.025	5.553	672.9E6	368.8E6	2134.309	1684.557
37) l2	toxaphene-5	5.213	5.956	654.2E6	404.3E6	2228.959	2000.153
Sum	toxaphene-2			2791.3E6	1423.0E6	8472.222	7837.934
Average	toxaphene-2					2118.055	1959.484

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			2791.3E6	1423.0E6	8472.222	7837.934
Average	toxaphene-2					2118.055	1959.484

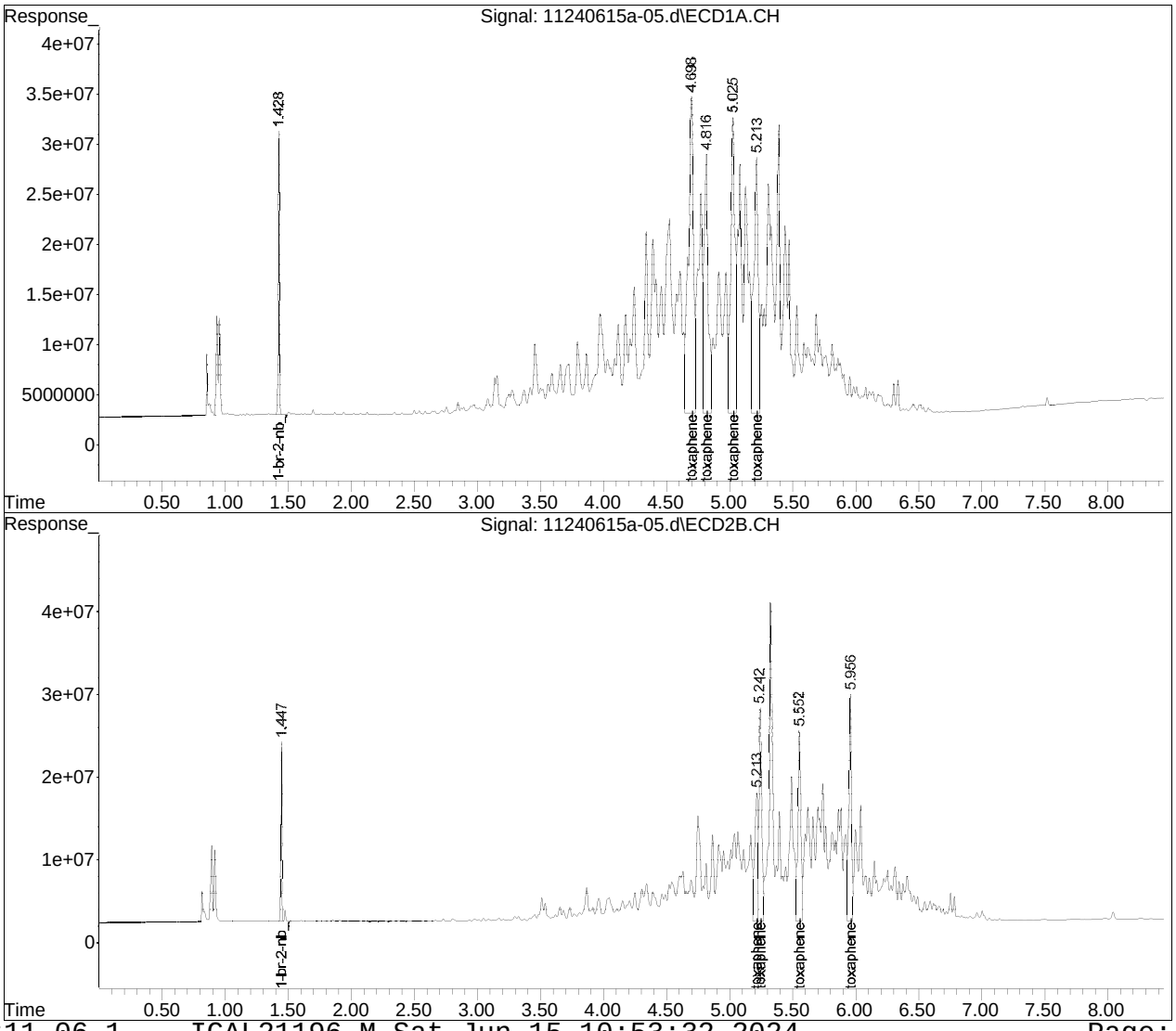
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 8:22
Operator : PEST11:peg
Sample : wg1934790-3,42,,tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:52:14 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

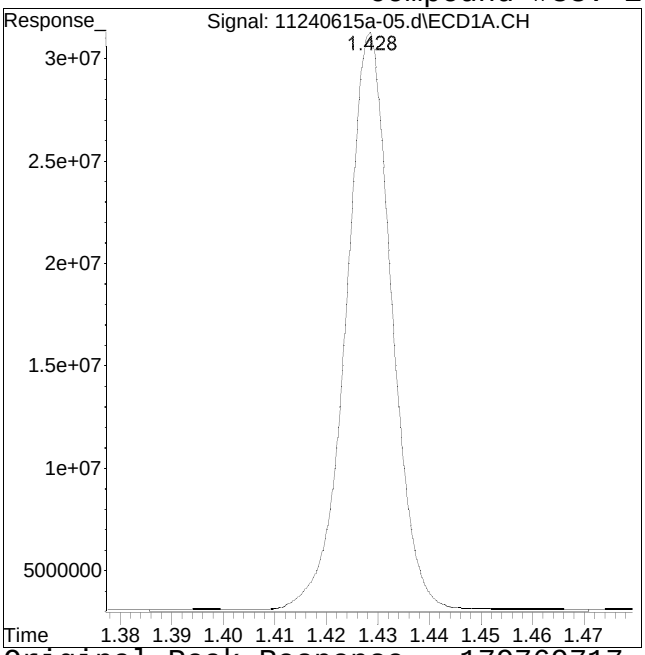
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

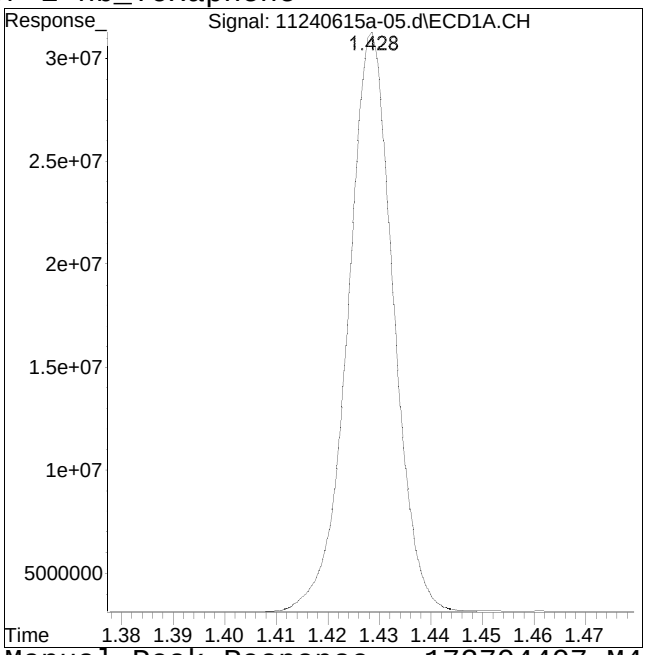


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-05.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 8:22 Instrument : Pest 11
Sample : wg1934790-3,42,,tox11541 Quant Date : 6/15/2024 8:52 am

Compound #33: 1-br-2-nb_Toxaphene



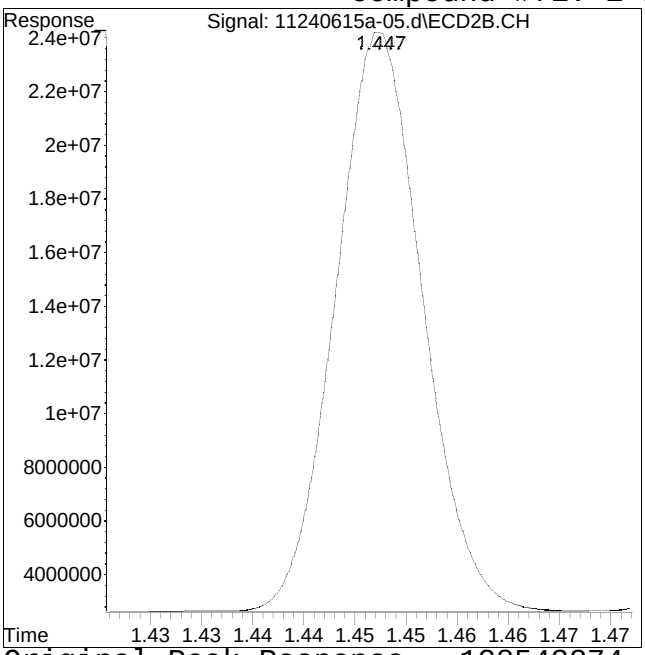


Original Peak Response = 179769717 Manual Peak Response = 172704407 M4
M4 = Poor automated baseline construction.

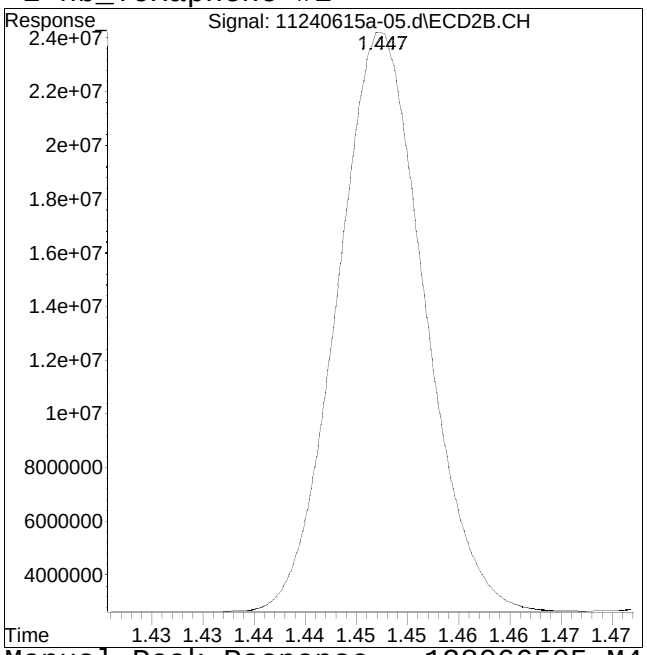
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-05.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 8:22 Instrument : Pest 11
Sample : wg1934790-3,42,,tox11541 Quant Date : 6/15/2024 8:52 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 128543274



Manual Peak Response = 128066505 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample   : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.113	1.059	4.9	87	0.00
3	t	Hexachlorobenzene		1.275	1.147	10.0	85	0.00
4	t	alpha-BHC		1.524	1.575	-3.3	88	0.00
5	t	gamma-BHC (lindane)		1.455	1.428	1.9	86	0.00
6	t	beta-BHC		0.696	0.630	9.5	88	0.00
7	t	delta-BHC		1.422	1.416	0.4	85	0.00
8	t	Heptachlor		1.524	1.402	8.0	79	0.00
9	t	Aldrin		1.387	1.390	-0.2	87	0.00
10	t	Alachlor		0.234	0.208	11.1	66	0.00
11	t	Chlorpyrifos		0.821	0.668	18.6#	83	0.00
12	t	Heptachlor Epoxide		1.353	1.303	3.7	90	0.00
13	t	gamma-Chlordane (trans)		1.246	1.342	-7.7	99	0.00
14	t	alpha-Chlordane (cis)		1.410	1.308	7.2	87	0.00
15	t	4,4'-DDE		1.291	1.276	1.2	87	0.00
16	t	Endosulfan I		1.289	1.221	5.3	89	0.00
17	t	Dieldrin		1.289	1.368	-6.1	93	0.00
18	t	Endrin		1.305	1.301	0.3	88	0.00
19	t	4,4'-DDD		1.040	1.111	-6.8	93	0.00
20	t	Endosulfan II		1.214	1.190	2.0	90	0.00
21	t	4,4'-DDT		1.221	1.075	12.0	78	0.00
22	t	Endrin Aldehyde		0.995	0.794	20.2#	77	0.00
23	t	Methoxychlor		0.700	0.576	17.7#	78	0.00
24	t	Mirex	*	50.000	51.201	-2.4	90	0.00
25	t	Endosulfan Sulfate		1.197	1.095	8.5	88	0.00
26	t	Endrin Ketone		1.264	1.215	3.9	90	0.00
27	s	Decachlorobiphenyl		1.082	0.565	47.8#	52	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample   : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.171	1.067	8.9	94	0.00
3	t	Hexachlorobenzene		1.329	1.160	12.7	95	0.00
4	t	alpha-BHC		1.585	1.549	2.3	93	0.00
5	t	gamma-BHC (lindane)		1.506	1.399	7.1	92	0.00
6	t	beta-BHC		0.741	0.643	13.2	94	0.00
7	t	delta-BHC		1.490	1.389	6.8	91	0.00
8	t	Heptachlor		1.555	1.367	12.1	89	0.00
9	t	Aldrin		1.407	1.321	6.1	94	0.00
10	t	Alachlor		0.233	0.200	14.2	97	0.00
11	t	Chlorpyrifos		0.894	0.692	22.6#	92	0.00
12	t	Heptachlor Epoxide		1.404	1.253	10.8	93	0.00
13	t	gamma-Chlordane (trans)		1.270	1.309	-3.1	108	0.00
14	t	alpha-Chlordane (cis)		1.426	1.268	11.1	94	0.00
15	t	4,4'-DDE		1.304	1.232	5.5	94	0.00
16	t	Endosulfan I		1.310	1.176	10.2	94	0.00
17	t	Dieldrin		1.299	1.306	-0.5	103	0.00
18	t	Endrin		1.313	1.234	6.0	96	0.00
19	t	4,4'-DDD		1.057	1.046	1.0	100	0.00
20	t	Endosulfan II		1.211	1.103	8.9	96	0.00
21	t	4,4'-DDT		1.224	0.972	20.6#	82	0.00
22	t	Endrin Aldehyde		1.022	0.738	27.8#	79	0.00
23	t	Methoxychlor	*	50.000	41.536	16.9#	80	0.00
24	t	Mirex	*	50.000	45.984	8.0	89	0.00
25	t	Endosulfan Sulfate		1.181	0.999	15.4#	93	0.00
26	t	Endrin Ketone		1.290	1.119	13.3	94	0.00
27	s	Decachlorobiphenyl	*	50.000	27.838	44.3#	54	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample   : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc   : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.65#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.09#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.68#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.81#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-2		0.058	0.000	100.0#	0#	-4.70#
35	l2	toxaphene-3		0.044	0.000	100.0#	0#	-4.82#
36	l2	toxaphene-4		0.046	0.000	100.0#	0#	-5.03#
37	l2	toxaphene-5		0.042	0.000	100.0#	0#	-5.21#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.45#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.94#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.57#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.27#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.43#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.45#
34	l2	toxaphene-2		0.024	0.000	100.0#	0#	-5.21#
35	l2	toxaphene-3		0.037	0.000	100.0#	0#	-5.24#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.55#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-5.96#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.429	1.449	148.1E6	107.6E6	25.000M3	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.797	1.946	313.7E6	229.7E6	47.562	45.563
		Spiked Amount 50.000	Range 30 - 150		Recovery =		95.12%	91.13%
27)	s	Decachlorobi	6.472	7.031	167.2E6	109.7E6	26.097	27.838
		Spiked Amount 50.000	Range 30 - 150		Recovery =		52.19%	55.68%
		Target Compounds						
3)	t	Hexachlorobe	2.026	2.279	339.8E6	249.6E6	44.995	43.642
4)	t	alpha-BHC	2.132	2.379	466.6E6	333.3E6	51.691	48.865
5)	t	gamma-BHC (l	2.349	2.675	422.8E6	301.0E6	49.046	46.453
6)	t	beta-BHC	2.407	2.742	186.6E6	138.5E6	45.278	43.410
7)	t	delta-BHC	2.545	3.018	419.5E6	298.9E6	49.819	46.603
8)	t	Heptachlor	2.719	3.086	415.2E6	294.2E6	45.982	43.968
9)	t	Aldrin	2.977	3.416	411.8E6	284.4E6	50.112	46.954
10)	t	Alachlor	3.104	3.293	61706226	43119608	44.585	42.957
11)	t	Chlorpyrifos	3.198	3.657	197.9E6	149.0E6	40.710	38.690
12)	t	Heptachlor E	3.555	4.048	385.9E6	269.7E6	48.142	44.635
13)	t	gamma-Chlord	3.683	4.269	397.6E6	281.6E6	53.858	51.538
14)	t	alpha-Chlord	3.823	4.432	387.5E6	272.9E6	46.388M3	44.462
15)	t	4,4'-DDE	3.919	4.619	377.9E6	265.1E6	49.426	47.225
16)	t	Endosulfan I	3.971	4.491	361.8E6	253.1E6	47.394	44.895
17)	t	Dieldrin	4.239	4.773	405.1E6	281.1E6	53.054	50.260
18)	t	Endrin	4.482	5.063	385.4E6	265.6E6	49.867	46.994
19)	t	4,4'-DDD	4.574	5.178	329.0E6	225.1E6	53.383	49.491
20)	t	Endosulfan I	4.707	5.257	352.4E6	237.3E6	48.984	45.529
21)	t	4,4'-DDT	4.849	5.449	318.4E6	209.3E6	44.007	39.710M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	5.105	5.547	235.2E6	158.9E6	39.916M3	36.117
23) t	Methoxychlor	5.308	6.004	170.7E6	109.6E6	41.134	41.536M4
24) t	Mirex	5.380	6.147	300.7E6	176.4E6	51.201	45.984M4
25) t	Endosulfan S	5.484	5.772	324.3E6	215.0E6	45.740	42.289M4
26) t	Endrin Keton	5.705	6.181	359.9E6	240.7E6	48.065	43.354
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

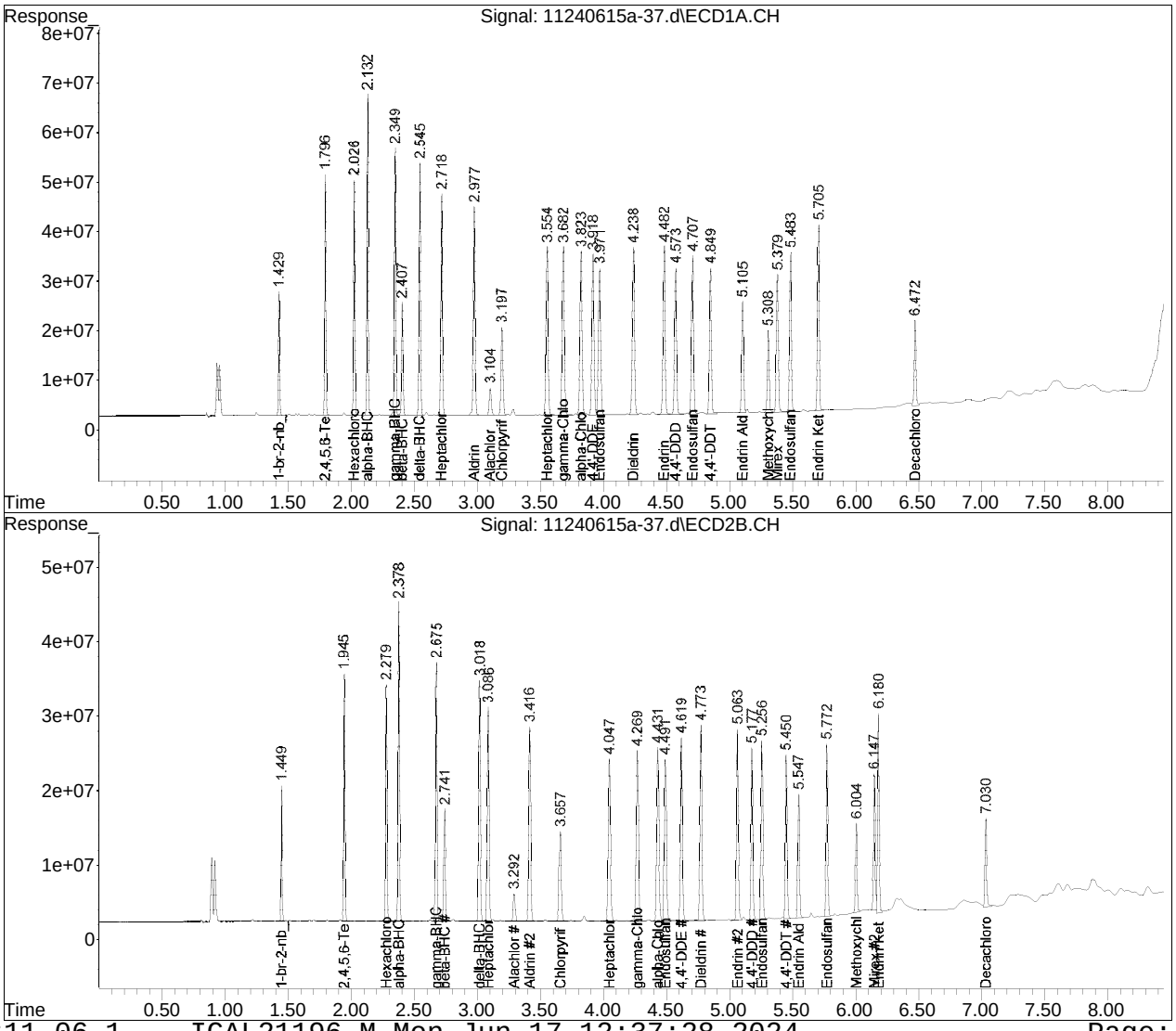
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 15:31
Operator : PEST11:jag
Sample : wg1934790-4,42,,pest11595 (Sig #1); L2432392-26,42,, (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 15:40:23 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

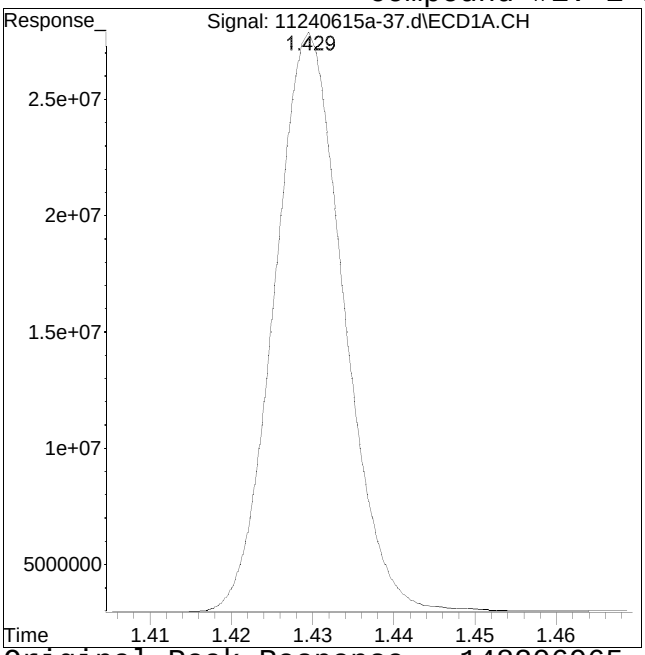
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

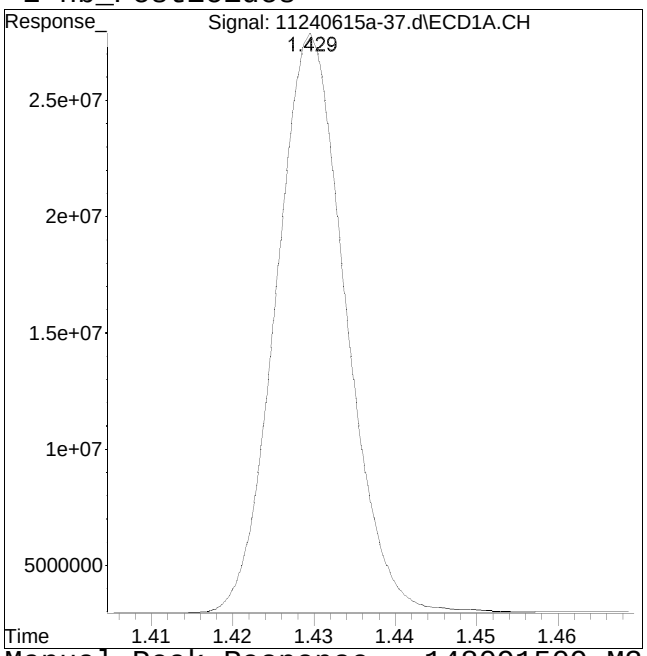


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #1: 1-br-2-nb_Pesticides



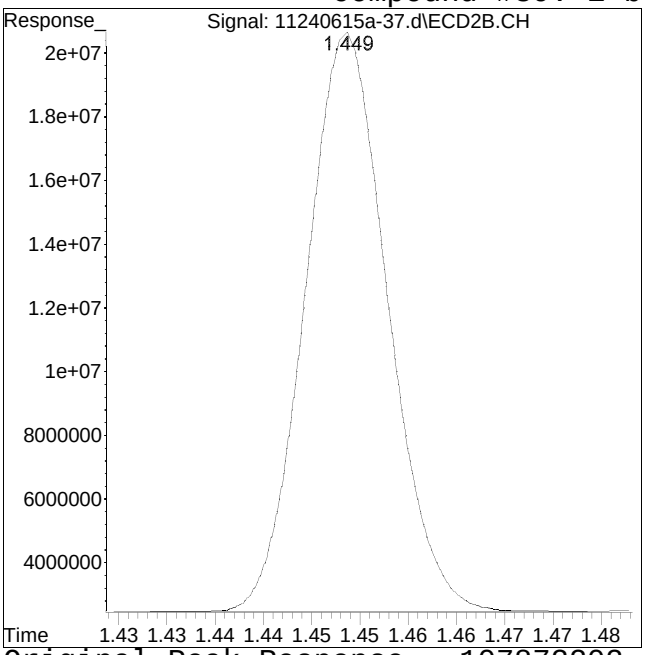


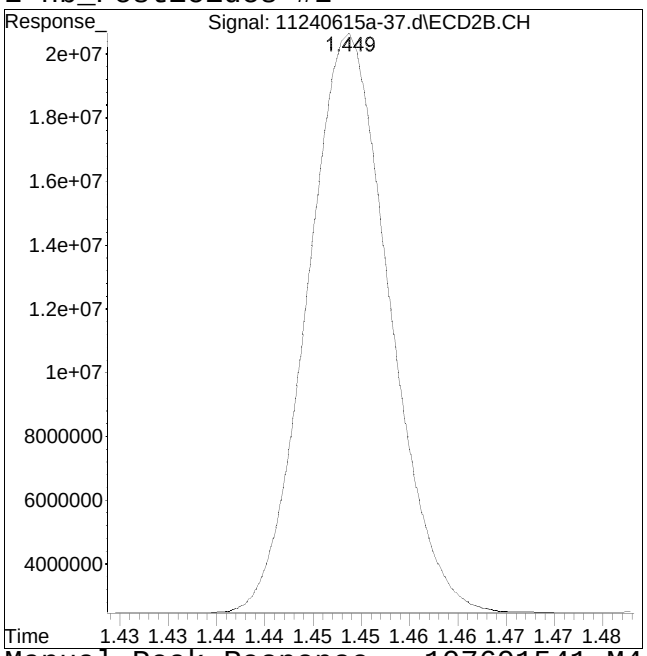
Original Peak Response = 148206965 Manual Peak Response = 148091509 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



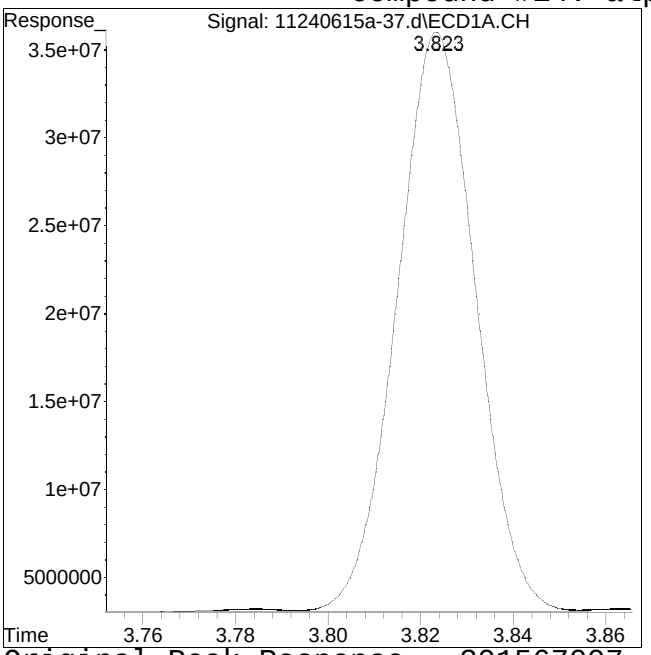


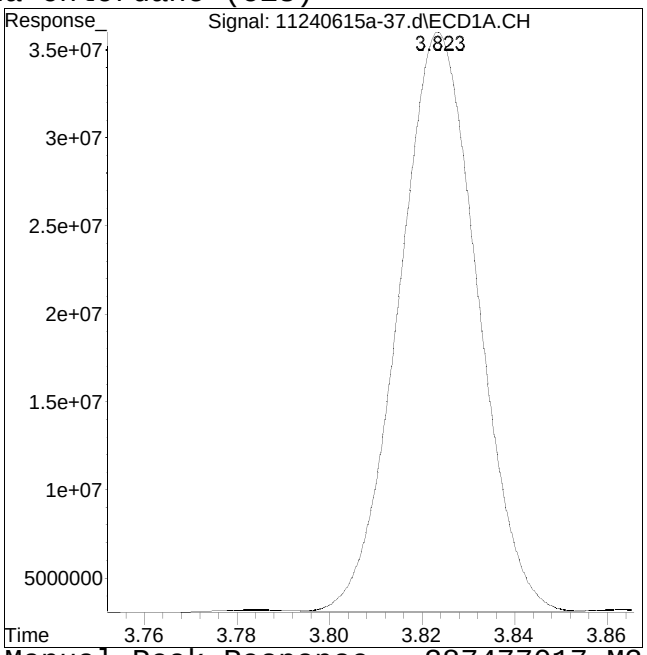
Original Peak Response = 107872202 Manual Peak Response = 107601541 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #14: alpha-Chlordane (cis)



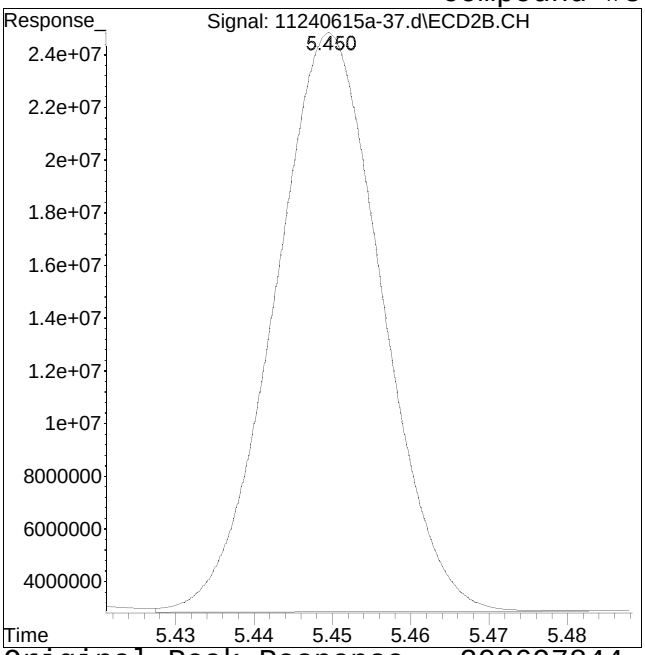


Original Peak Response = 391567007 Manual Peak Response = 387477017 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

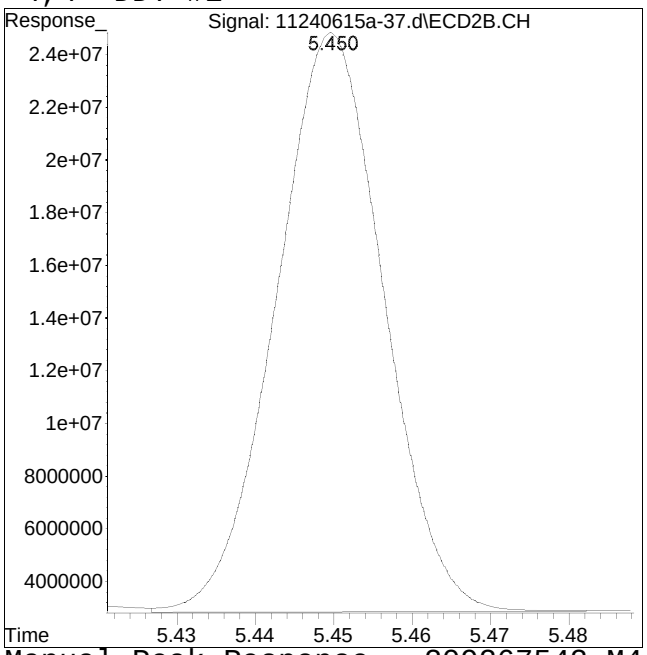
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 208697844



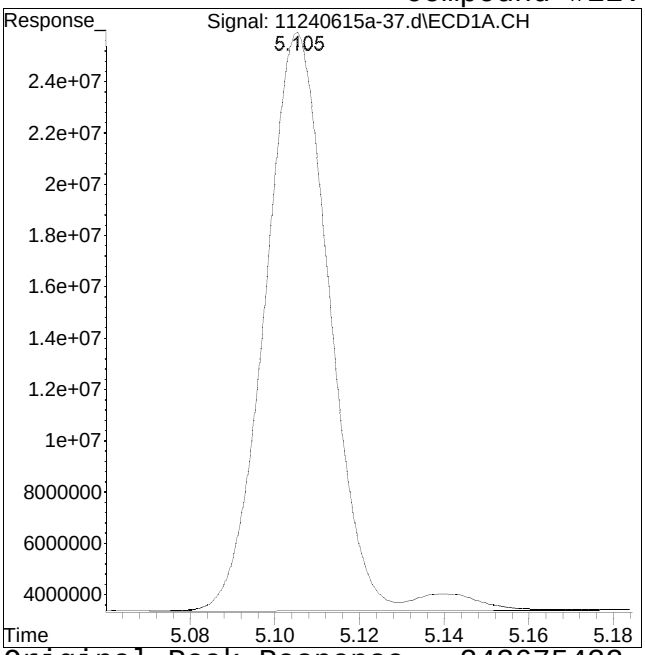
Manual Peak Response = 209267542 M4

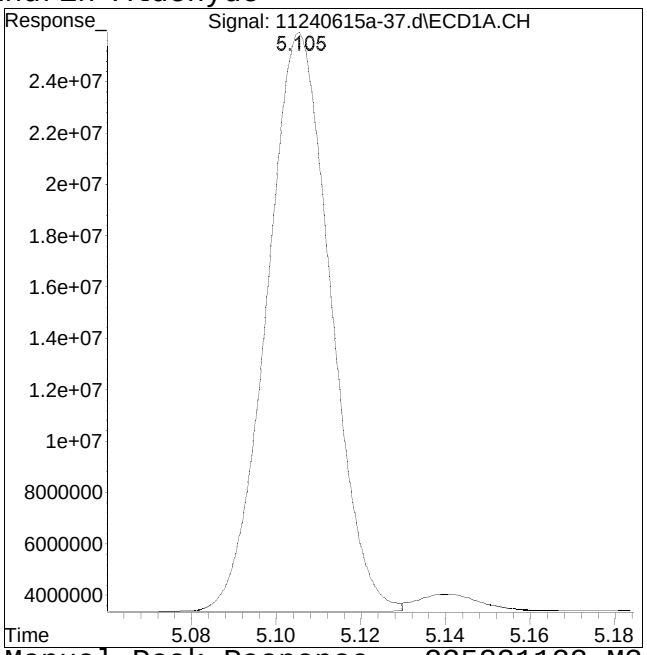
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #22: Endrin Aldehyde



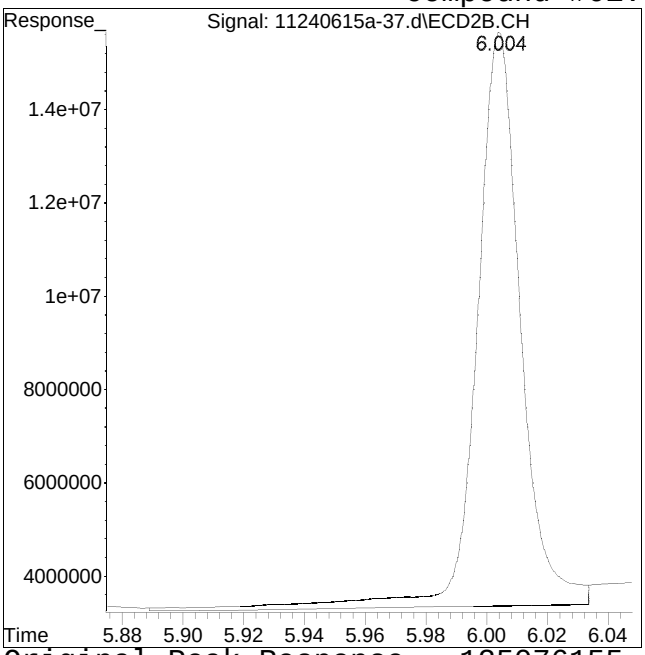


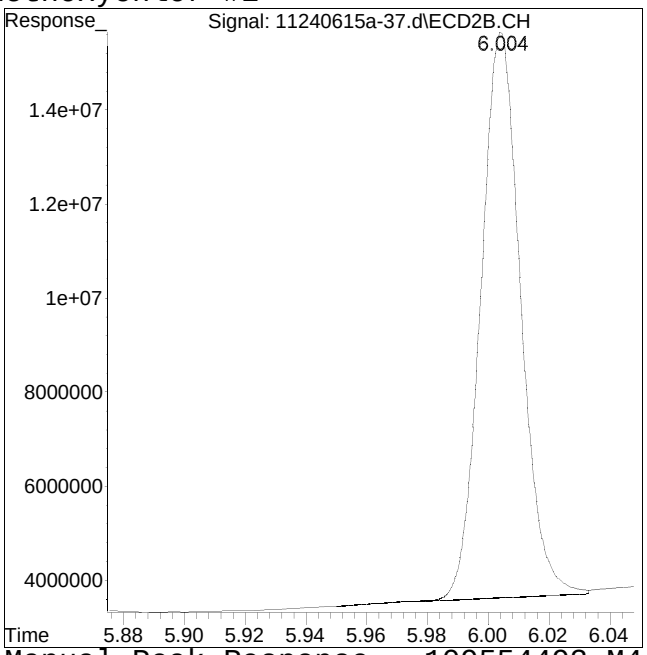
Original Peak Response = 243675432 Manual Peak Response = 235231122 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #61: Methoxychlor #2



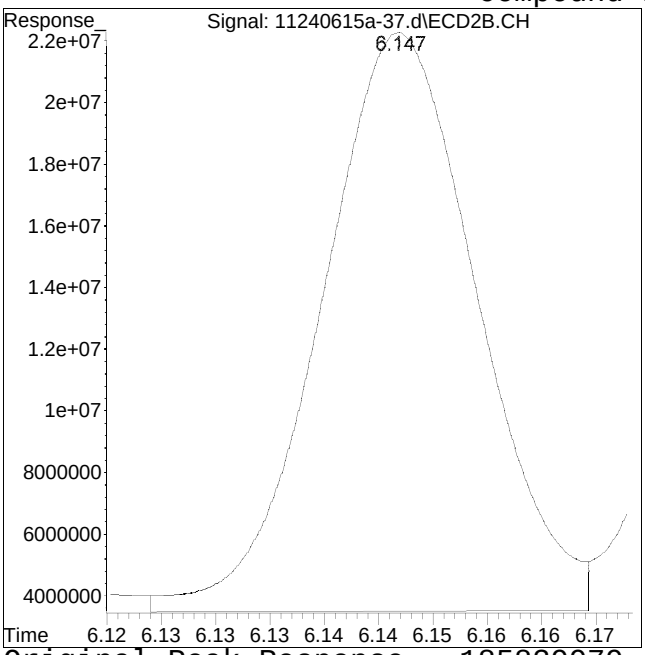


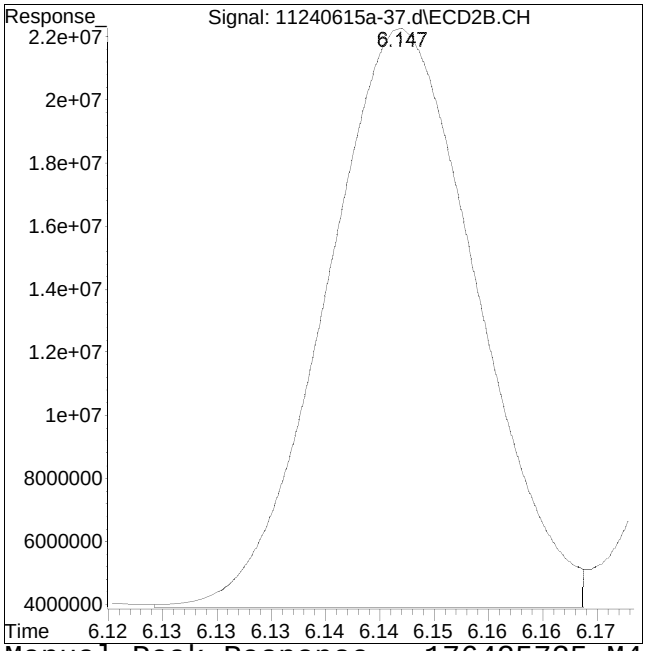
Original Peak Response = 125076155 Manual Peak Response = 109554493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #62: Mirex #2



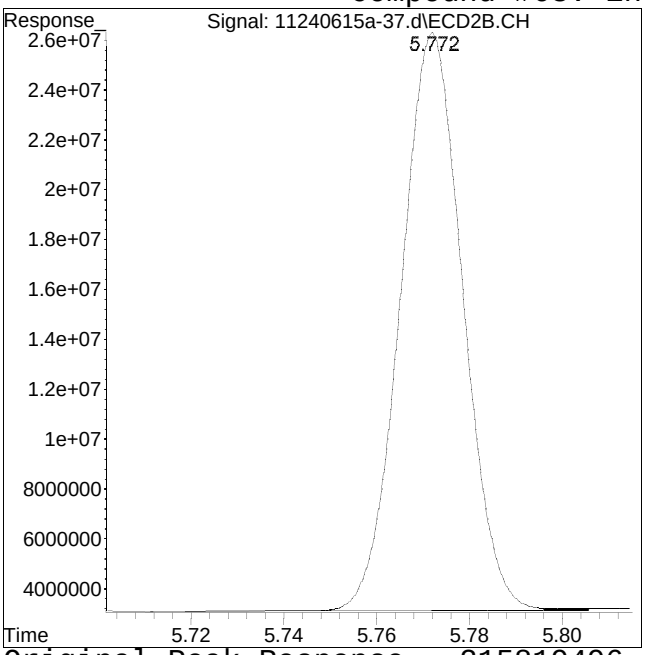


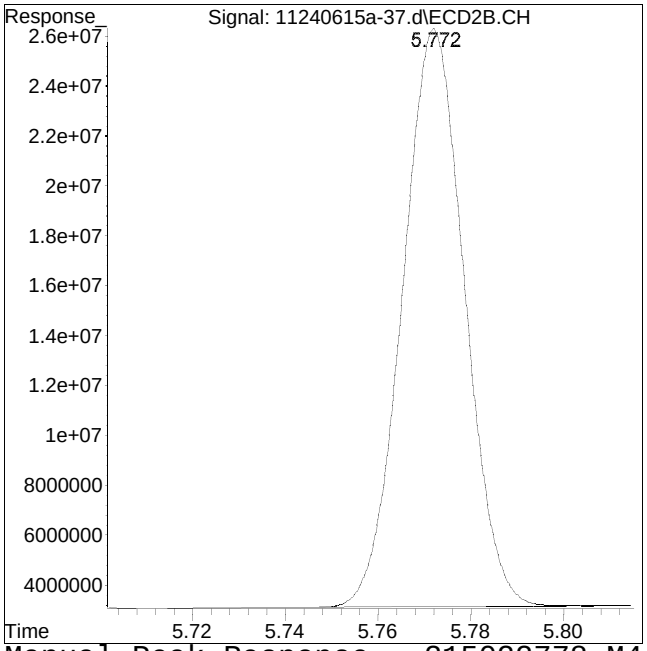
Original Peak Response = 185839979 Manual Peak Response = 176425735 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-37.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 15:31 Instrument : Pest 11
Sample : wg1934790-4,42,,pest11595 Quant Date : 6/15/2024 3:40 pm

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 215819496 Manual Peak Response = 215022778 M4
M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 06/15/24 07:46
PEM Standard	: R1841430-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	890354.96643	619025.87863
Endrin	434377478.82	313997971.68687
4,4'-DDD	1111452.38907	898363.7376
4,4'-DDT	818783104.2152	566035431.1232
Endrin Aldehyde	959455.6019	616451.04
Endrin Ketone	1929268.10887	1702815.46289

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.661	0.733
DDT	0.244	0.267

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:46
Operator : PEST11:peg
Sample : pem11240615a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:36:07 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.427	1.446	169.2E6	128.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.917	4.616	890355	619026	0.102M2	0.092M4
18) t	Endrin	4.479	5.060	434.4E6	314.0E6	49.182M4	46.534M4
19) t	4,4'-DDD	4.570	5.175	1111452	898364	0.158M4	0.165M4
21) t	4,4'-DDT	4.848	5.447	818.8E6	566.0E6	99.045M4	89.962M4
22) t	Endrin Aldeh	5.104	5.545	959456	616451	0.142M2	0.117M4
26) t	Endrin Keton	5.703	6.178	1929268	1702815	0.225M4	0.257M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:46
Operator : PEST11:peg
Sample : pem11240615a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:36:07 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

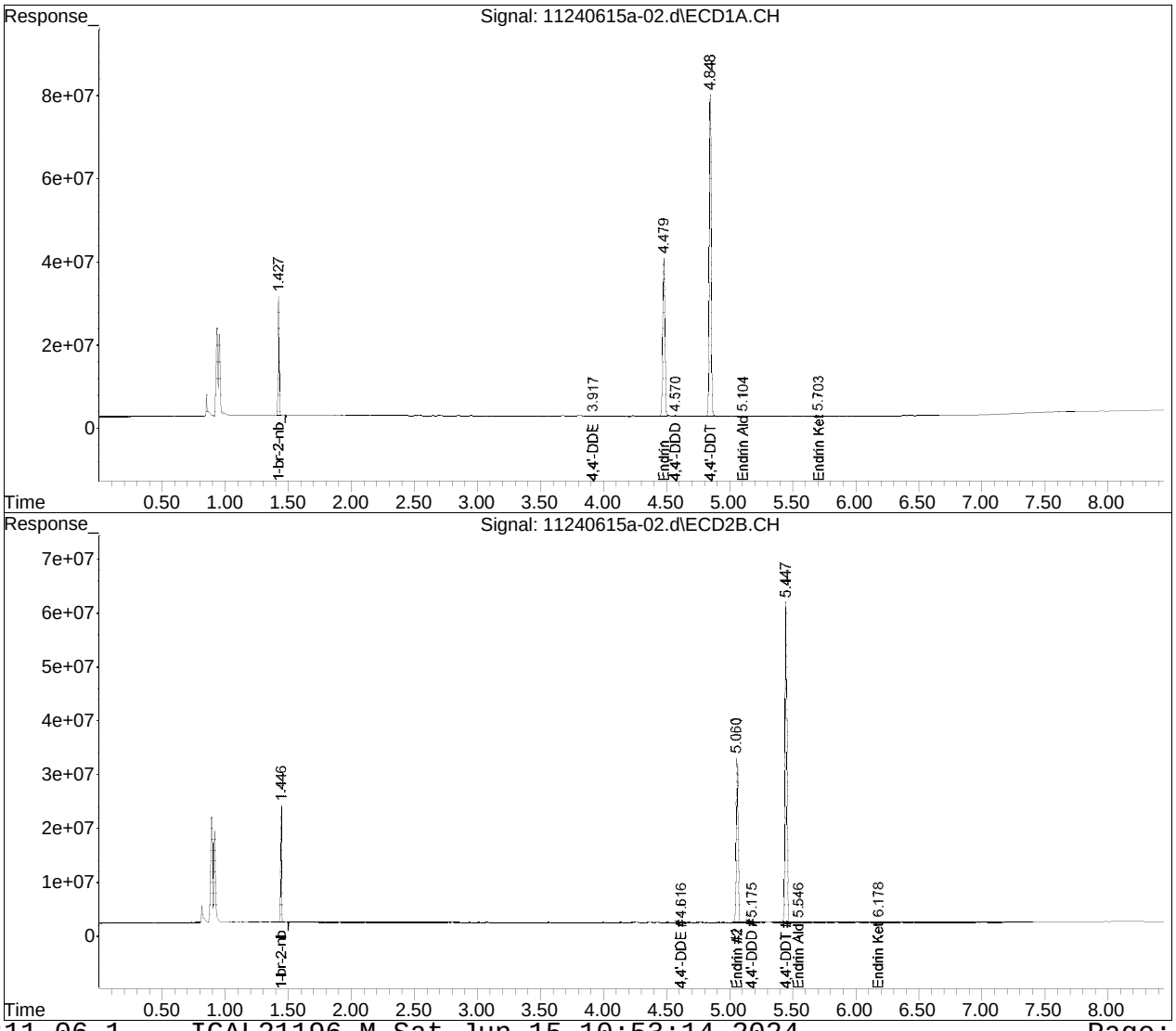
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 7:46
Operator : PEST11:peg
Sample : pem11240615a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1934790,,ical21196
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 08:36:07 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

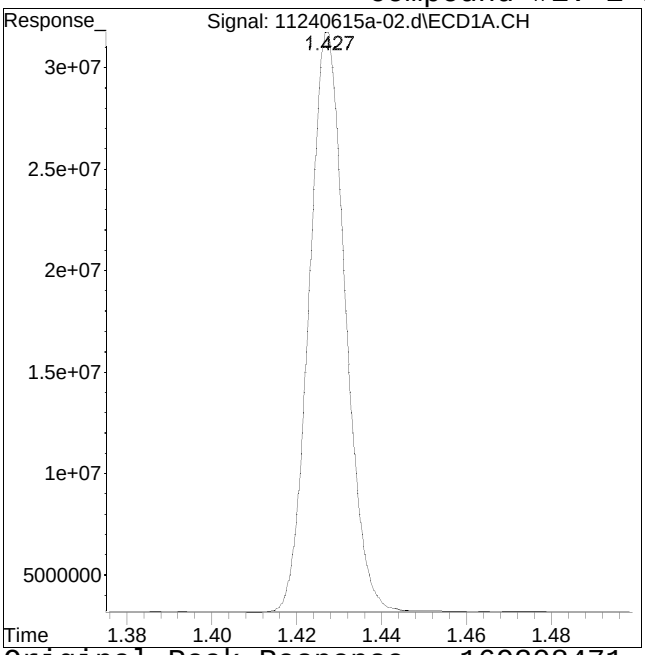
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



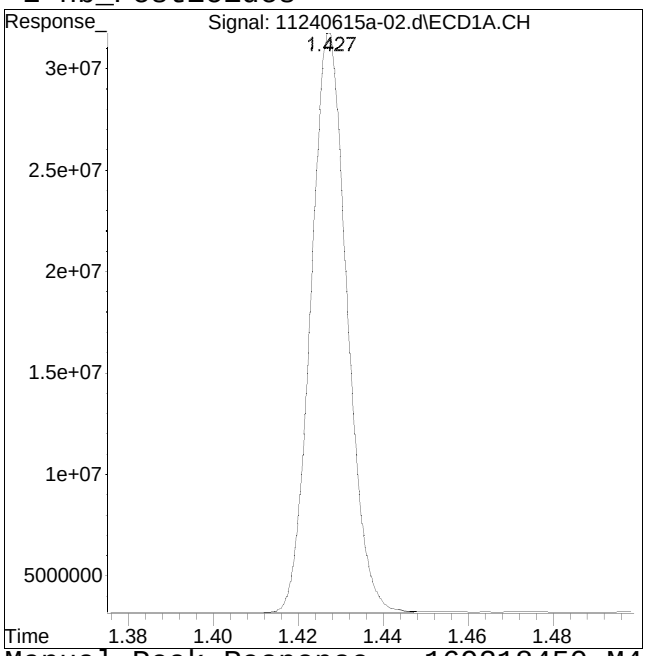
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 169308471



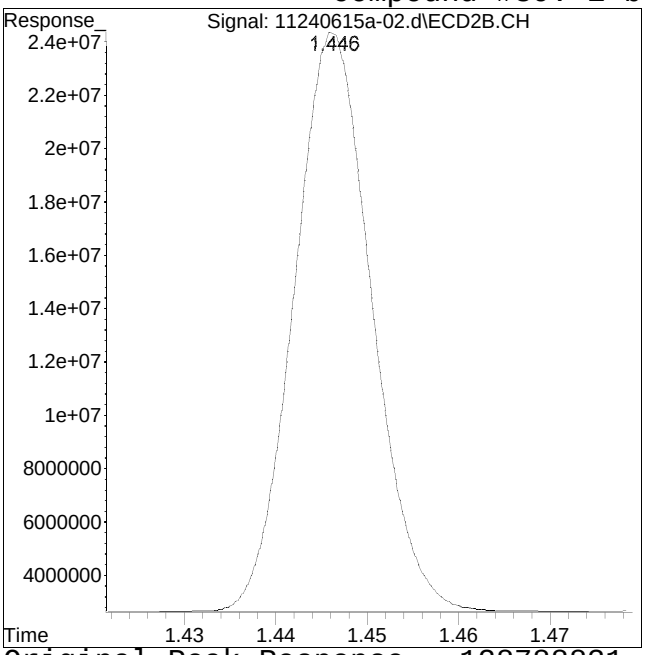
Manual Peak Response = 169218450 M4

M4 = Poor automated baseline construction.

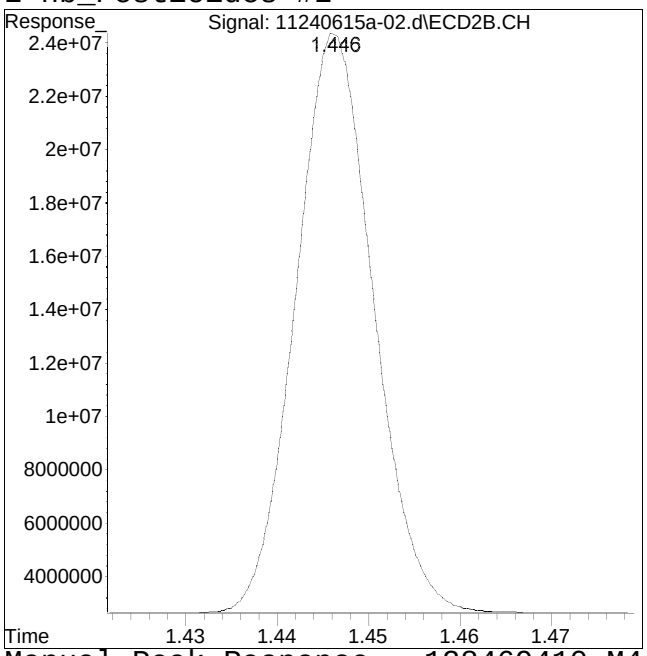
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 128788831



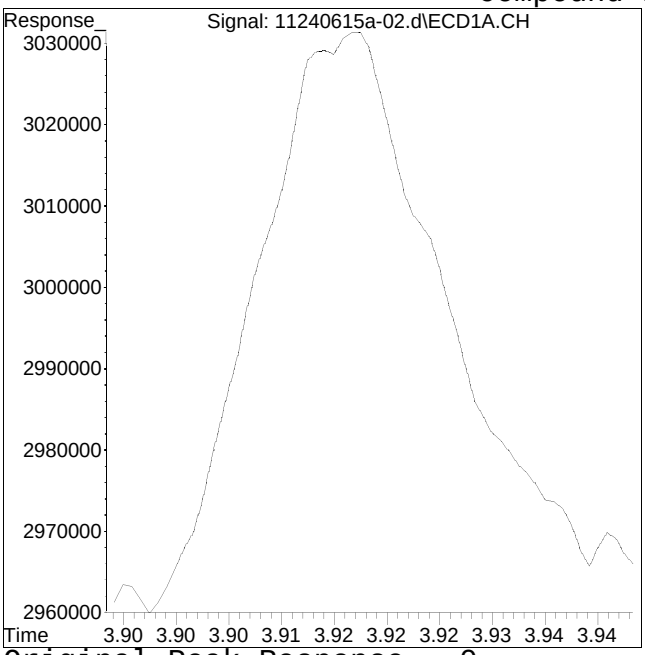
Manual Peak Response = 128469410 M4

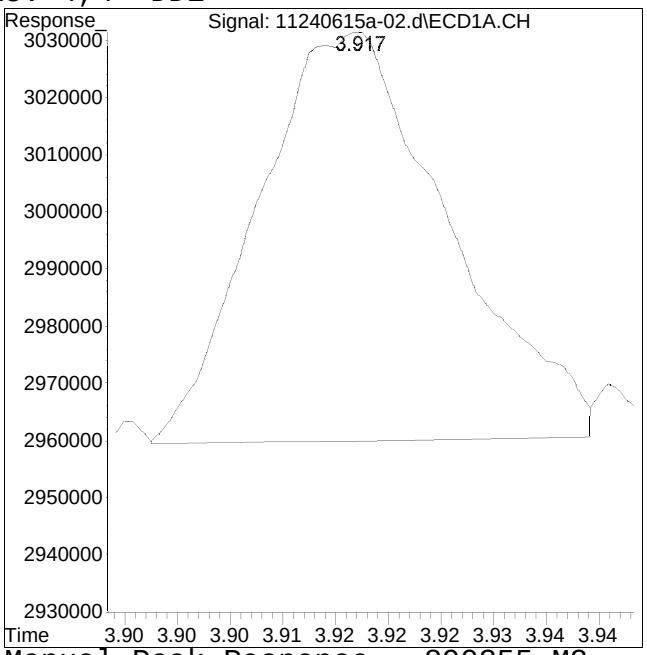
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615Q
Data File : 11240615a-02.d
Date Inj'd : 6/15/2024 7:46
Sample : pem11240615a-01,42,,deg115
Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 6/15/2024 8:36 am

Compound #15: 4,4'-DDE



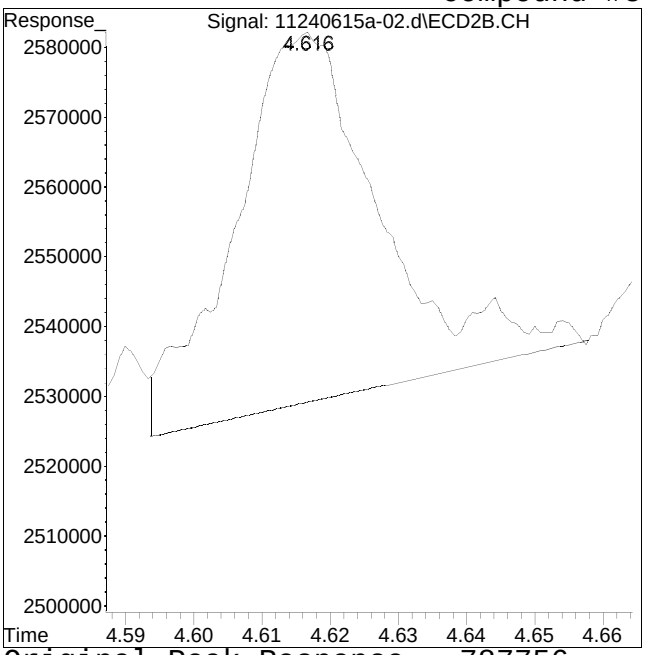


Original Peak Response = 0
Manual Peak Response = 890355 M2
M2 = Peak not found by automatic integration algorithm.

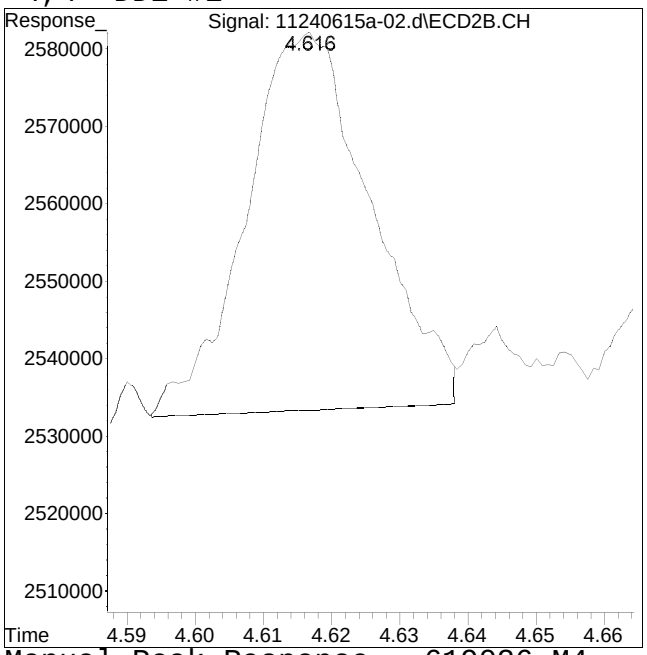
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 787756



Manual Peak Response = 619026 M4

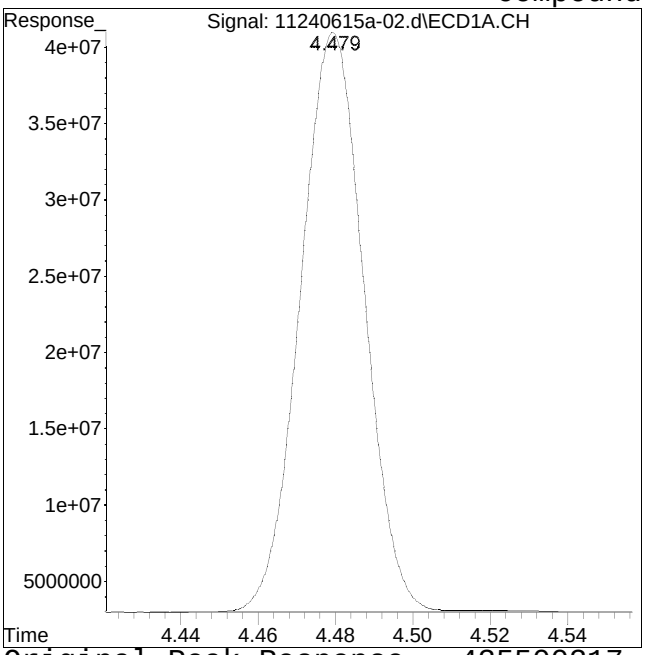
M4 = Poor automated baseline construction.

Manual Integration Report

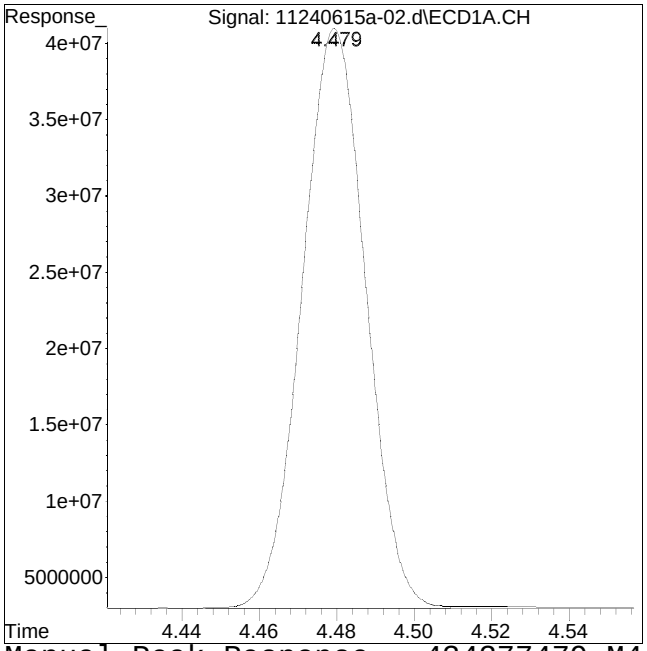
Data Path : I:\PEST\Pest11\2024\240615Q
Data File : 11240615a-02.d
Date Inj'd : 6/15/2024 7:46
Sample : pem11240615a-01,42,,deg115

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 6/15/2024 8:36 am

Compound #18: Endrin



Original Peak Response = 435500317



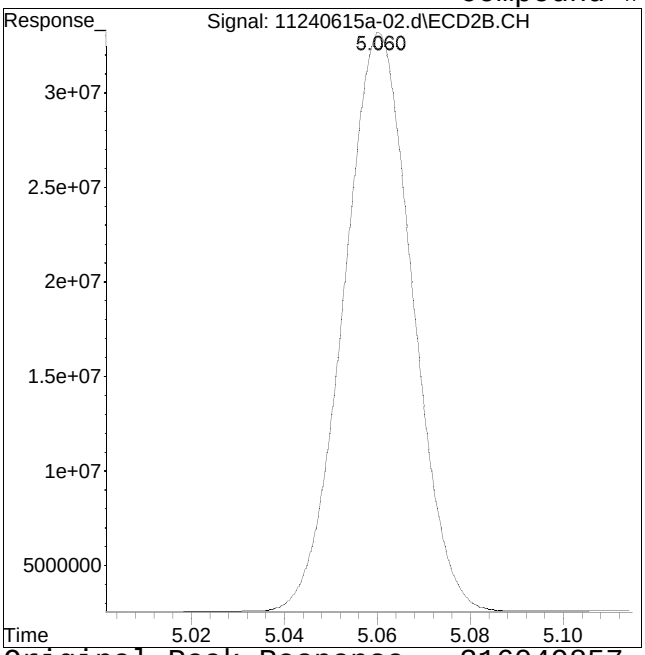
Manual Peak Response = 434377479 M4

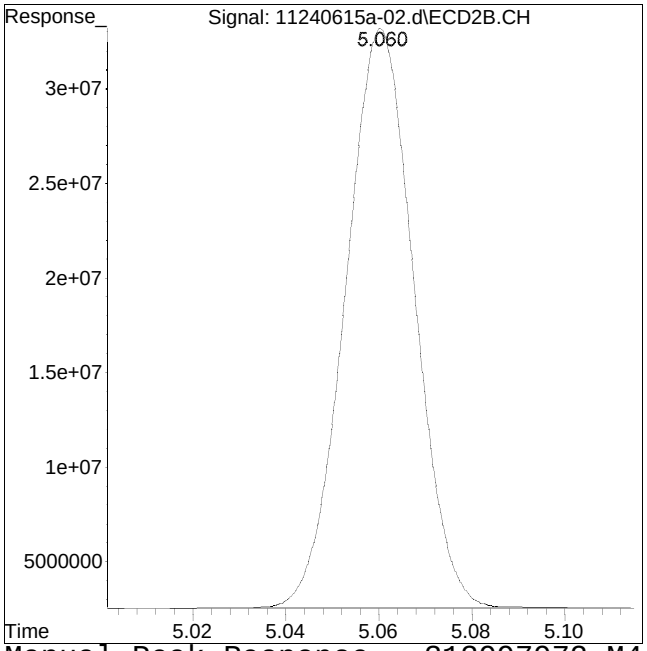
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #56: Endrin #2



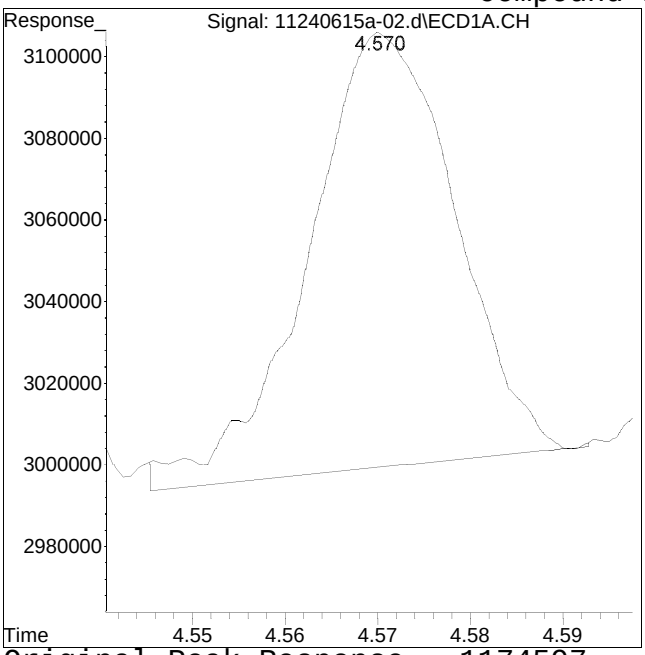


Original Peak Response = 316049857 Manual Peak Response = 313997972 M4
M4 = Poor automated baseline construction.

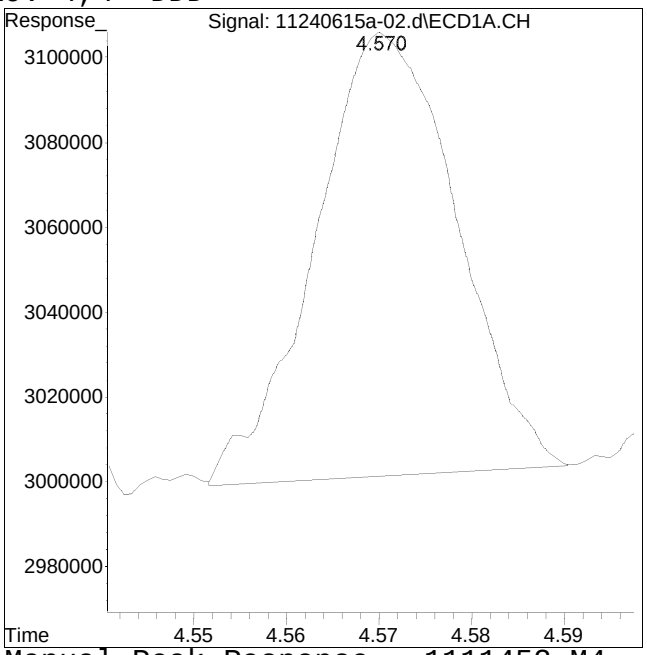
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #19: 4,4'-DDD



Original Peak Response = 1174597



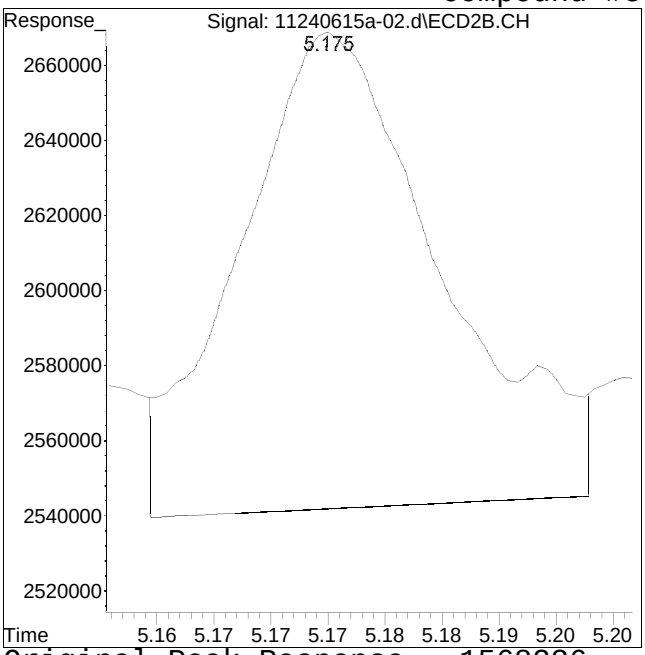
Manual Peak Response = 1111452 M4

M4 = Poor automated baseline construction.

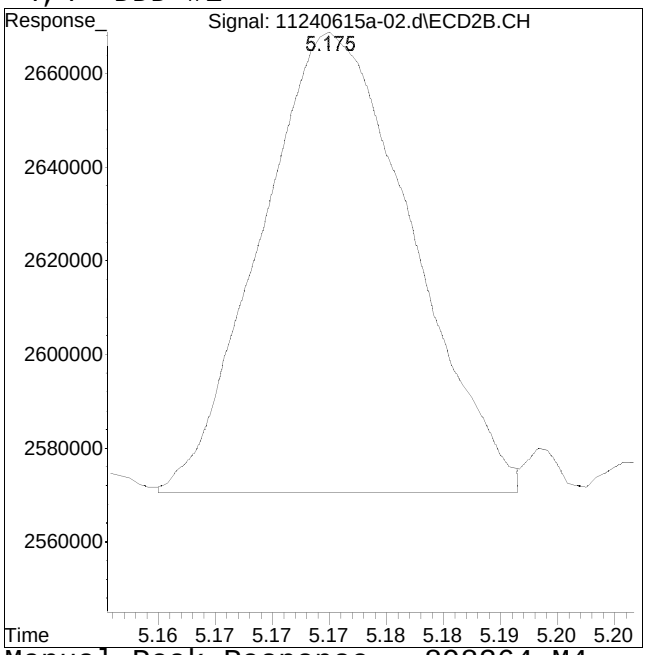
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 1568236



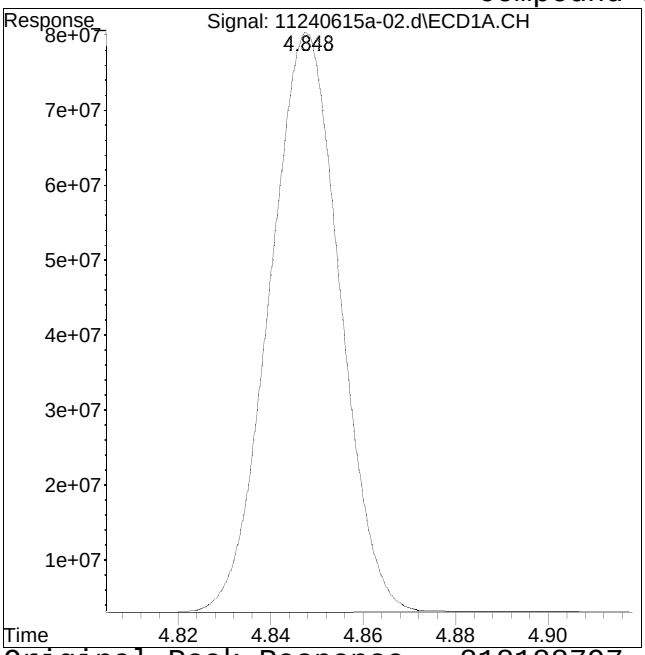
Manual Peak Response = 898364 M4

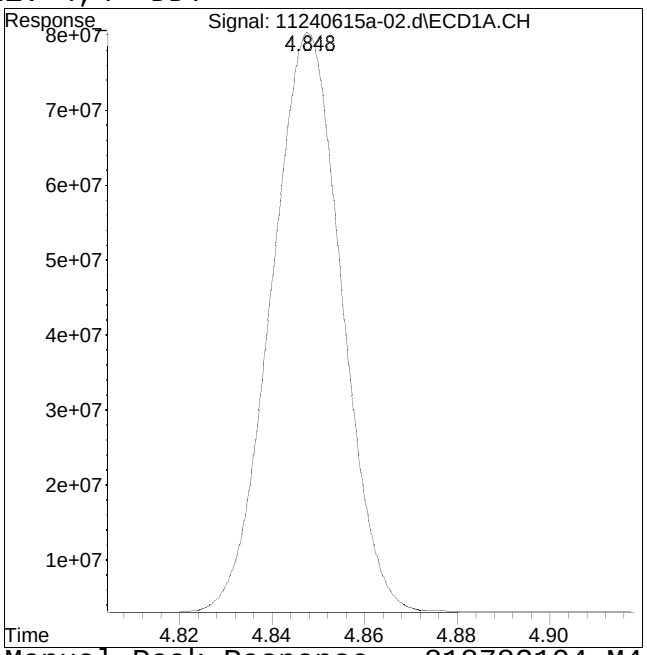
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #21: 4,4'-DDT



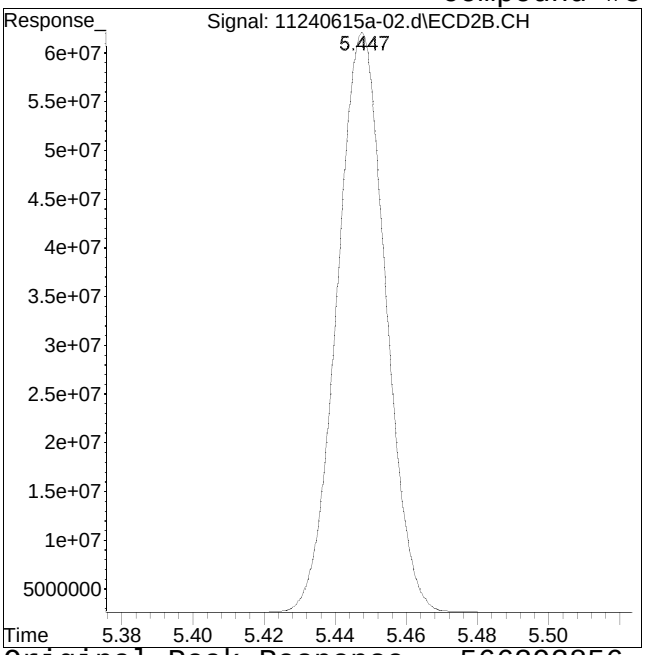


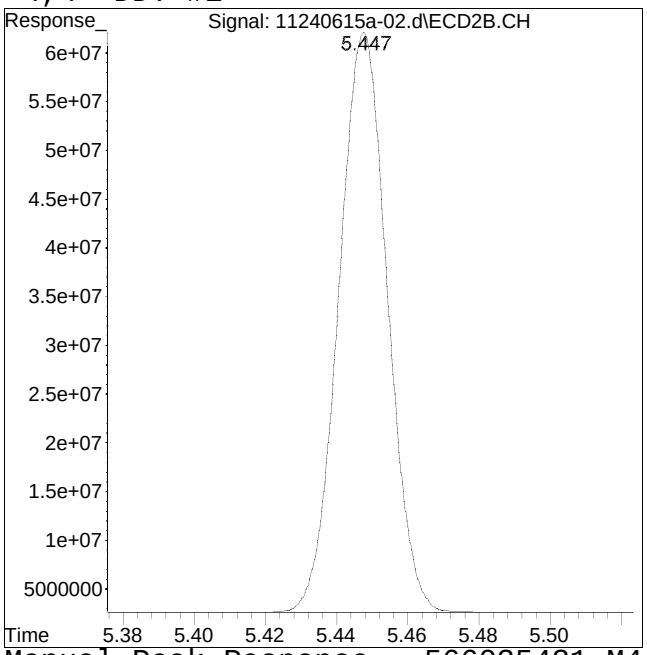
Original Peak Response = 818188797 Manual Peak Response = 818783104 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #59: 4,4'-DDT #2





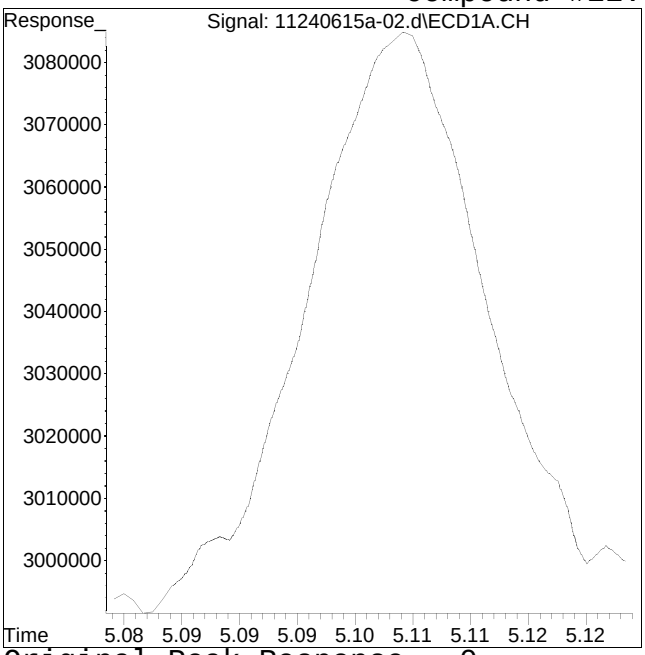
Original Peak Response = 566393856 Manual Peak Response = 566035431 M4
M4 = Poor automated baseline construction.

Manual Integration Report

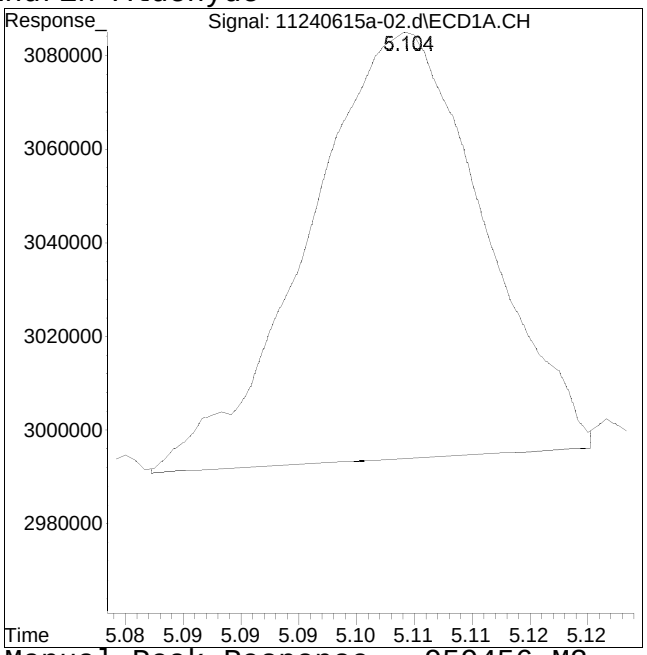
Data Path : I:\PEST\Pest11\2024\240615Q
Data File : 11240615a-02.d
Date Inj'd : 6/15/2024 7:46
Sample : pem11240615a-01,42,,deg115

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:peg
Instrument : Pest 11
Quant Date : 6/15/2024 8:36 am

Compound #22: Endrin Aldehyde



Original Peak Response = 0



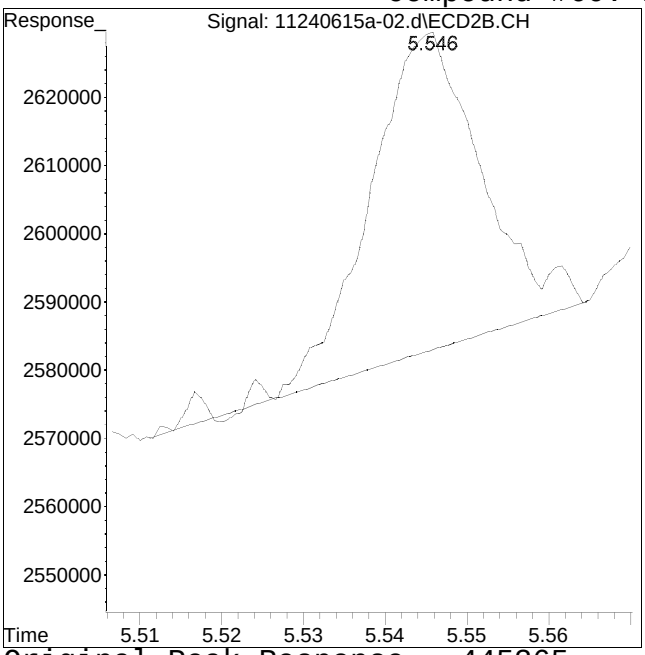
Manual Peak Response = 959456 M2

M2 = Peak not found by automatic integration algorithm.

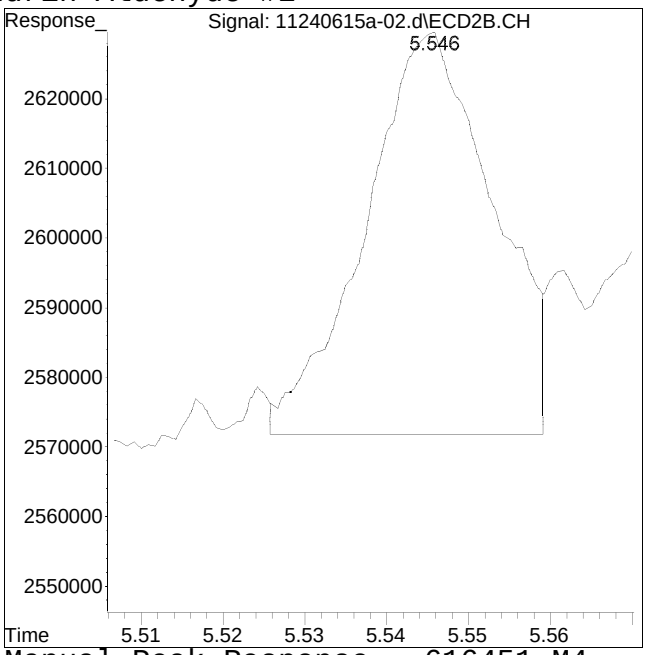
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 445365



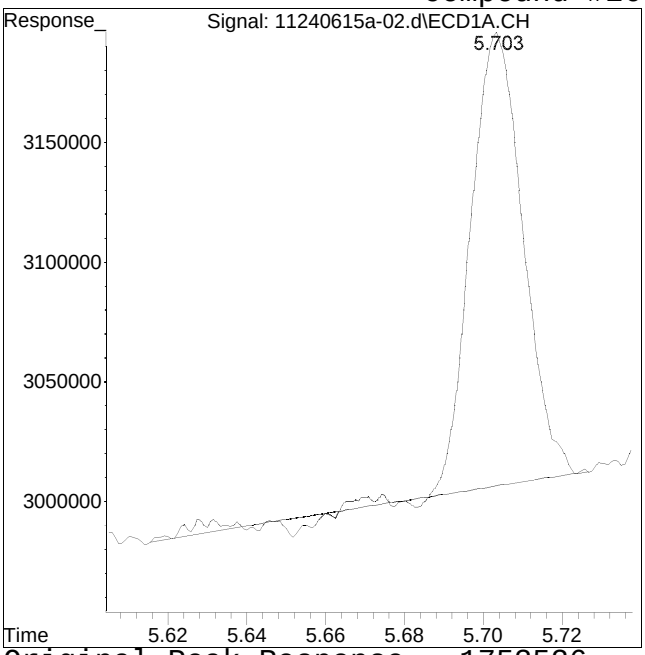
Manual Peak Response = 616451 M4

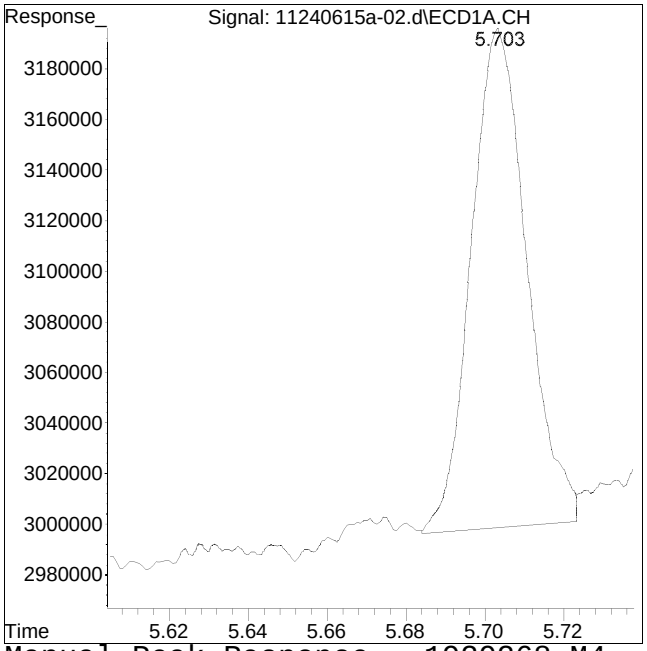
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #26: Endrin Ketone



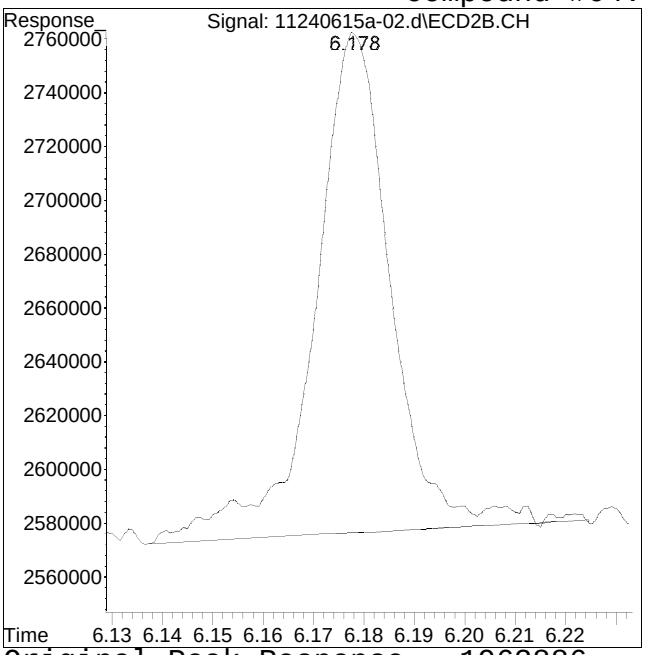


Original Peak Response = 1753526 Manual Peak Response = 1929268 M4
M4 = Poor automated baseline construction.

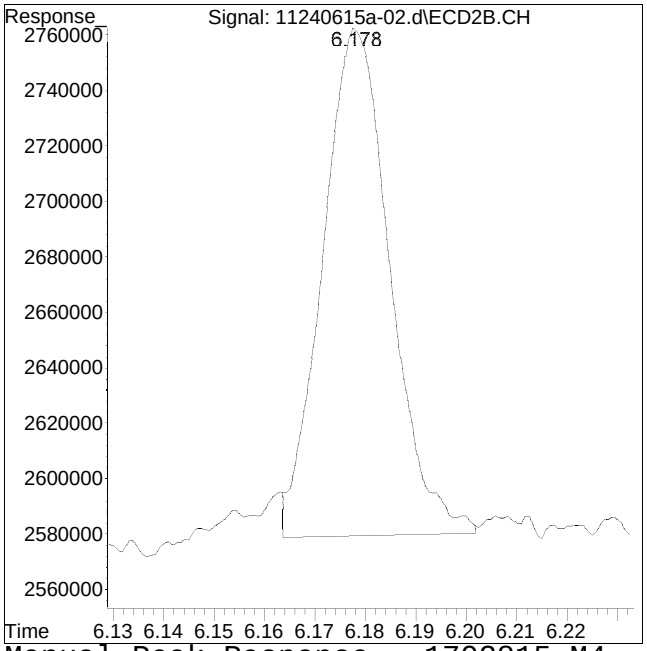
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-02.d Operator : PEST11:peg
Date Inj'd : 6/15/2024 7:46 Instrument : Pest 11
Sample : pem11240615a-01,42,,deg115Quant Date : 6/15/2024 8:36 am

Compound #64: Endrin Ketone #2



Original Peak Response = 1963886



Manual Peak Response = 1702815 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2432633**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 12:44
Operator : PEST11:jag
Sample : WG1934673-1,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:10:59 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.429	1.448	154.2E6	112.1E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 164882076				Recovery =	93.50%	
	Standard Area 1 : #2 = 128250551				Recovery =	87.39%	
28) i	1-br-2-nb_Ch	1.429	1.448	154.2E6	112.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.429	1.448	154.2E6	112.1E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.796	1.945	244.2E6	183.2E6	35.572M4	34.898M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	71.14%	69.80%
27) s	Decachlorobi	6.472	7.031	233.1E6	158.8E6	34.953M4	39.350M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	69.91%	78.70%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 12:44
Operator : PEST11:jag
Sample : WG1934673-1,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:10:59 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

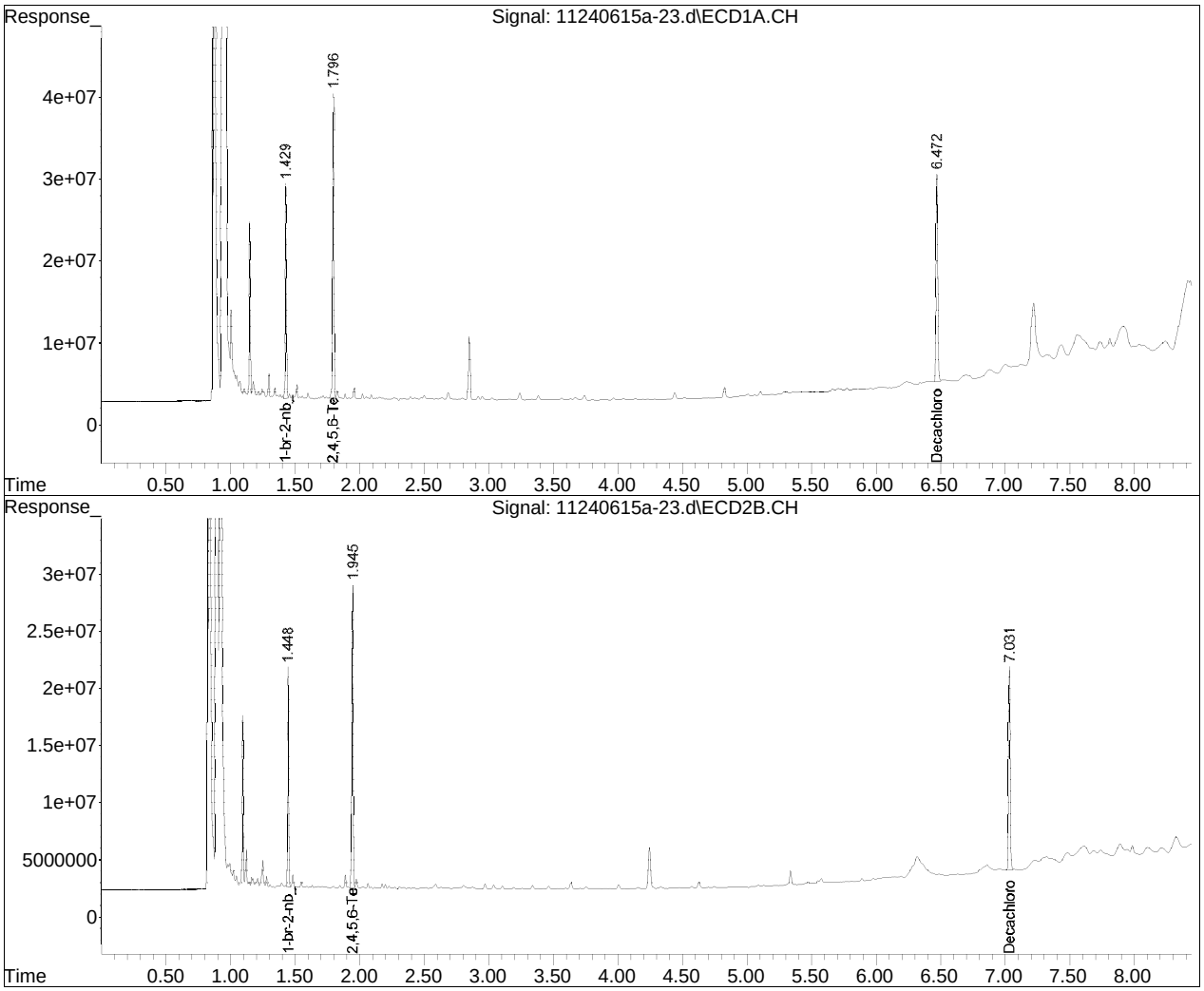
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240615a-03.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 12:44
Operator : PEST11:jag
Sample : WG1934673-1,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:10:59 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

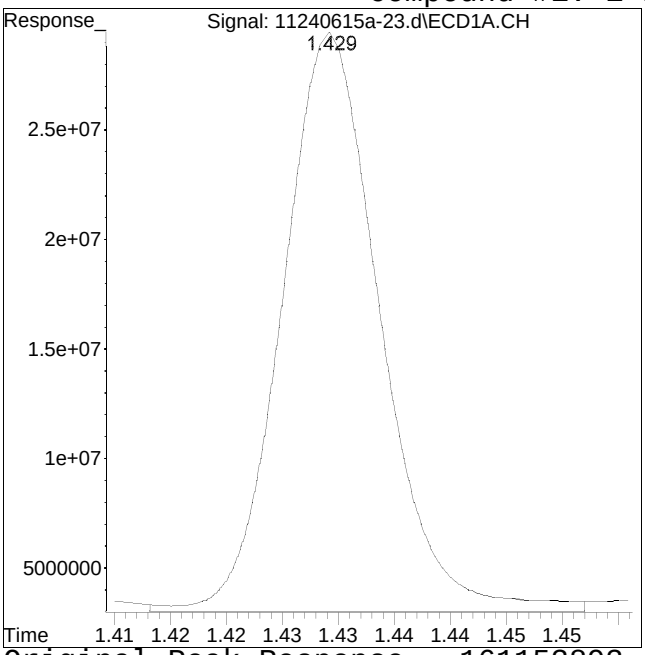
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



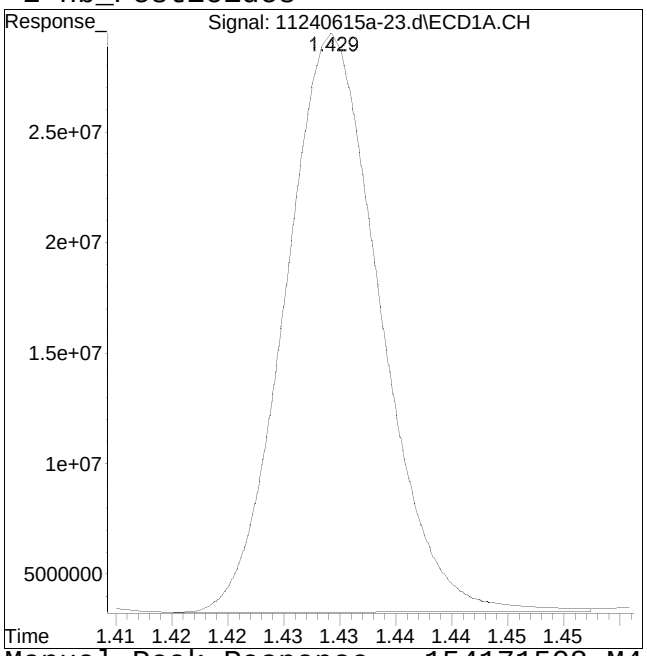
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 161153893



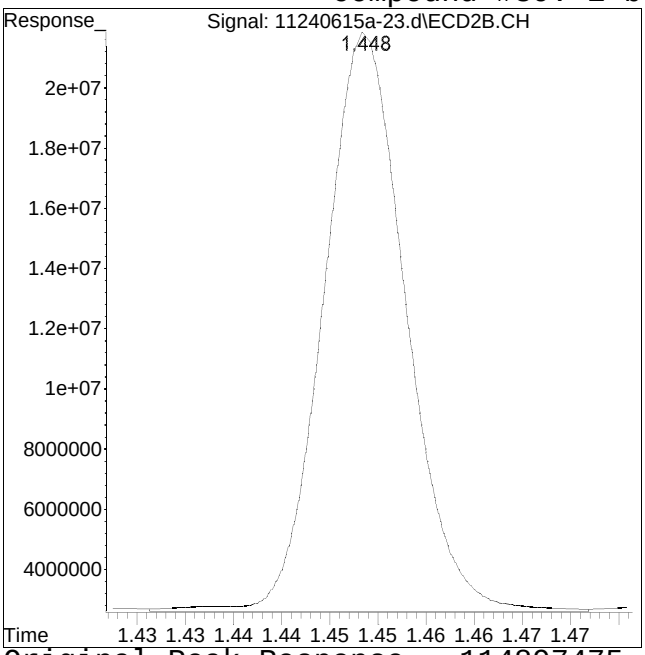
Manual Peak Response = 154171508 M4

M4 = Poor automated baseline construction.

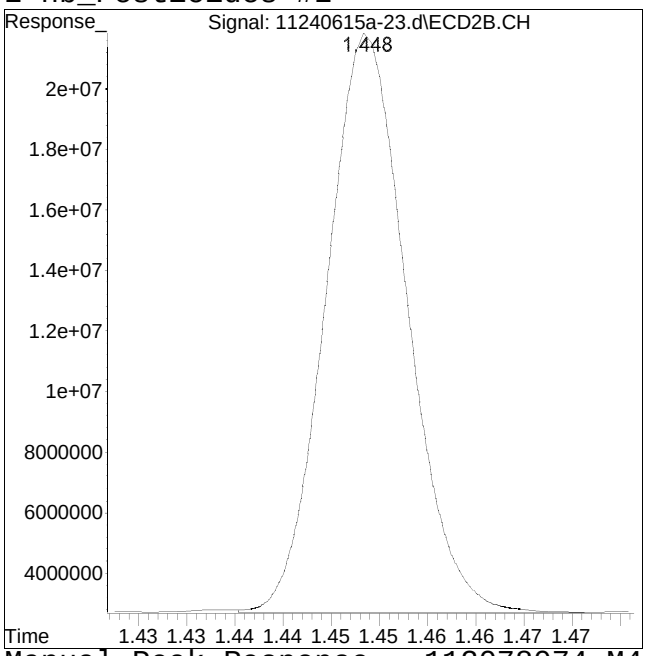
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 114897475



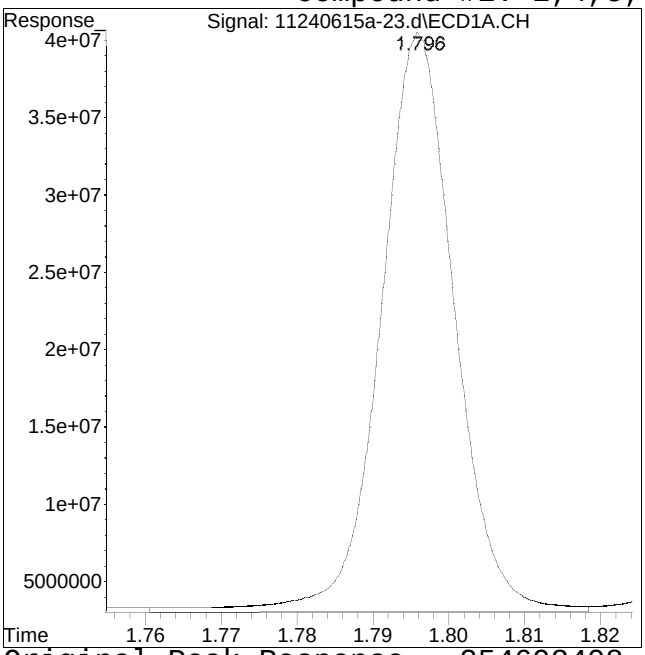
Manual Peak Response = 112078074 M4

M4 = Poor automated baseline construction.

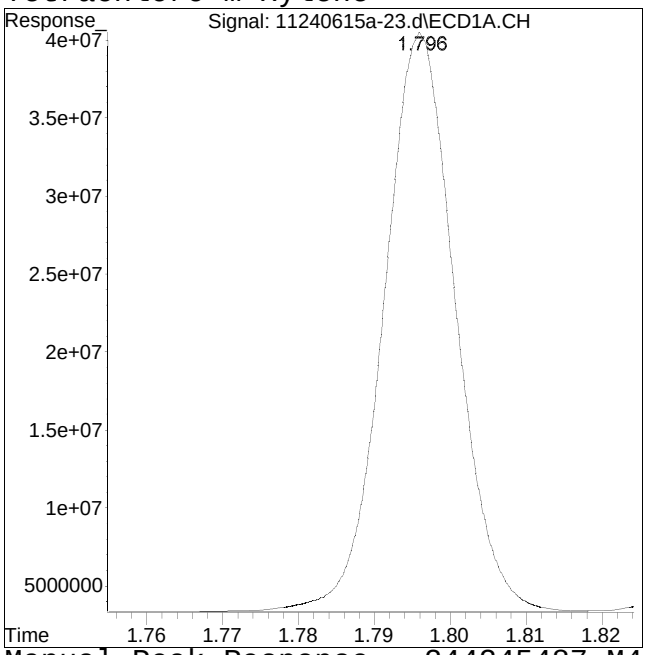
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 254692408



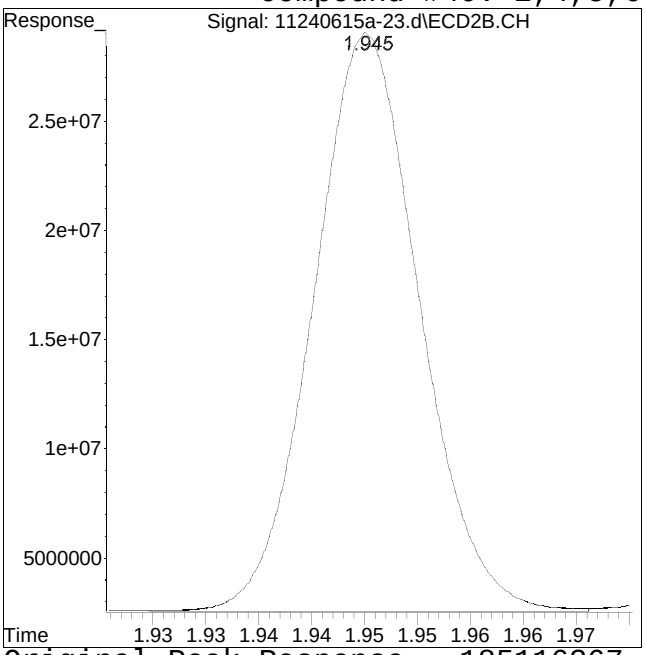
Manual Peak Response = 244245487 M4

M4 = Poor automated baseline construction.

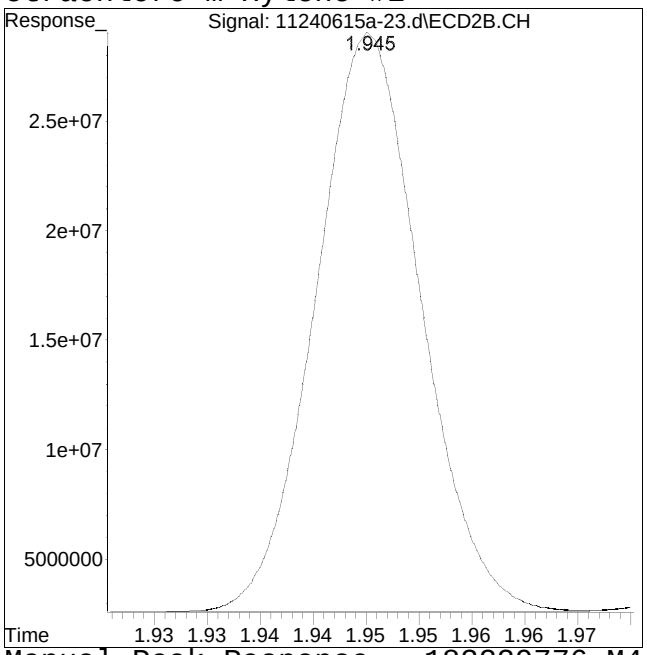
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 185116367



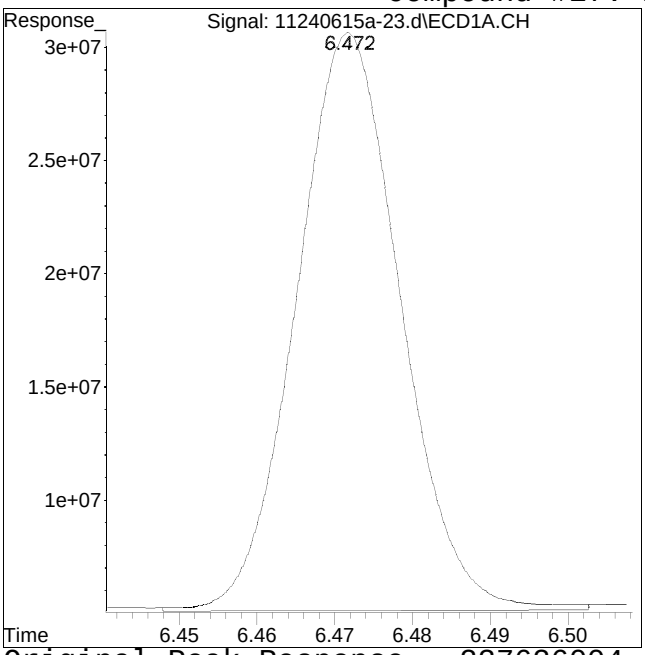
Manual Peak Response = 183229776 M4

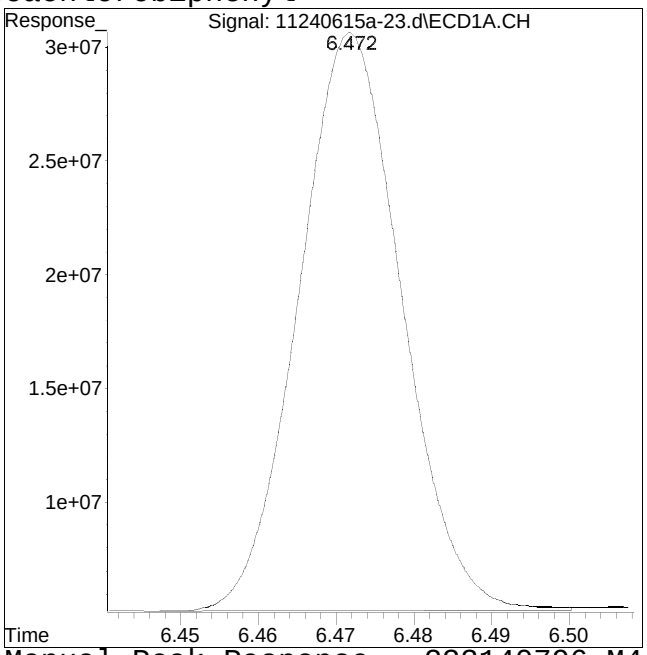
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #27: Decachlorobiphenyl



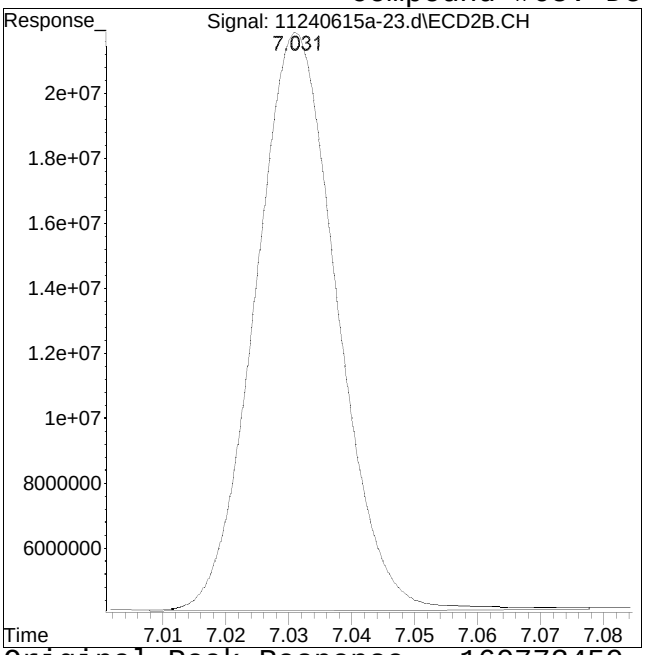


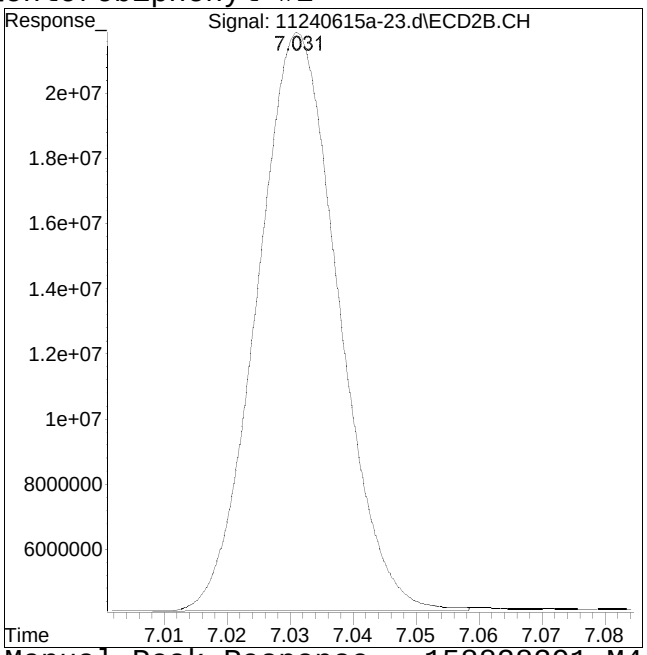
Original Peak Response = 237626004 Manual Peak Response = 233140796 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #65: Decachlorobiphenyl #2



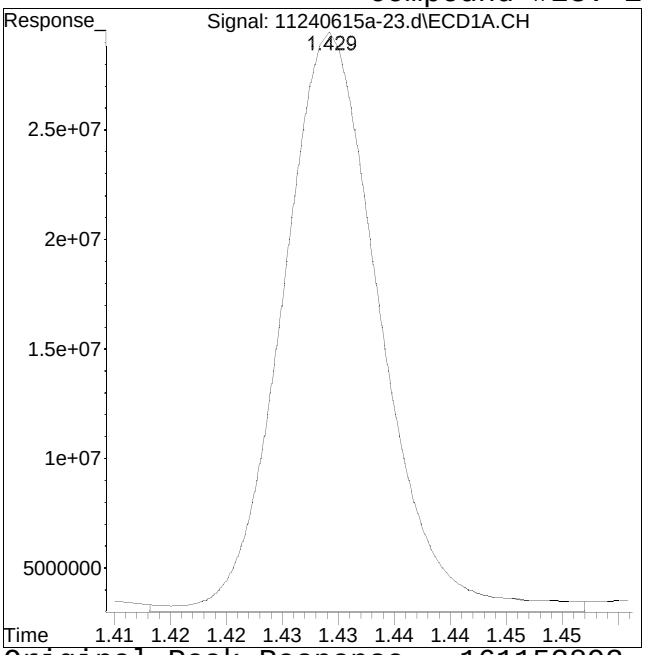


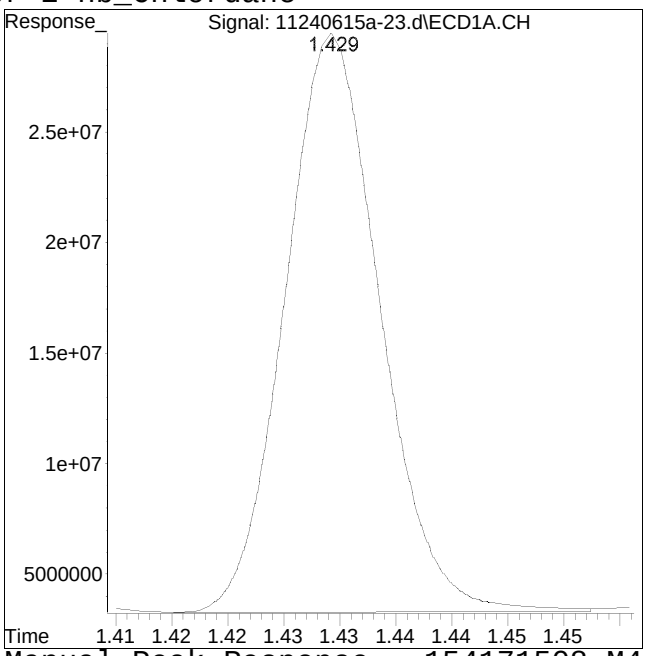
Original Peak Response = 160773450 Manual Peak Response = 158828391 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #28: 1-br-2-nb_Chlordane



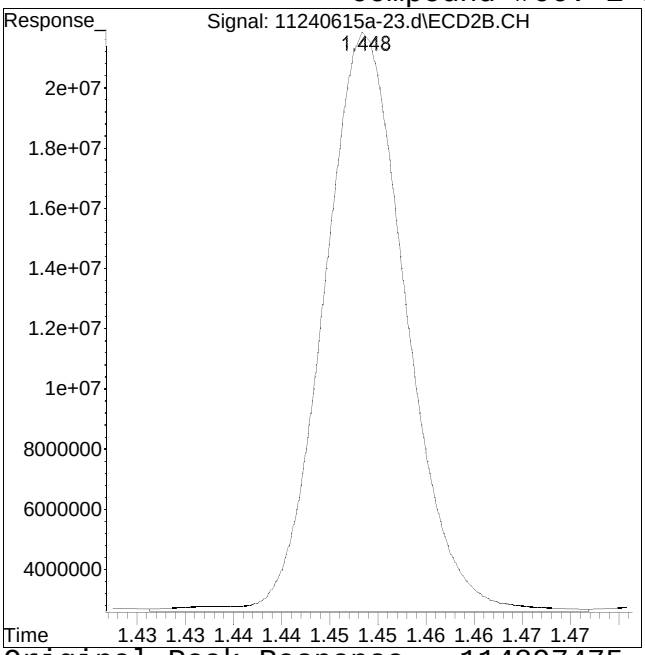


Original Peak Response = 161153893 Manual Peak Response = 154171508 M4
M4 = Poor automated baseline construction.

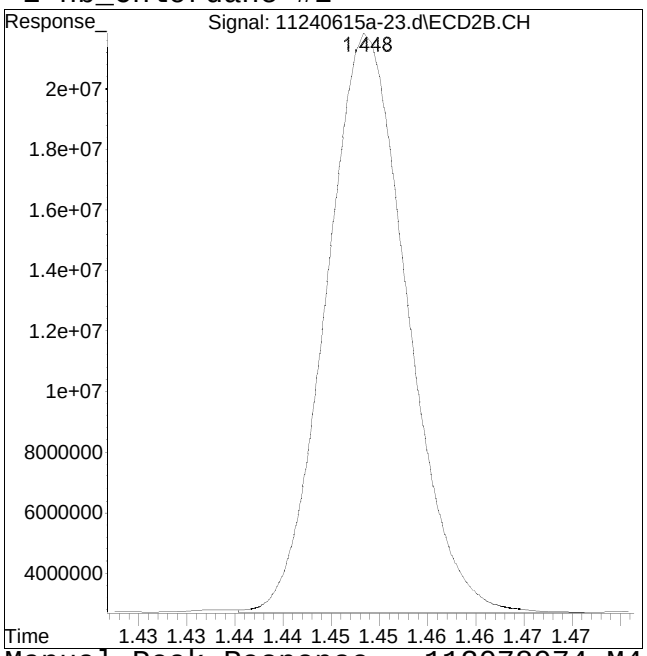
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 114897475



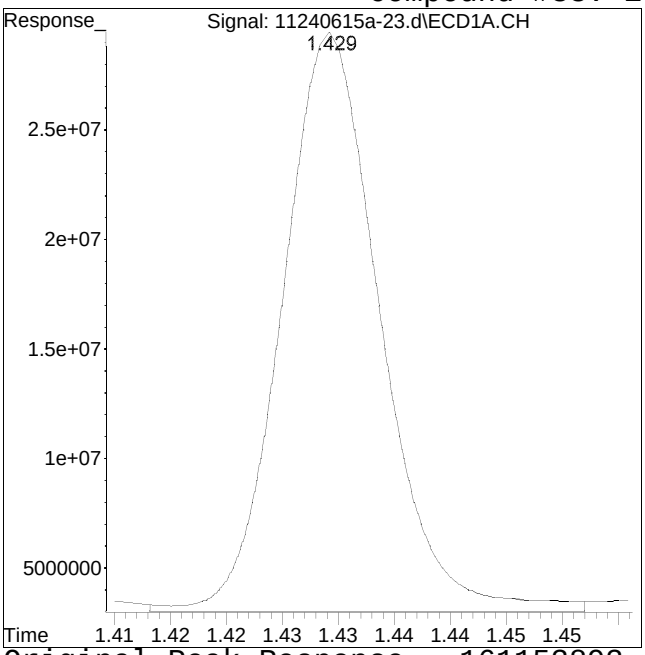
Manual Peak Response = 112078074 M4

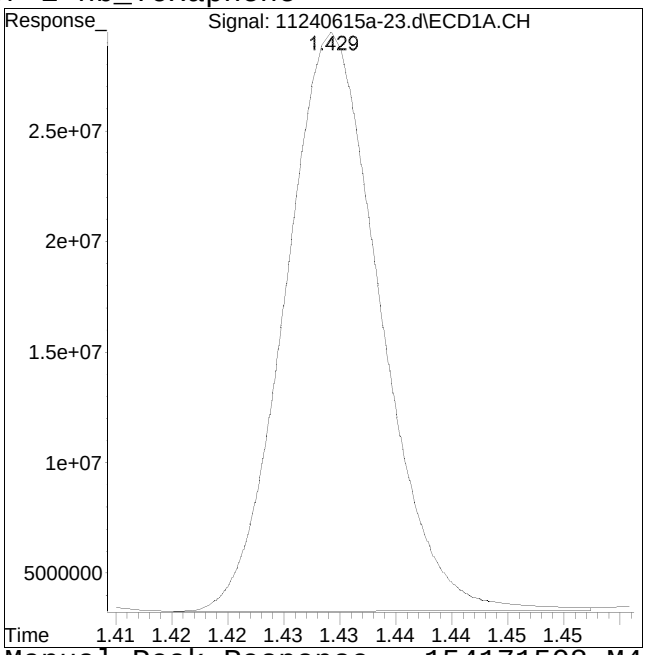
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #33: 1-br-2-nb_Toxaphene



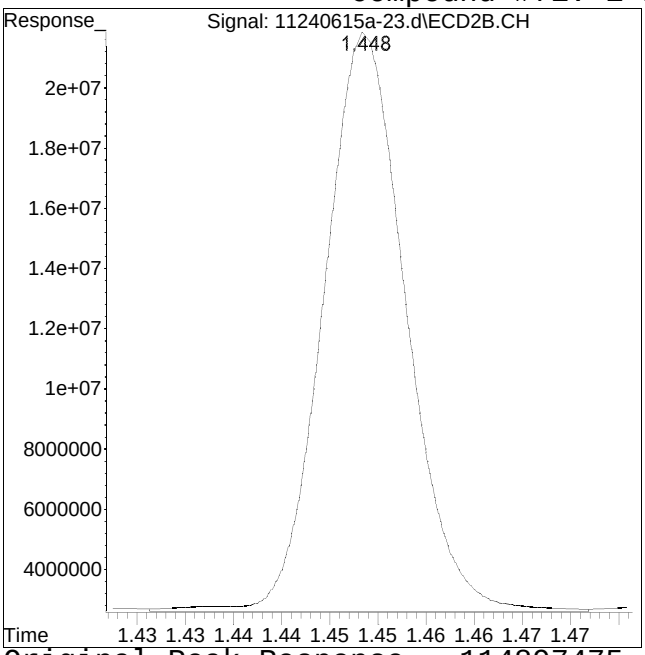


Original Peak Response = 161153893 Manual Peak Response = 154171508 M4
M4 = Poor automated baseline construction.

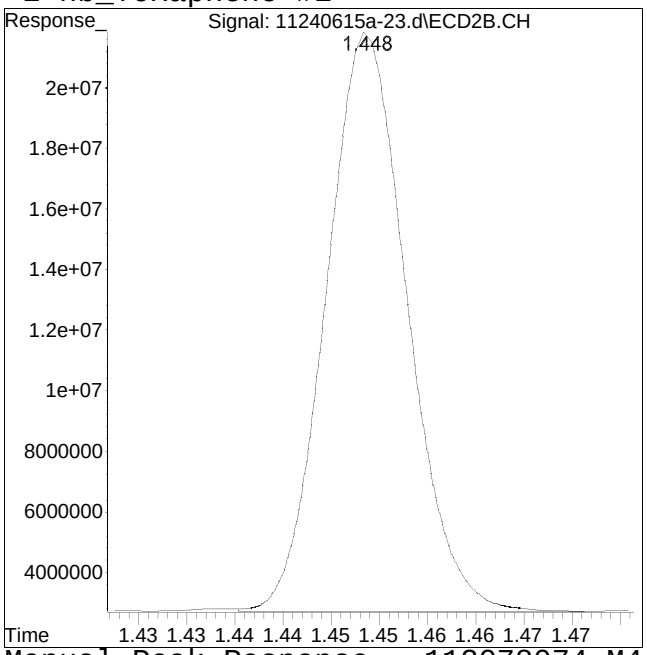
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-23.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:44 Instrument : Pest 11
Sample : WG1934673-1,42,, Quant Date : 6/15/2024 1:10 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 114897475



Manual Peak Response = 112078074 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 12:56
Operator : PEST11:jag
Sample : WG1934673-2,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:11:01 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.429	1.448	147.0E6	105.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 164882076				Recovery =	89.17%	
	Standard Area 1 : #2 = 128250551				Recovery =	81.87%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.796	1.945	232.7E6	175.7E6	35.544M4	35.726M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	71.09%	71.45%	
27) s	Decachlorobi	6.472	7.031	217.4E6	147.3E6	34.182M4	38.938M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	68.36%	77.88%	
Target Compounds							
4) t	alpha-BHC	2.131	2.378	351.0E6	256.2E6	39.164M4	38.494M4
5) t	gamma-BHC (l	2.349	2.675	324.3E6	236.4E6	37.886M4	37.382M4
6) t	beta-BHC	2.407	2.741	148.3E6	111.0E6	36.230M4	35.665M4
7) t	delta-BHC	2.545	3.018	304.3E6	215.6E6	36.403M4	34.451M4
8) t	Heptachlor	2.718	3.086	330.4E6	236.0E6	36.851M3	36.148M4
9) t	Aldrin	2.977	3.416	295.7E6	211.7E6	36.250M4	35.821M4
12) t	Heptachlor E	3.554	4.048	297.4E6	205.1E6	37.374M4	34.797M4
13) t	gamma-Chlord	3.682	4.269	300.0E6	214.1E6	40.935M4	40.159M4
14) t	alpha-Chlord	3.824	4.432	288.6E6	209.5E6	34.808M3	34.968M4
15) t	4,4'-DDE	3.919	4.619	277.5E6	204.3E6	36.565M4	37.305M4
16) t	Endosulfan I	3.970	4.492	277.8E6	196.1E6	36.659M4	35.648
17) t	Dieldrin	4.238	4.773	311.9E6	217.9E6	41.149M4	39.923M4
18) t	Endrin	4.482	5.063	300.9E6	206.1E6	39.215M3	37.373M4
19) t	4,4'-DDD	4.573	5.178	250.7E6	174.0E6	40.965M4	39.198M4
20) t	Endosulfan I	4.706	5.257	272.7E6	186.0E6	38.190M4	36.577M4
21) t	4,4'-DDT	4.849	5.450	290.4E6	184.8E6	40.437M4	35.929M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 12:56
Operator : PEST11:jag
Sample : WG1934673-2,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:11:01 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	5.105	5.547	191.1E6	132.5E6	32.660M4	30.854M3
23) t Methoxychlor	5.308	6.005	167.6E6	103.7E6	40.699	40.264M4
25) t Endosulfan S	5.483	5.772	257.7E6	173.5E6	36.605M4	34.967M3
26) t Endrin Keton	5.705	6.181	302.4E6	201.8E6	40.679M4	37.243M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

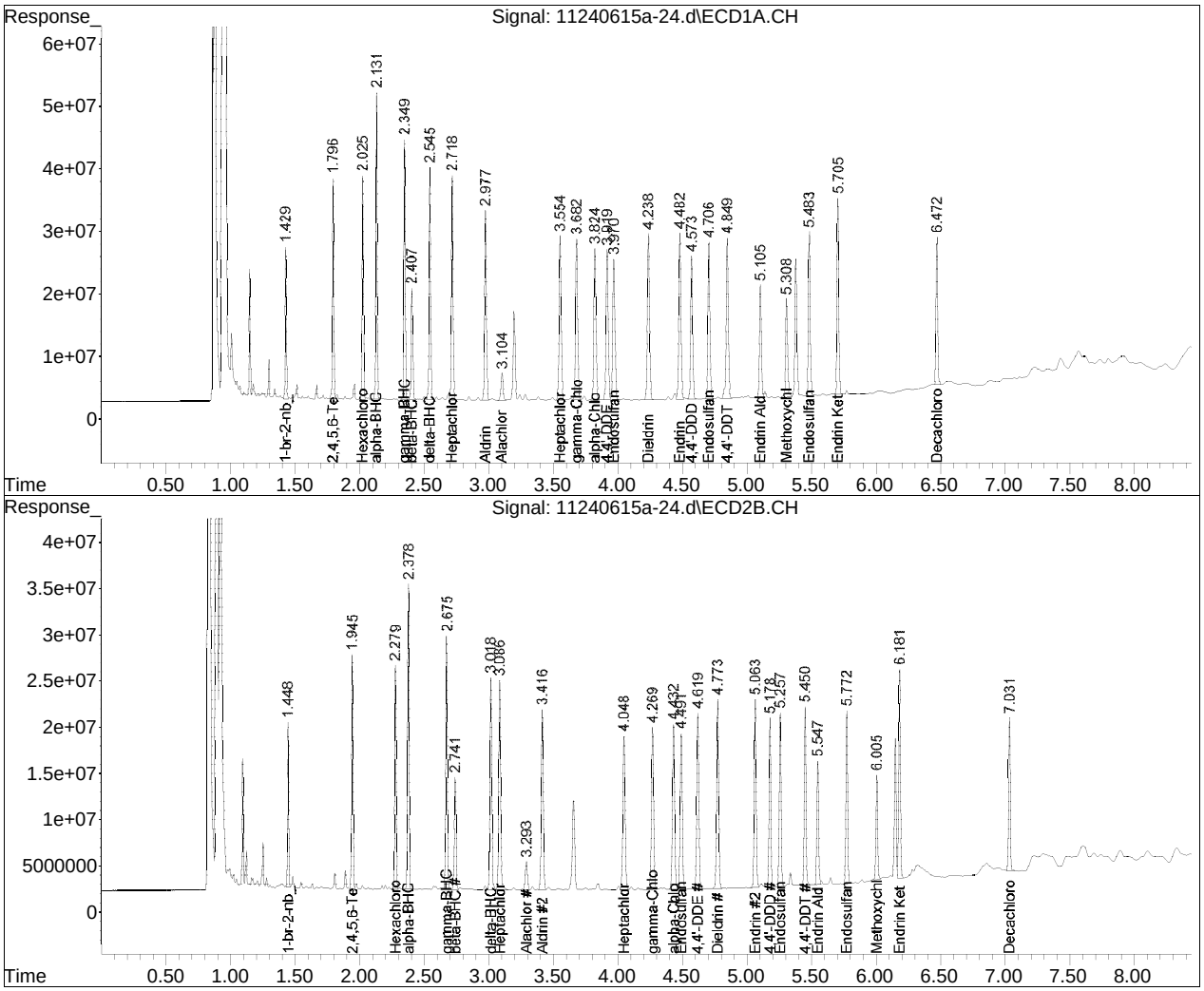
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240615A\11240615a-03.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 12:56
Operator : PEST11:jag
Sample : WG1934673-2,42,,
Misc : wg1934790,WG1934673,ical21196
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:11:01 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

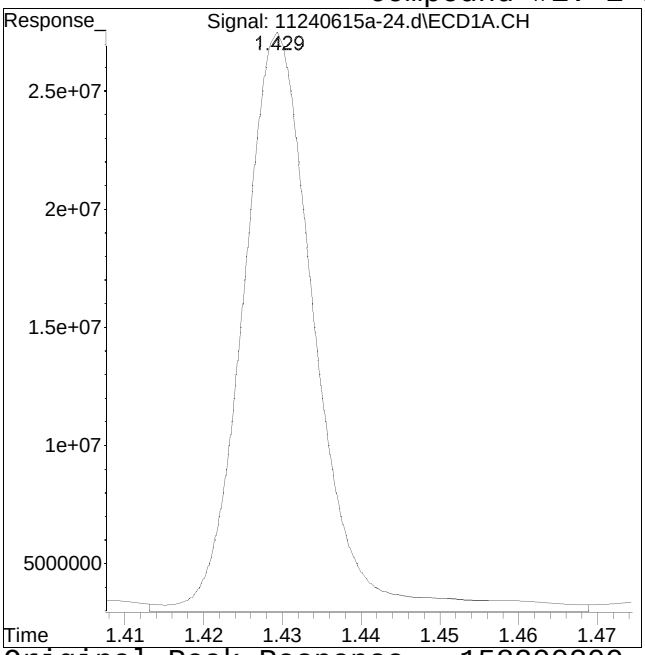
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



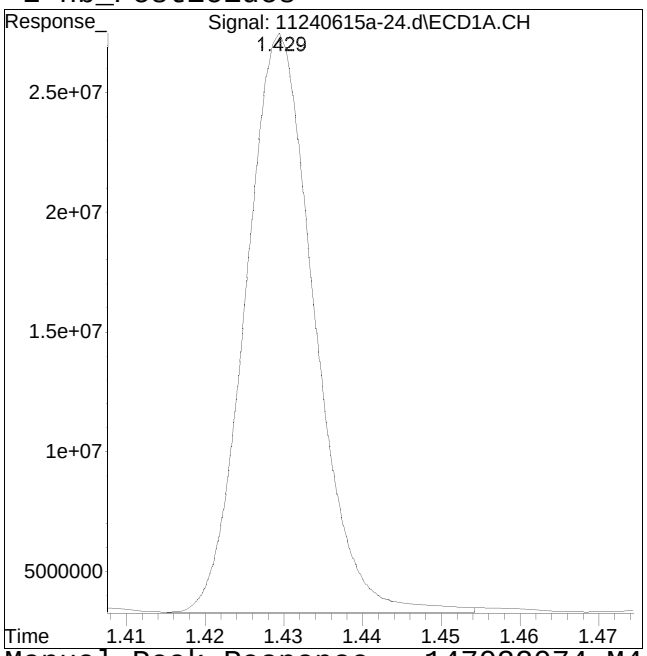
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 158200300

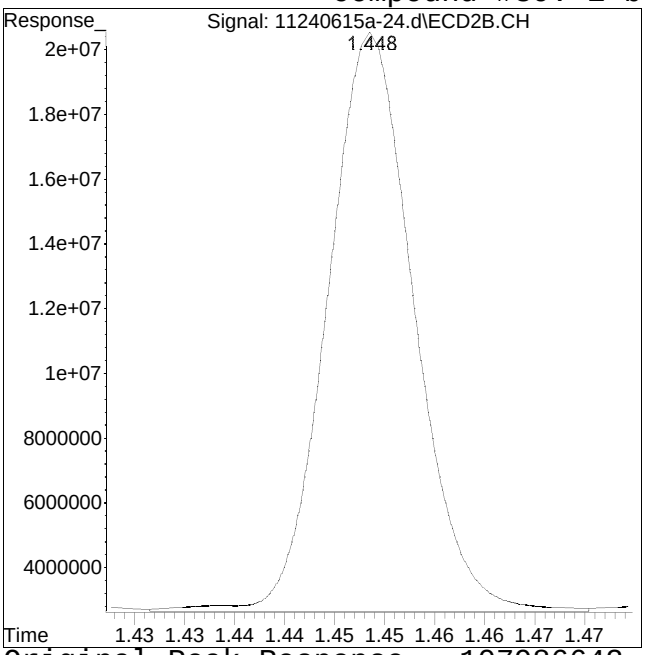


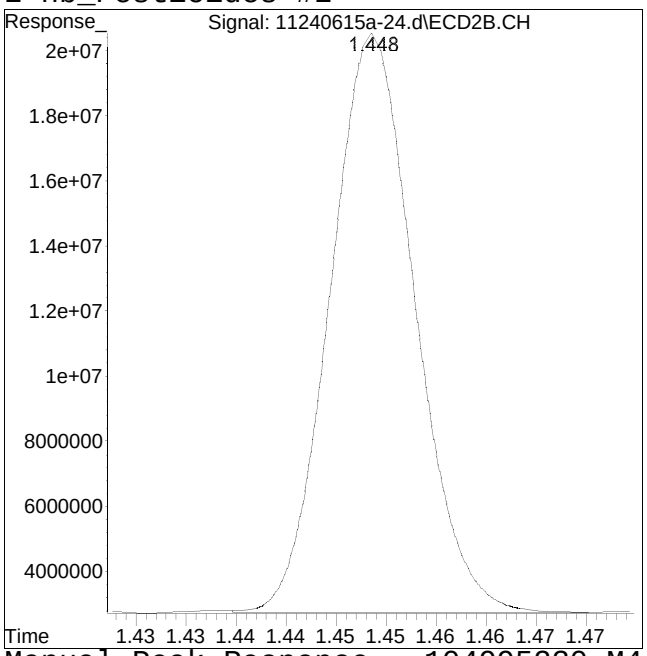
Manual Peak Response = 147022074 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #39: 1-br-2-nb_Pesticides #2



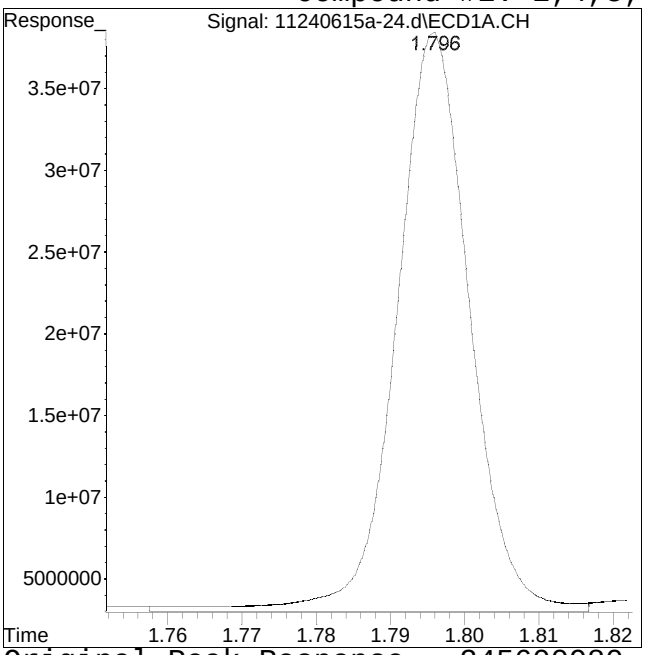


Original Peak Response = 107986642 Manual Peak Response = 104995230 M4
M4 = Poor automated baseline construction.

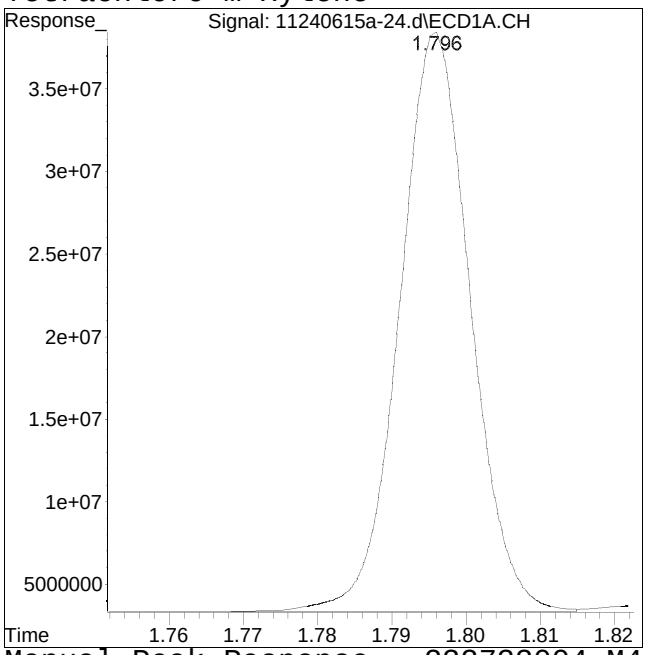
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 245600980



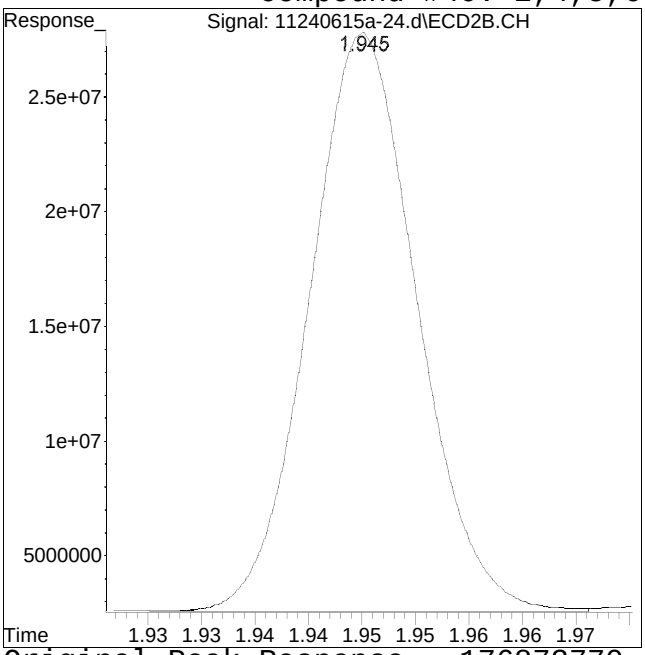
Manual Peak Response = 232733004 M4

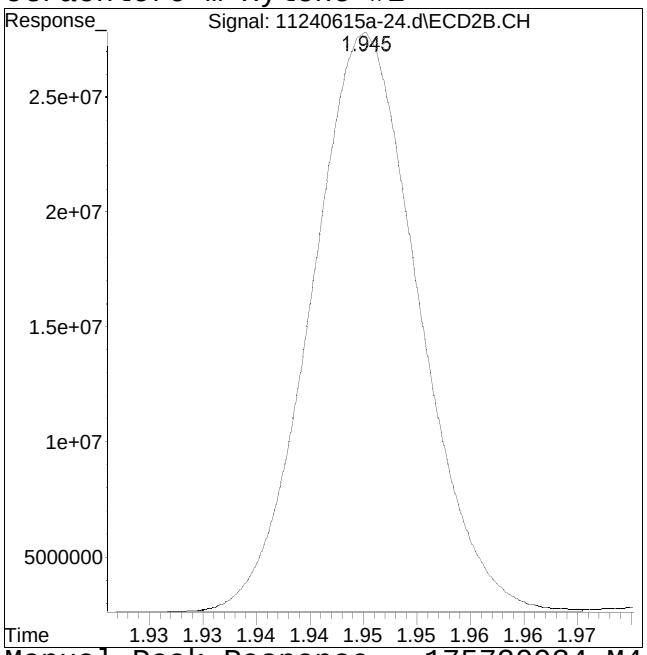
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



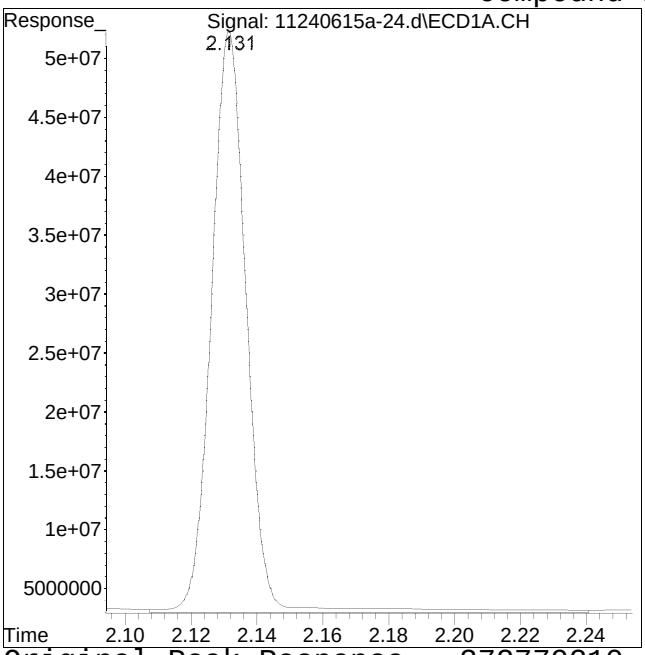


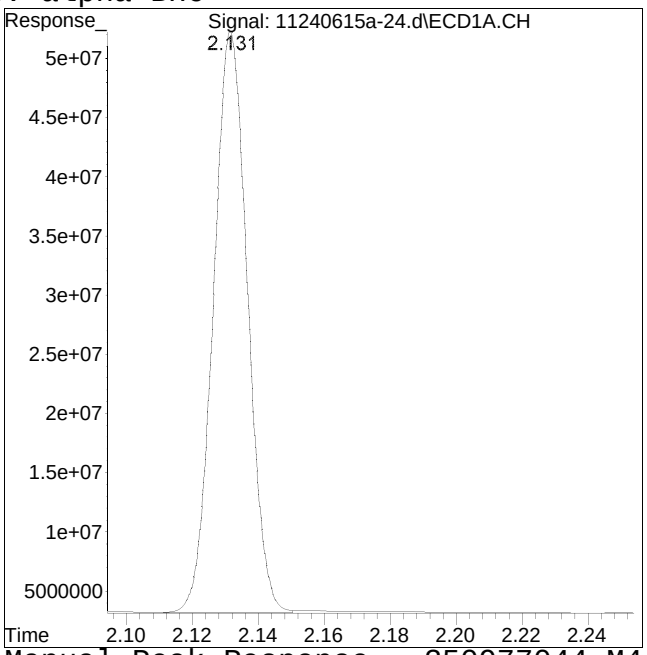
Original Peak Response = 176873770 Manual Peak Response = 175720934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #4: alpha-BHC



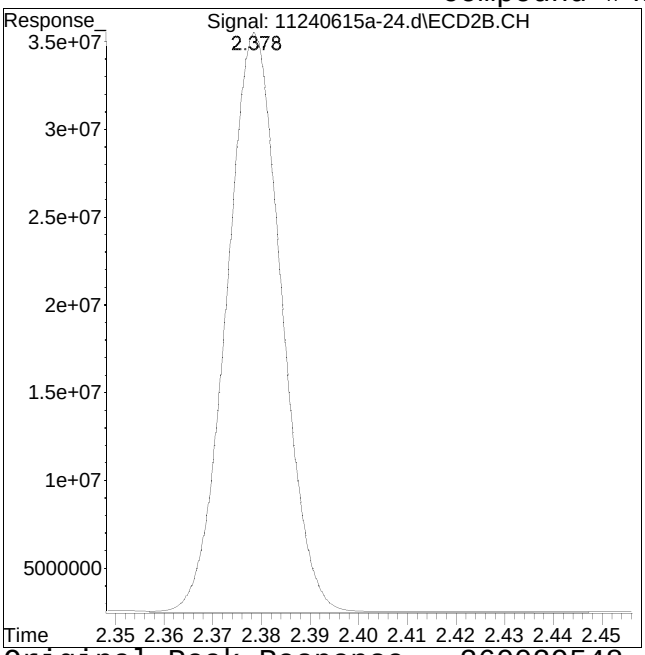


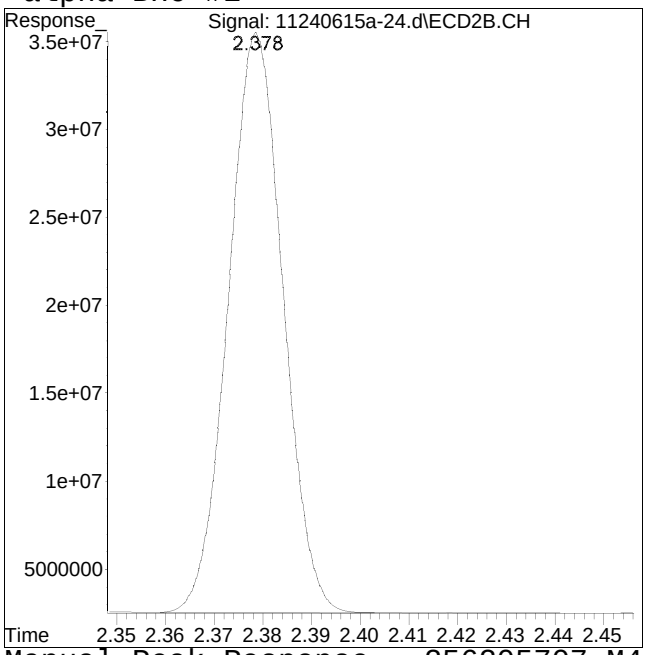
Original Peak Response = 372779210 Manual Peak Response = 350977044 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #42: alpha-BHC #2



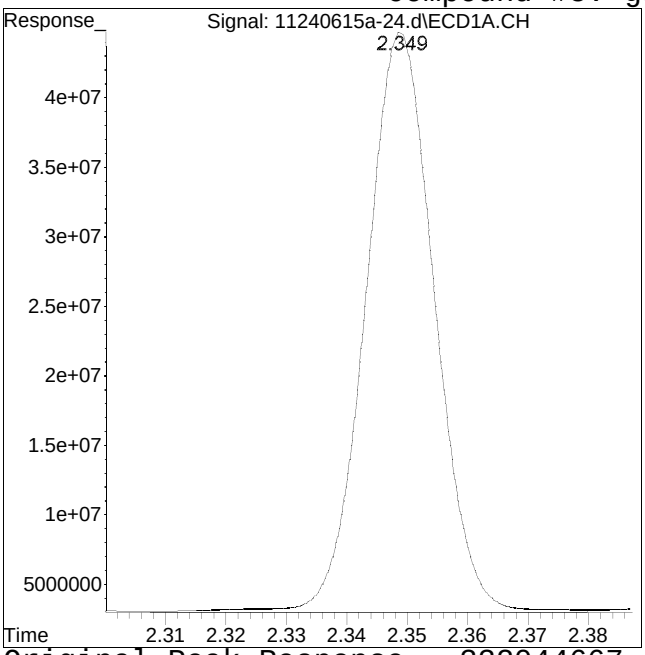


Original Peak Response = 260029548 Manual Peak Response = 256205707 M4
M4 = Poor automated baseline construction.

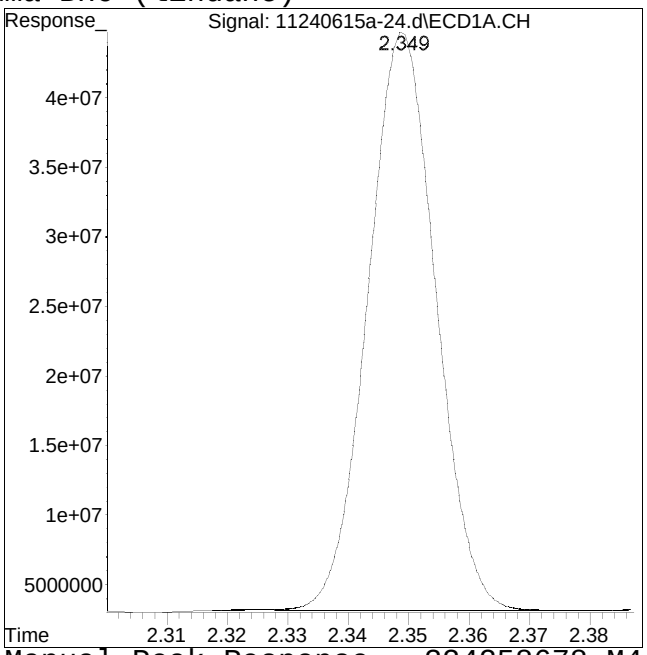
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 332044667



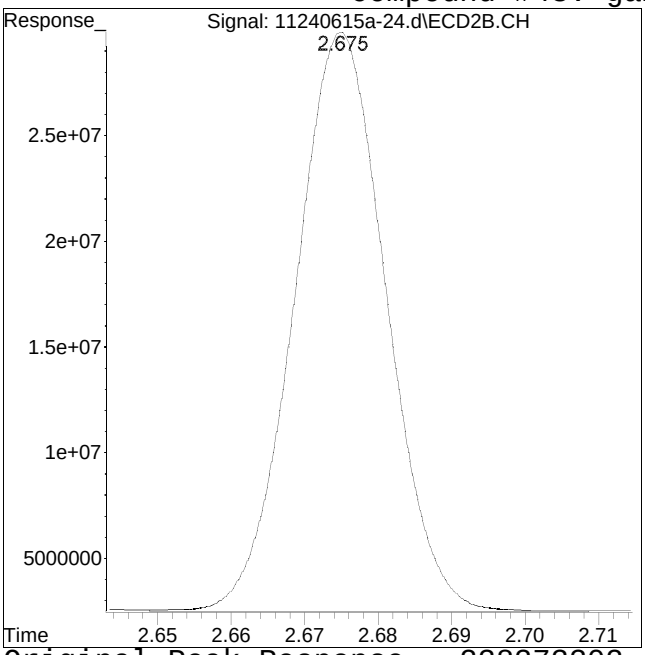
Manual Peak Response = 324258678 M4

M4 = Poor automated baseline construction.

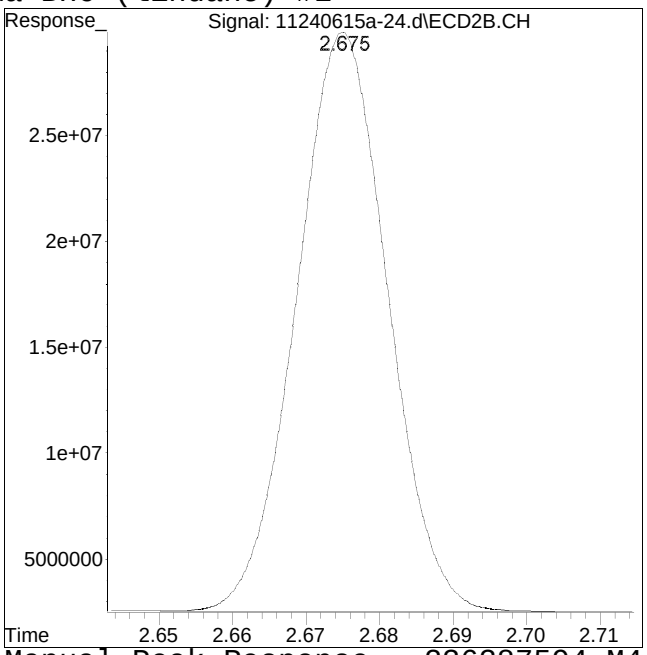
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 238373302



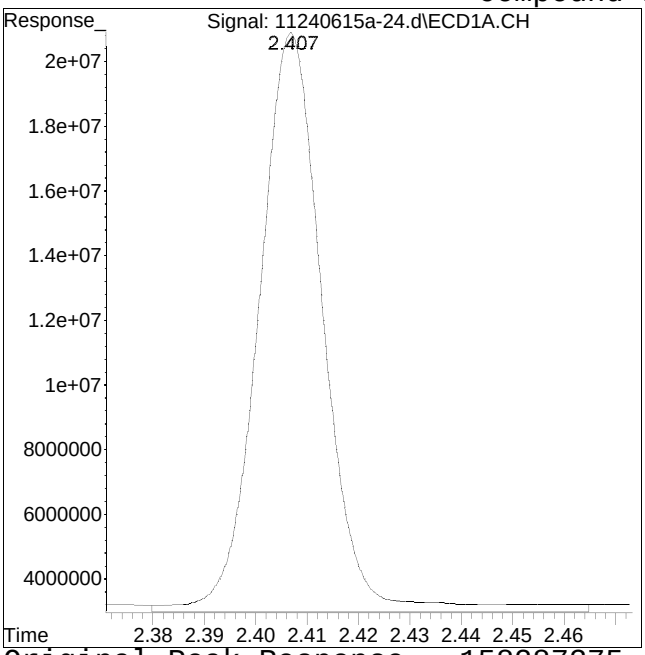
Manual Peak Response = 236387594 M4

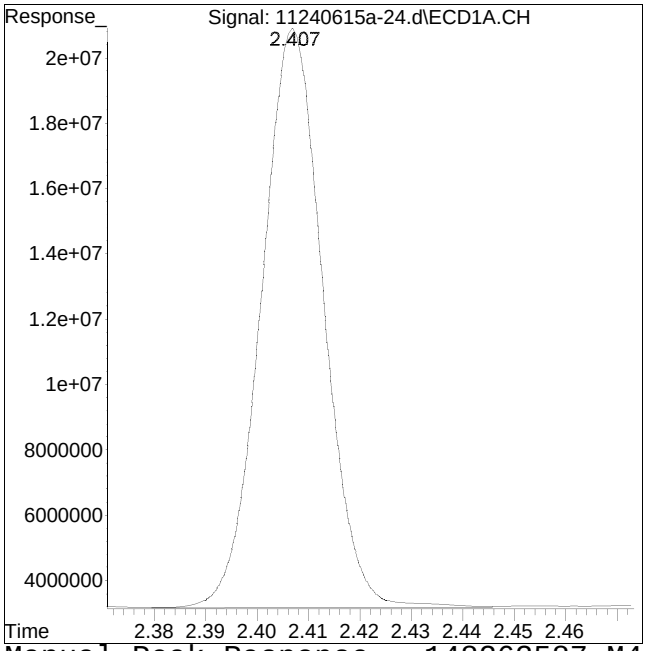
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #6: beta-BHC



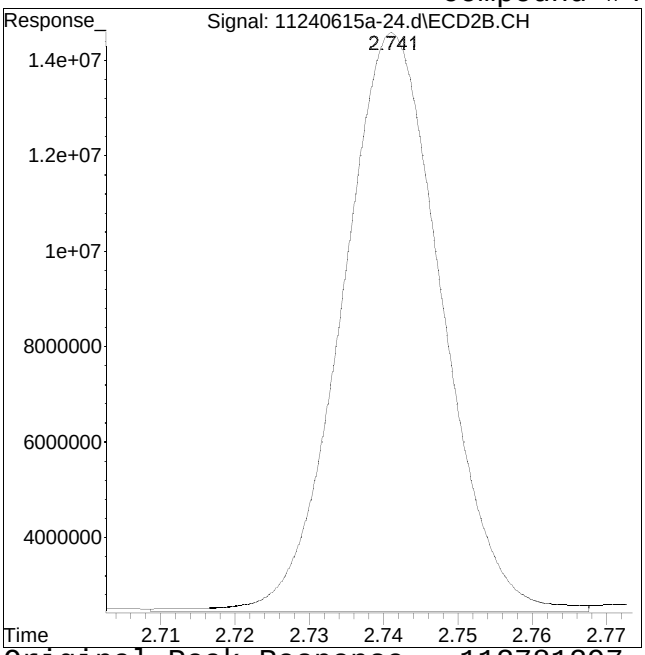


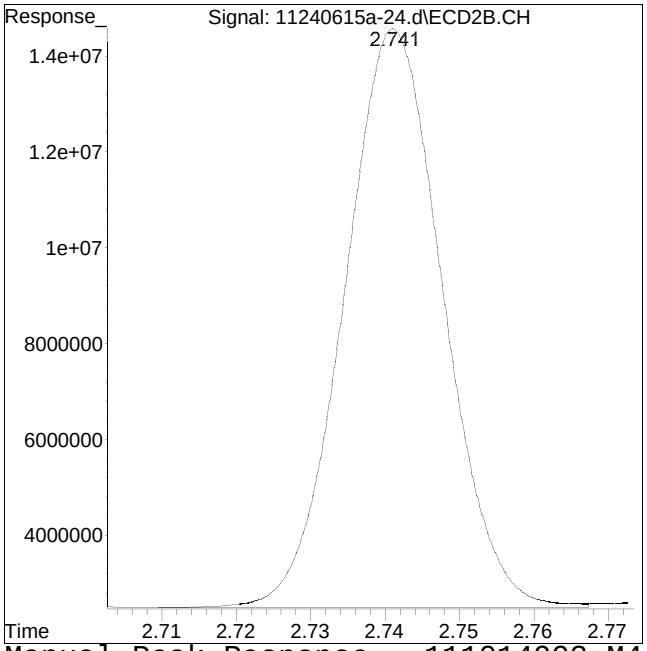
Original Peak Response = 158287375 Manual Peak Response = 148263587 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #44: beta-BHC #2



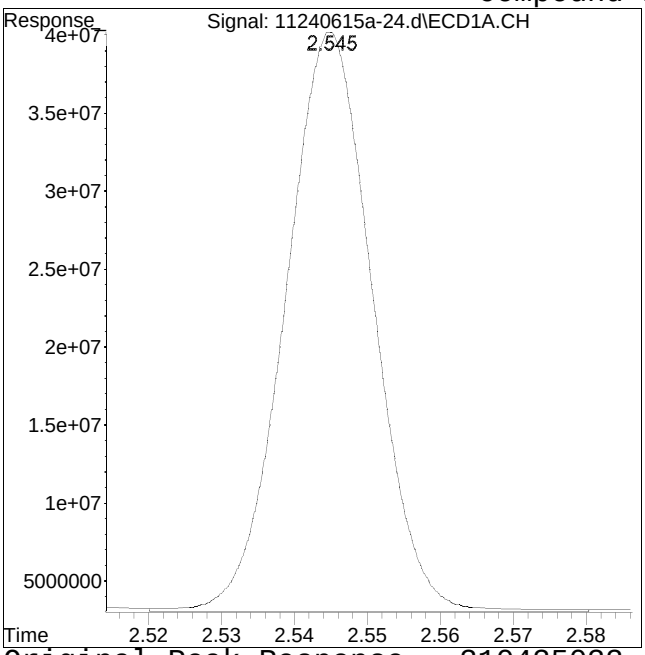


Original Peak Response = 112781297 Manual Peak Response = 111014993 M4
M4 = Poor automated baseline construction.

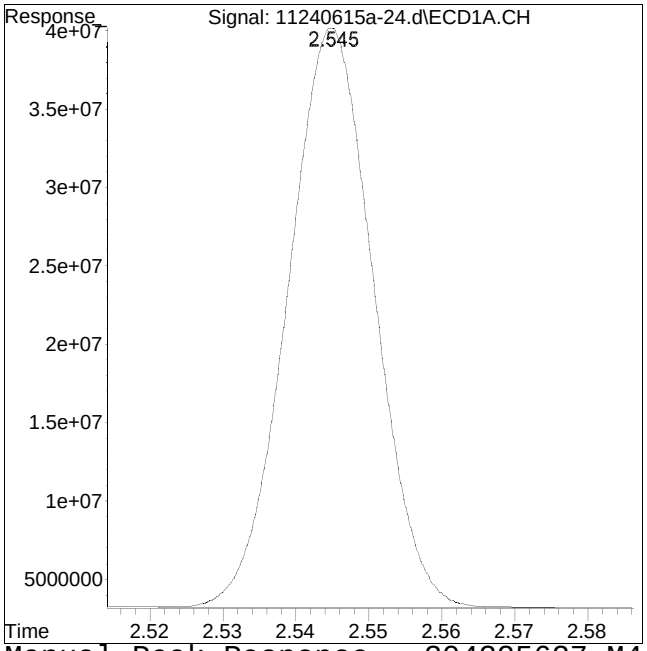
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #7: delta-BHC



Original Peak Response = 310435033



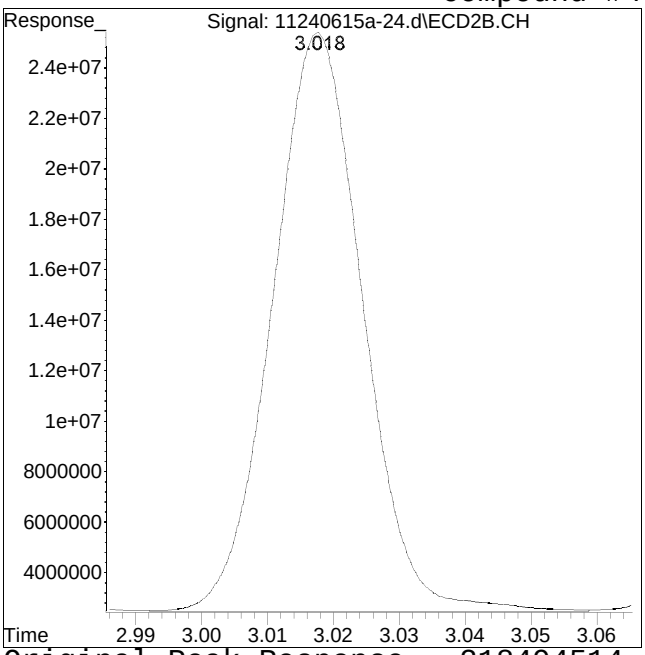
Manual Peak Response = 304325627 M4

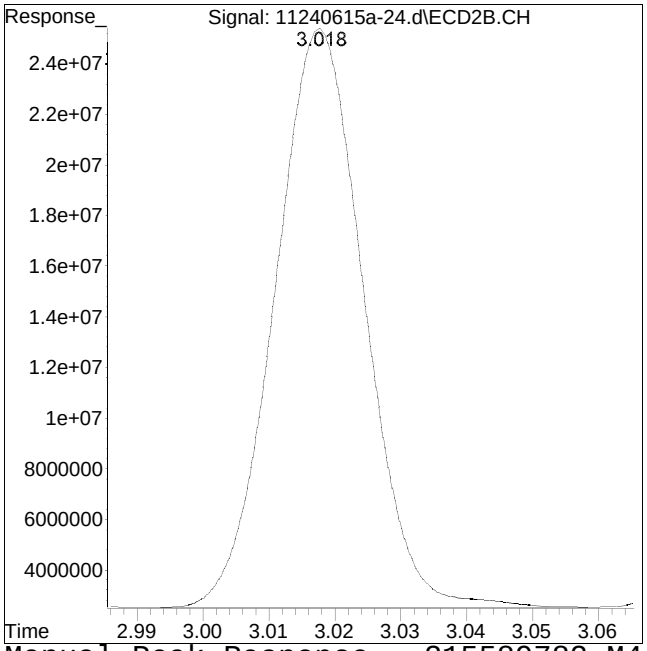
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #45: delta-BHC #2



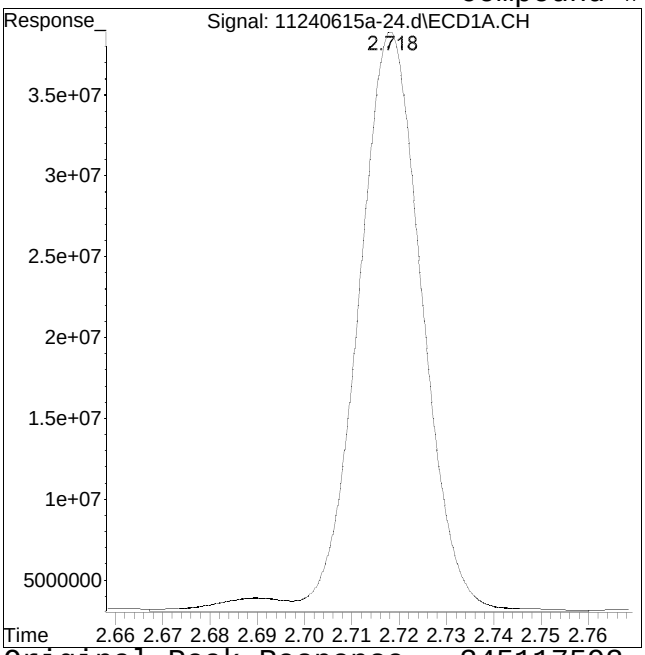


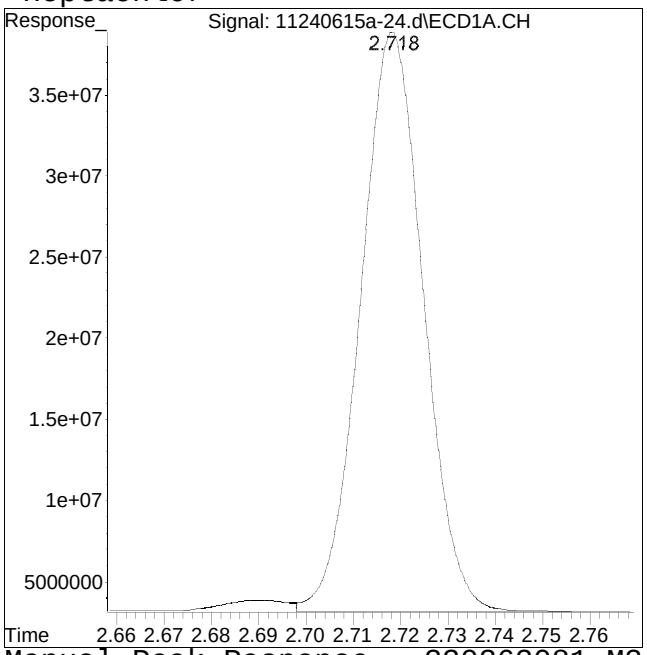
Original Peak Response = 218494514 Manual Peak Response = 215589782 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #8: Heptachlor



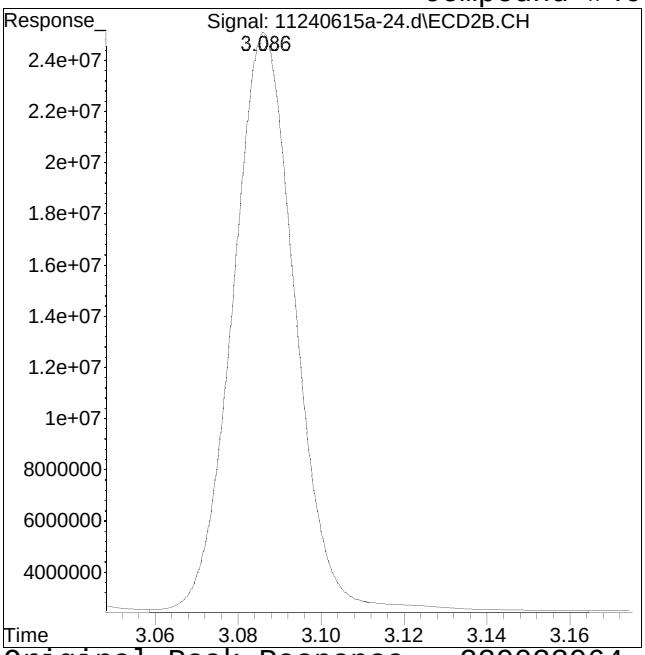


Original Peak Response = 345117593 Manual Peak Response = 330363081 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

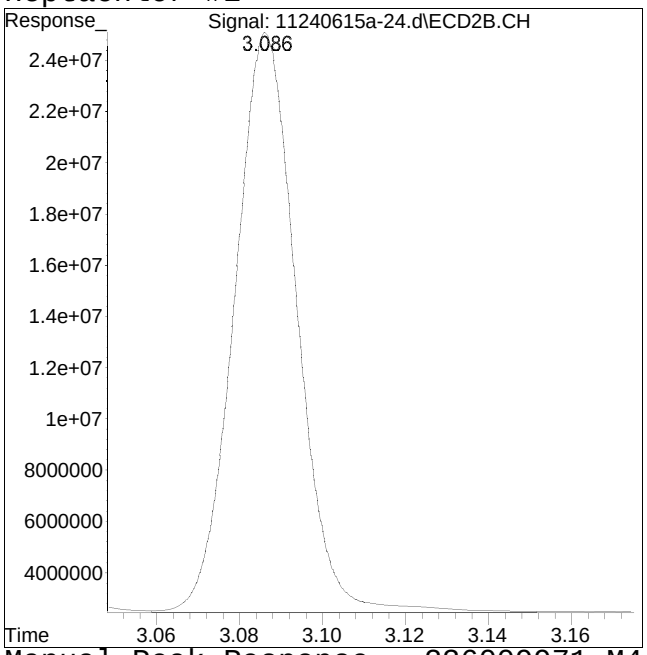
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #46: Heptachlor #2



Original Peak Response = 239033964



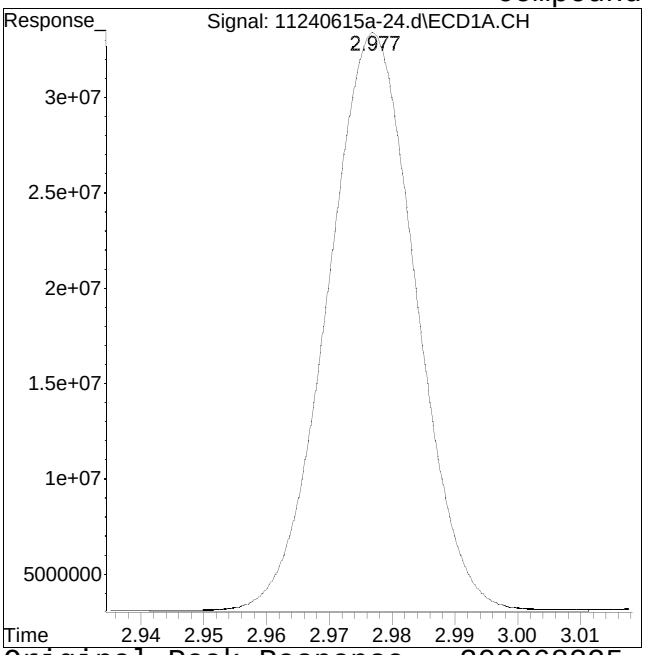
Manual Peak Response = 236009971 M4

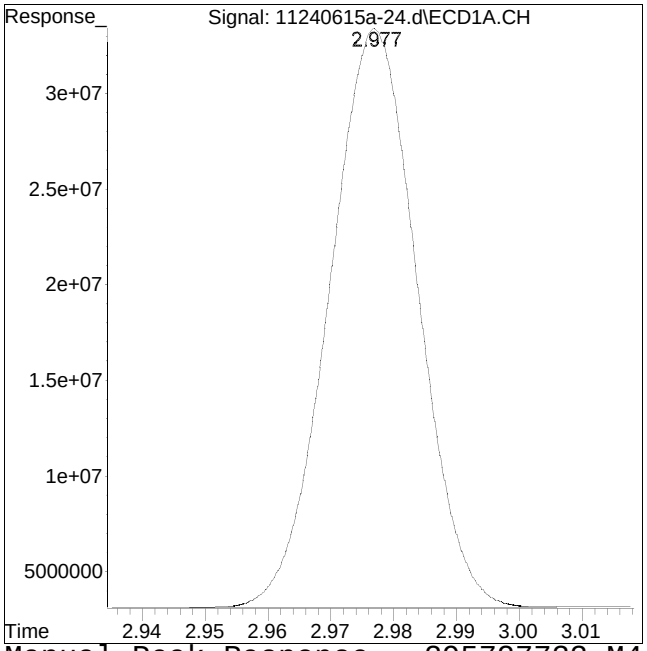
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #9: Aldrin



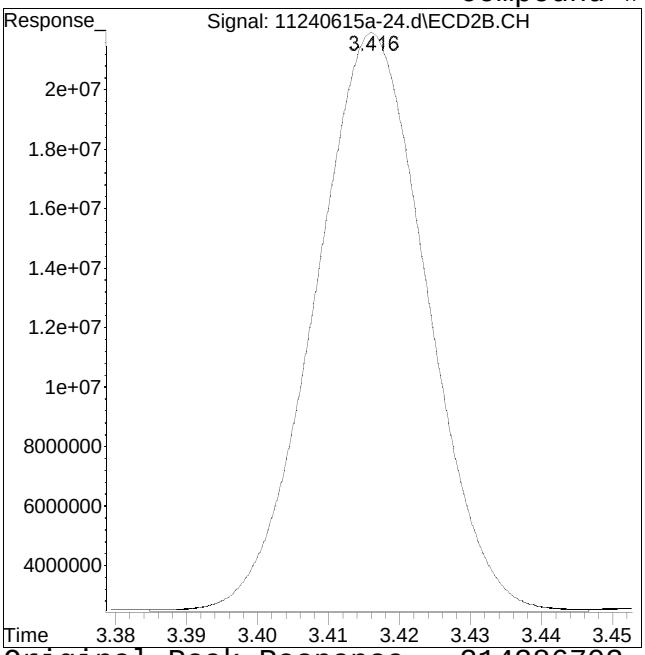


Original Peak Response = 300068325 Manual Peak Response = 295727733 M4
M4 = Poor automated baseline construction.

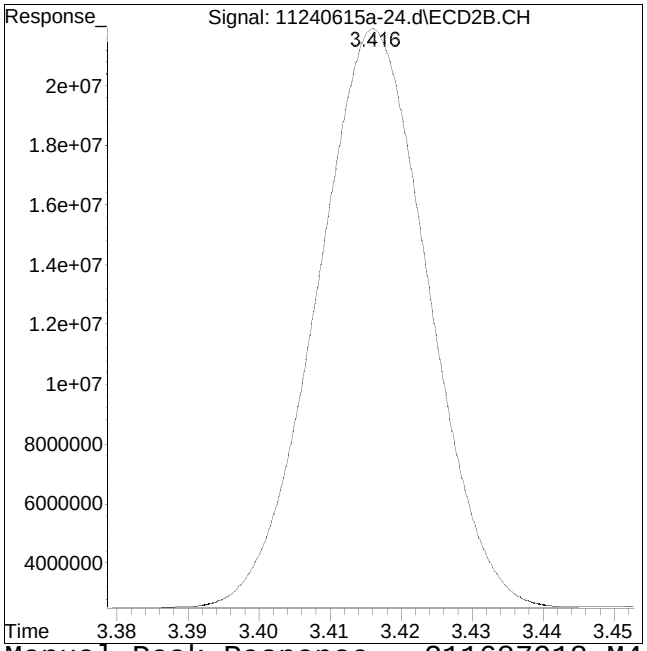
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #47: Aldrin #2



Original Peak Response = 214386703



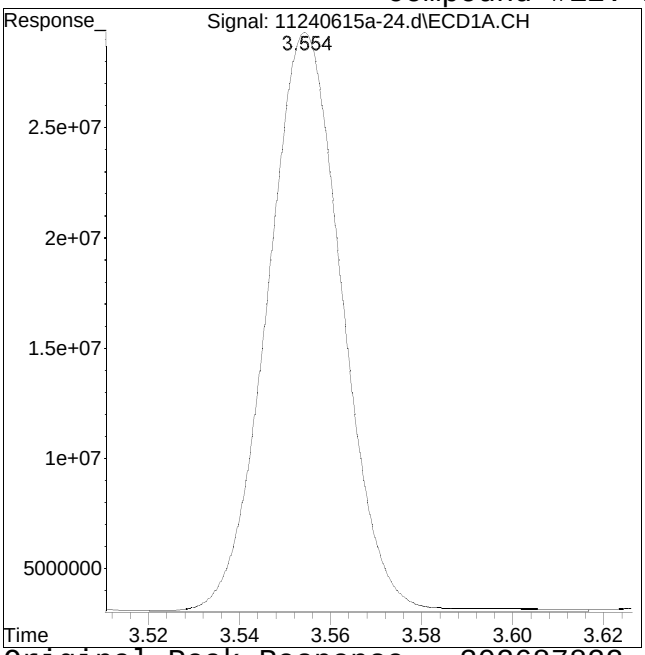
Manual Peak Response = 211687918 M4

M4 = Poor automated baseline construction.

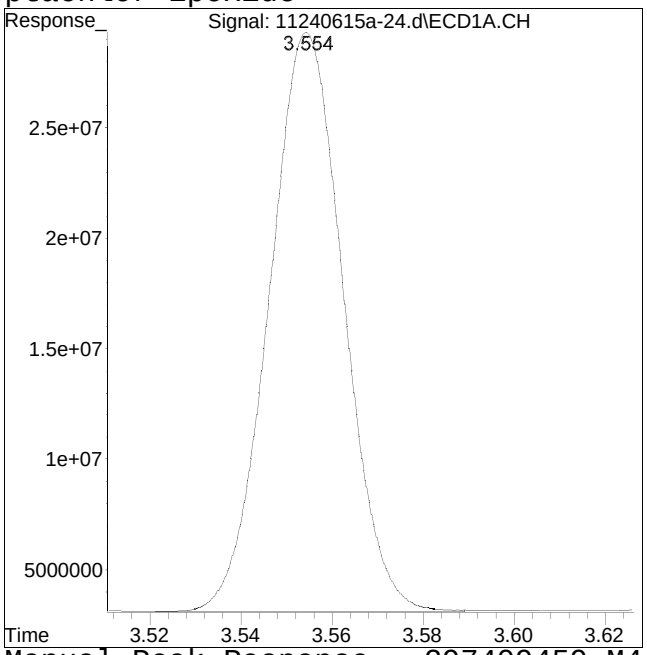
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 302687822



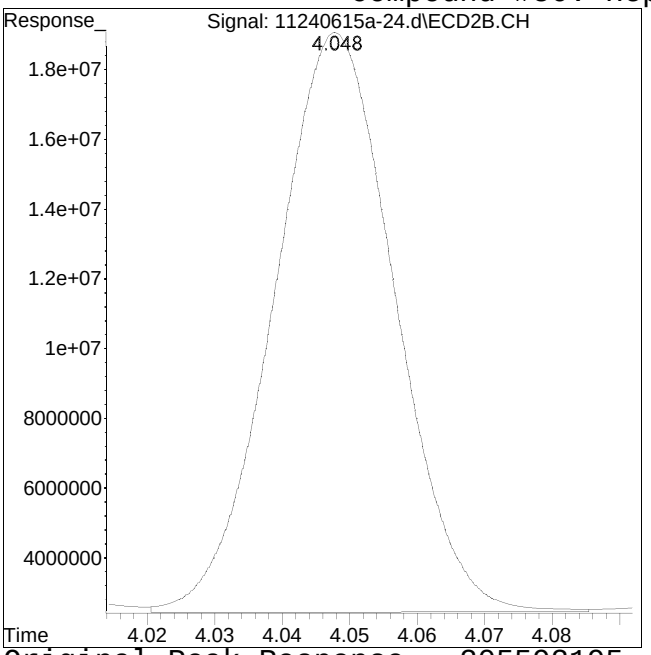
Manual Peak Response = 297409459 M4

M4 = Poor automated baseline construction.

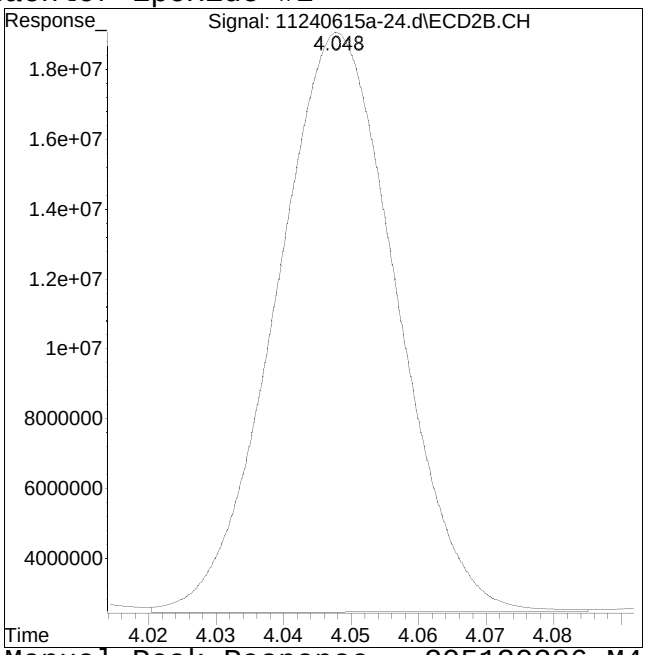
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 205592195



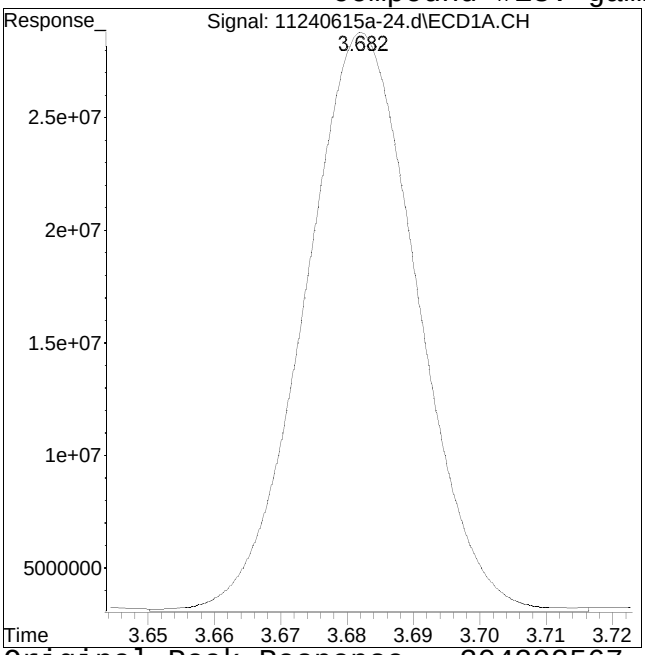
Manual Peak Response = 205130286 M4

M4 = Poor automated baseline construction.

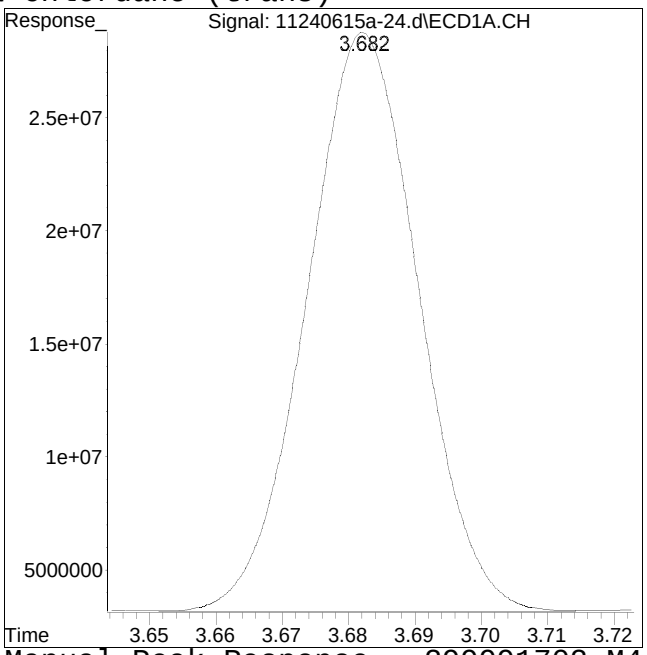
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 304202567



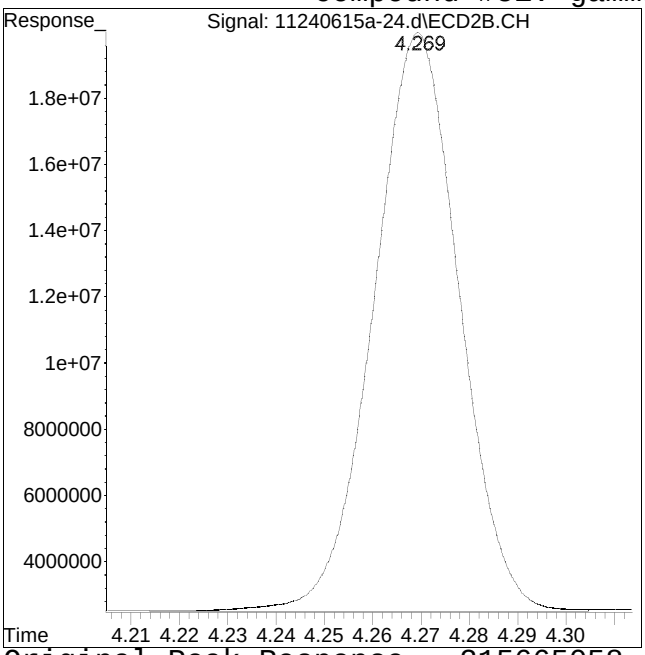
Manual Peak Response = 299991702 M4

M4 = Poor automated baseline construction.

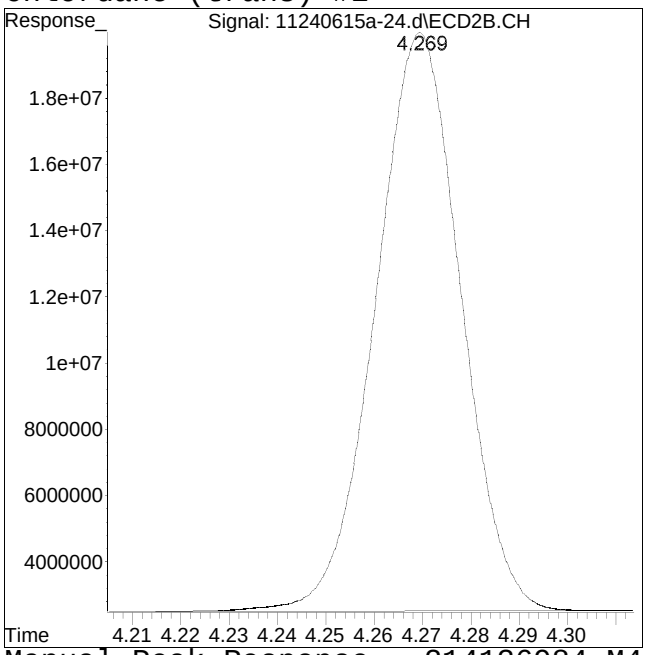
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 215665058



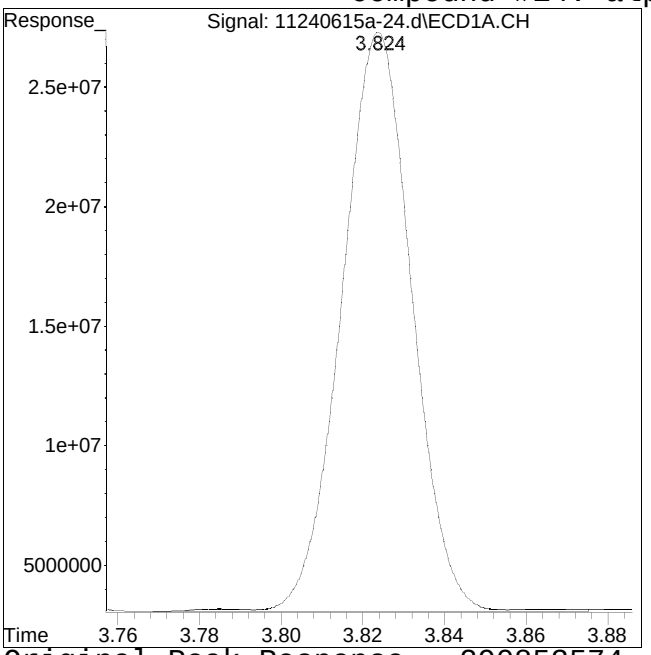
Manual Peak Response = 214136984 M4

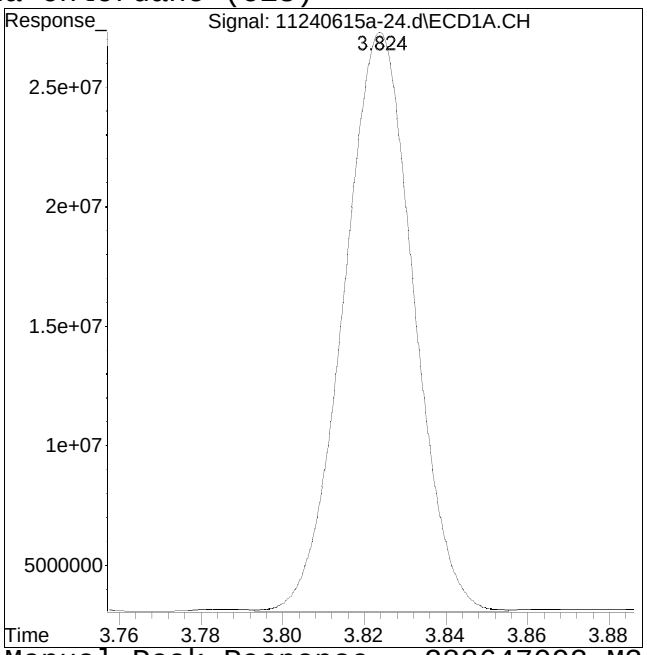
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #14: alpha-Chlordane (cis)



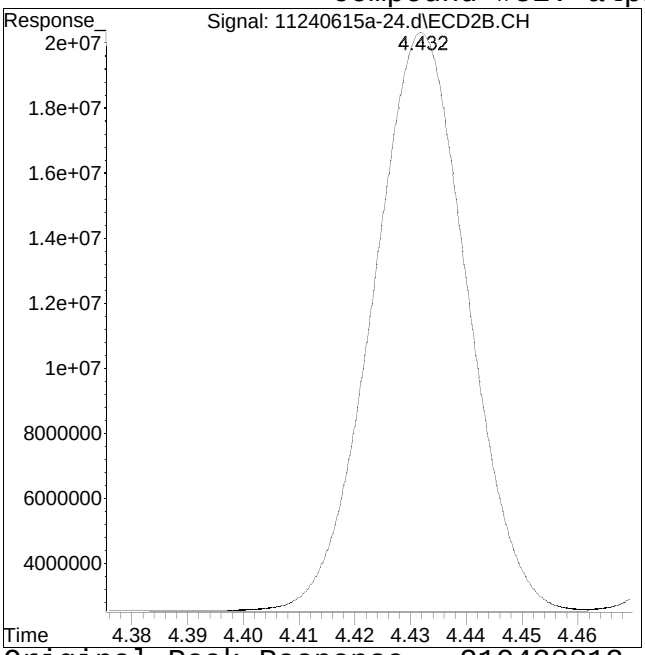


Original Peak Response = 290853574 Manual Peak Response = 288647092 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

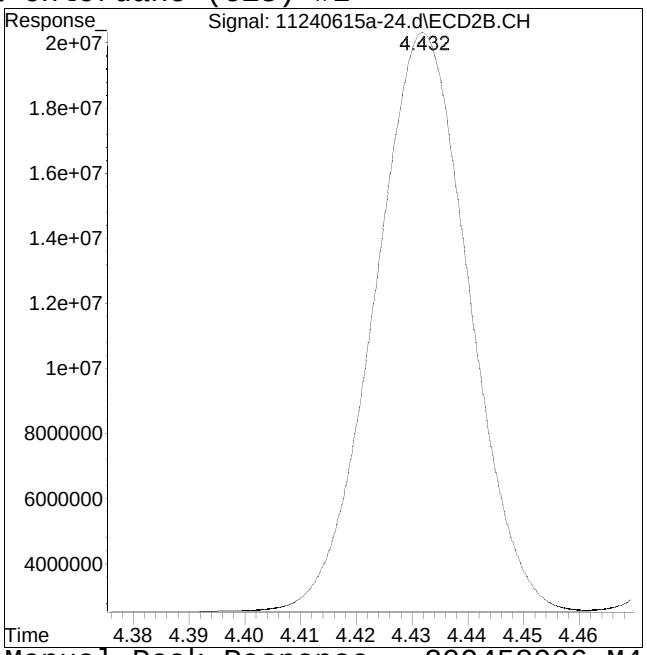
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 210428812



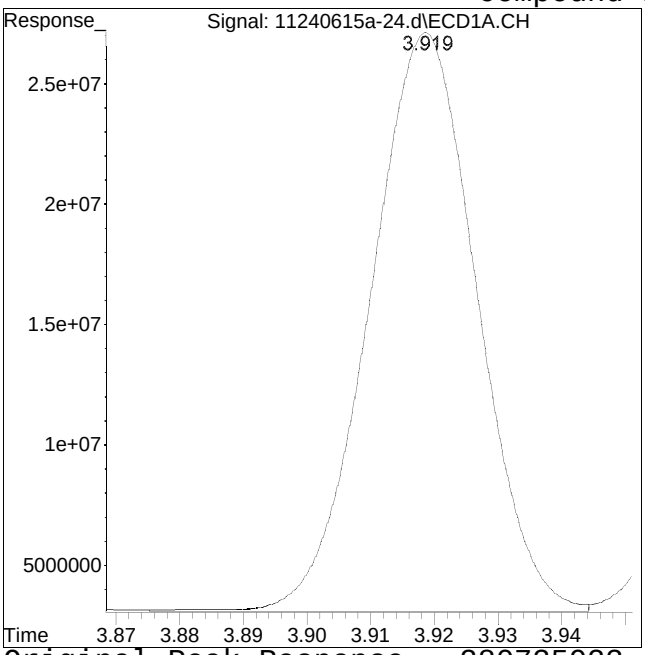
Manual Peak Response = 209458996 M4

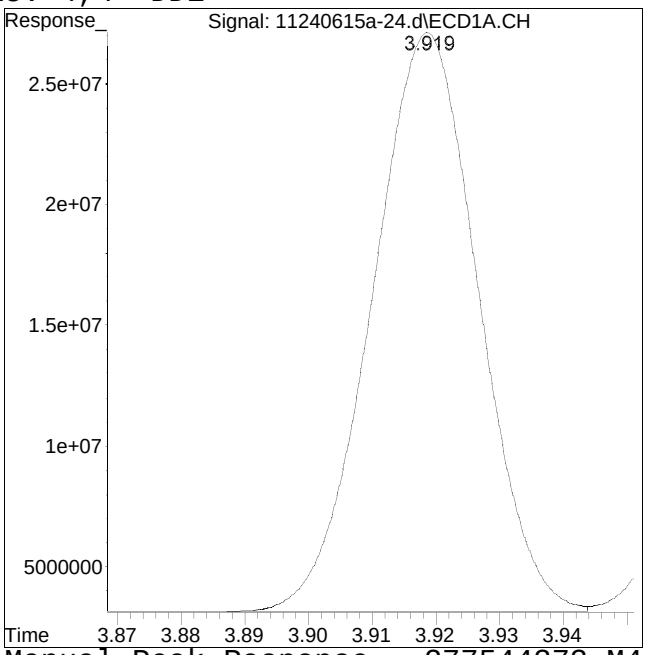
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #15: 4,4'-DDE



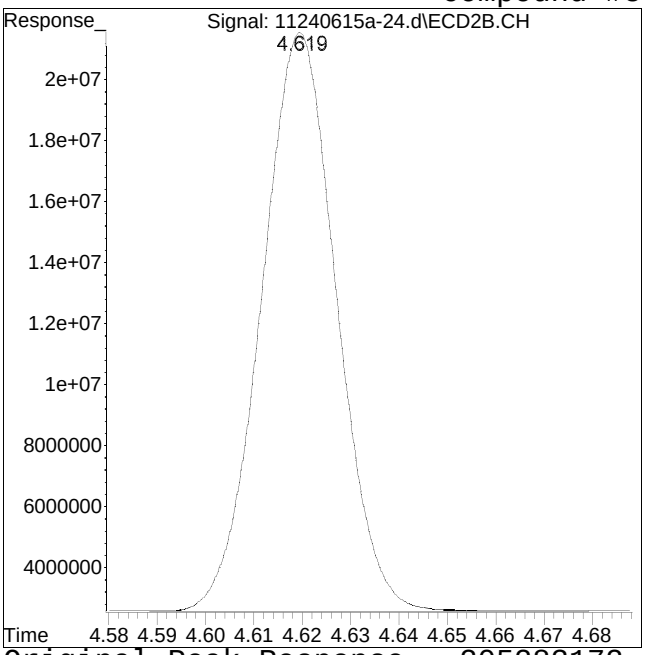


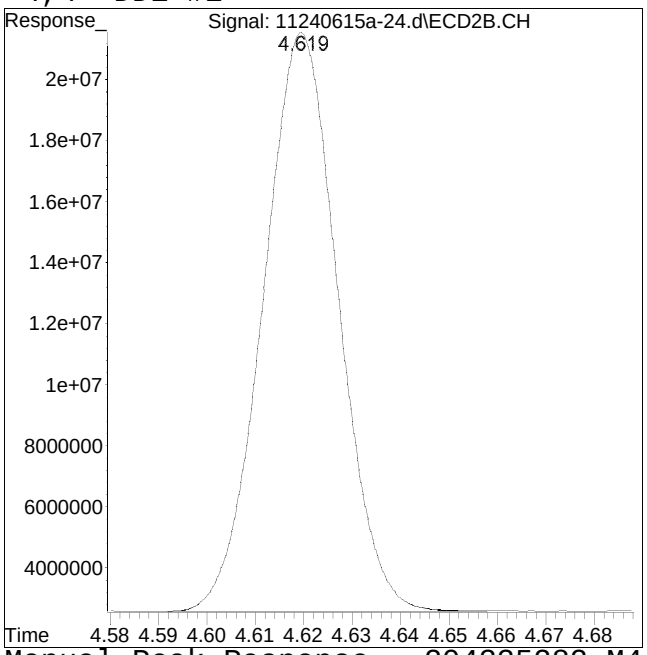
Original Peak Response = 280735923 Manual Peak Response = 277544373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #53: 4,4'-DDE #2



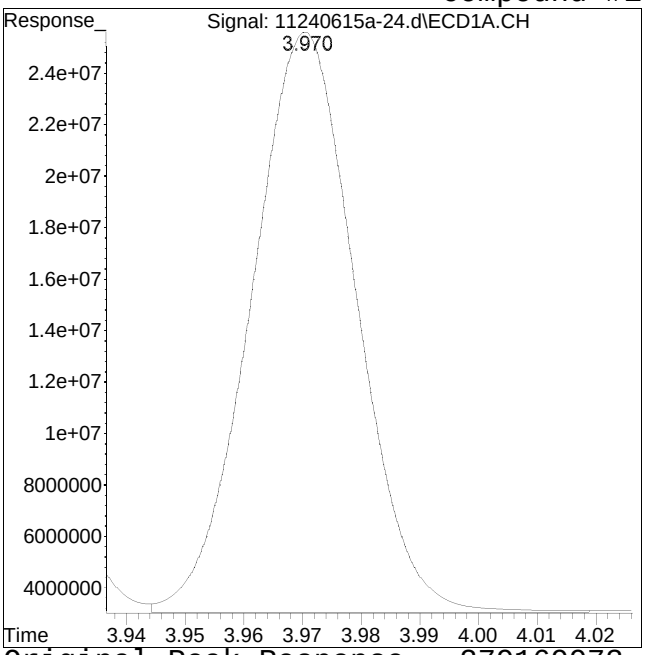


Original Peak Response = 205283172 Manual Peak Response = 204335282 M4
M4 = Poor automated baseline construction.

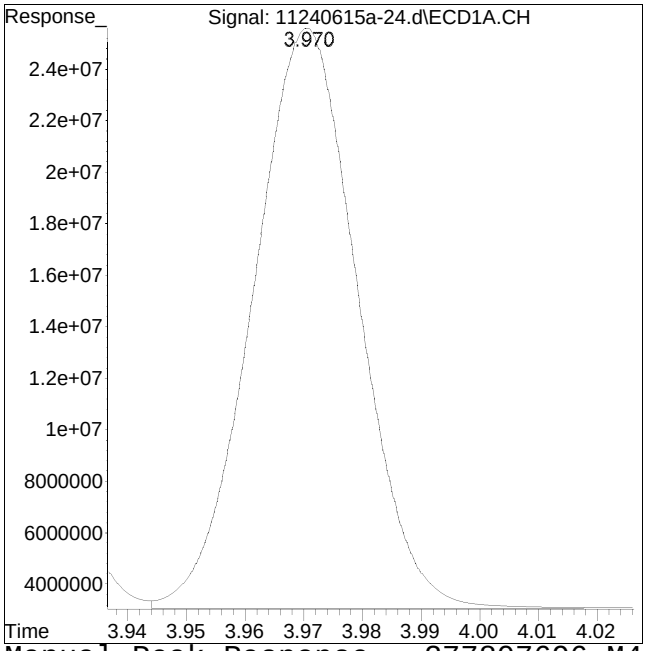
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #16: Endosulfan I



Original Peak Response = 279169973



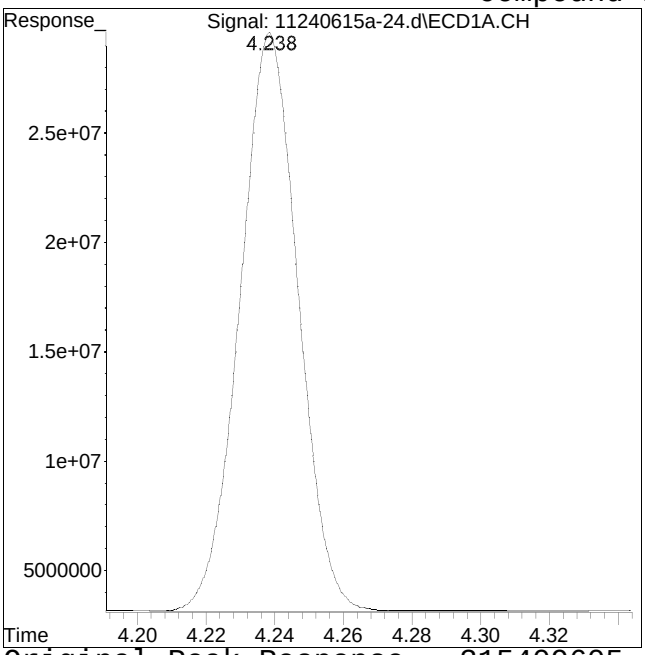
Manual Peak Response = 277807696 M4

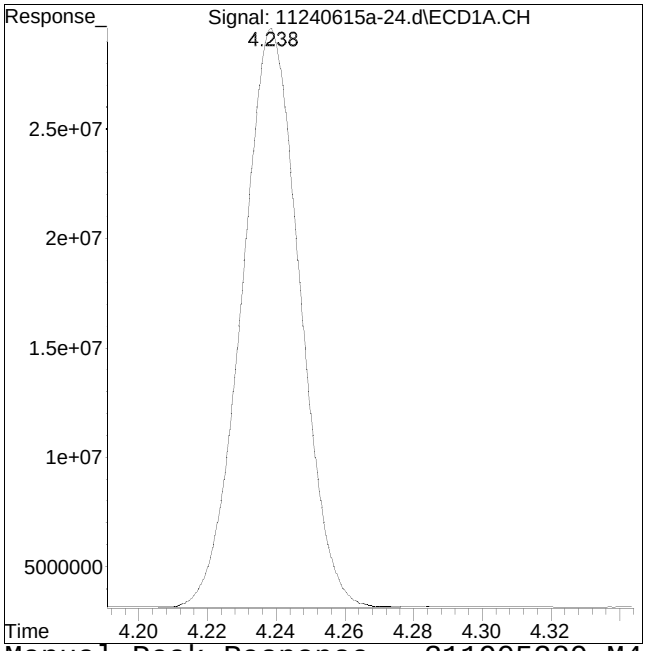
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #17: Dieldrin



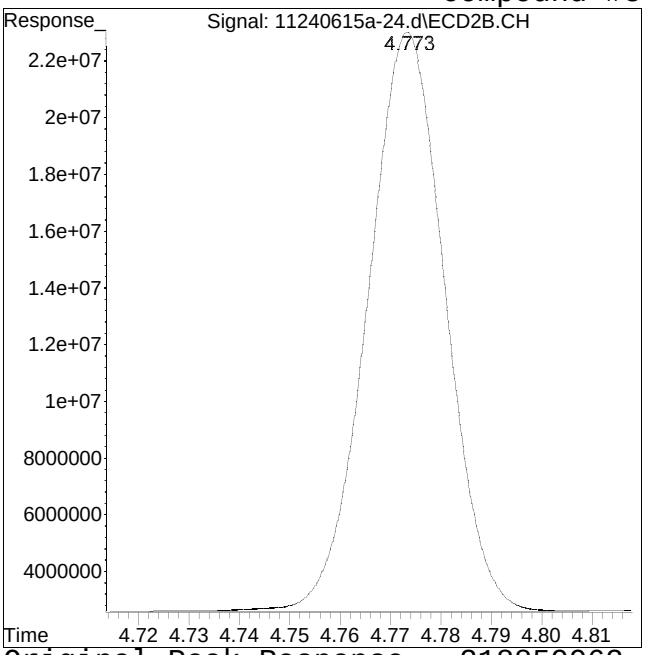


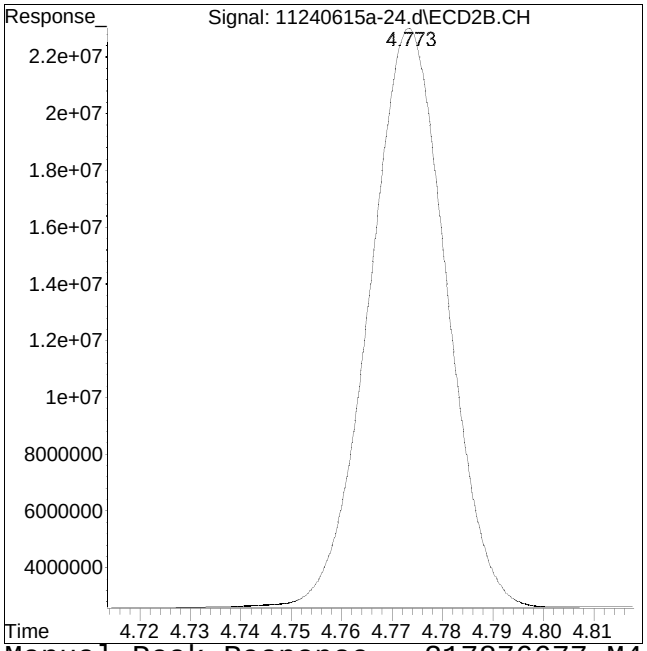
Original Peak Response = 315409605 Manual Peak Response = 311905280 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #55: Dieldrin #2



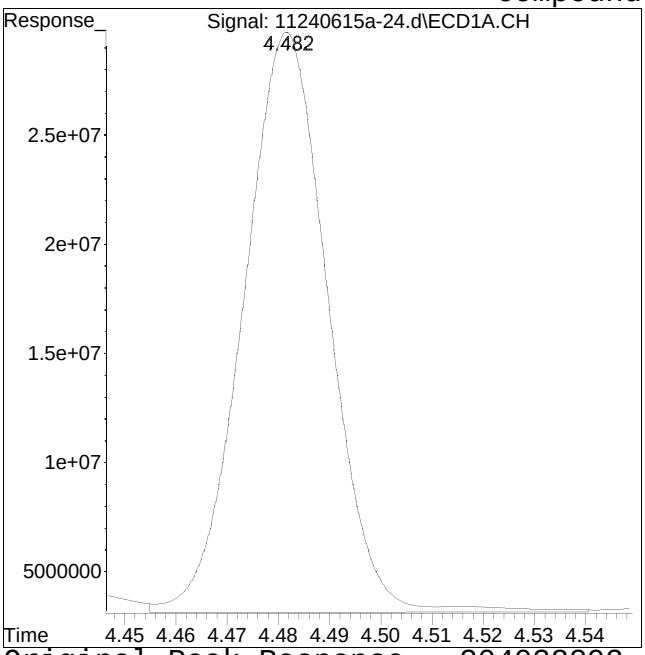


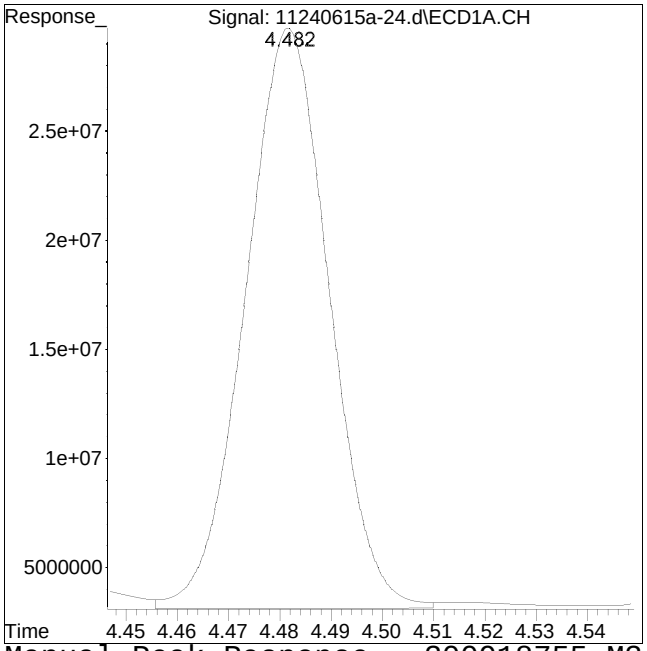
Original Peak Response = 218859962 Manual Peak Response = 217876677 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #18: Endrin



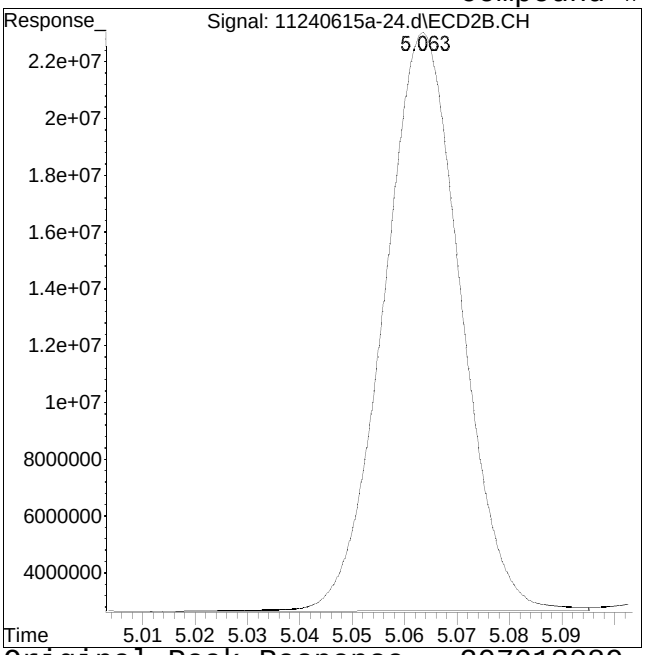


Original Peak Response = 304032292 Manual Peak Response = 300918755 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

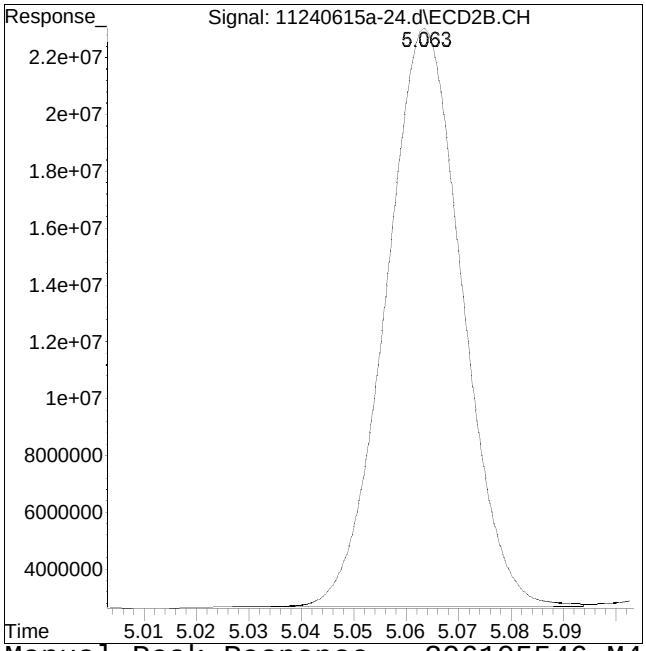
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #56: Endrin #2



Original Peak Response = 207913089



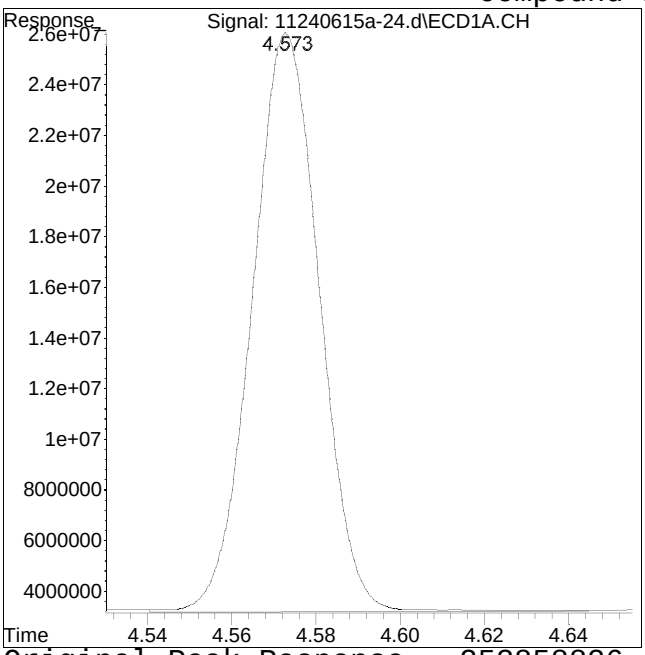
Manual Peak Response = 206105546 M4

M4 = Poor automated baseline construction.

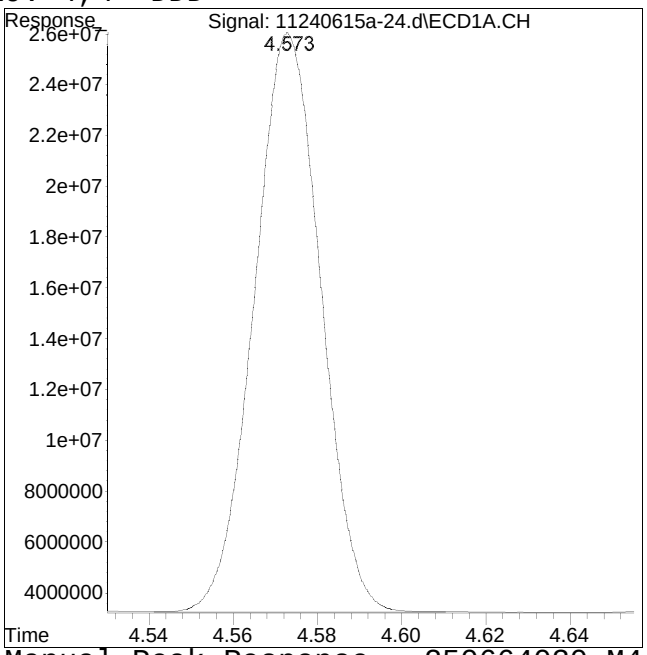
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #19: 4,4'-DDD



Original Peak Response = 253858826



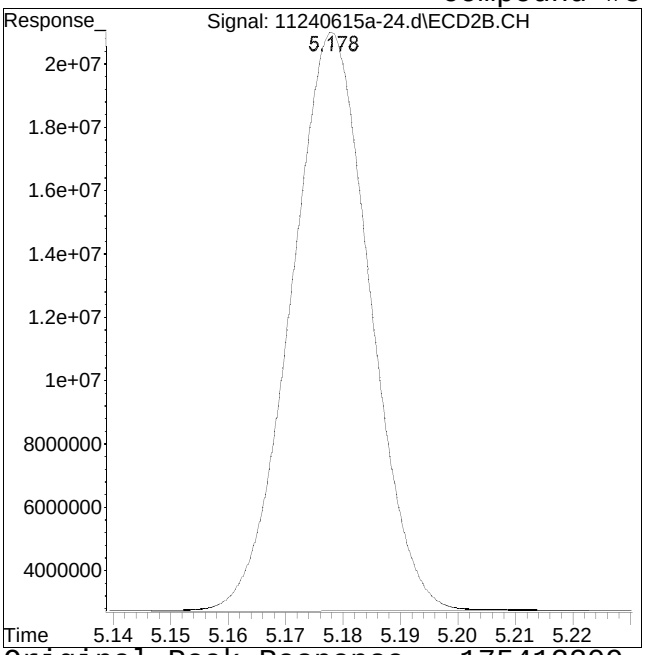
Manual Peak Response = 250664030 M4

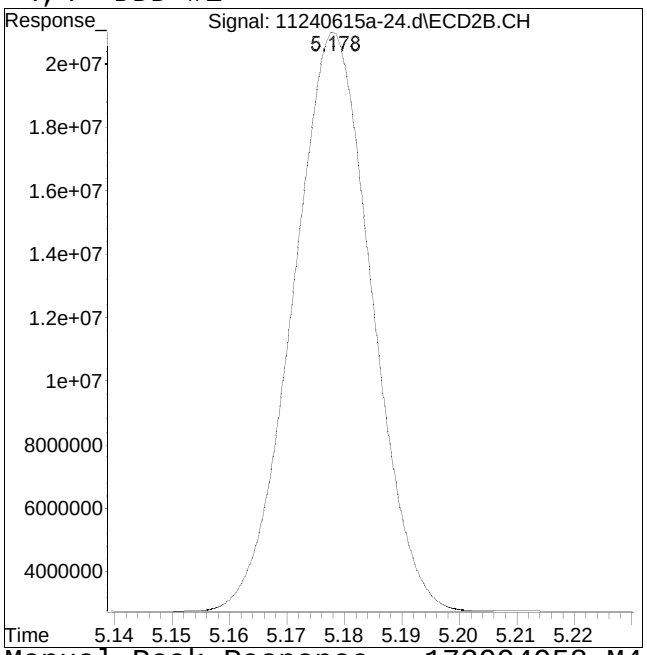
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #57: 4,4'-DDD #2



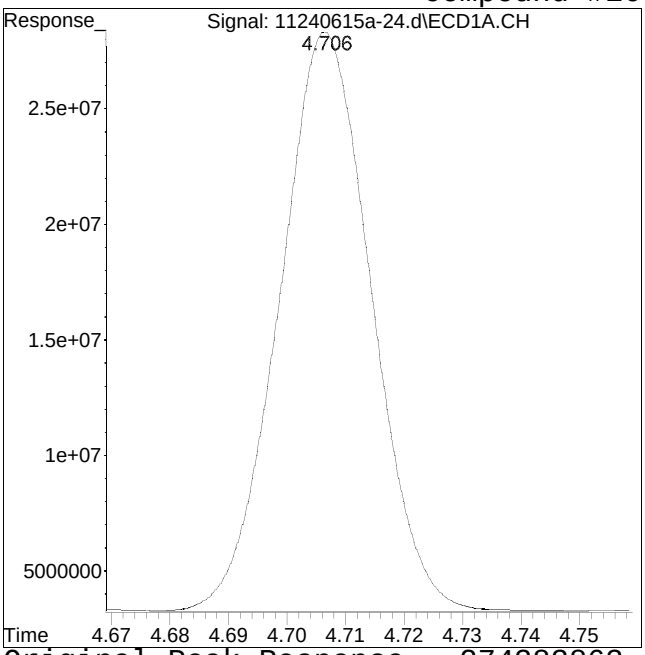


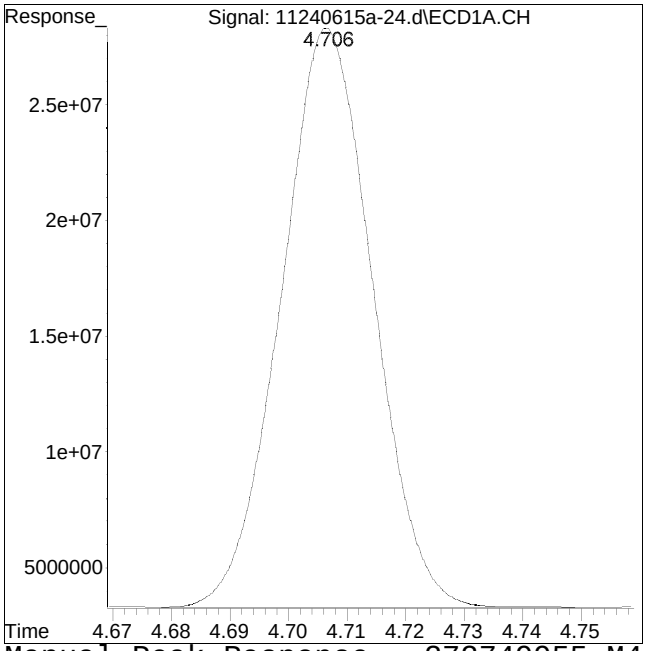
Original Peak Response = 175412309 Manual Peak Response = 173994958 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #20: Endosulfan II



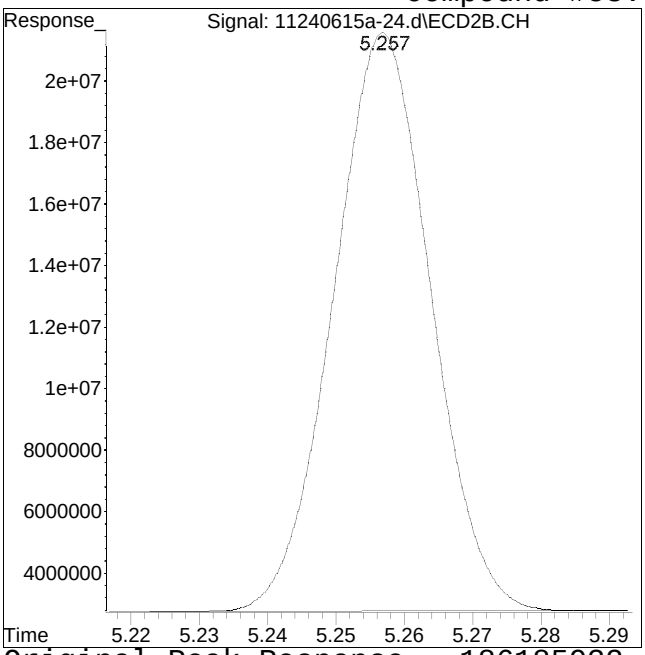


Original Peak Response = 274383863 Manual Peak Response = 272749955 M4
M4 = Poor automated baseline construction.

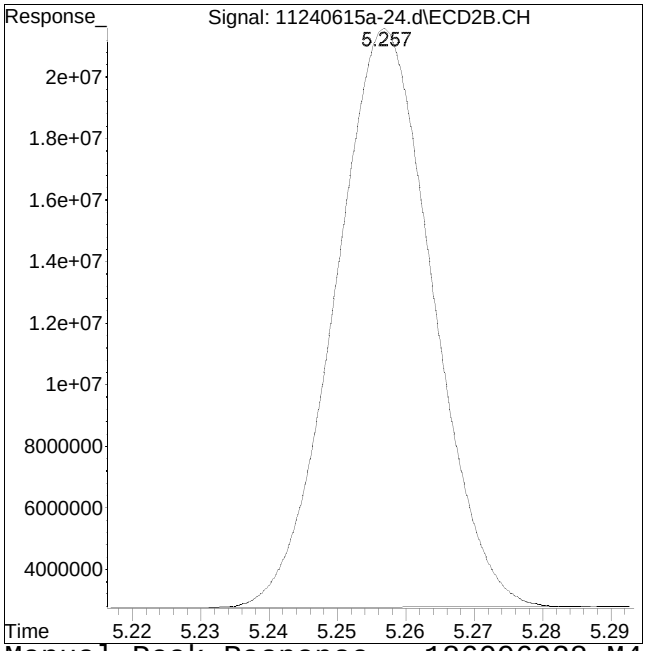
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #58: Endosulfan II #2



Original Peak Response = 186185932



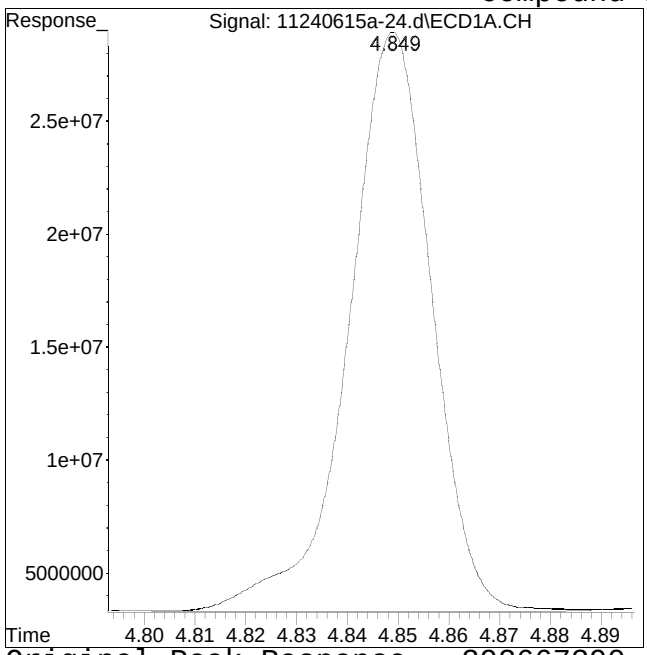
Manual Peak Response = 186006928 M4

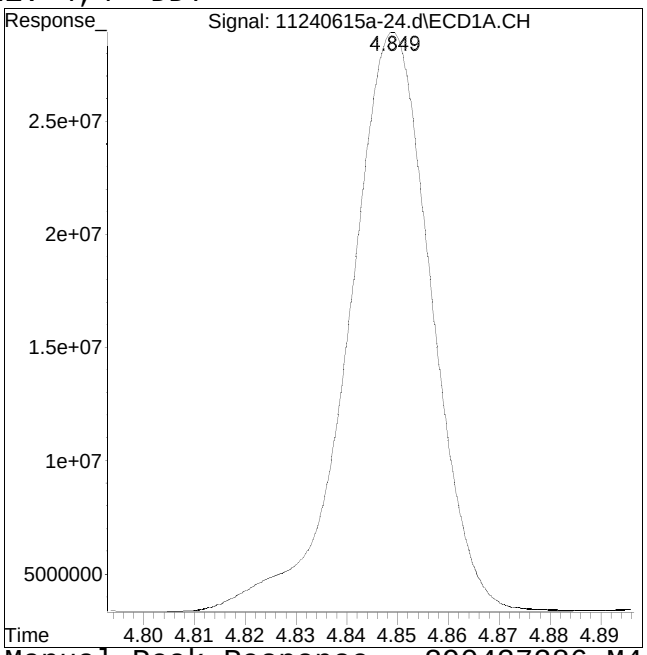
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #21: 4,4'-DDT



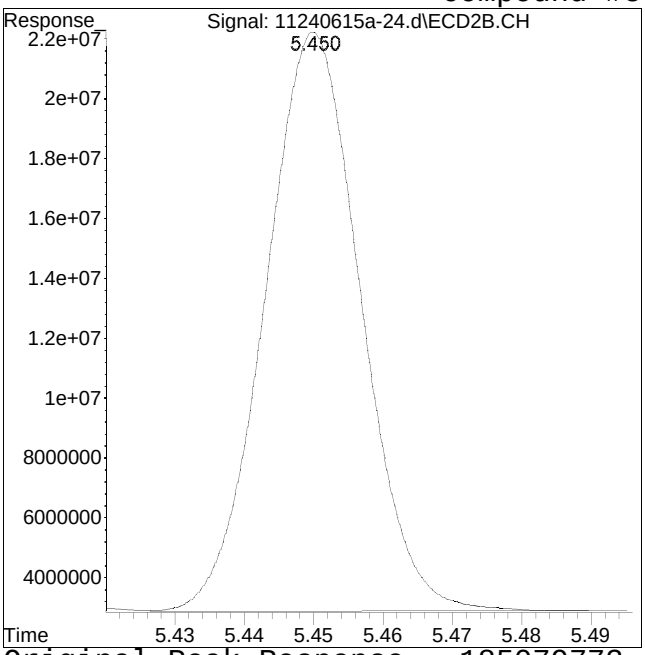


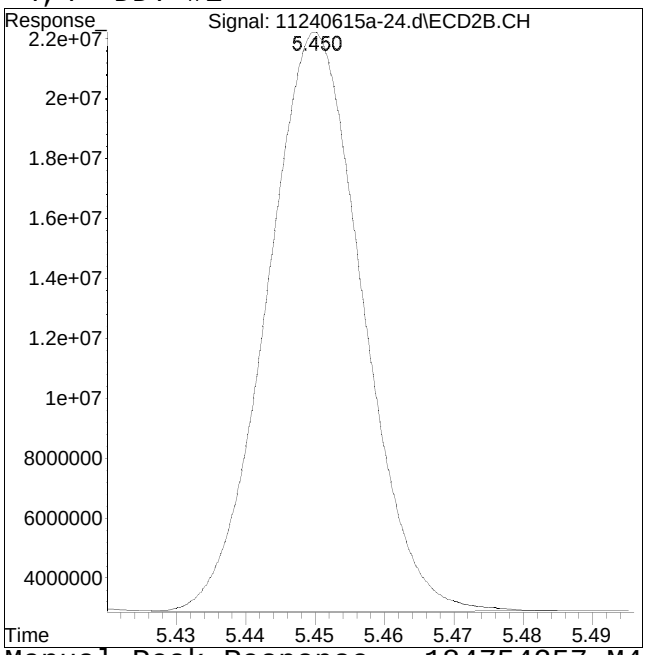
Original Peak Response = 292667390 Manual Peak Response = 290437386 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #59: 4,4'-DDT #2



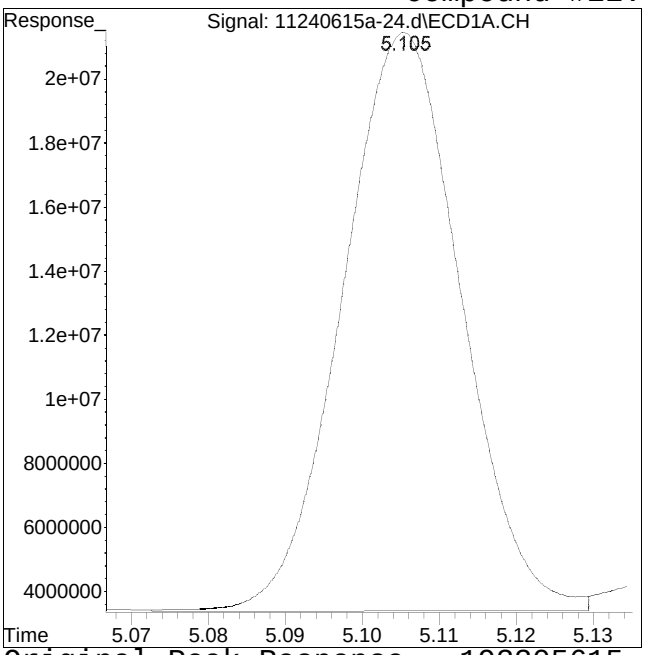


Original Peak Response = 185079773 Manual Peak Response = 184754257 M4
M4 = Poor automated baseline construction.

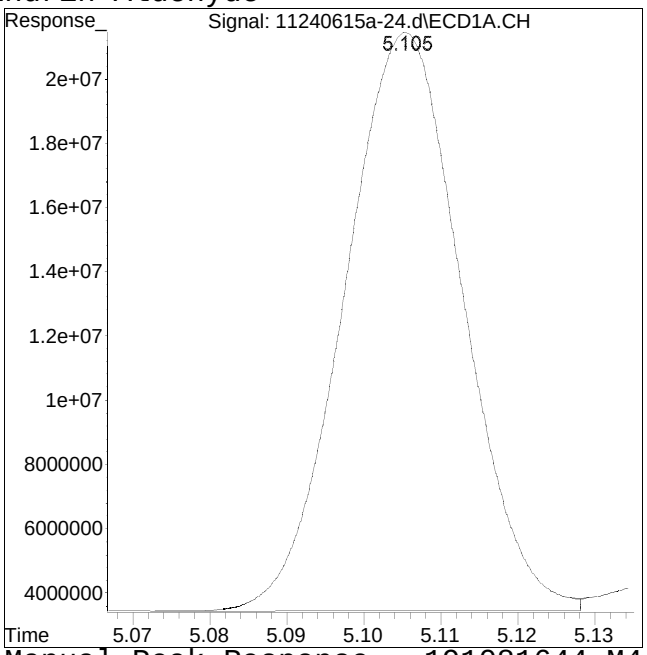
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 193305615



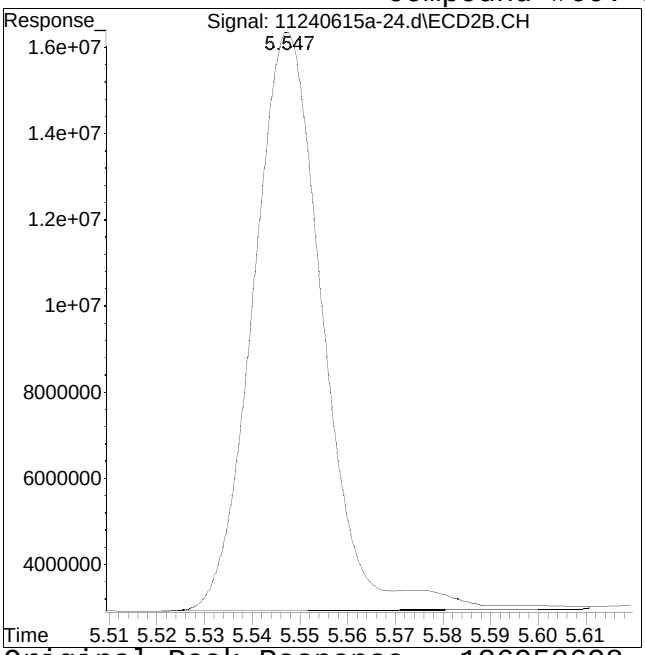
Manual Peak Response = 191081644 M4

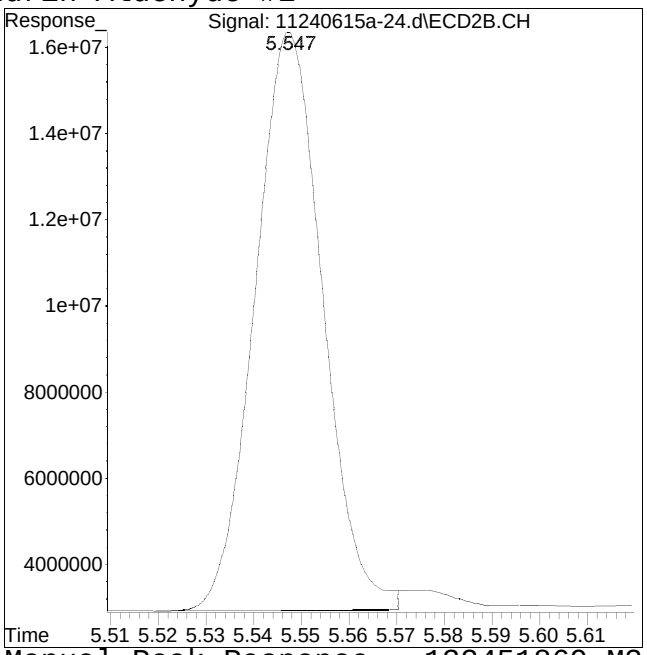
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #60: Endrin Aldehyde #2





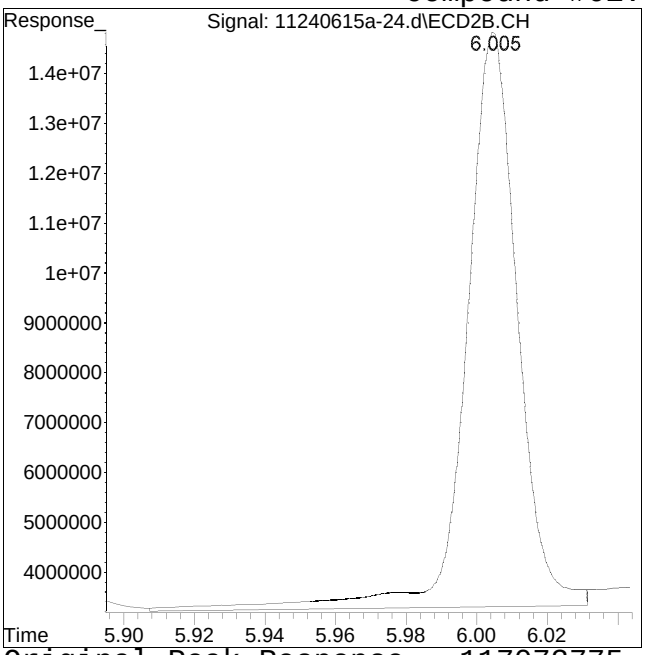
Original Peak Response = 136952628 Manual Peak Response = 132451869 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

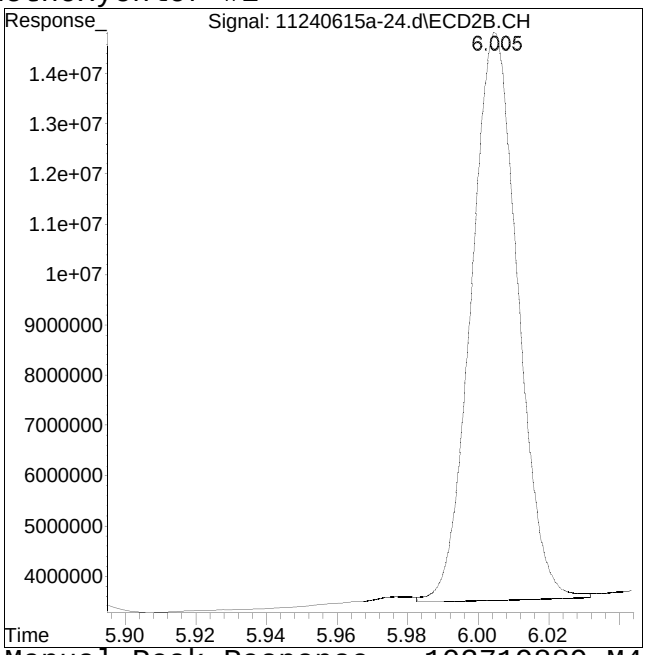
Data Path : I:\PEST\Pest11\2024\240615Q
Data File : 11240615a-24.d
Date Inj'd : 6/15/2024 12:56
Sample : WG1934673-2,42,,

Method : pest11_06_13_24_ugL_ICAL
Operator : PEST11:jag
Instrument : Pest 11
Quant Date : 6/15/2024 1:11 pm

Compound #61: Methoxychlor #2



Original Peak Response = 117073775



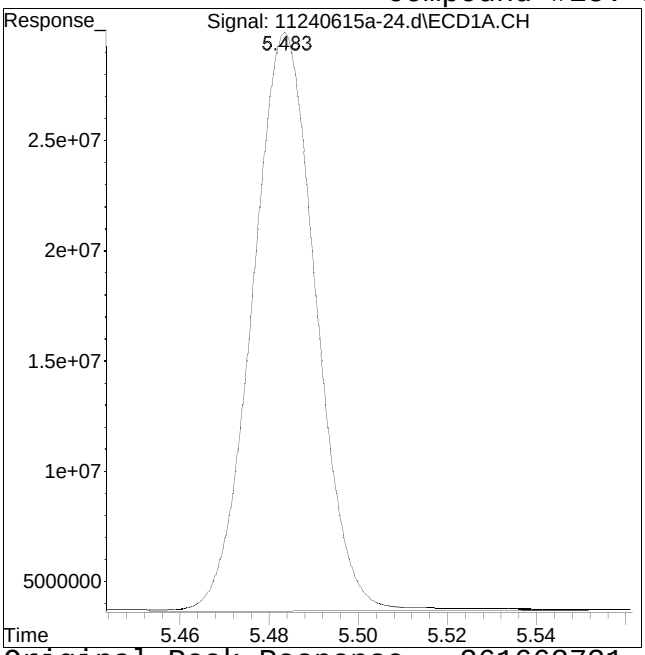
Manual Peak Response = 103719889 M4

M4 = Poor automated baseline construction.

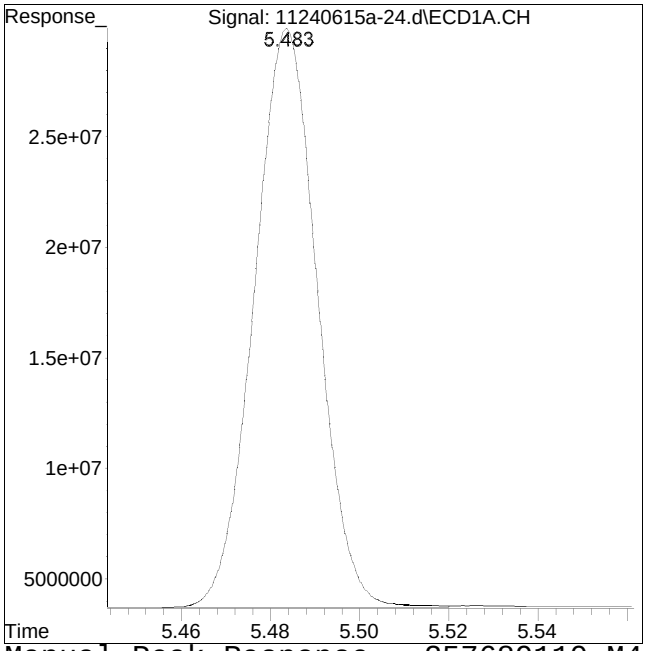
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 261662731



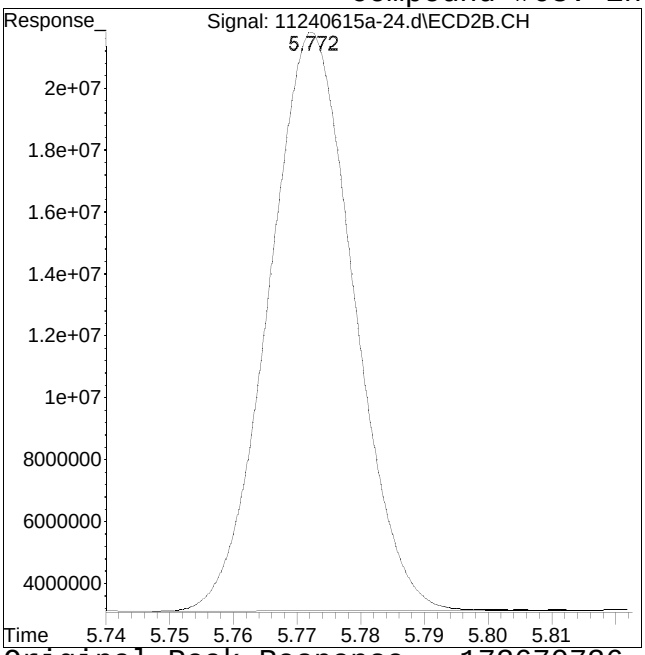
Manual Peak Response = 257689110 M4

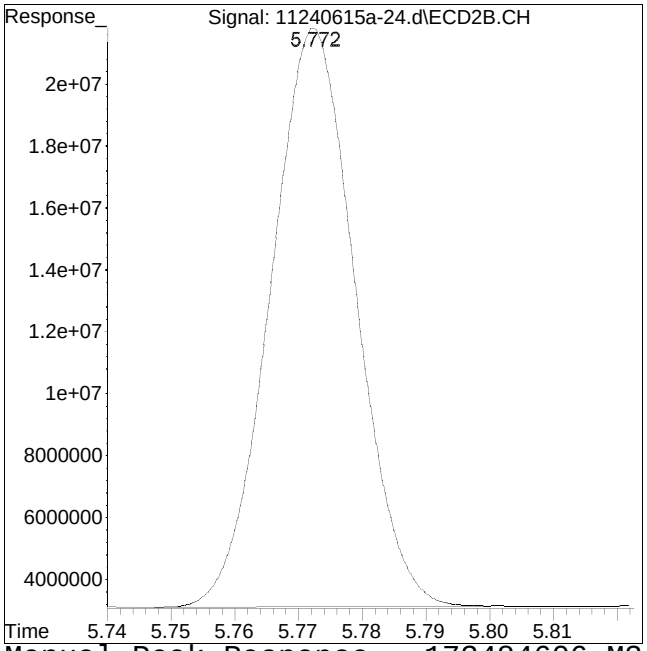
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #63: Endosulfan Sulfate #2



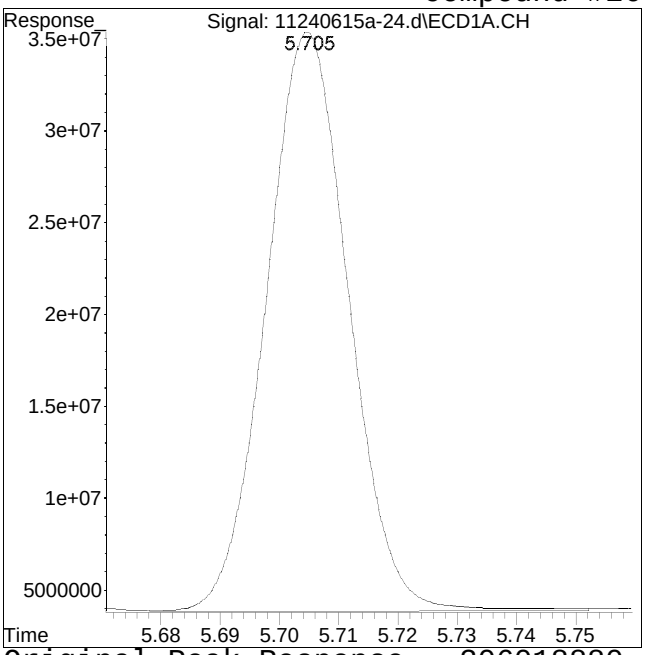


Original Peak Response = 173670736 Manual Peak Response = 173484606 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

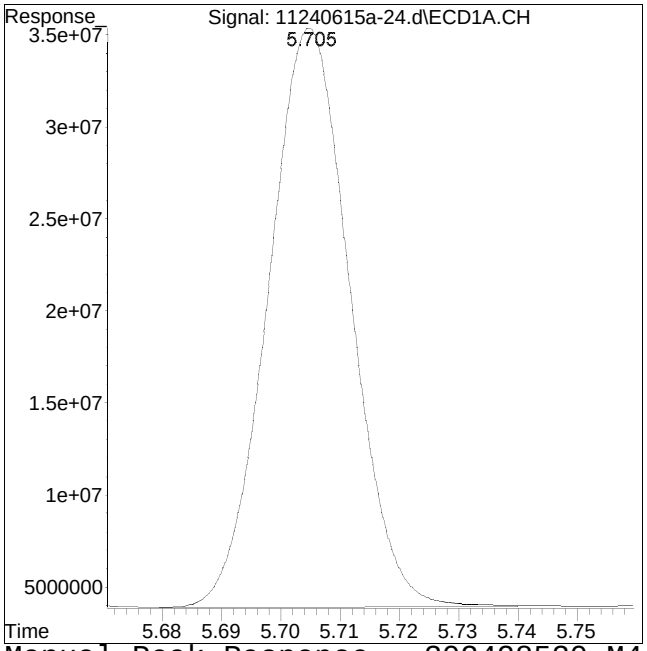
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #26: Endrin Ketone



Original Peak Response = 306018880



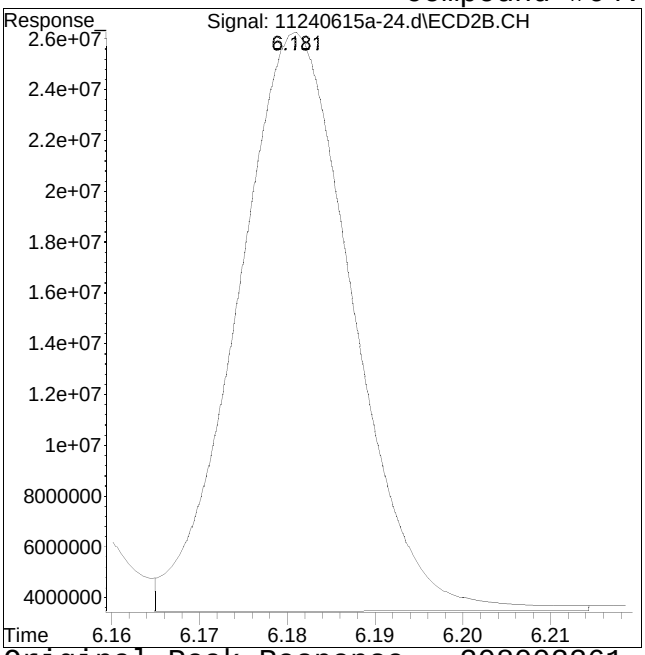
Manual Peak Response = 302428530 M4

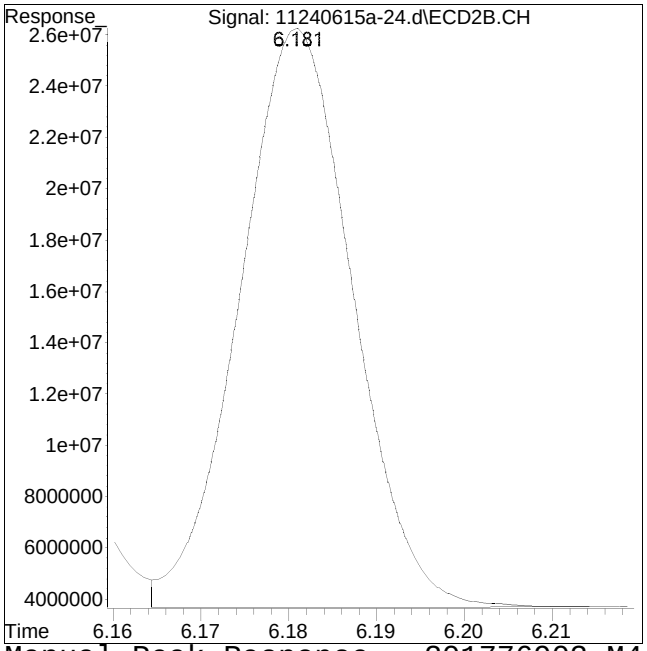
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #64: Endrin Ketone #2



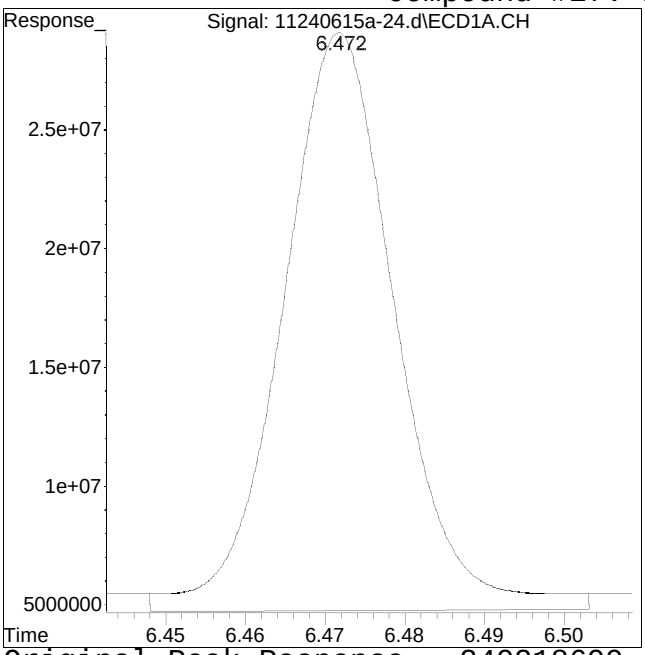


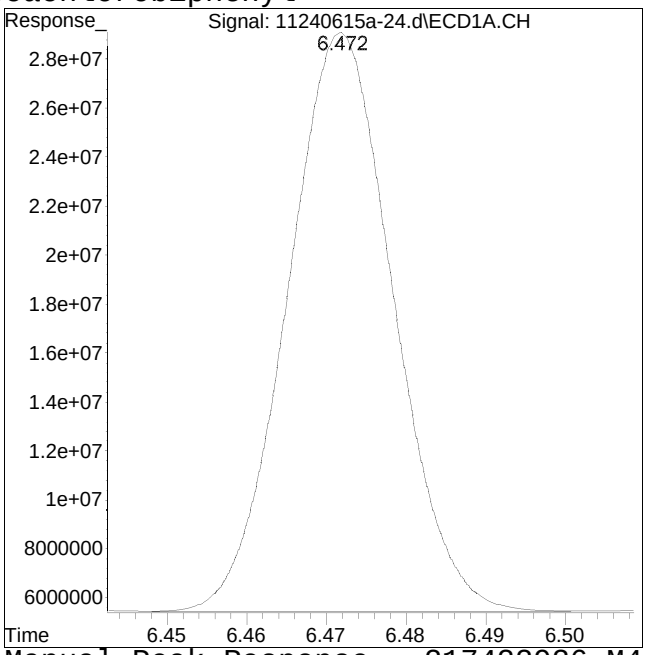
Original Peak Response = 208002361 Manual Peak Response = 201776903 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #27: Decachlorobiphenyl



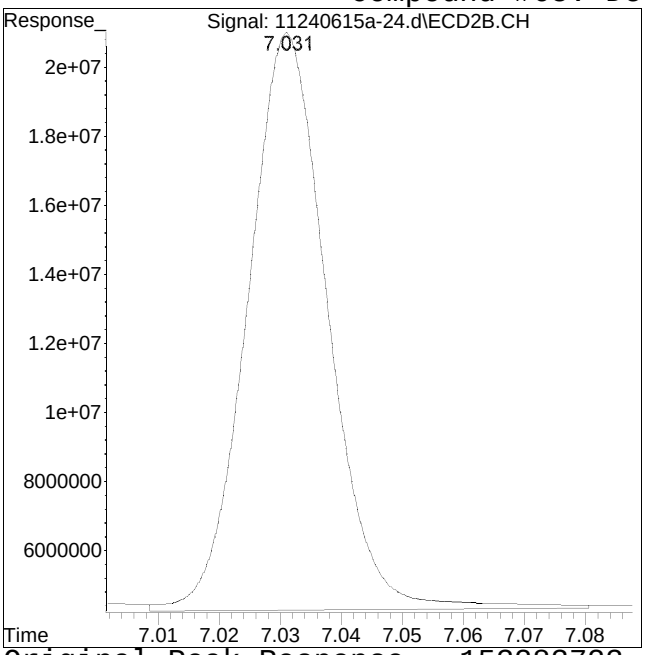


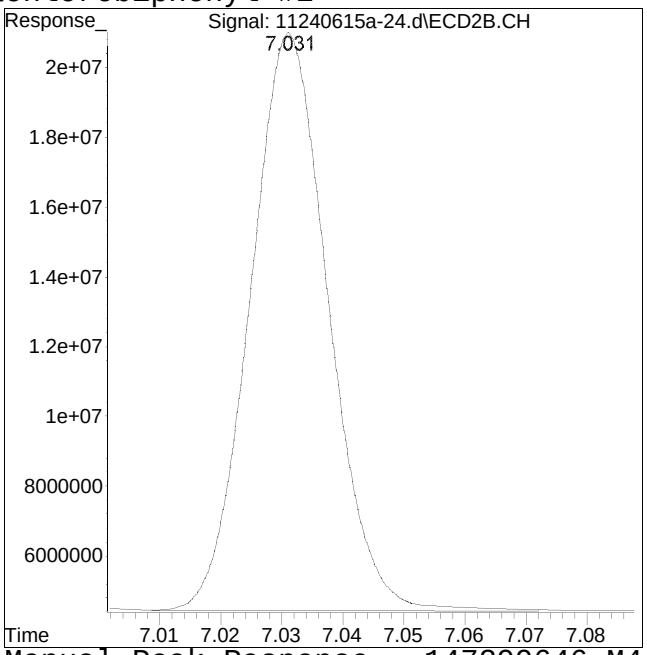
Original Peak Response = 240218699 Manual Peak Response = 217422926 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-24.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 12:56 Instrument : Pest 11
Sample : WG1934673-2,42,, Quant Date : 6/15/2024 1:11 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 153283723 Manual Peak Response = 147299646 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 13:08
Operator : PEST11:jag
Sample : WG1934673-3,42,,
Misc : wg1934790,WG1934673,ical21196 (Sig #1); wg1934790,WG1934401,ical21196 (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:59:17 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.429	1.449	150.8E6	109.2E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 164882076				Recovery =	91.49%	
	Standard Area 1 : #2 = 128250551				Recovery =	85.14%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.796	1.945	239.6E6	179.6E6	35.657M4	35.105M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	71.31%	70.21%	
27) s	Decachlorobi	6.471	7.032	246.0E6	161.6E6	37.689M4	41.163M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =	75.38%	82.33%	
Target Compounds							
4) t	alpha-BHC	2.132	2.379	385.0E6	281.0E6	41.866M4	40.592M4
5) t	gamma-BHC (l	2.349	2.675	353.3E6	258.4E6	40.227M4	39.294M3
6) t	beta-BHC	2.406	2.741	159.8E6	119.9E6	38.057M4	37.037M4
7) t	delta-BHC	2.545	3.018	312.7E6	226.4E6	36.457M4	34.783M4
8) t	Heptachlor	2.718	3.086	356.8E6	257.5E6	38.786M3	37.923M4
9) t	Aldrin	2.977	3.416	325.2E6	232.6E6	38.855M4	37.851M4
12) t	Heptachlor E	3.554	4.048	325.5E6	227.1E6	39.864M4	37.047M4
13) t	gamma-Chlord	3.682	4.269	329.5E6	238.3E6	43.818M4	42.983M4
14) t	alpha-Chlord	3.823	4.432	323.6E6	230.8E6	38.037M3	37.059M4
15) t	4,4'-DDE	3.918	4.619	311.2E6	224.2E6	39.963M4	39.364M4
16) t	Endosulfan I	3.970	4.491	305.2E6	215.4E6	39.246M4	37.641M4
17) t	Dieldrin	4.238	4.773	343.8E6	240.6E6	44.200M4	42.391M4
18) t	Endrin	4.481	5.064	330.1E6	227.6E6	41.932M3	39.683M4
19) t	4,4'-DDD	4.573	5.178	276.5E6	192.5E6	44.045M4	41.696M4
20) t	Endosulfan I	4.706	5.257	288.8E6	196.6E6	39.410M4	37.168M4
21) t	4,4'-DDT	4.849	5.450	305.4E6	201.5E6	41.445M4	37.676M4

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 13:08
Operator : PEST11:jag
Sample : WG1934673-3,42,,
Misc : wg1934790,WG1934673,ical21196 (Sig #1); wg1934790,WG1934401,ical21196 (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:59:17 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240615A\11240615a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	5.105	5.547	190.5E6	132.9E6	31.734M4	29.779M3
23) t Methoxychlor	5.307	6.005	172.7E6	110.0E6	40.854M3	41.082M4
25) t Endosulfan S	5.483	5.772	265.3E6	177.6E6	36.733M4	34.420M4
26) t Endrin Keton	5.704	6.181	322.2E6	216.1E6	42.243M4	38.349M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

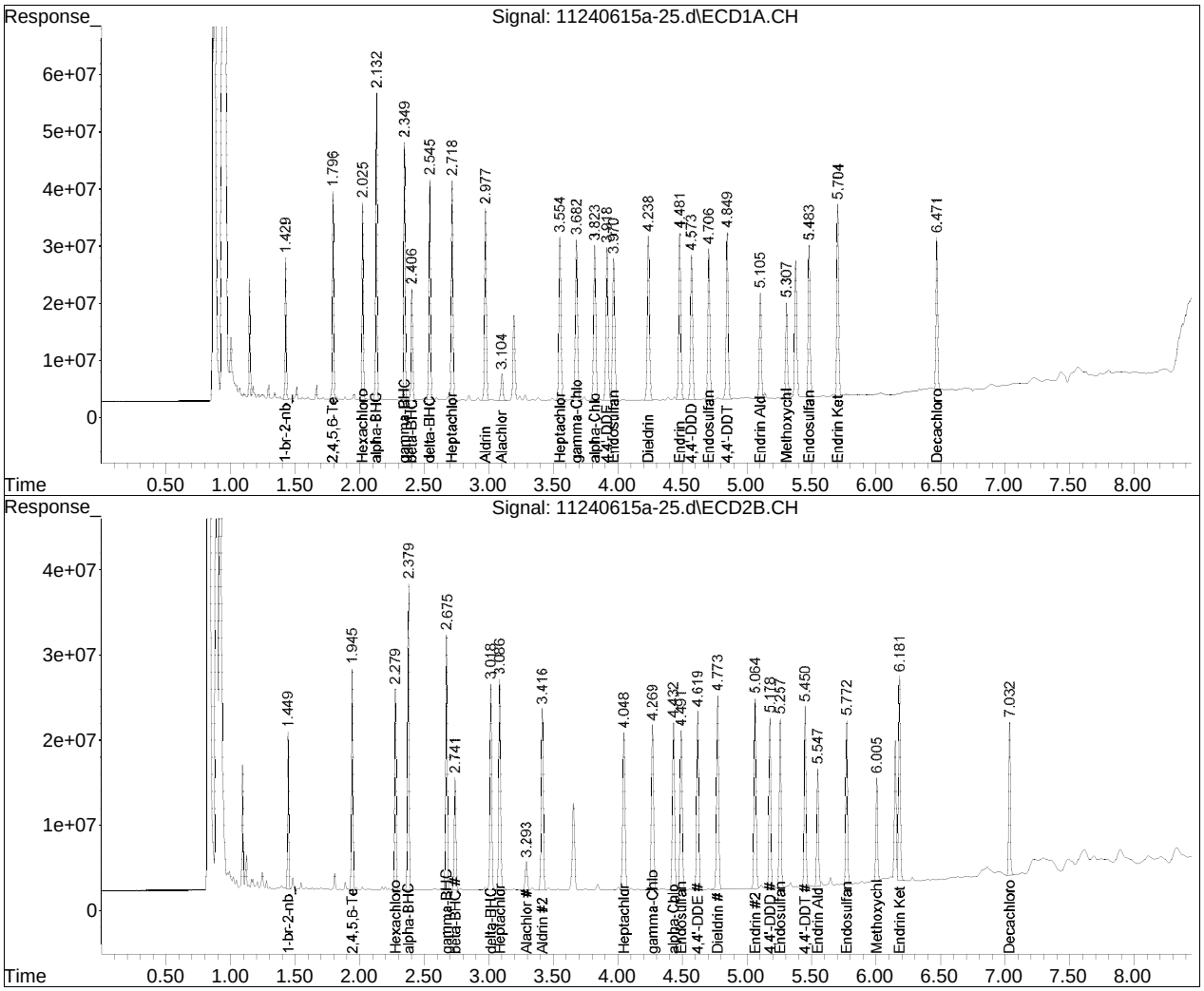
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240615A\11240615a-03.d•

Data Path : I:\PEST\Pest11\2024\240615A\
Data File : 11240615a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Jun 2024 13:08
Operator : PEST11:jag
Sample : WG1934673-3,42,,
Misc : wg1934790,WG1934673,ical21196 (Sig #1); wg1934790,WG1934401,ical21
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 15 13:59:17 2024
Quant Method : I:\PEST\Pest11\2024\240615A\pest11_06_13_24_ugL_ICAL21196.M
Quant Title : pest
QLast Update : Sat Jun 15 08:52:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

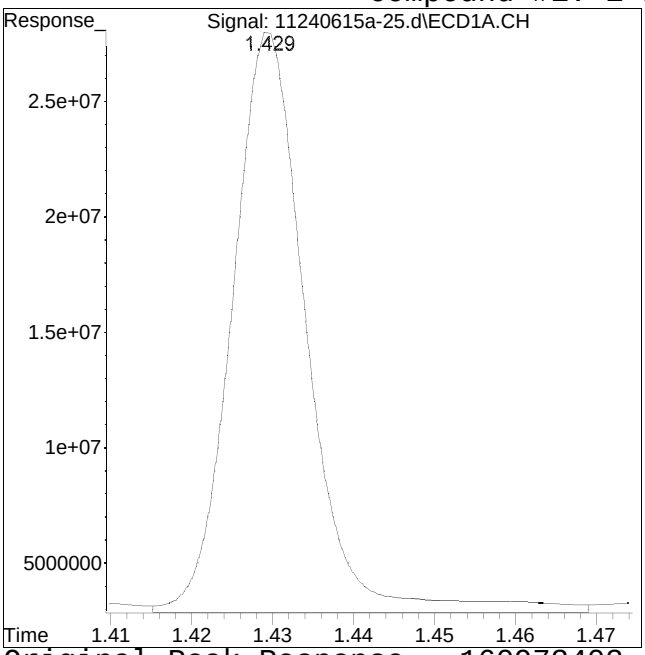
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

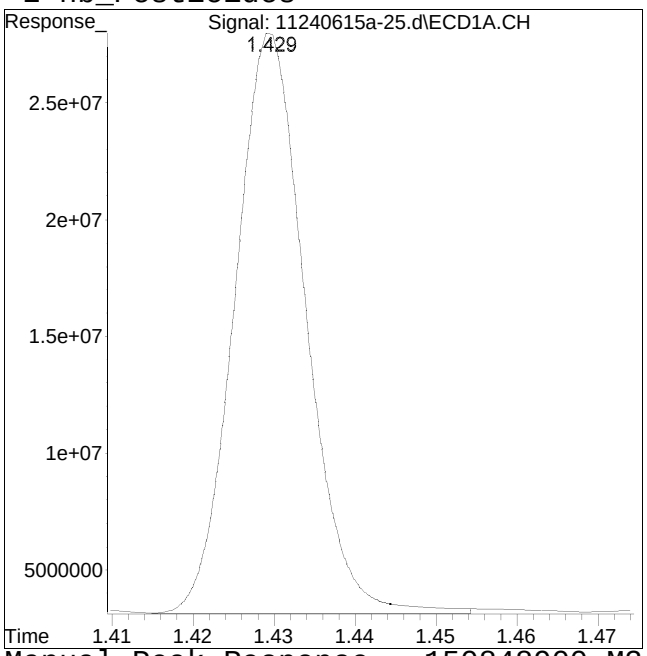


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #1: 1-br-2-nb_Pesticides



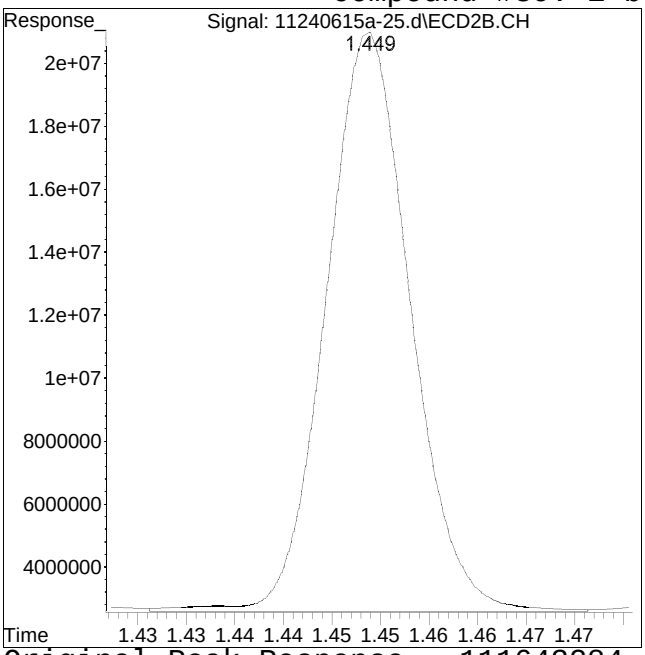


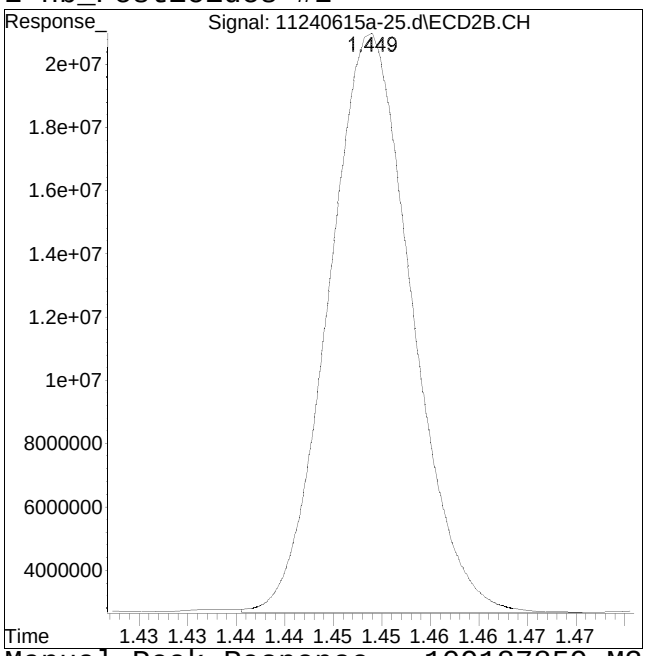
Original Peak Response = 160973403 Manual Peak Response = 150848900 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #39: 1-br-2-nb_Pesticides #2



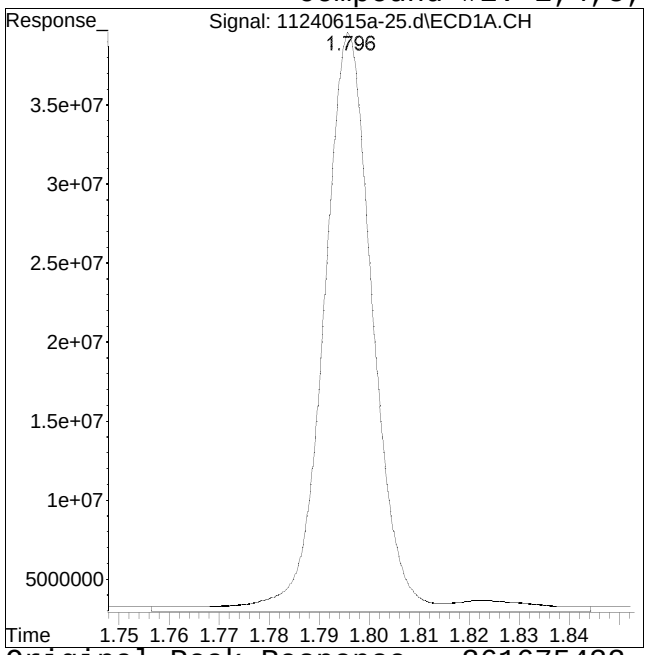


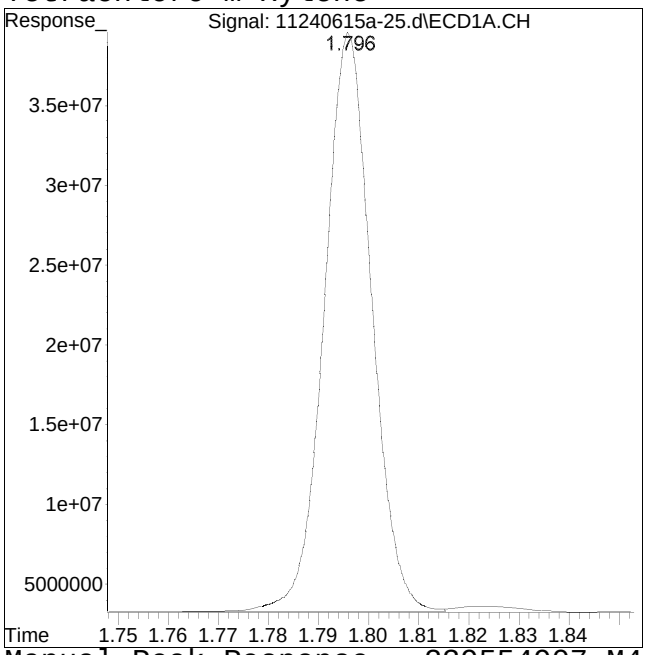
Original Peak Response = 111643284 Manual Peak Response = 109187859 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



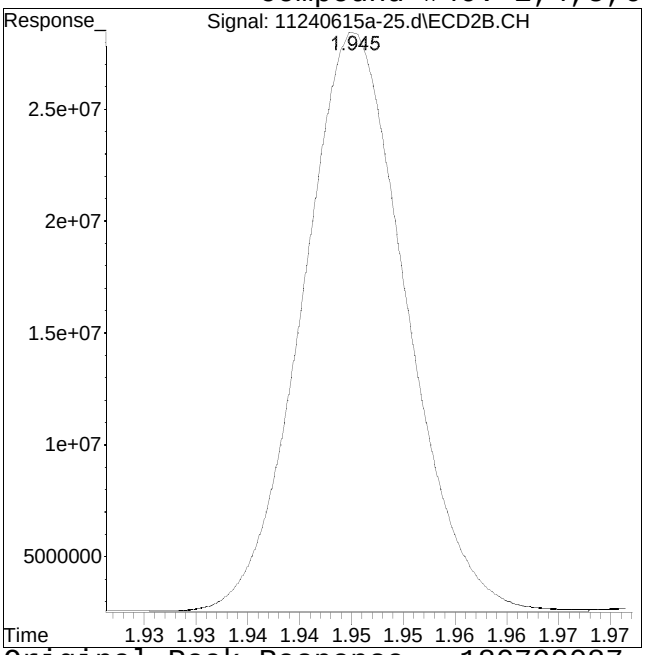


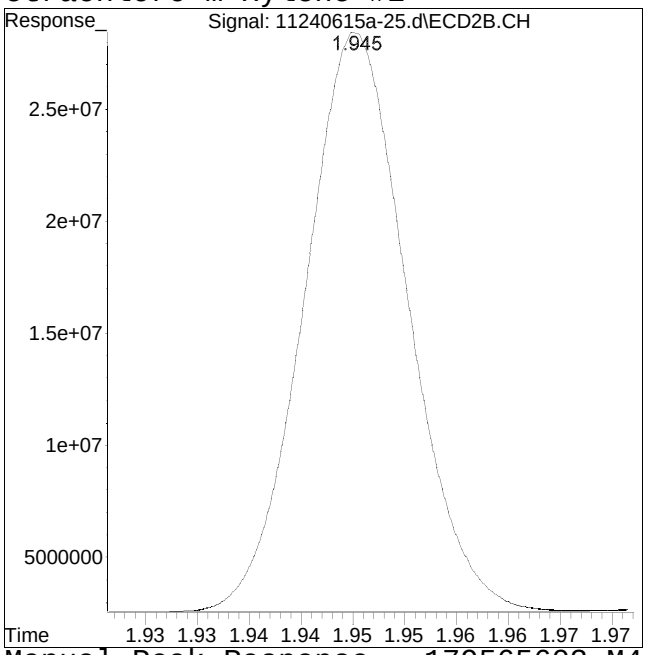
Original Peak Response = 261675432 Manual Peak Response = 239554907 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



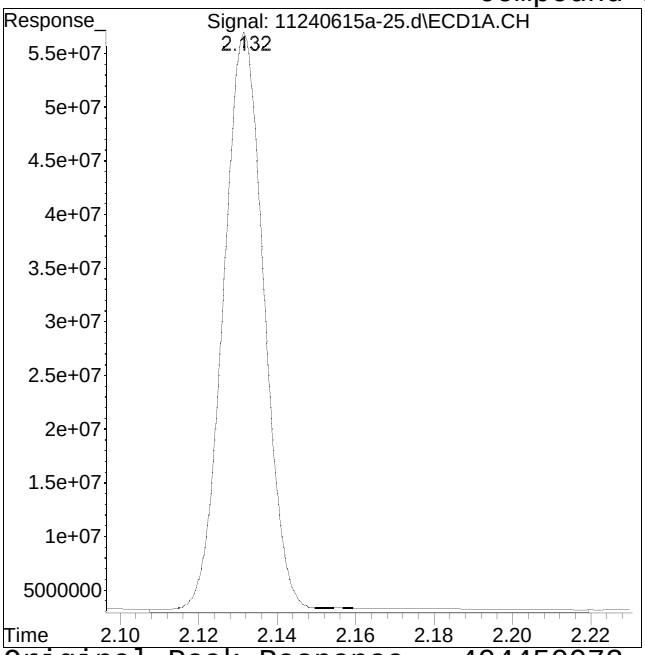


Original Peak Response = 180799087 Manual Peak Response = 179565603 M4
M4 = Poor automated baseline construction.

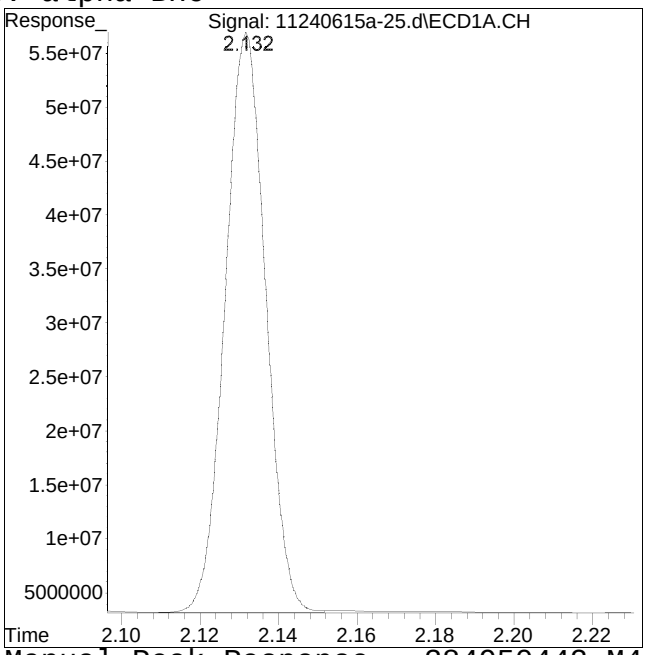
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #4: alpha-BHC



Original Peak Response = 404450973



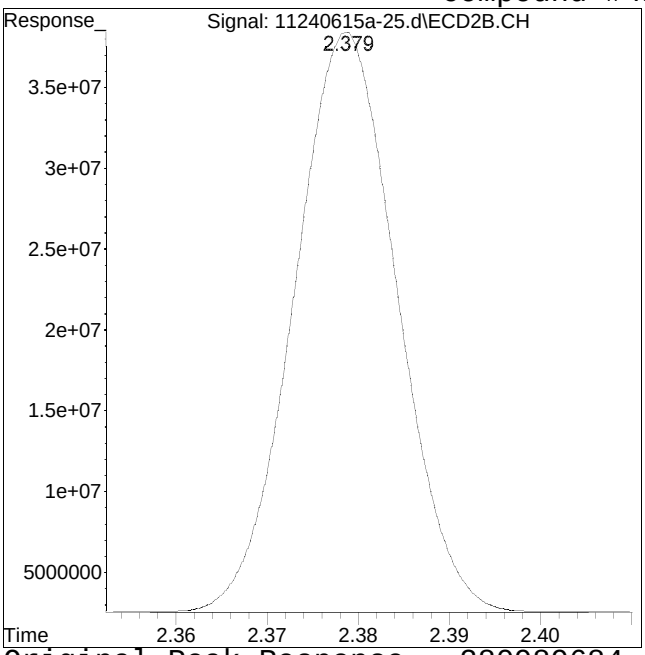
Manual Peak Response = 384950442 M4

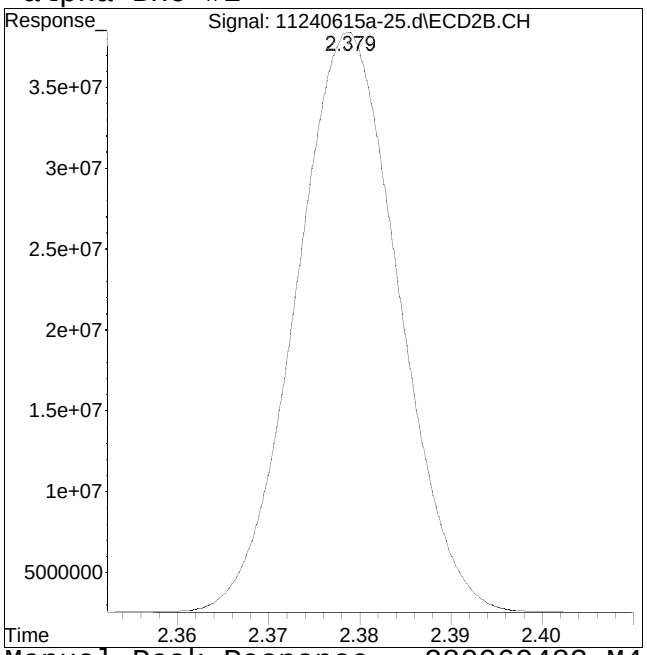
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #42: alpha-BHC #2



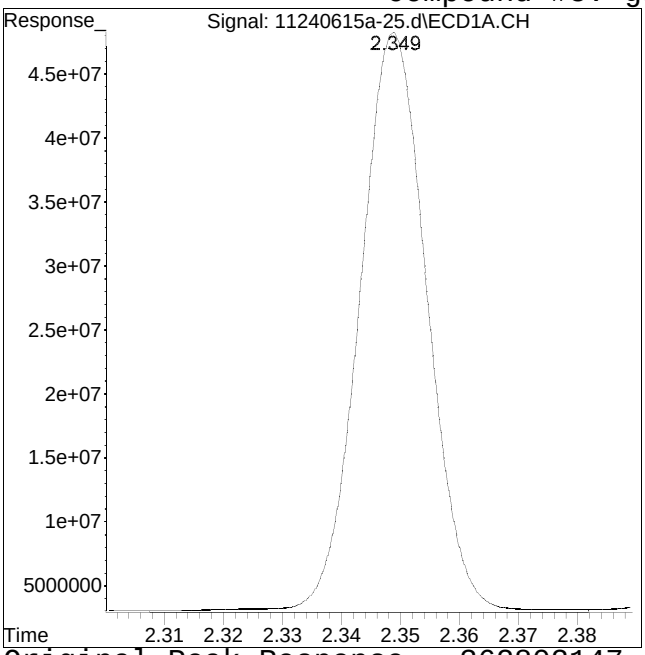


Original Peak Response = 280989684 Manual Peak Response = 280960483 M4
M4 = Poor automated baseline construction.

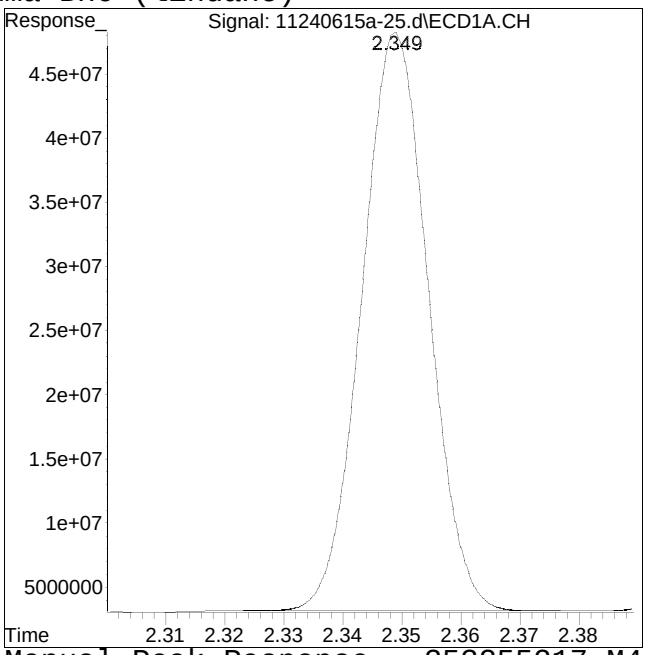
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 362802147



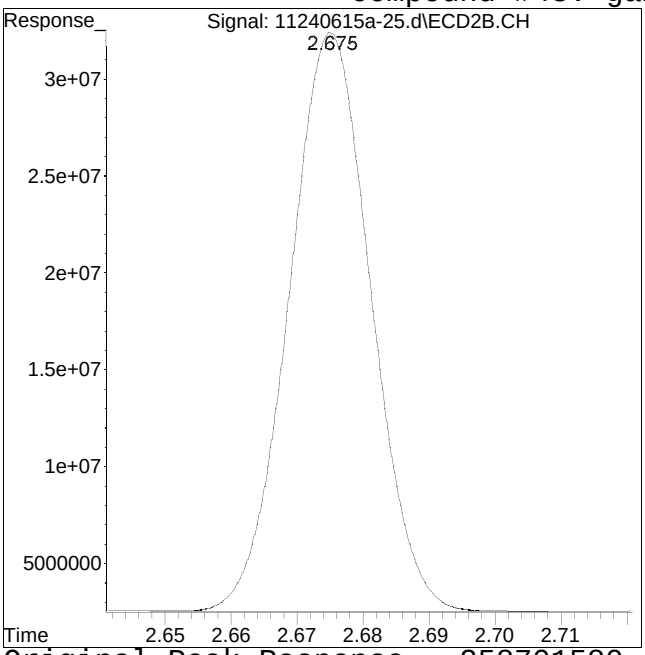
Manual Peak Response = 353255217 M4

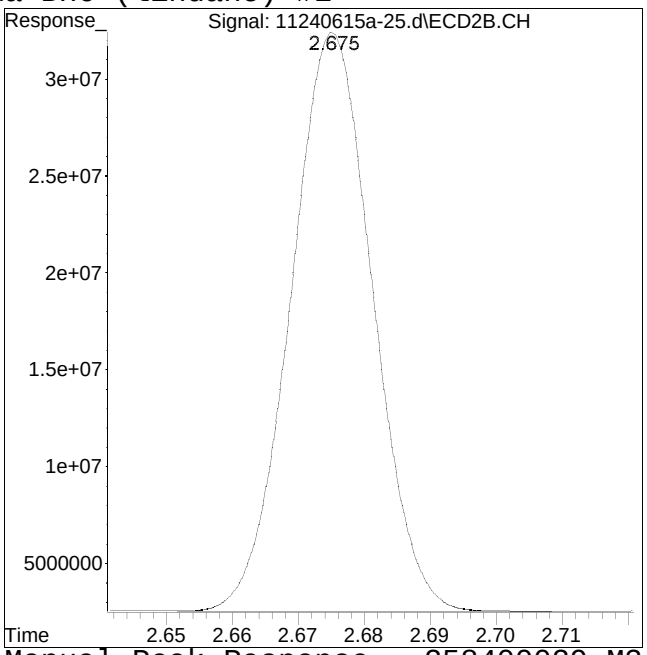
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #43: gamma-BHC (lindane) #2



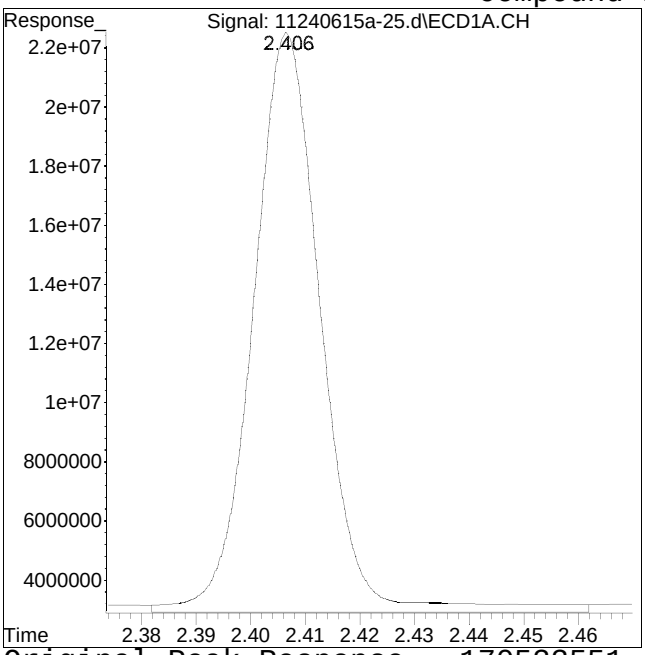


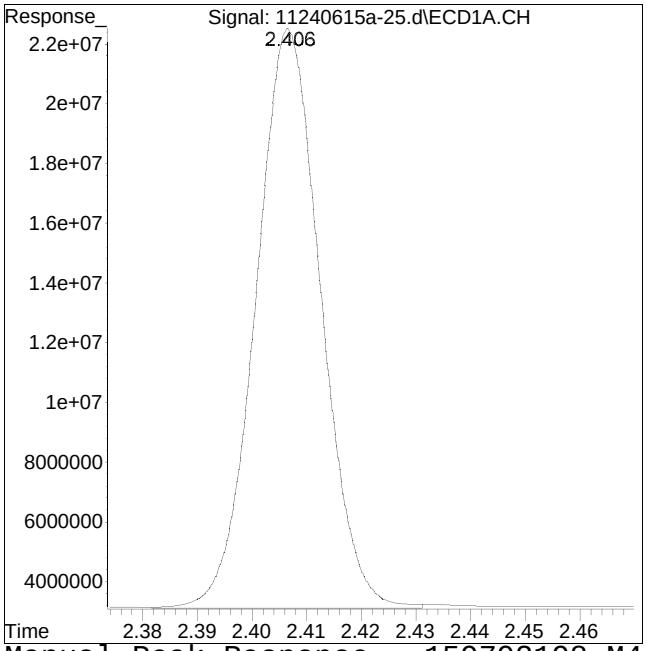
Original Peak Response = 258701580 Manual Peak Response = 258400029 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #6: beta-BHC



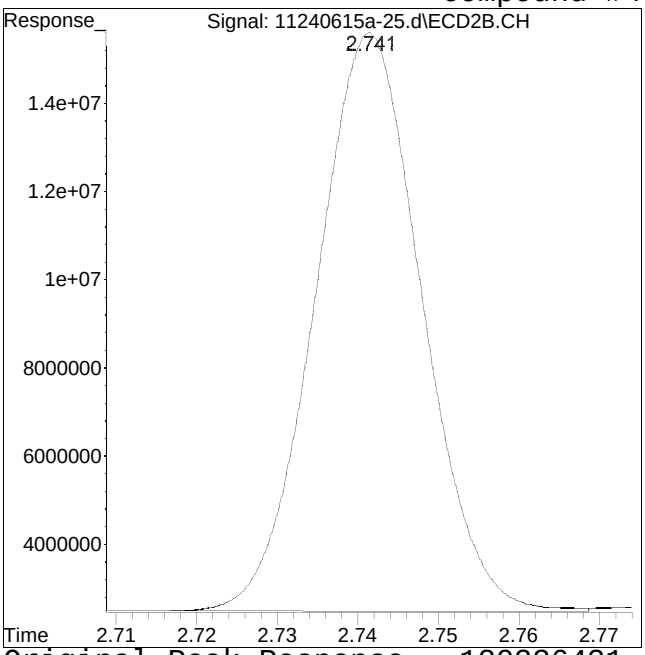


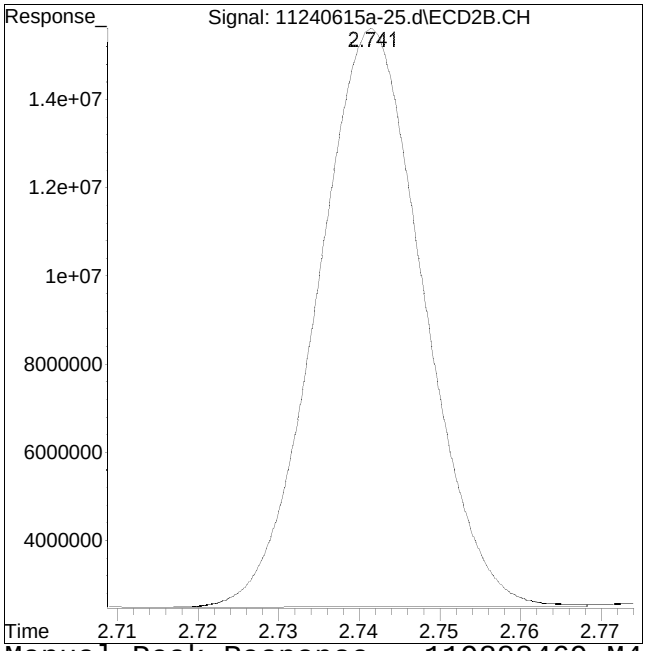
Original Peak Response = 170533551 Manual Peak Response = 159792198 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #44: beta-BHC #2



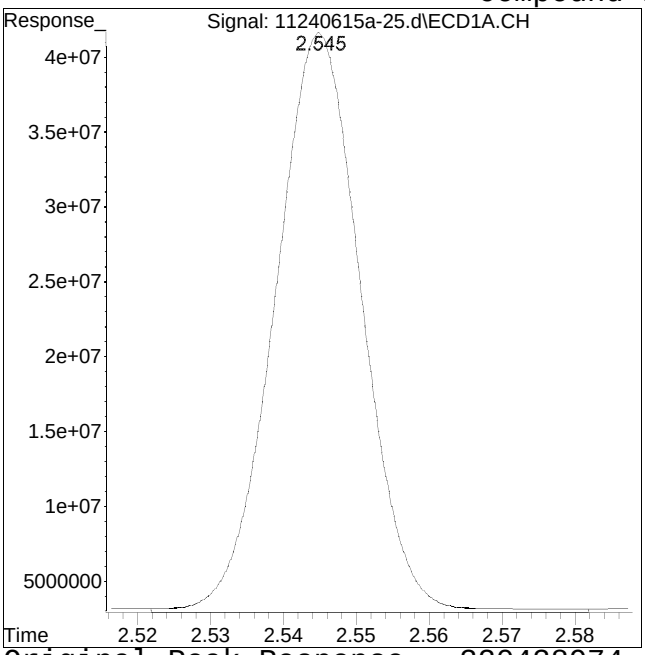


Original Peak Response = 120336431 Manual Peak Response = 119888469 M4
M4 = Poor automated baseline construction.

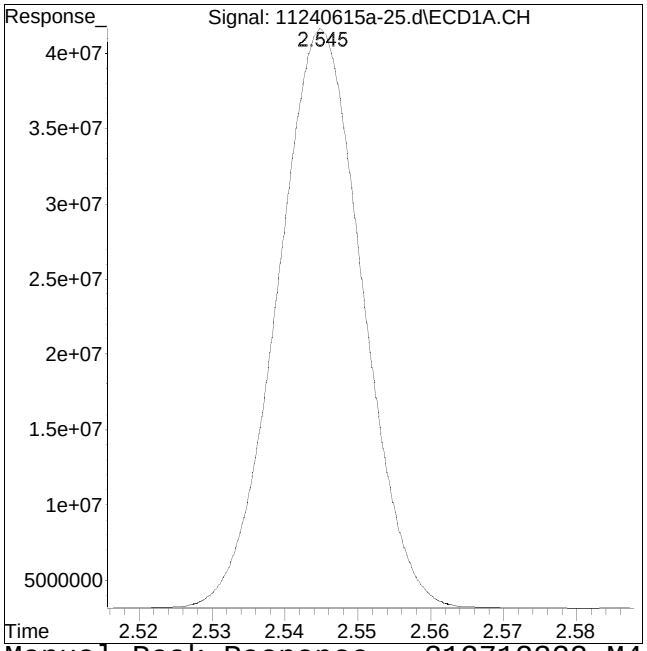
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #7: delta-BHC



Original Peak Response = 320438974



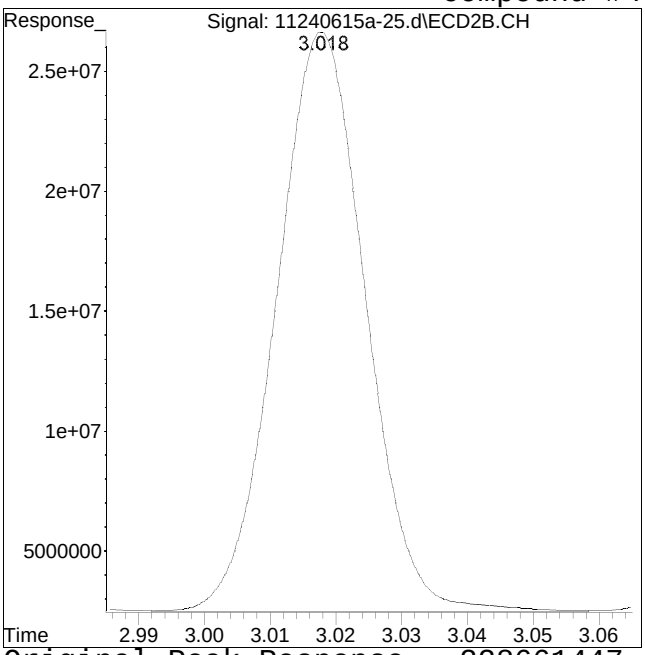
Manual Peak Response = 312712322 M4

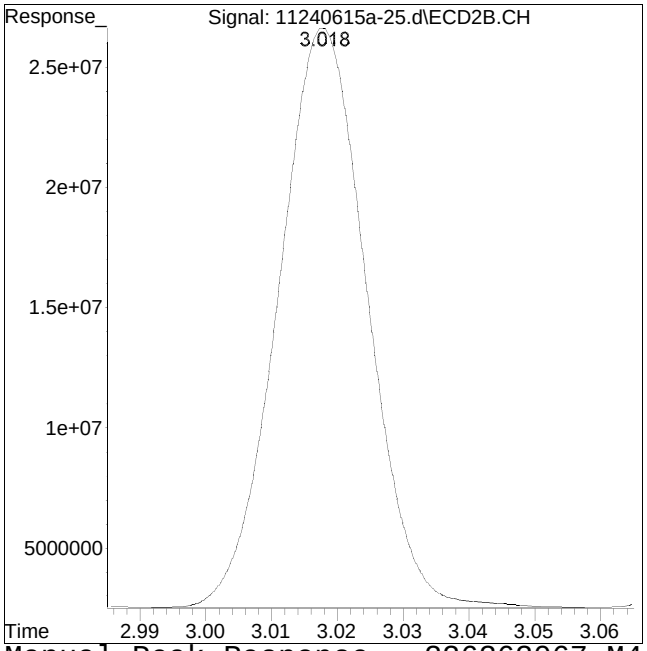
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #45: delta-BHC #2



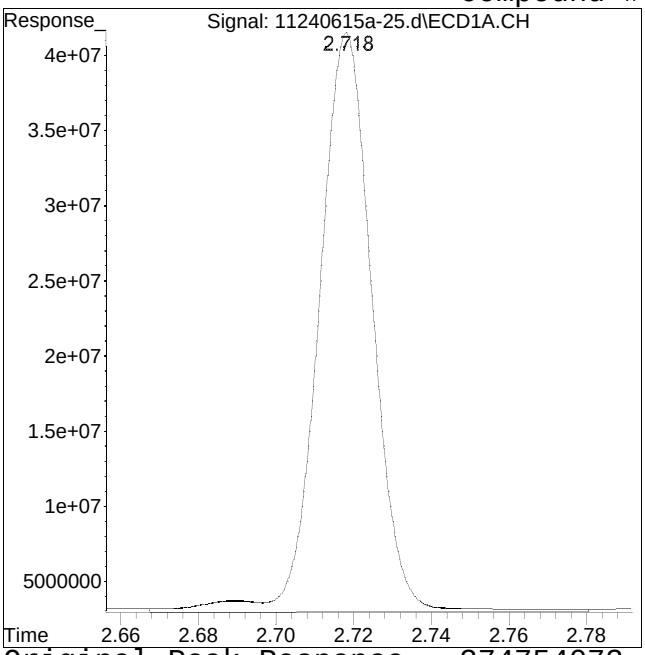


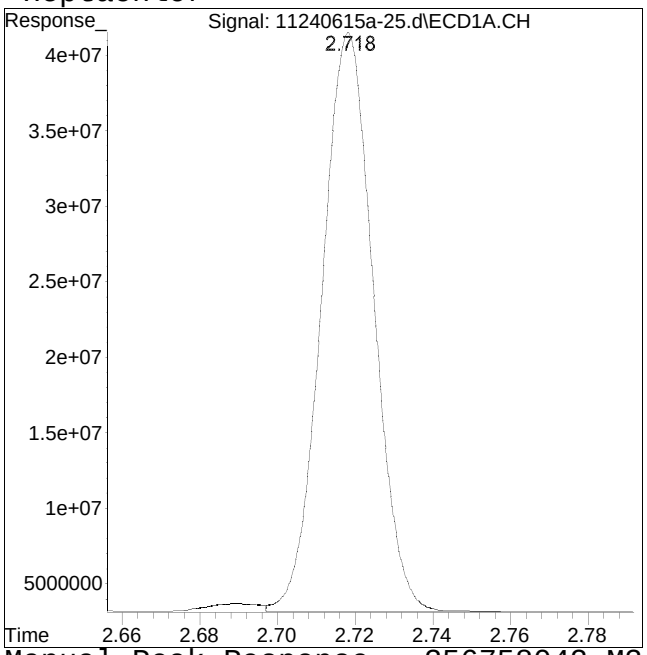
Original Peak Response = 228661447 Manual Peak Response = 226363067 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #8: Heptachlor



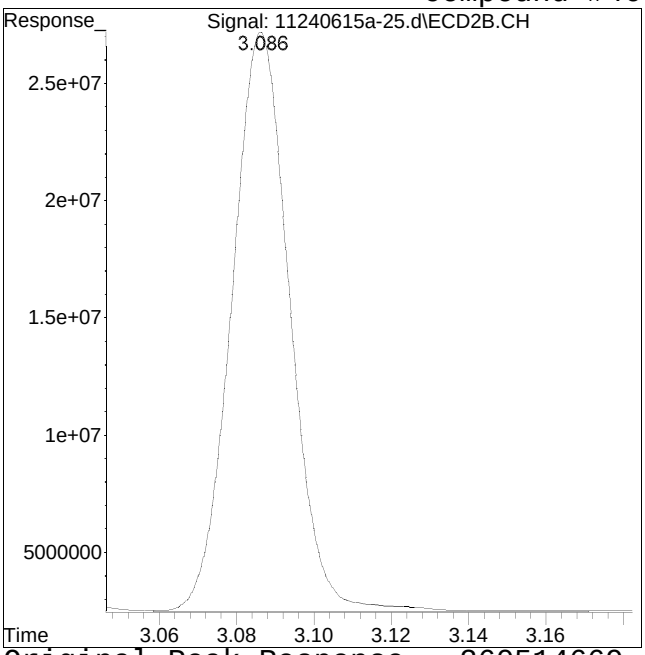


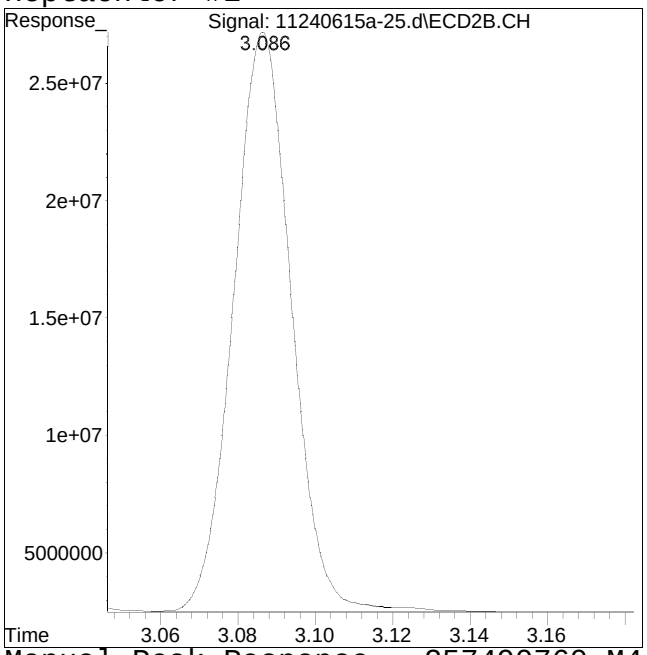
Original Peak Response = 374754073 Manual Peak Response = 356758042 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #46: Heptachlor #2



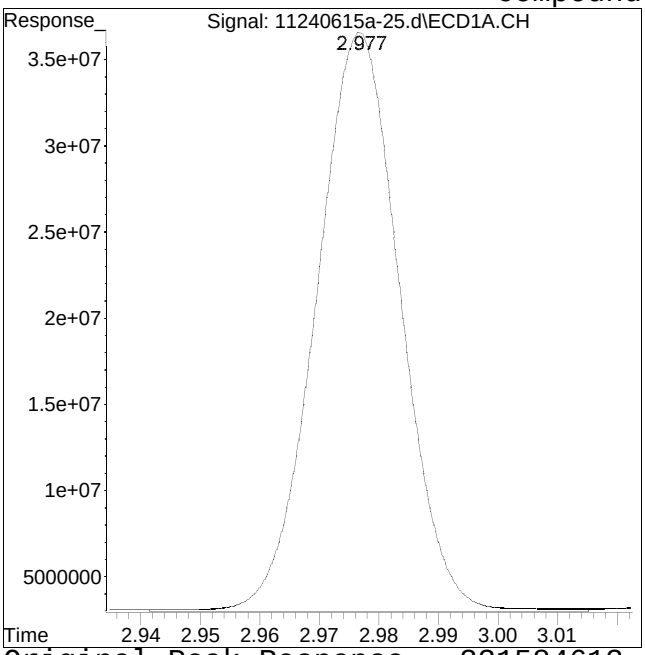


Original Peak Response = 260514669 Manual Peak Response = 257490760 M4
M4 = Poor automated baseline construction.

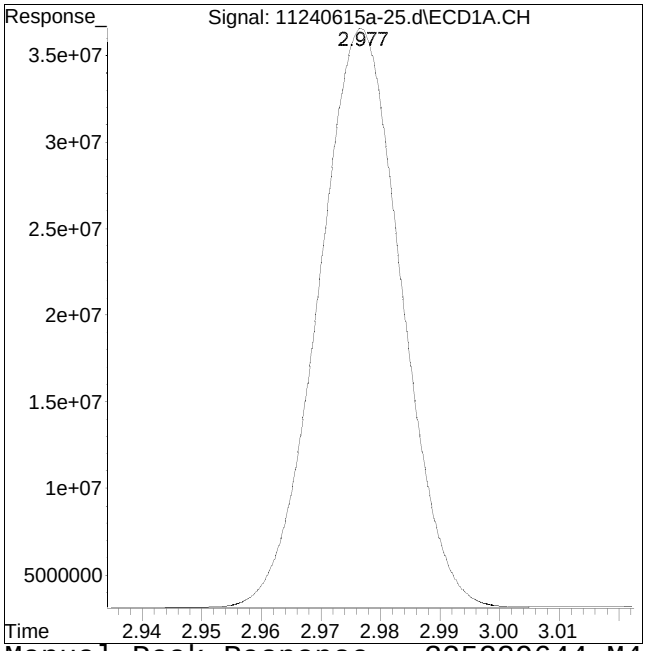
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #9: Aldrin



Original Peak Response = 331584613



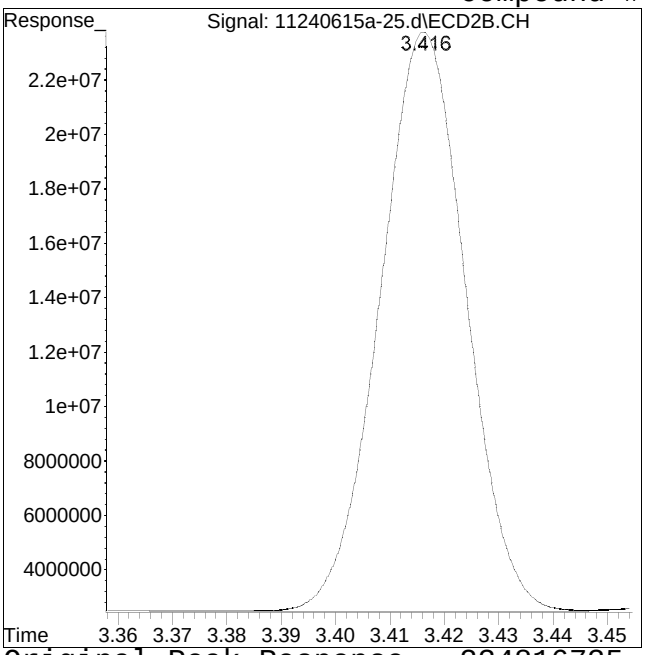
Manual Peak Response = 325229644 M4

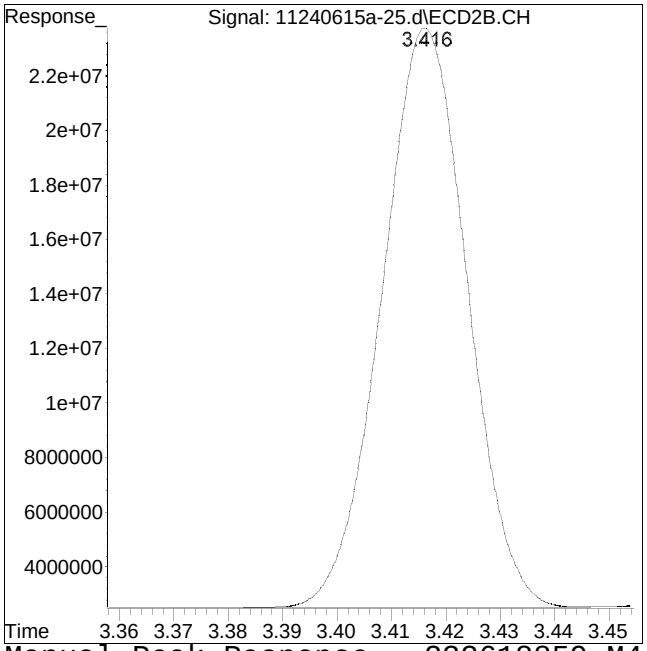
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #47: Aldrin #2



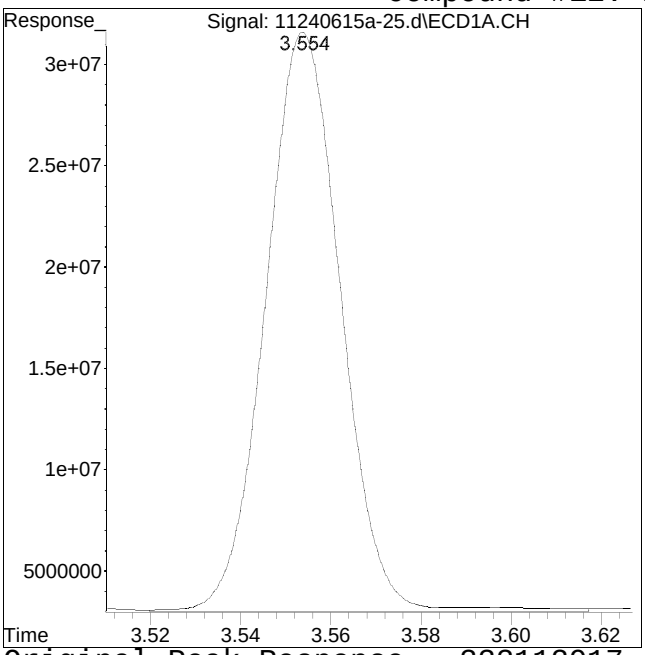


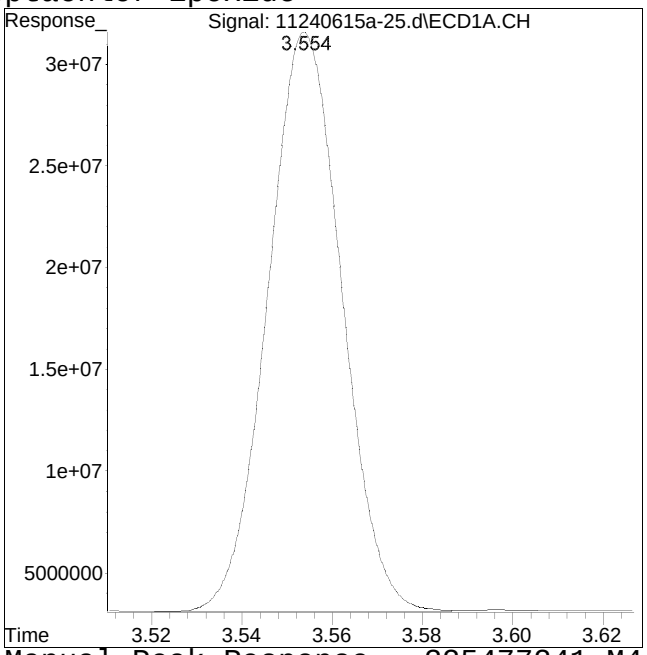
Original Peak Response = 234816735 Manual Peak Response = 232618859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #12: Heptachlor Epoxide



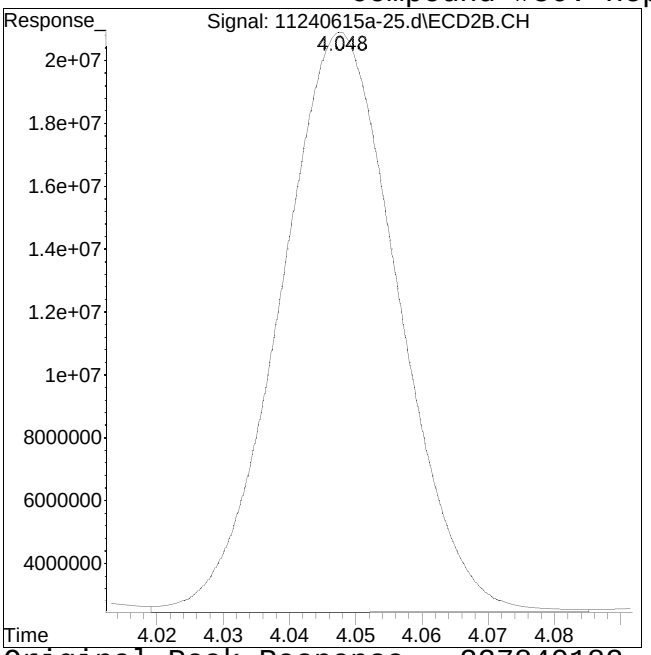


Original Peak Response = 333112917 Manual Peak Response = 325477241 M4
M4 = Poor automated baseline construction.

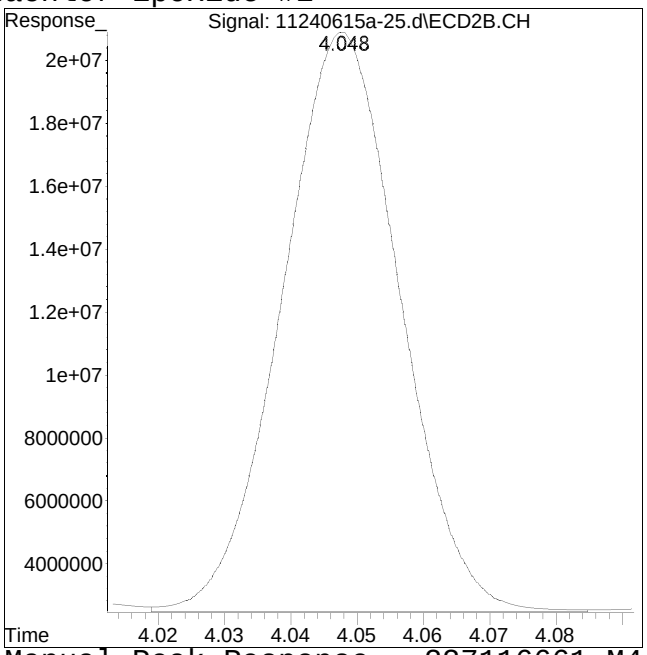
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 227840182



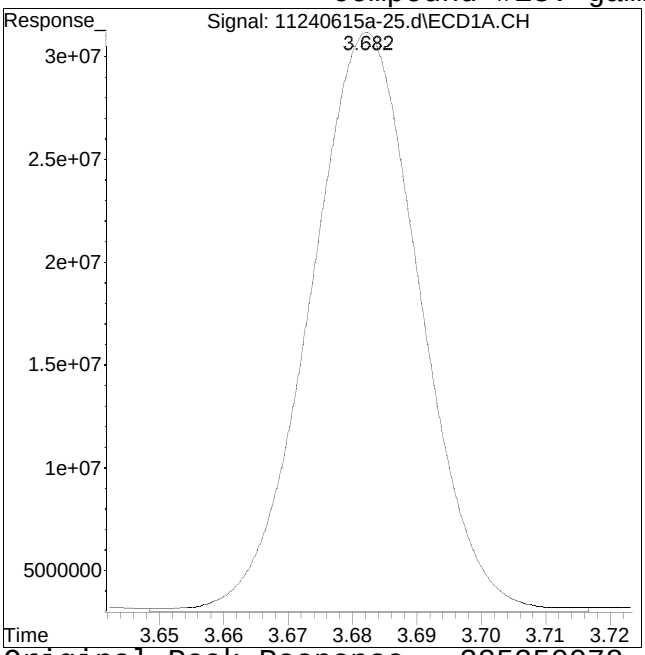
Manual Peak Response = 227116661 M4

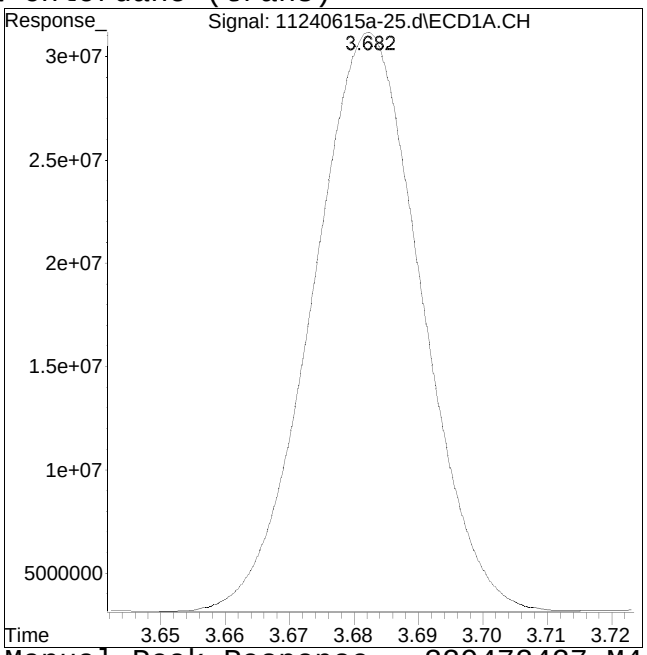
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #13: gamma-Chlordane (trans)



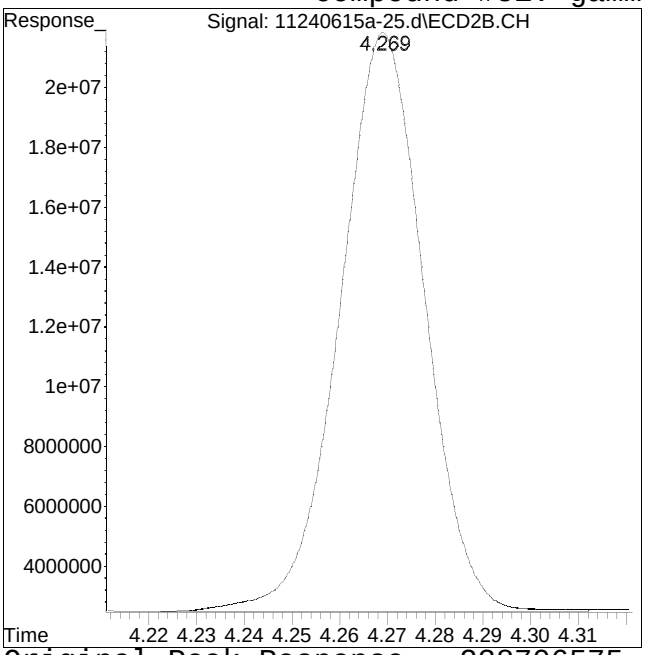


Original Peak Response = 335350978 Manual Peak Response = 329472427 M4
M4 = Poor automated baseline construction.

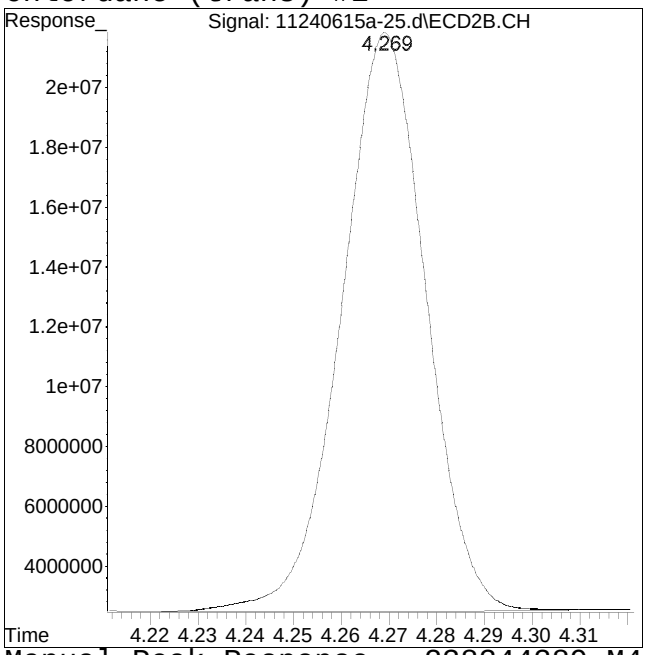
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 238706575



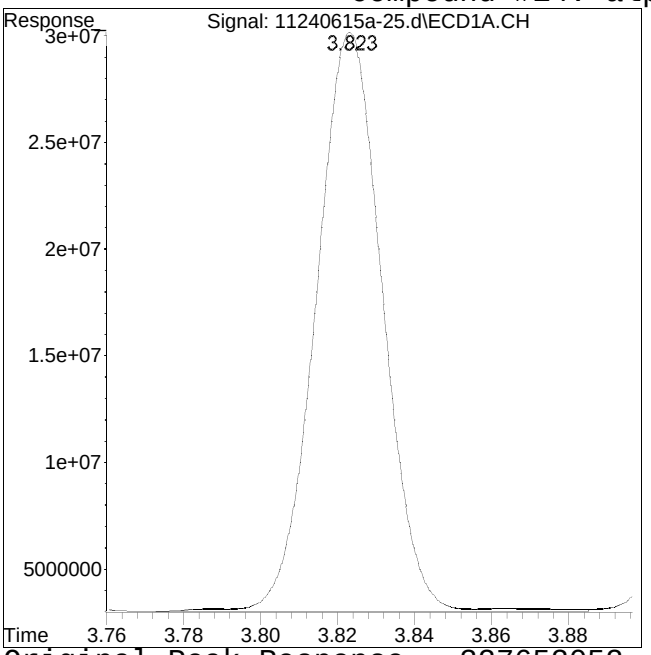
Manual Peak Response = 238344389 M4

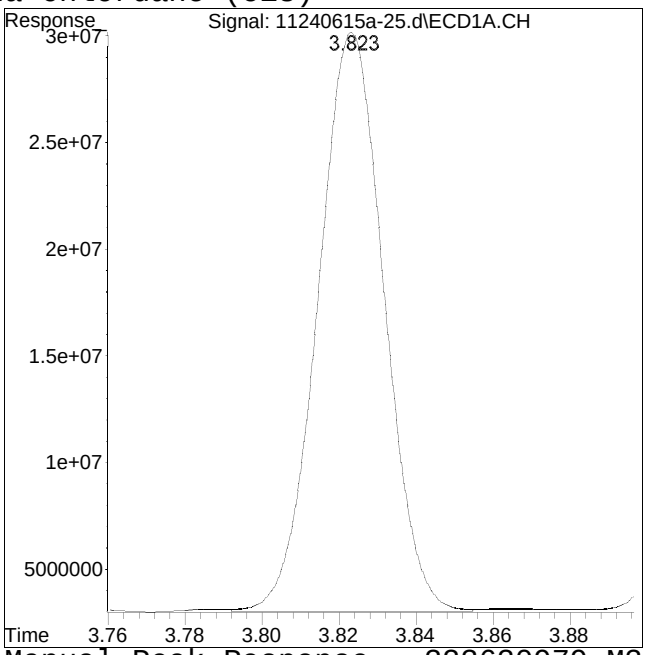
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #14: alpha-Chlordane (cis)



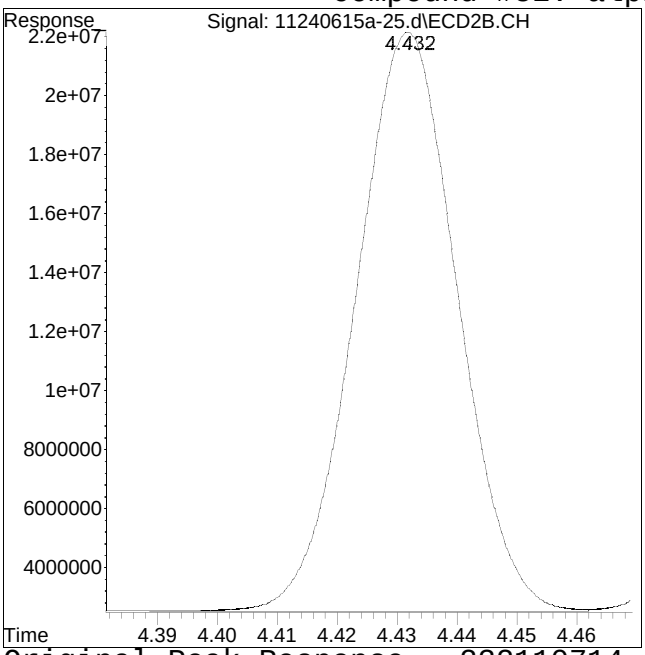


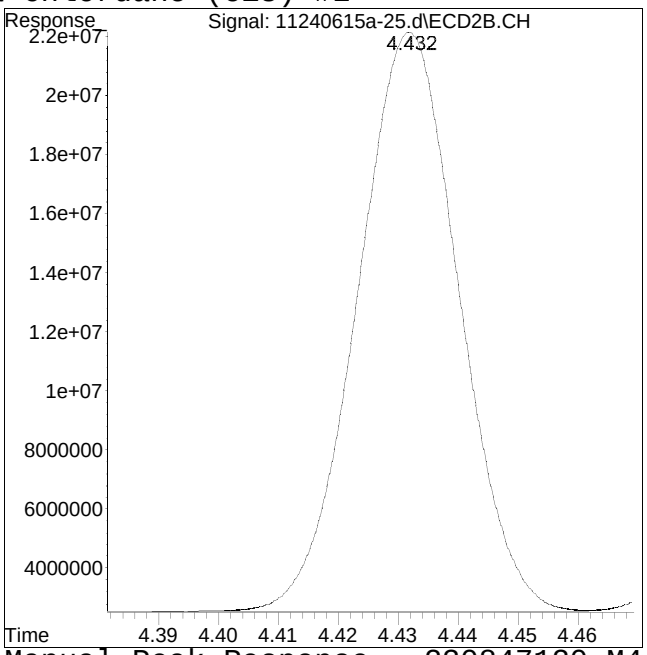
Original Peak Response = 327652052 Manual Peak Response = 323630979 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #52: alpha-Chlordane (cis) #2



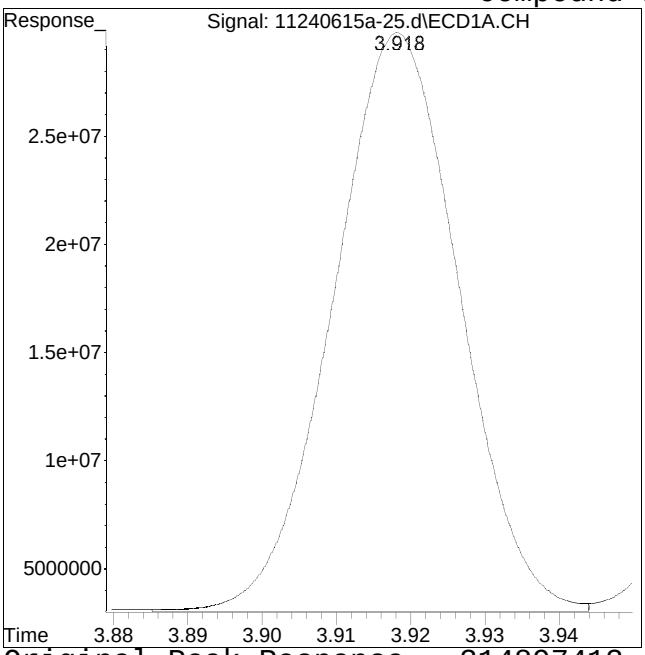


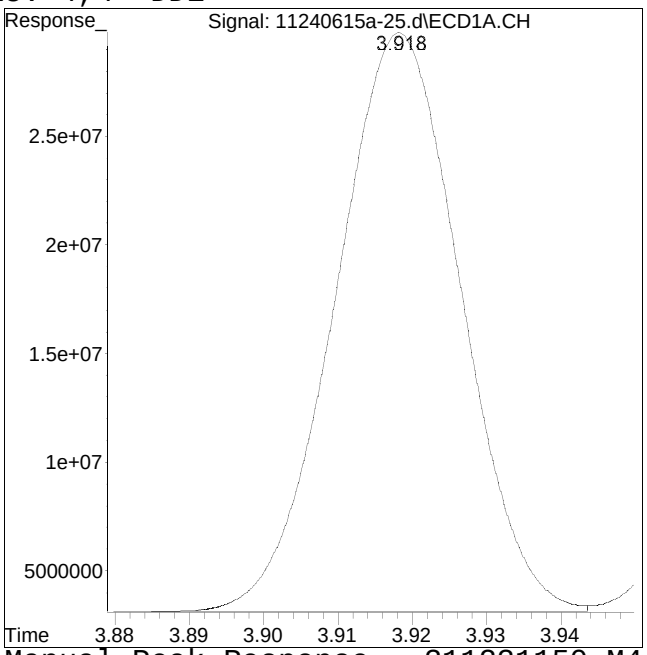
Original Peak Response = 232110714 Manual Peak Response = 230847120 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #15: 4,4'-DDE



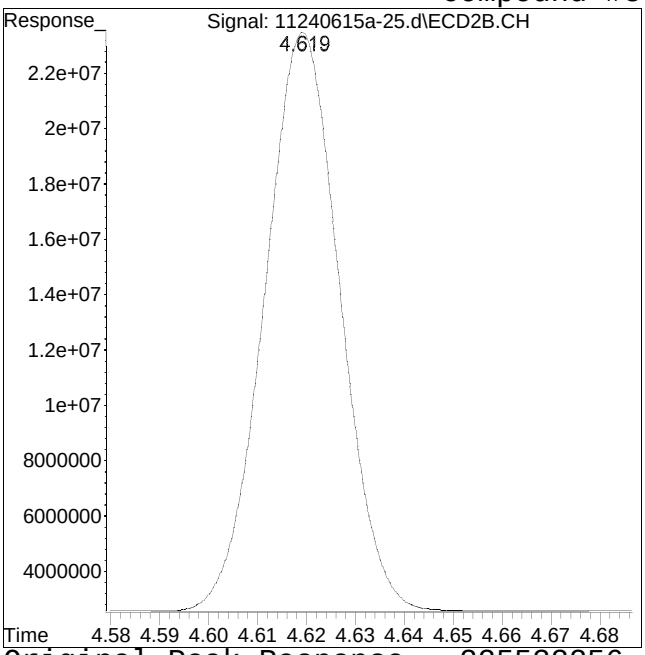


Original Peak Response = 314897413 Manual Peak Response = 311231150 M4
M4 = Poor automated baseline construction.

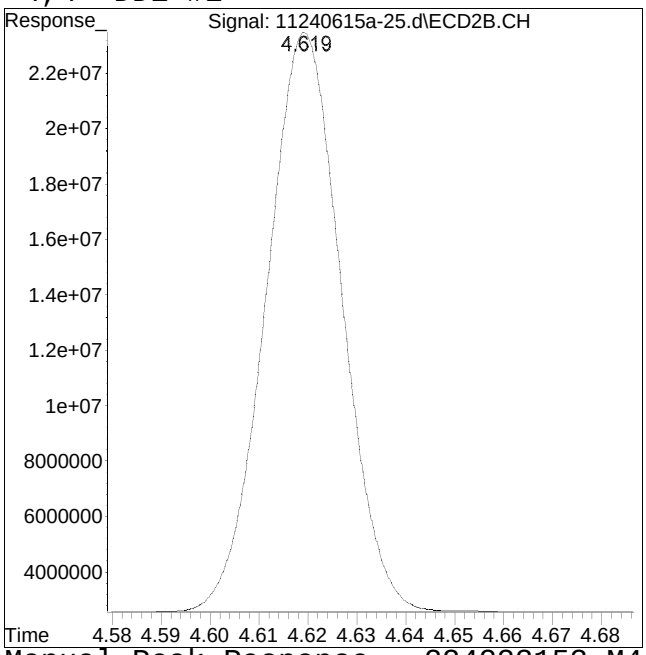
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 225532256



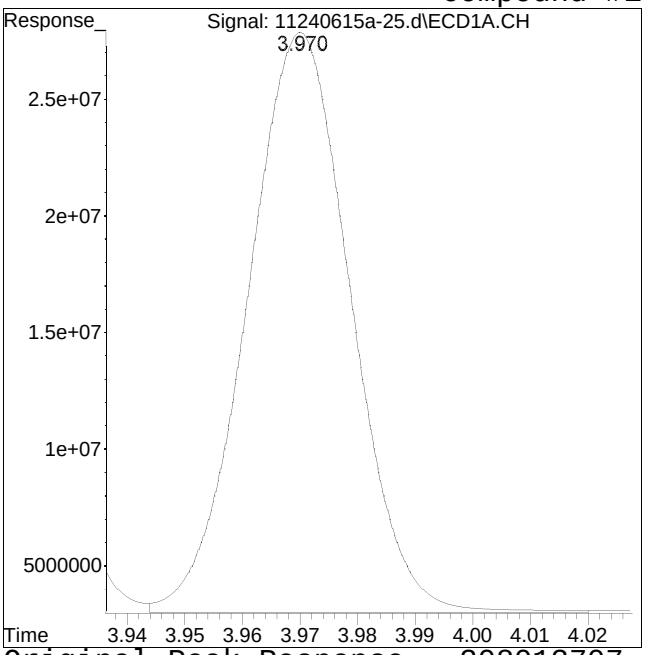
Manual Peak Response = 224223153 M4

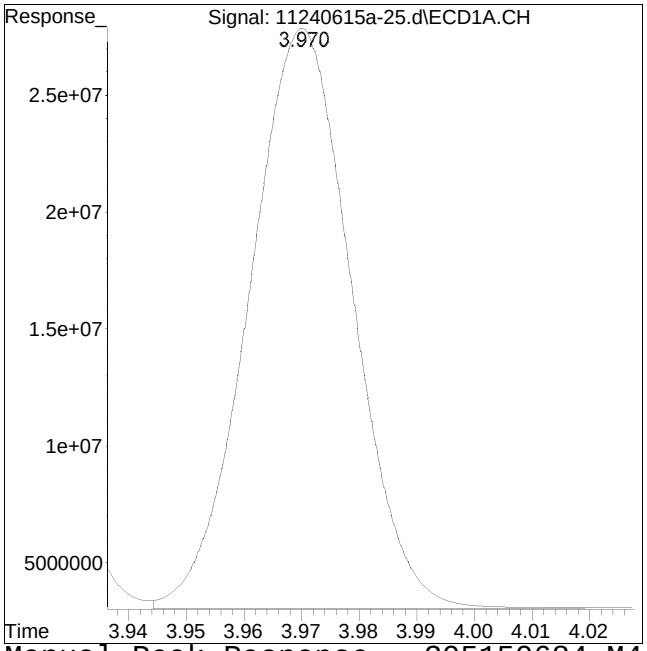
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #16: Endosulfan I



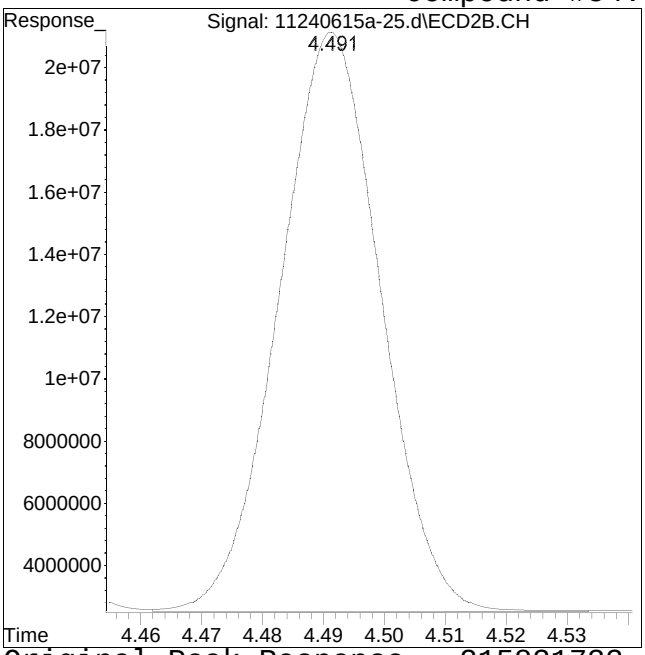


Original Peak Response = 308013707 Manual Peak Response = 305150684 M4
M4 = Poor automated baseline construction.

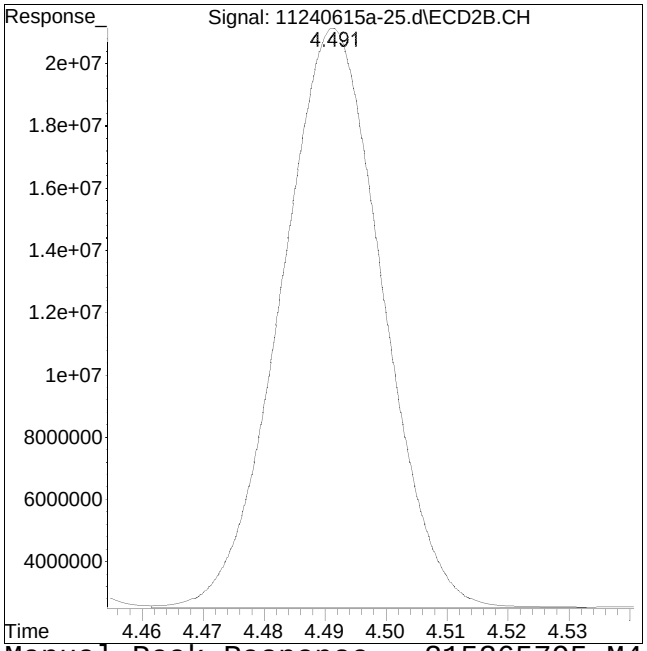
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #54: Endosulfan I #2



Original Peak Response = 215831733



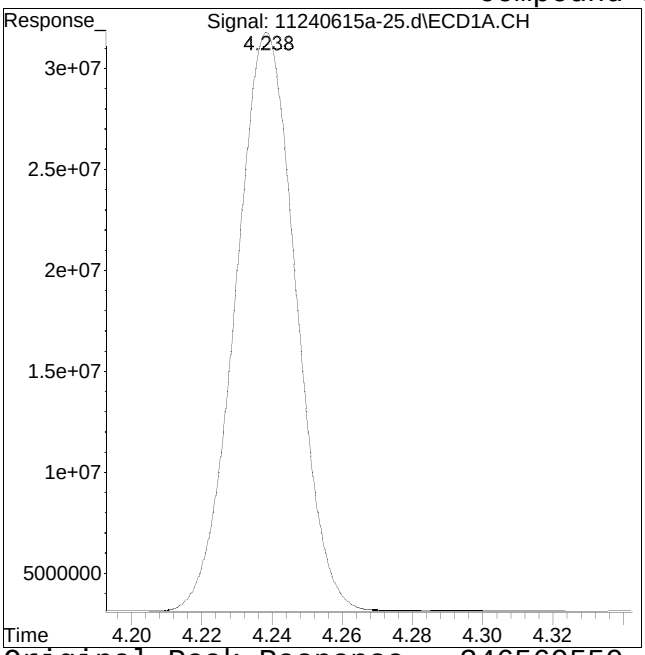
Manual Peak Response = 215365795 M4

M4 = Poor automated baseline construction.

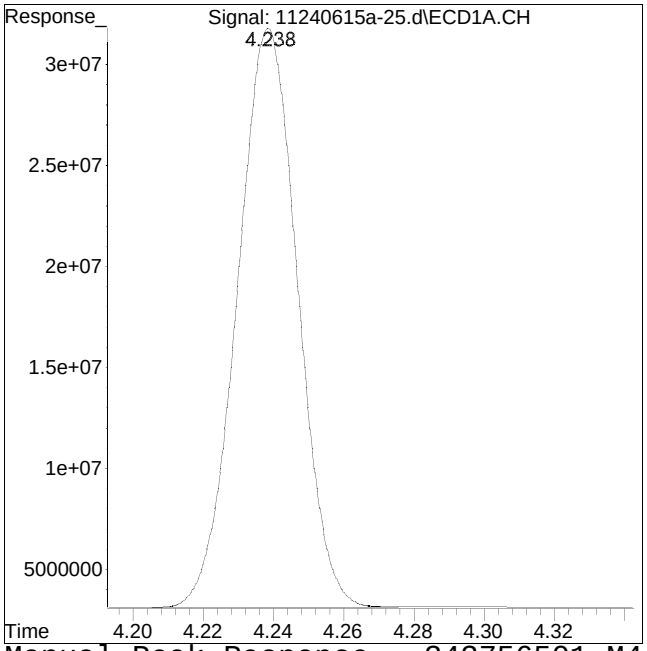
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #17: Dieldrin



Original Peak Response = 346569550



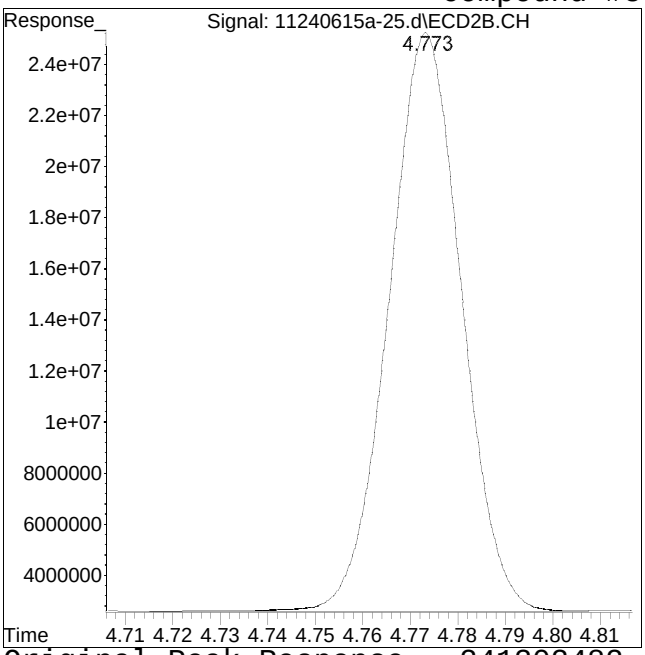
Manual Peak Response = 343756501 M4

M4 = Poor automated baseline construction.

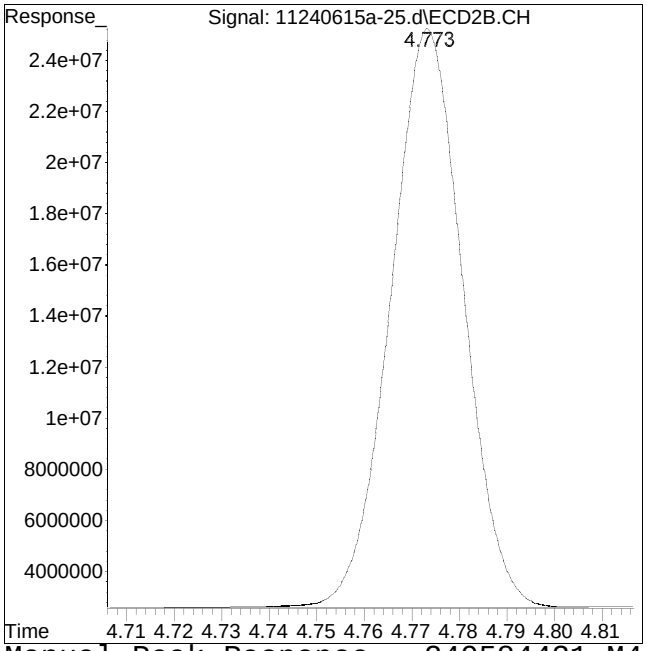
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #55: Dieldrin #2



Original Peak Response = 241302482



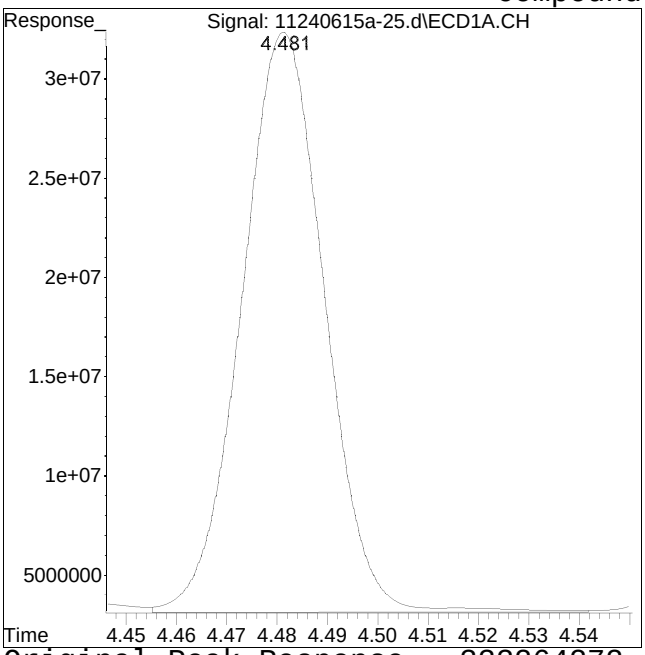
Manual Peak Response = 240584431 M4

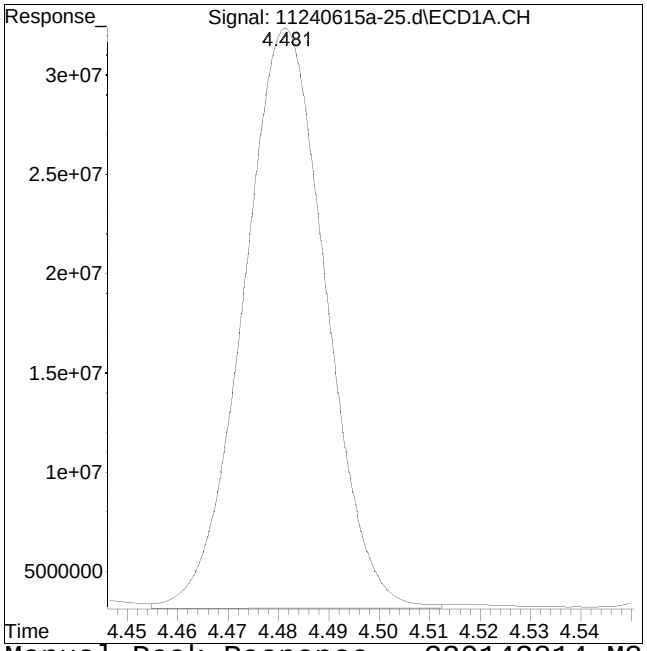
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #18: Endrin



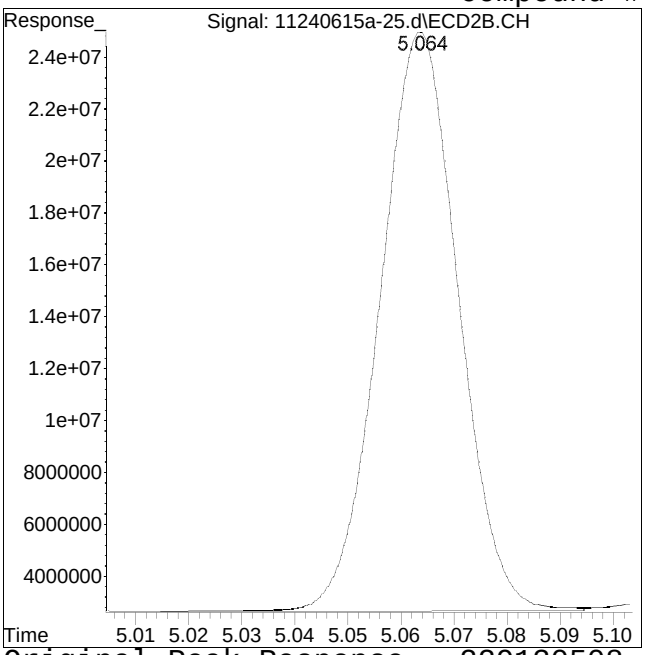


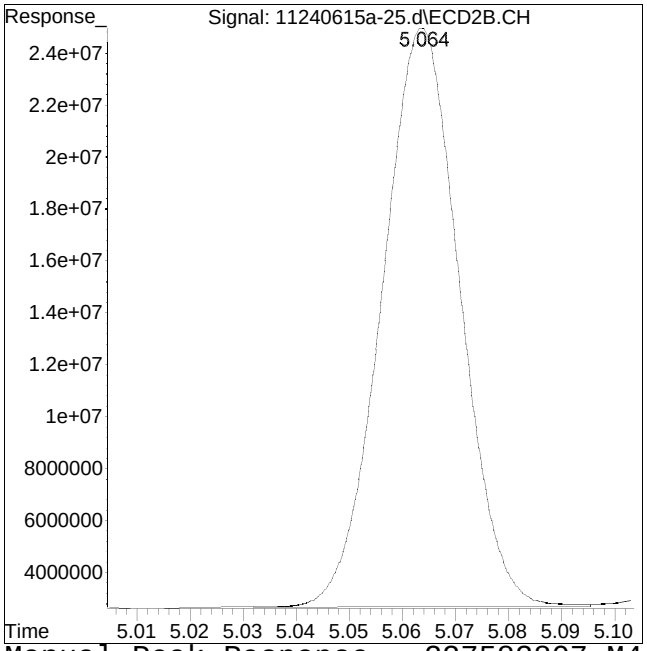
Original Peak Response = 333264272 Manual Peak Response = 330143814 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #56: Endrin #2



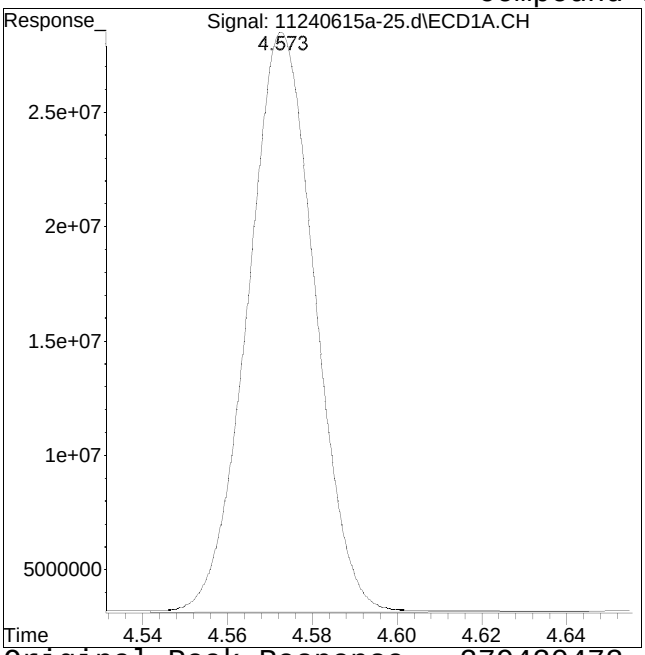


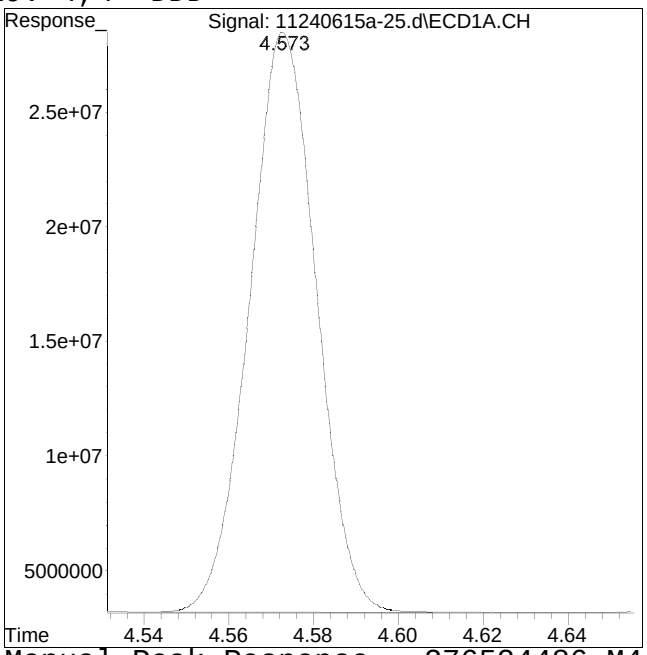
Original Peak Response = 229130508 Manual Peak Response = 227583807 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #19: 4,4'-DDD



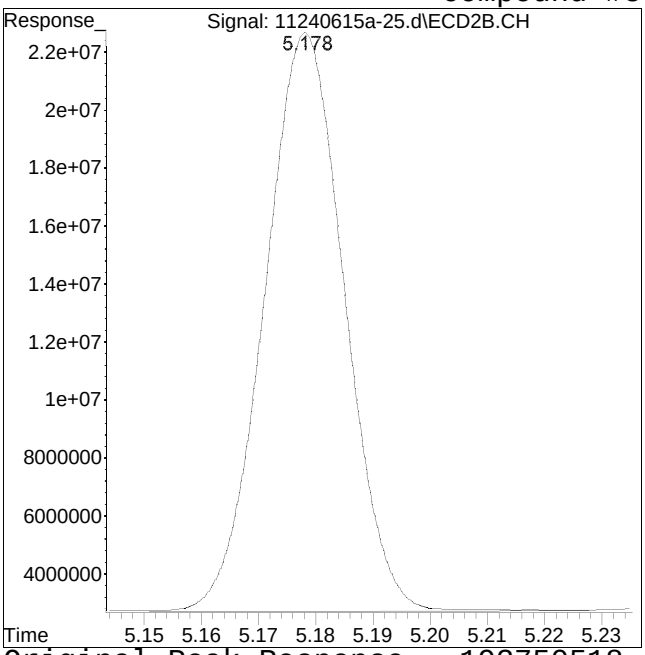


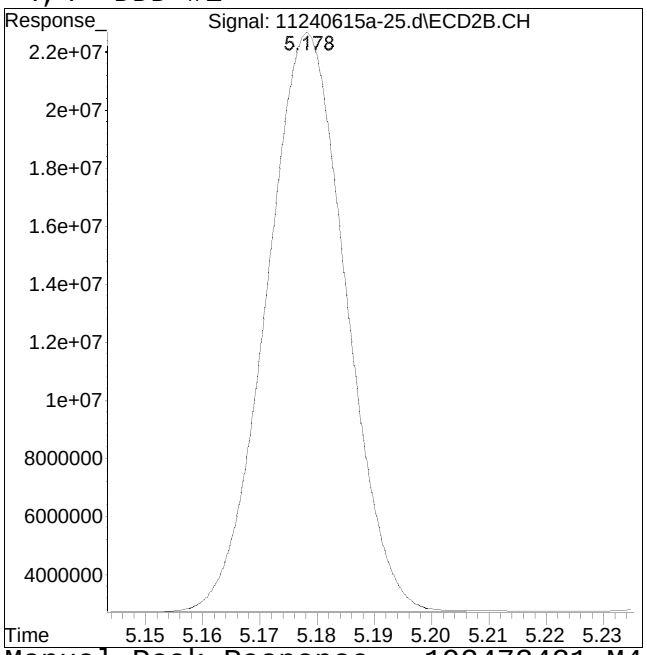
Original Peak Response = 279430473 Manual Peak Response = 276524486 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #57: 4,4'-DDD #2



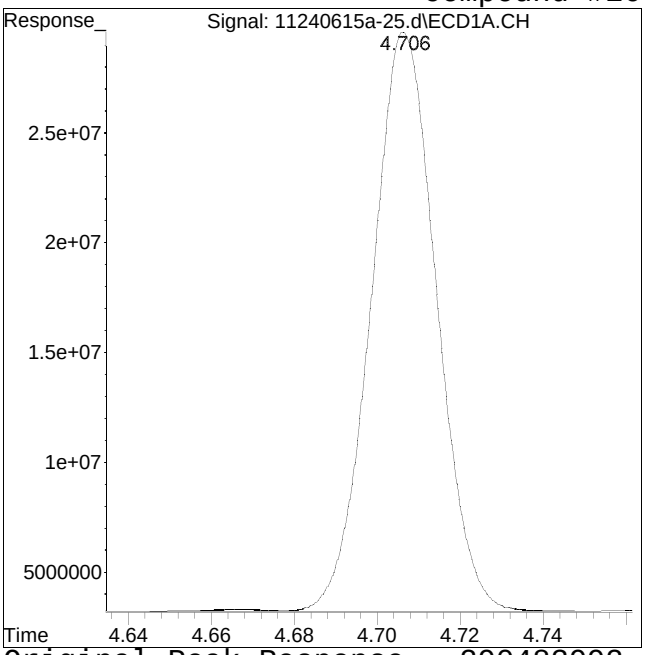


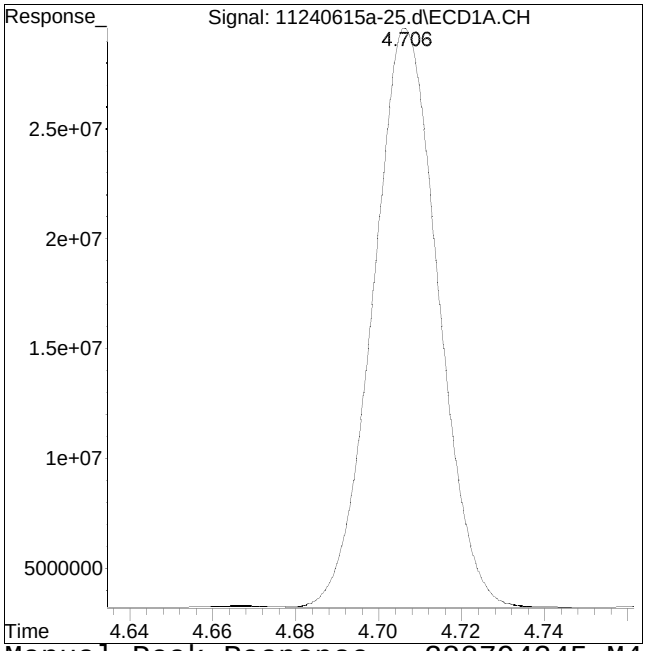
Original Peak Response = 193750518 Manual Peak Response = 192473421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #20: Endosulfan II



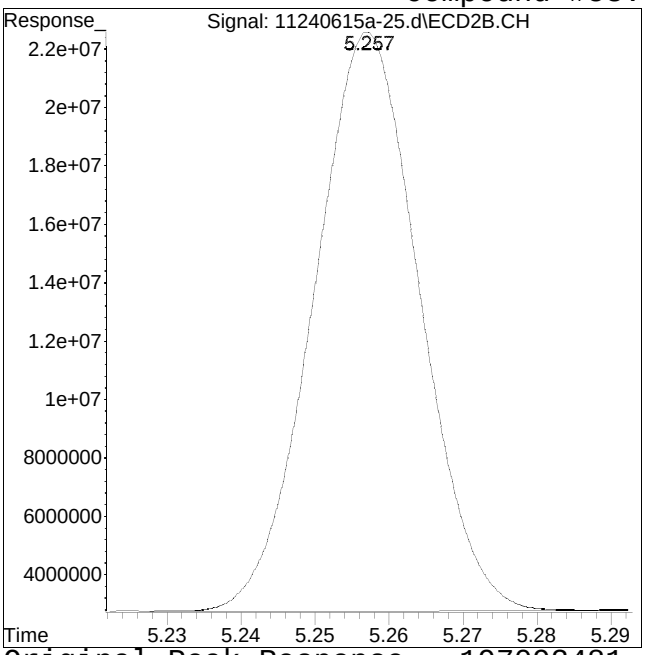


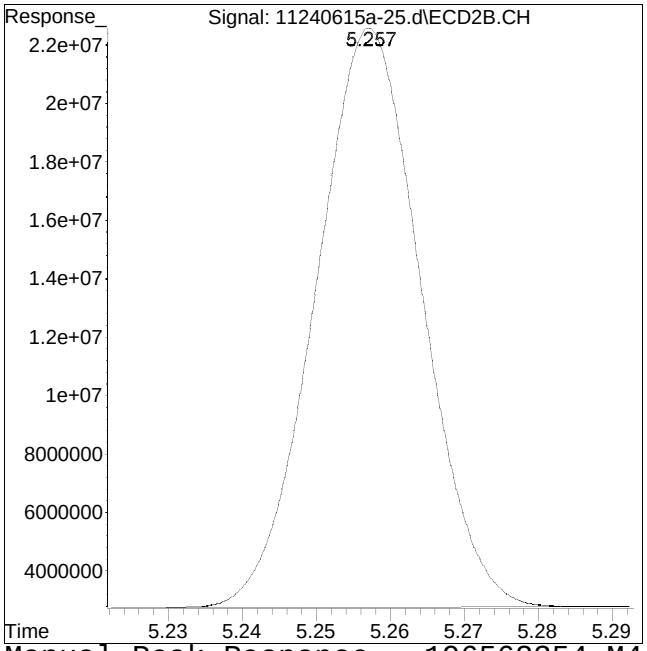
Original Peak Response = 290483992 Manual Peak Response = 288794245 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #58: Endosulfan II #2



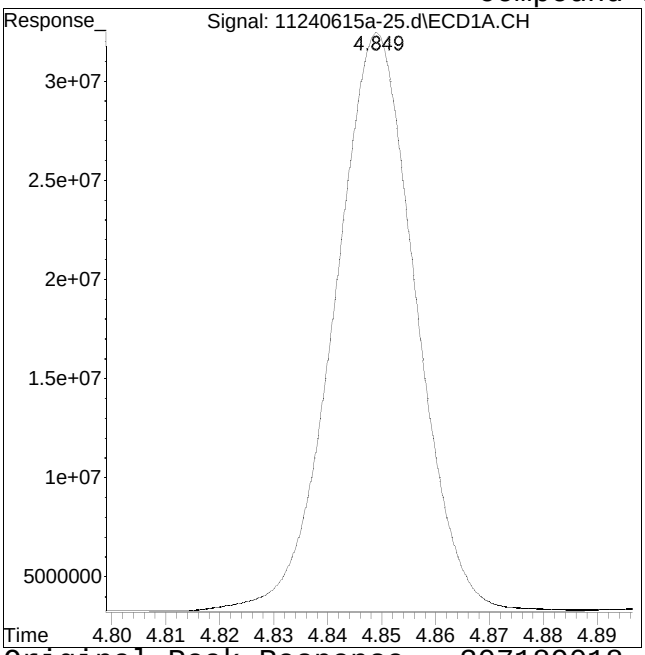


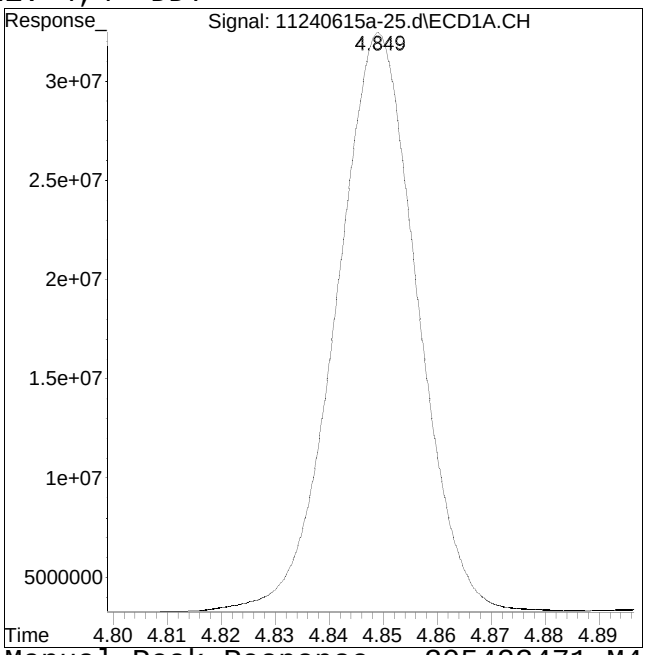
Original Peak Response = 197092481 Manual Peak Response = 196562354 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #21: 4,4'-DDT



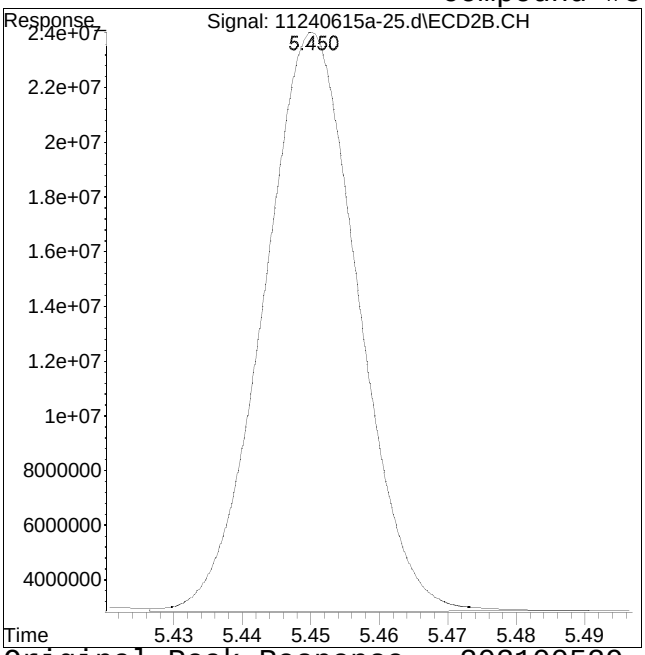


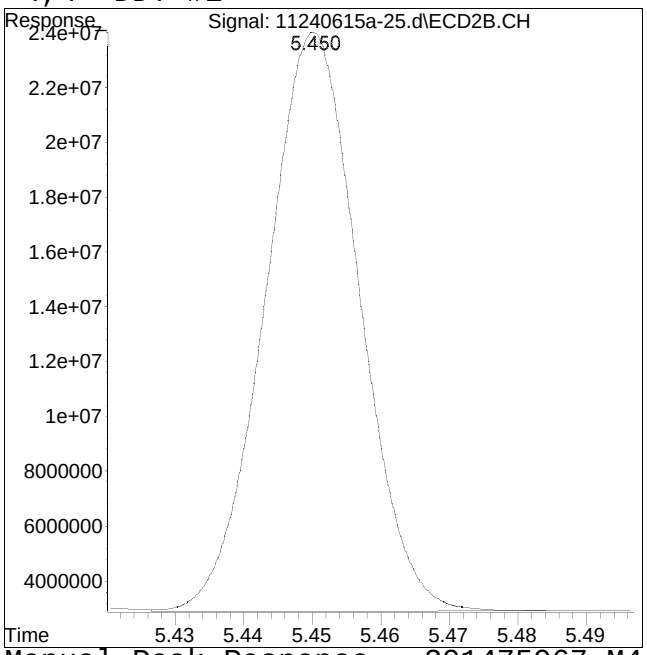
Original Peak Response = 307189018 Manual Peak Response = 305423471 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #59: 4,4'-DDT #2



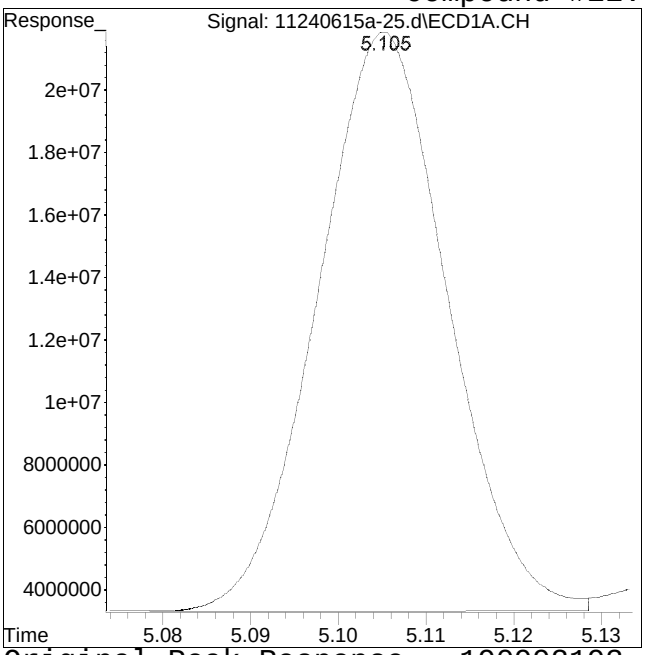


Original Peak Response = 203100529 Manual Peak Response = 201475967 M4
M4 = Poor automated baseline construction.

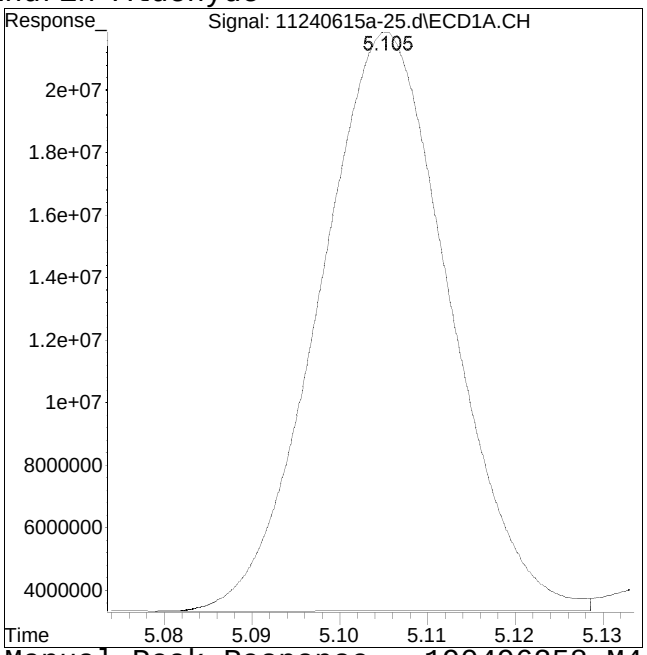
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 190992193



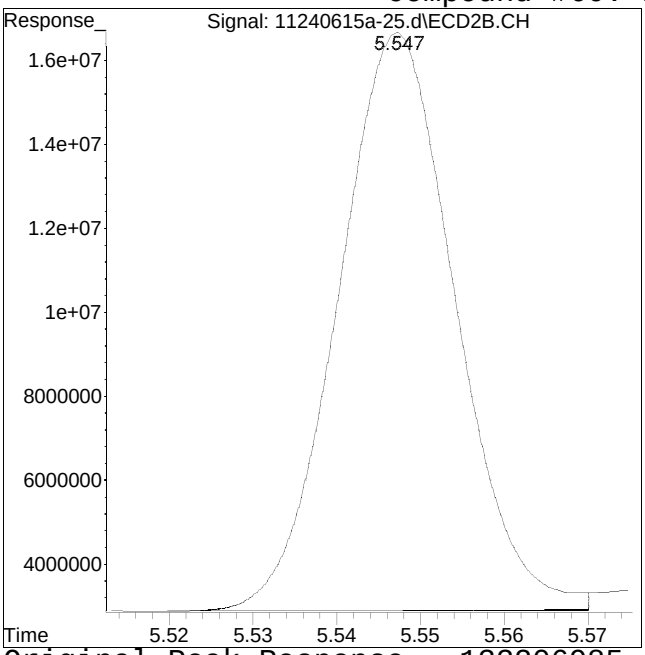
Manual Peak Response = 190496258 M4

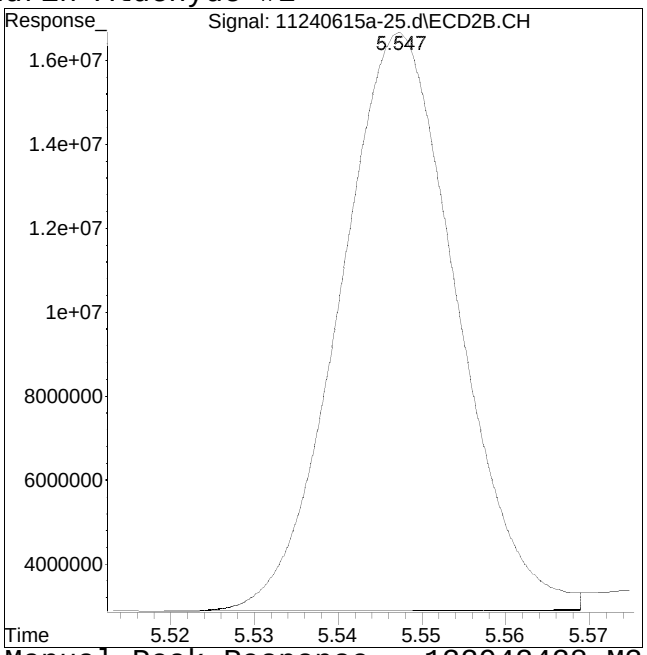
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #60: Endrin Aldehyde #2



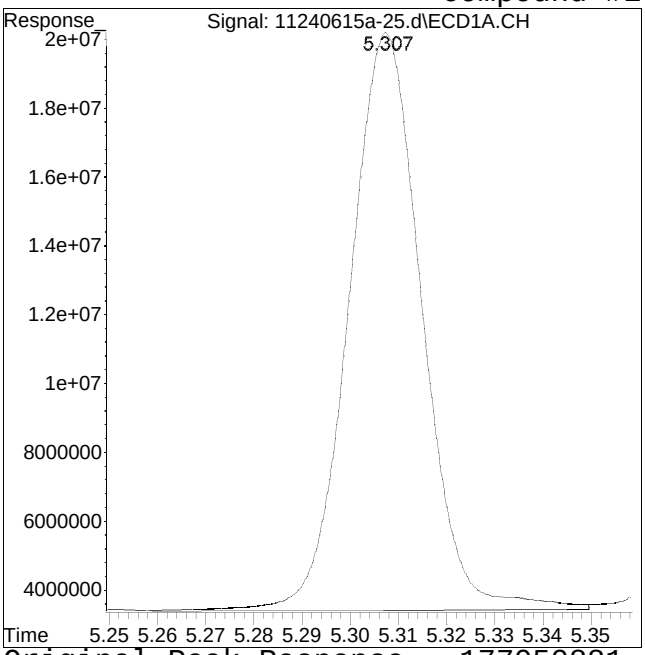


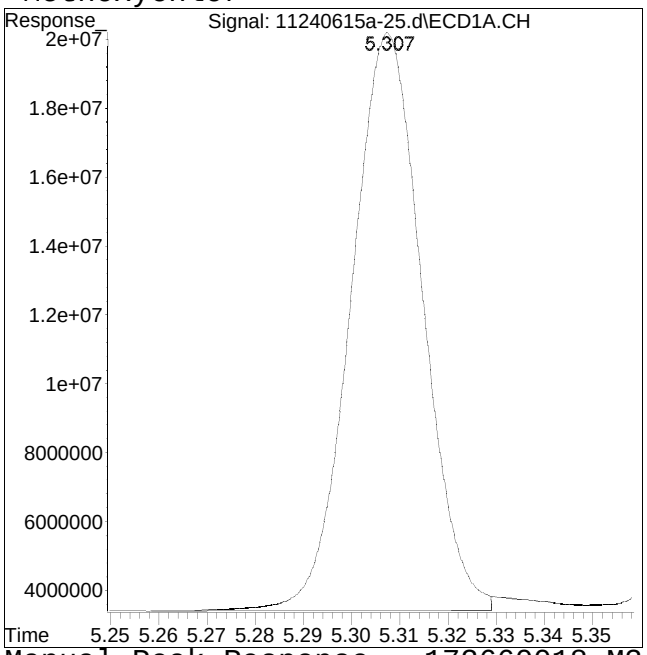
Original Peak Response = 133206985 Manual Peak Response = 132942428 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #23: Methoxychlor



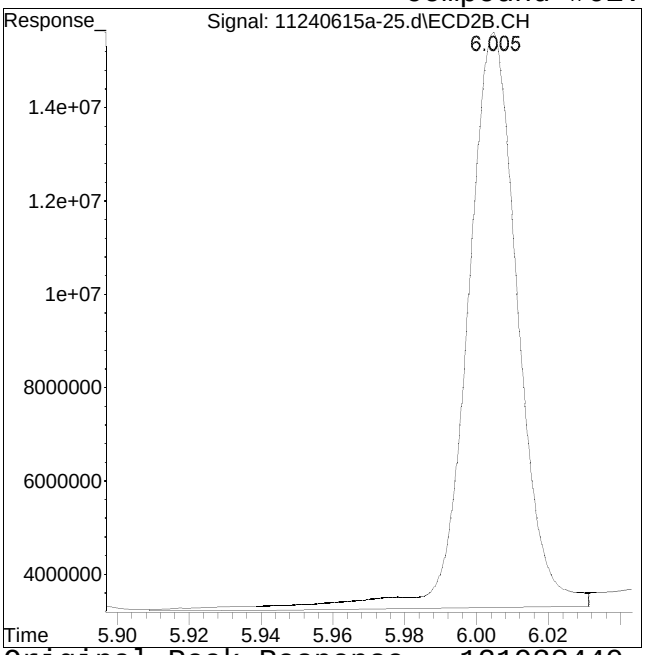


Original Peak Response = 177050881 Manual Peak Response = 172660018 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

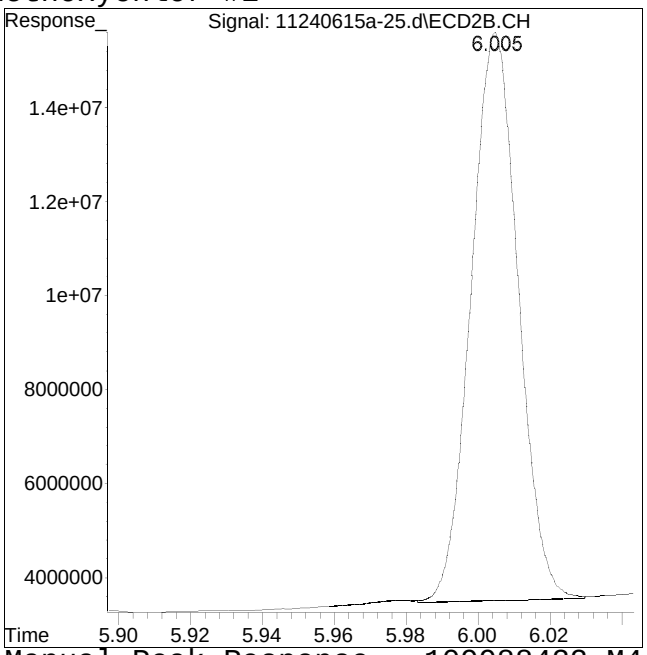
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #61: Methoxychlor #2



Original Peak Response = 121933440



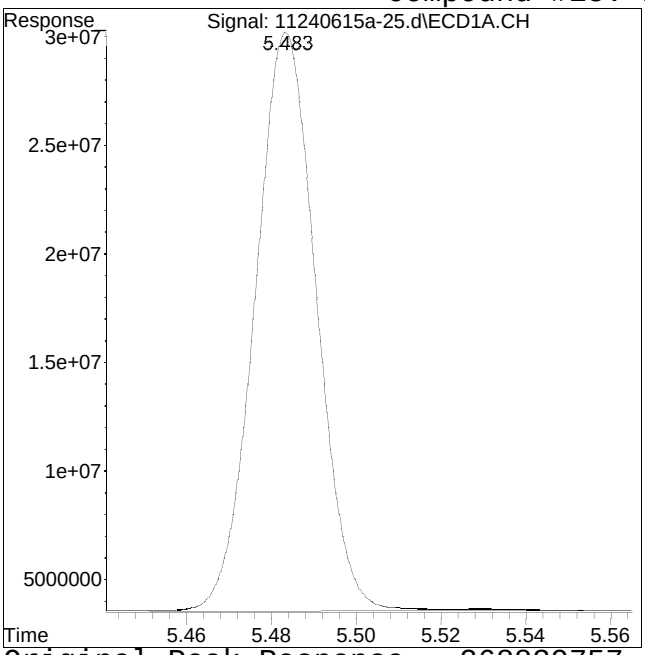
Manual Peak Response = 109988422 M4

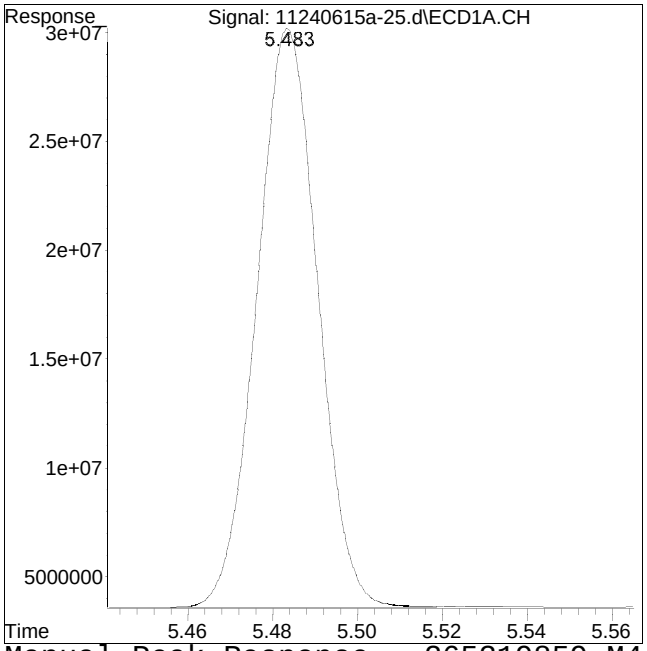
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #25: Endosulfan Sulfate



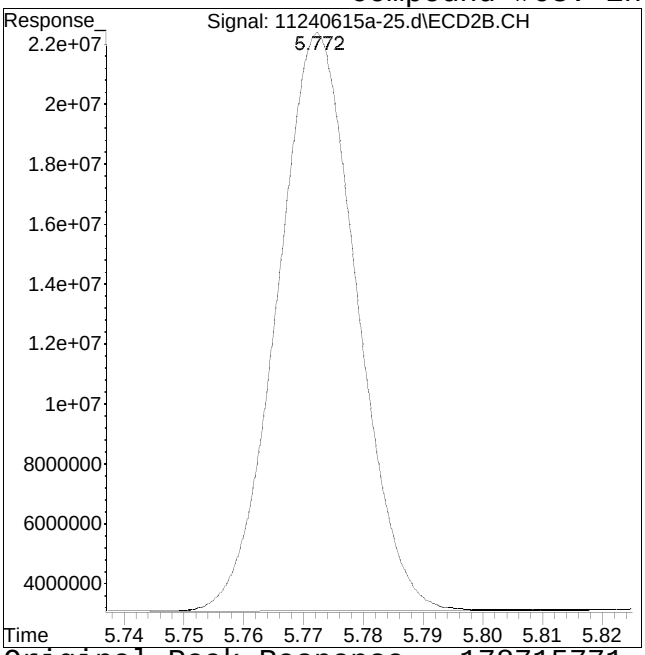


Original Peak Response = 268839757 Manual Peak Response = 265319859 M4
M4 = Poor automated baseline construction.

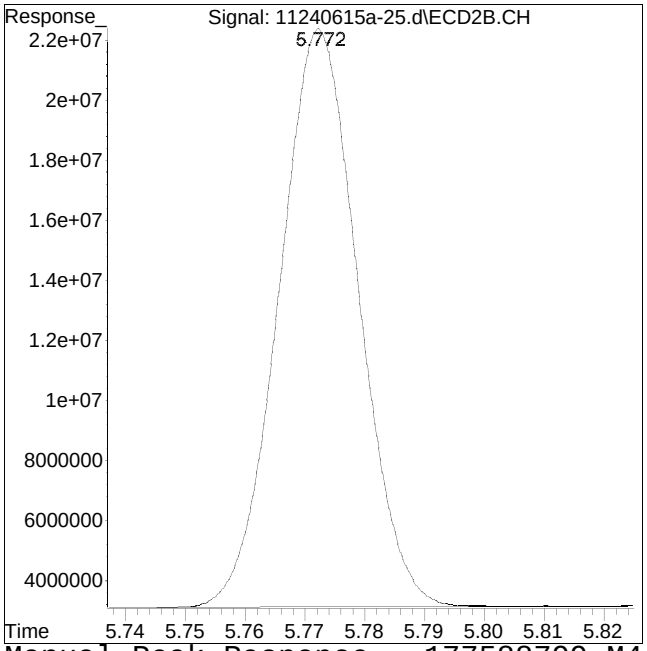
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 178715771



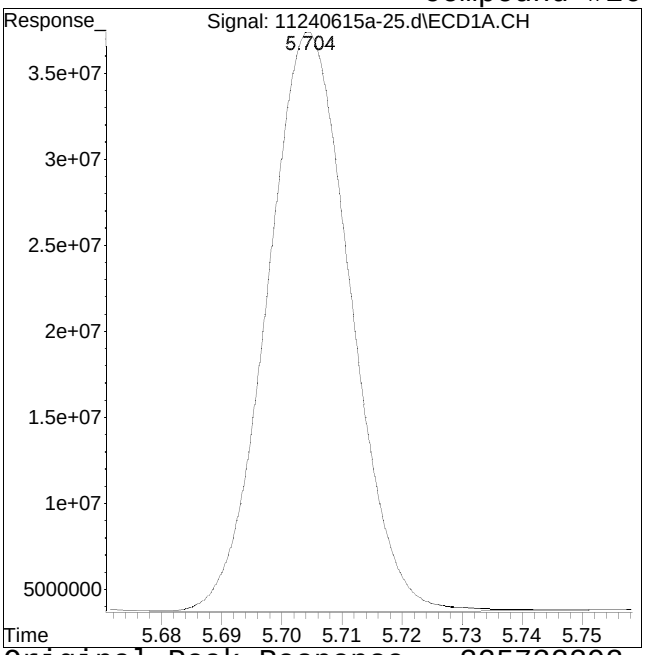
Manual Peak Response = 177588799 M4

M4 = Poor automated baseline construction.

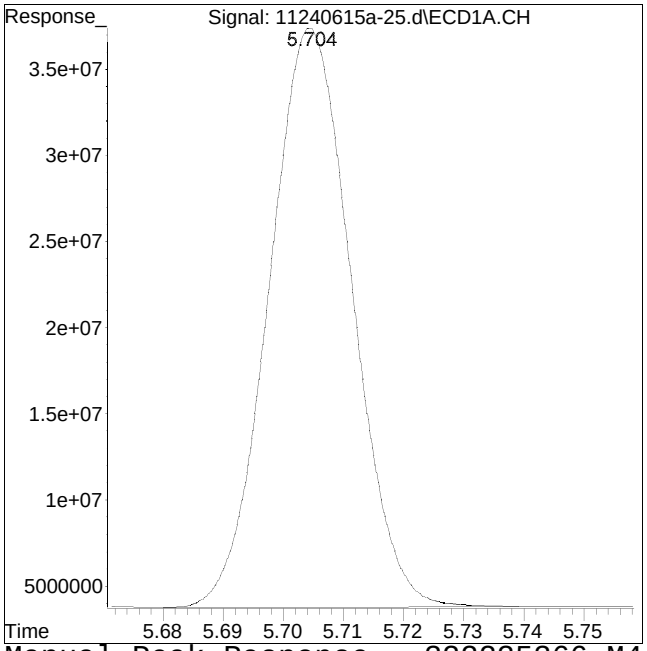
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #26: Endrin Ketone



Original Peak Response = 325732392



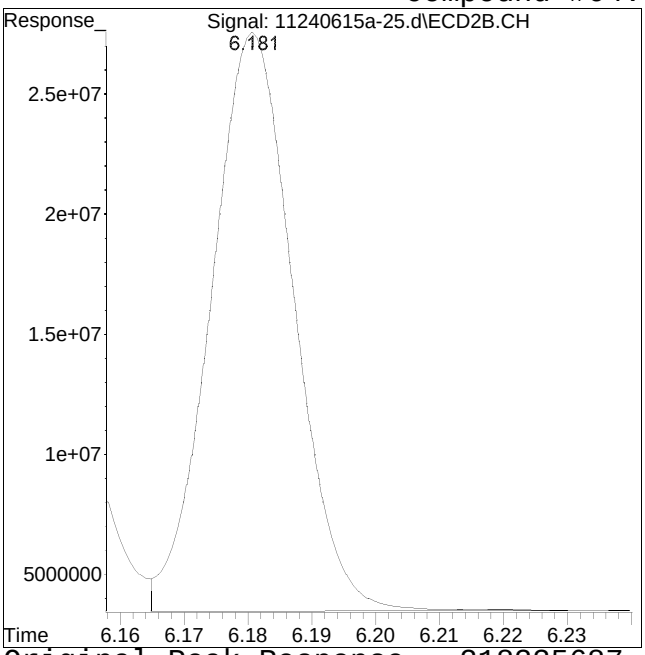
Manual Peak Response = 322235366 M4

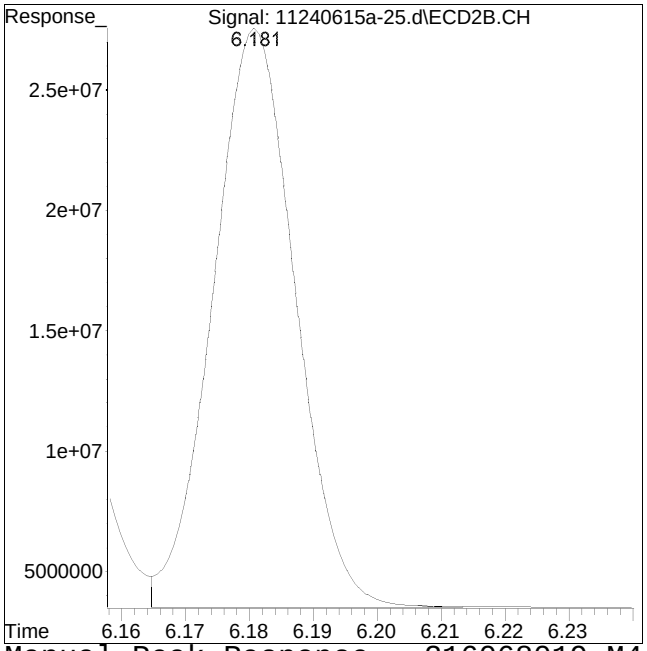
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #64: Endrin Ketone #2



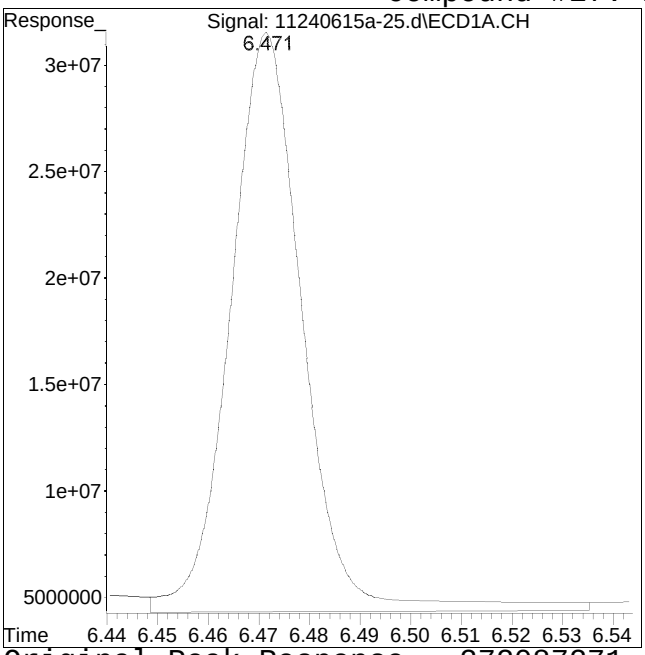


Original Peak Response = 218335687 Manual Peak Response = 216068019 M4
M4 = Poor automated baseline construction.

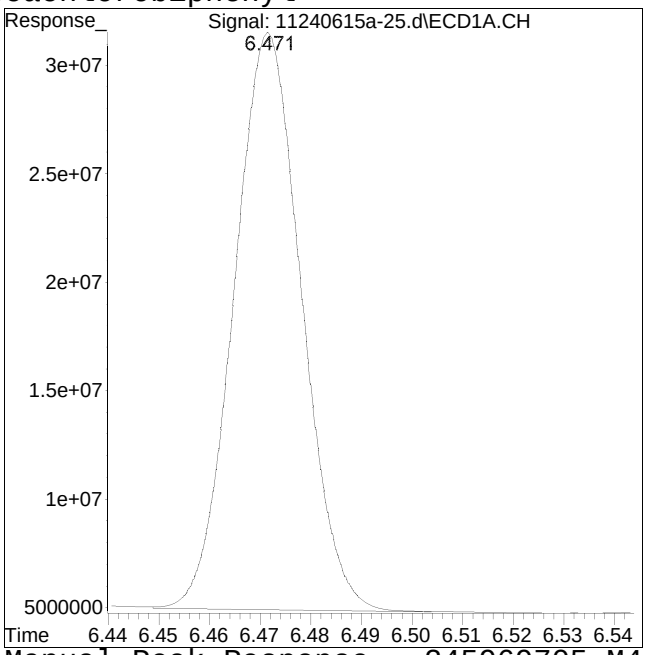
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 272087271



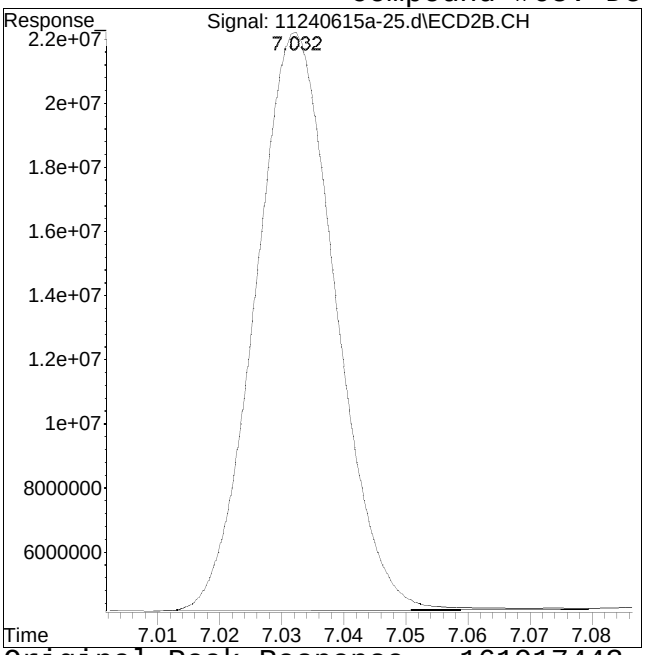
Manual Peak Response = 245969705 M4

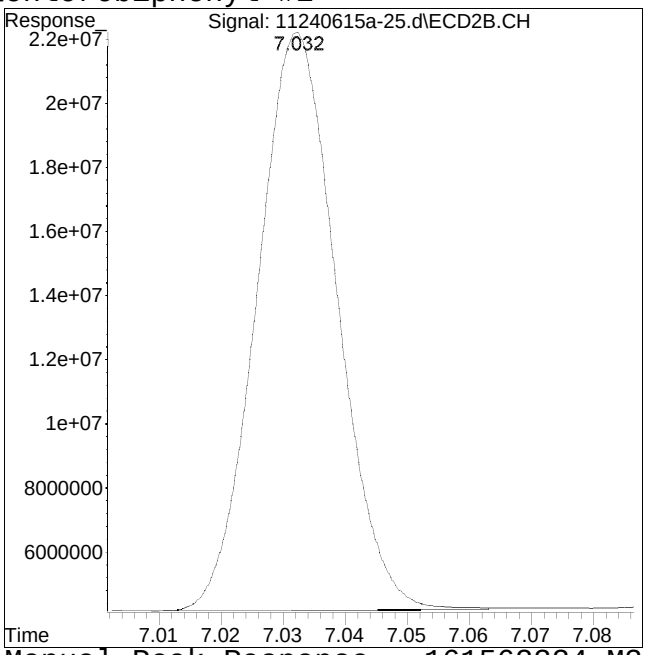
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240615QMethod : pest11_06_13_24_ugL_ICAL
Data File : 11240615a-25.d Operator : PEST11:jag
Date Inj'd : 6/15/2024 13:08 Instrument : Pest 11
Sample : WG1934673-3,42,, Quant Date : 6/15/2024 1:59 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 161917443 Manual Peak Response = 161562324 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: Pest_11
Date: **06/13/24**
Run: **ical**

Method
GC: PEST

Seq: ICAL21196
IS: pp11567
WG1934571

Vial	Data File	Sample	CCAL	notes	screen	initials
1	11240613i-01	blank,42e,,pp 11567 -				
2	11240613i-02	pem-01,42e,,pp 11573 -				kab/elj 6/14
3	11240613i-03	il1pest,42e,,pp 11572 L0.0005				kab/elj 6/14
4	11240613i-04	il2pest,42e,,pp 11571 L0.001				kab/elj 6/14
5	11240613i-05	il3pest,42e,,pp 11570 L0.002				kab/elj 6/14
6	11240613i-06	il4pest,42e,,pp 11569 L0.003				kab/elj 6/14
7	11240613i-07	il5pest,42e,,pp 11568 L0.004				kab/elj 6/14
8	11240613i-08	il7pest,42e,,pp 11567 L0.01				kab/elj 6/14
9	11240613i-09	il8pest,42e,,pp 11566 L0.05				kab/elj 6/14
10	11240613i-10	il9pest,42e,,pp 11565 L0.1				kab/elj 6/14
11	11240613i-11	il10pest,42e,,pp 11564 L0.2				kab/elj 6/14
12	11240613i-12	il11pest,42e,,pp 11563 L0.4				kab/elj 6/14
13	11240613i-13	cicvpest,42e,,pp 11604 L0.05ICV				kab/elj 6/14
14	11240613i-14	il3chlor,42e,,pp 11509 L0.01				kab/elj 6/14
15	11240613i-15	il4chlor,42e,,pp 11508 L0.02				kab/elj 6/14
16	11240613i-16	il5chlor,42e,,pp 11507 L0.1				kab/elj 6/14
17	11240613i-17	il7chlor,42e,,pp 11506 L0.5				kab/elj 6/14
18	11240613i-18	il8chlor,42e,,pp 11505 L1.0				kab/elj 6/14
19	11240613i-19	il9chlor,42e,,pp 11504 L2.0				kab/elj 6/14
20	11240613i-20	il10chlor,42e,,pp 11515 L5.0				kab/elj 6/14
21	11240613i-21	cicvchlor,42e,,pp 11540 L1.0ICV				kab/elj 6/14
22	11240613i-22	il3tox,42e,,pp 11519 L0.02				kab/elj 6/14
23	11240613i-23	il4tox,42e,,pp 11518 L0.1				kab/elj 6/14
24	11240613i-24	il7tox,42e,,pp 11517 L1.0				kab/elj 6/14
25	11240613i-25	il8tox,42e,,pp 11516 L2.0				kab/elj 6/14
26	11240613i-26	il9tox,42e,,pp 11510 L5.0				kab/elj 6/14
27	11240613i-27	cicvtox,42e,,pp 11541 L2.0ICV				kab/elj 6/14

Dep.: PEST
Inst: Pest_11
Date: **06/15/24**
Run: **a**

Method
GC: PEST

Seq: wg1934790
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials
1	11240615a-01	blank				
2	11240615a-02	deg11573	7:46			JAG 6/15
3	11240615a-03	pest11595	20%			JAG 6/15
4	11240615a-04	chlor11612	15%			JAG 6/15
5	11240615a-05	tox11541	15%			JAG 6/15
6	11240615a-06	blank				
7	11240615a-07	WG1934407-1	42,,			JAG 6/15
8	11240615a-08	WG1934407-2	42,,			JAG 6/15
9	11240615a-09	WG1934407-3	42,,			JAG 6/15
10	11240615a-10	L2431904-01	42,,			JAG 6/15
11	11240615a-11	WG1934401-1	42,,			JAG 6/15
12	11240615a-12	WG1934401-2	42,,			JAG 6/15
13	11240615a-13	WG1934401-3	42,,			JAG 6/15
14	11240615a-14	L2432330-03	42,,,R3E			JAG 6/15
15	11240615a-15	L2433393-01	42,,,R3B	11027		JAG 6/15
16	11240615a-16	L2433393-05	42,,,R3B			JAG 6/15
17	11240615a-17	L2433393-12	42,,,R3B	report t-chlor on A		JAG 6/15
18	11240615a-18	L2433393-13	42,,,R3B			JAG 6/15
19	11240615a-19	L2432297-01	42,,			JAG 6/15
20	11240615a-20	L2432305-01	42,,			JAG 6/15
21	11240615a-21	L2432305-03	42,,			JAG 6/15
22	11240615a-22	L2432305-05	42,,			JAG 6/15
23	11240615a-23	WG1934673-1	42,,			JAG 6/15
24	11240615a-24	WG1934673-2	42,,			JAG 6/15
25	11240615a-25	WG1934673-3	42,,			JAG 6/15
26	11240615a-26	L2432297-02	42,,			JAG 6/15
27	11240615a-27	L2432305-07	42,,			JAG 6/15
28	11240615a-28	L2432305-09	42,,			JAG 6/15
29	11240615a-29	L2432305-10	42,,			JAG 6/15
30	11240615a-30	L2432392-02	42,,			JAG 6/15
31	11240615a-31	L2432392-06	42,,			JAG 6/15
32	11240615a-32	L2432392-10	42,,			JAG 6/15
33	11240615a-33	L2432392-14	42,,			JAG 6/15
34	11240615a-34	L2432392-18	42,,			JAG 6/15
35	11240615a-35	L2432392-22	42,,			JAG 6/15
36	11240615a-36	pest11595				
37	11240615a-37	pest11595	b: ddt, end alde low			JAG 6/15
38	11240615a-38	L2433070-01	42,,,R3A	11027	JAG	
39	11240615a-39	L2432330-01	42,,,R3E			
40	11240615a-40	L2432392-30	42,,			
41	11240615a-41	L2432633-01	42,,			
42	11240615a-42	L2432633-02	42,,			
43	11240615a-43	L2432633-03	42,,		MMG	
44	11240615a-44	L2432633-04	42,,			

Dep.: PEST
Inst: Pest_11
Date: **06/15/24**
Run: **a**

Method
GC: PEST

Seq: wg1934790
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials
45	11240615a-45	L2432392-26,42,,				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 11:58 am

Work Group: WG1934673 for Department: 2 Organic Preparation

Created: 15-JUN-24 Due: Operator: RET

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432297-02	FB-02_20240610	S	NYTCL-8081	WATER	DONE	U	0617	0617	S0	Amber-A.120
L2432330-01	EB-061024	S	NYTCL-8081	WATER	DONE	U	0617	0617	3E	
L2432392-30	FB_06102024	S	NYTCL-8081	WATER	DONE	U	0617	0617	S0	Amber-A.120
L2432633-01	MW-11S	S	NYTCL-8081	WATER	DONE	U	0618	0618	S0	Amber-A.120
L2432633-02	MW-11D	S	NYTCL-8081	WATER	DONE	U	0618	0618	S0	Amber-A.120
L2432633-03	MW-13S	S	NYTCL-8081	WATER	DONE	U	0618	0618	S0	Amber-A.120
L2432633-04	MW-13D	S	NYTCL-8081	WATER	DONE	U	0618	0618	S0	Amber-A.120
WG1934673-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1934673-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1934673-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1934673-3 WG1934673-2

ORGANIC ELN REPORT

Workgroup: WG1934673

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: Pesticide/PCB **Lot #:** pp11564ab,10/30/2024,7c,6,1
Spike Type: Pesticide **Lot #:** PP11566aa,10/09/2024,7c,5,1
Spike Verify by: JOA
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI504

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2432297-02 SAMP	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
L2432330-01 SAMP	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
L2432392-30 WATER	06/15/24 05:45	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
L2432563-01 SAMP	06/15/24 10:38	Ryan Trenholm	140	>5,<9	.25		06/15/24 17:21	Kwasi Siriboe	1	H&K,N #3
L2432633-01 SAMP	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
L2432633-02 SAMP	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
L2432633-03 SAMP	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1

Reported: 18-JUN-24 11:58 AM

ORGANIC ELN REPORT

Workgroup: WG1934673

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2432633-04 SAMP	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
L2432791-34 SAMP	06/15/24 10:38	Ryan Trenholm	140	>5,<9	.25		06/15/24 17:21	Kwasi Siriboe	1	H&K,N #3
L2433817-01 SAMP	06/15/24 10:38	Ryan Trenholm	140	>5,<9	.25		06/15/24 17:21	Kwasi Siriboe	1	H&K,N #3
WG1934673-1 BLANK	06/15/24 01:05	John Awuah	140	>5,<9	.25		06/15/24 09:28	Sophia Osei	1	SEVAP D/A,#1
WG1934673-2 LCS	06/15/24 01:05	John Awuah	140	>5,<9	.25	.25	06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1
WG1934673-3 LCSD	06/15/24 01:05	John Awuah	140	>5,<9	.25	.25	06/15/24 09:27	Sophia Osei	1	SEVAP D/A,#1

Reported: 18-JUN-24 11:58 AM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934502-1	**Date Collected**	: NA
Client ID	: WG1934502-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/15/24 04:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1934185.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934502-4	**Date Collected**	: 06/10/24 12:35
Client ID	: WG1934502-4 DUP	**Date Received**	: 06/10/24
Sample Location	:	**Date Analyzed**	: 06/15/24 04:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1934185.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-89-6	Iron, Total	0.261	0.0500	0.009	
7439-96-5	Manganese, Total	0.0073	0.0100	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 02:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: MAM
Lab File ID	: WG1934785.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0422	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0350	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	37.7	0.100	0.0350	
7440-47-3	Chromium, Total	0.0024	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0030	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0601	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	11.7	0.100	0.0153	
7439-96-5	Manganese, Total	0.0036	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.55	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	4.49	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0102	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 02:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: MAM
Lab File ID	: WG1934785.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0676	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0267	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	15.8	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	3.44	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.92	0.100	0.0153	
7439-96-5	Manganese, Total	0.0477	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.919	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	7.65	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0031	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2432633
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2432633-03	Date Collected	: 06/11/24 12:23
Client ID	: MW-13S	Date Received	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 06/16/24 02:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: MAM
Lab File ID	: WG1934785.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/14/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0815	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	88.9	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0387	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	12.4	0.100	0.0153	
7439-96-5	Manganese, Total	0.0023	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	2.61	2.50	0.237	
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	2.84	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 02:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: MAM
Lab File ID	: WG1934785.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.150	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0275	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	11.7	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.146	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.49	0.100	0.0153	
7439-96-5	Manganese, Total	0.0034	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.14	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	14.3	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0035	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934502-8	**Date Collected**	: 06/10/24 12:41
Client ID	: WG1934502-8 DUP	**Date Received**	: 06/10/24
Sample Location	:	**Date Analyzed**	: 06/16/24 01:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: MAM
Lab File ID	: WG1934785.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-89-6	Iron, Total	0.299	0.0500	0.009	
7439-96-5	Manganese, Total	0.0050	0.0100	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 22:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935122.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0335	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	35.4	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0036	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	0.0251	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	10.8	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0016	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	4.33	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0064	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2432633
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2432633-02	Date Collected	: 06/11/24 10:52
Client ID	: MW-11D	Date Received	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 06/17/24 22:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DHL
Lab File ID	: WG1935122.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/15/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0265	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	15.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	3.17	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.87	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0484	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	7.55	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0023	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 22:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935122.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0794	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	86.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0028	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	0.0322	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	12.1	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	2.80	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0021	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 23:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935122.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0257	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	11.2	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0025	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.30	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	13.7	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0025	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2432633
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG1934555-1	Date Collected	: NA
Client ID	: WG1934555-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/17/24 22:06
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DHL
Lab File ID	: WG1935122.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/15/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934555-4	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11SDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/17/24 22:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935122.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.032	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.007	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.002	U
7440-39-3	Barium, Dissolved	0.0331	0.0100	0.002	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.001	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.001	U
7440-70-2	Calcium, Dissolved	35.3	0.100	0.035	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.002	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.002	U
7440-50-8	Copper, Dissolved	0.0030	0.0100	0.002	J
7439-89-6	Iron, Dissolved	0.0247	0.0500	0.009	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.003	U
7439-95-4	Magnesium, Dissolved	10.7	0.100	0.015	
7439-96-5	Manganese, Dissolved	0.0016	0.0100	0.002	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.002	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.004	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.003	U
7440-23-5	Sodium, Dissolved	4.25	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.003	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.002	U
7440-66-6	Zinc, Dissolved	0.0044	0.0050	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934555-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/17/24 22:39
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935122.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	36.9	0.500	0.175	
7439-95-4	Magnesium, Dissolved	11.2	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 00:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1935287.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	1.30	2.50	0.237	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 23:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1935287.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	0.821	2.50	0.237	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 23:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1935287.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	2.25	2.50	0.237	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 23:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1935287.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	0.956	2.50	0.237	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934555-1	**Date Collected**	: NA
Client ID	: WG1934555-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 23:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1935287.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934555-4	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11SDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/18/24 00:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG1935287.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	1.30	2.50	0.237	J

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1841066-1									
Date Analyzed	:	06/14/24 05:48									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4730	95							
Antimony		0.500	0.5120	102							
Arsenic		0.500	0.4750	95							
Barium		0.500	0.4850	97							
Beryllium		0.500	0.4870	97							
Cadmium		0.500	0.5180	104							
Calcium		0.500	0.4770	95							
Chromium		0.500	0.5060	101							
Cobalt		0.500	0.5270	105							
Copper		0.500	0.5110	102							
Iron		0.500	0.4970	99							
Lead		0.500	0.4920	98							
Magnesium		0.500	0.5140	103							
Manganese		0.500	0.4760	95							
Nickel		0.500	0.5280	106							
Potassium		5.00	5.0000	100							
Selenium		0.500	0.4820	96							
Silver		0.500	0.5160	103							
Sodium		10.0	9.8000	98							
Thallium		0.500	0.4940	99							
Vanadium		0.500	0.5080	102							
Zinc		0.500	0.5250	105							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1841066-3			R1841066-6			R1841066-8		R1841066-10	
Date Analyzed :	06/14/24 05:56			06/14/24 08:16			06/14/24 09:28		06/14/24 10:19	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5040	101	0.5000	0.481	96	0.479	96	0.474	95
Antimony	0.500	0.5010	100	0.5000	0.470	94	0.490	98	0.489	98
Arsenic	0.500	0.4860	97	0.5000	0.455	91	0.468	94	0.472	94
Barium	0.500	0.5160	103	0.5000	0.497	99	0.498	100	0.502	100
Beryllium	0.500	0.5230	105	0.5000	0.501	100	0.500	100	0.505	101
Cadmium	0.500	0.5080	102	0.5000	0.478	96	0.498	100	0.496	99
Calcium	0.500	0.5180	104	0.5000	0.488	98	0.491	98	0.492	98
Chromium	0.500	0.4980	100	0.5000	0.472	94	0.490	98	0.492	98
Cobalt	0.500	0.5190	104	0.5000	0.488	98	0.508	102	0.510	102
Copper	0.500	0.5020	100	0.5000	0.472	94	0.495	99	0.495	99
Iron	0.500	0.5360	107	0.5000	0.510	102	0.506	101	0.510	102
Lead	0.500	0.5050	101	0.5000	0.481	96	0.487	97	0.490	98
Magnesium	0.500	0.5030	101	0.5000	0.474	95	0.498	100	0.500	100
Manganese	0.500	0.5090	102	0.5000	0.486	97	0.488	98	0.488	98
Nickel	0.500	0.5190	104	0.5000	0.489	98	0.508	102	0.510	102
Potassium	5.00	5.3400	107	5.0000	5.16	103	5.08	102	5.06	101
Selenium	0.500	0.4970	99	0.5000	0.459	92	0.477	95	0.484	97
Silver	0.500	0.5070	101	0.5000	0.478	96	0.500	100	0.502	100
Sodium	10.0	10.4000	104	10.0000	9.97	100	10.0	100	10.1	101
Thallium	0.500	0.5060	101	0.5000	0.483	97	0.487	97	0.487	97
Vanadium	0.500	0.5000	100	0.5000	0.473	95	0.493	99	0.497	99
Zinc	0.500	0.5160	103	0.5000	0.483	97	0.504	101	0.507	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-12			R1841066-14		R1841066-16	
Date Analyzed :				06/14/24 11:11			06/14/24 12:00		06/14/24 12:58	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.470	94	0.472	94	0.469	94
Antimony				0.5000	0.490	98	0.492	98	0.482	96
Arsenic				0.5000	0.469	94	0.471	94	0.467	93
Barium				0.5000	0.497	99	0.501	100	0.494	99
Beryllium				0.5000	0.502	100	0.502	100	0.501	100
Cadmium				0.5000	0.496	99	0.494	99	0.487	97
Calcium				0.5000	0.491	98	0.491	98	0.486	97
Chromium				0.5000	0.493	99	0.490	98	0.483	97
Cobalt				0.5000	0.509	102	0.511	102	0.503	101
Copper				0.5000	0.494	99	0.493	99	0.486	97
Iron				0.5000	0.513	103	0.517	103	0.516	103
Lead				0.5000	0.486	97	0.483	97	0.482	96
Magnesium				0.5000	0.497	99	0.497	99	0.486	97
Manganese				0.5000	0.487	97	0.486	97	0.486	97
Nickel				0.5000	0.511	102	0.510	102	0.505	101
Potassium				5.0000	4.99	100	5.01	100	5.02	100
Selenium				0.5000	0.480	96	0.481	96	0.479	96
Silver				0.5000	0.502	100	0.502	100	0.496	99
Sodium				10.0000	10.1	101	10.0	100	10.0	100
Thallium				0.5000	0.481	96	0.482	96	0.479	96
Vanadium				0.5000	0.496	99	0.495	99	0.486	97
Zinc				0.5000	0.507	101	0.507	101	0.501	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-18			R1841066-20		R1841066-22	
Date Analyzed :				06/14/24 13:51			06/14/24 14:48		06/14/24 15:44	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.453	91	0.467	93	0.472	94
Antimony				0.5000	0.489	98	0.484	97	0.491	98
Arsenic				0.5000	0.471	94	0.463	93	0.473	95
Barium				0.5000	0.455	91	0.498	100	0.506	101
Beryllium				0.5000	0.464	93	0.502	100	0.505	101
Cadmium				0.5000	0.496	99	0.490	98	0.493	99
Calcium				0.5000	0.450	90	0.488	98	0.489	98
Chromium				0.5000	0.490	98	0.486	97	0.490	98
Cobalt				0.5000	0.508	102	0.503	101	0.509	102
Copper				0.5000	0.492	98	0.489	98	0.493	99
Iron				0.5000	0.473	95	0.515	103	0.510	102
Lead				0.5000	0.489	98	0.482	96	0.488	98
Magnesium				0.5000	0.495	99	0.492	98	0.493	99
Manganese				0.5000	0.448	90	0.486	97	0.487	97
Nickel				0.5000	0.510	102	0.504	101	0.509	102
Potassium				5.0000	4.59	92	5.01	100	5.01	100
Selenium				0.5000	0.483	97	0.474	95	0.481	96
Silver				0.5000	0.502	100	0.495	99	0.501	100
Sodium				10.0000	9.18	92	9.95	100	10.0	100
Thallium				0.5000	0.487	97	0.476	95	0.484	97
Vanadium				0.5000	0.492	98	0.490	98	0.495	99
Zinc				0.5000	0.507	101	0.499	100	0.504	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-24			R1841066-26		R1841066-28	
Date Analyzed :				06/14/24 16:02			06/14/24 16:14		06/14/24 17:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.467	93	0.466	93	0.466	93
Antimony				0.5000	0.484	97	0.483	97	0.479	96
Arsenic				0.5000	0.468	94	0.466	93	0.465	93
Barium				0.5000	0.499	100	0.500	100	0.502	100
Beryllium				0.5000	0.504	101	0.503	101	0.501	100
Cadmium				0.5000	0.488	98	0.488	98	0.484	97
Calcium				0.5000	0.486	97	0.487	97	0.487	97
Chromium				0.5000	0.486	97	0.486	97	0.483	97
Cobalt				0.5000	0.506	101	0.504	101	0.502	100
Copper				0.5000	0.491	98	0.487	97	0.487	97
Iron				0.5000	0.546	109	0.543	109	0.517	103
Lead				0.5000	0.485	97	0.484	97	0.482	96
Magnesium				0.5000	0.489	98	0.491	98	0.487	97
Manganese				0.5000	0.486	97	0.486	97	0.485	97
Nickel				0.5000	0.507	101	0.503	101	0.502	100
Potassium				5.0000	4.98	100	4.95	99	4.95	99
Selenium				0.5000	0.477	95	0.480	96	0.474	95
Silver				0.5000	0.498	100	0.497	99	0.495	99
Sodium				10.0000	9.98	100	9.94	99	9.94	99
Thallium				0.5000	0.480	96	0.478	96	0.477	95
Vanadium				0.5000	0.491	98	0.490	98	0.487	97
Zinc				0.5000	0.502	100	0.500	100	0.496	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-30			R1841066-32		R1841066-34	
Date Analyzed :				06/14/24 17:53			06/14/24 18:44		06/14/24 19:38	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.476	95	0.488	98	0.484	97
Antimony				0.5000	0.482	96	0.497	99	0.485	97
Arsenic				0.5000	0.464	93	0.465	93	0.463	93
Barium				0.5000	0.502	100	0.495	99	0.500	100
Beryllium				0.5000	0.502	100	0.500	100	0.506	101
Cadmium				0.5000	0.491	98	0.493	99	0.494	99
Calcium				0.5000	0.488	98	0.485	97	0.492	98
Chromium				0.5000	0.488	98	0.487	97	0.487	97
Cobalt				0.5000	0.504	101	0.506	101	0.507	101
Copper				0.5000	0.492	98	0.492	98	0.492	98
Iron				0.5000	0.520	104	0.515	103	0.530	106
Lead				0.5000	0.486	97	0.483	97	0.486	97
Magnesium				0.5000	0.495	99	0.492	98	0.494	99
Manganese				0.5000	0.487	97	0.482	96	0.489	98
Nickel				0.5000	0.504	101	0.509	102	0.508	102
Potassium				5.0000	5.00	100	5.11	102	5.13	103
Selenium				0.5000	0.474	95	0.472	94	0.474	95
Silver				0.5000	0.497	99	0.500	100	0.498	100
Sodium				10.0000	9.89	99	9.75	98	9.87	99
Thallium				0.5000	0.482	96	0.483	97	0.482	96
Vanadium				0.5000	0.492	98	0.489	98	0.489	98
Zinc				0.5000	0.499	100	0.501	100	0.502	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-36			R1841066-38		R1841066-40	
Date Analyzed :				06/14/24 20:30			06/14/24 20:59		06/14/24 21:52	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.478	96	0.479	96	0.476	95
Antimony				0.5000	0.458	92	0.484	97	0.484	97
Arsenic				0.5000	0.473	95	0.462	92	0.464	93
Barium				0.5000	0.504	101	0.500	100	0.500	100
Beryllium				0.5000	0.507	101	0.502	100	0.503	101
Cadmium				0.5000	0.467	93	0.493	99	0.488	98
Calcium				0.5000	0.488	98	0.486	97	0.488	98
Chromium				0.5000	0.462	92	0.486	97	0.482	96
Cobalt				0.5000	0.480	96	0.506	101	0.502	100
Copper				0.5000	0.467	93	0.491	98	0.487	97
Iron				0.5000	0.526	105	0.512	102	0.509	102
Lead				0.5000	0.498	100	0.484	97	0.485	97
Magnesium				0.5000	0.469	94	0.494	99	0.487	97
Manganese				0.5000	0.491	98	0.488	98	0.486	97
Nickel				0.5000	0.482	96	0.508	102	0.503	101
Potassium				5.0000	5.16	103	5.08	102	5.08	102
Selenium				0.5000	0.489	98	0.476	95	0.473	95
Silver				0.5000	0.474	95	0.498	100	0.495	99
Sodium				10.0000	9.86	99	9.79	98	9.75	98
Thallium				0.5000	0.494	99	0.481	96	0.485	97
Vanadium				0.5000	0.464	93	0.488	98	0.484	97
Zinc				0.5000	0.475	95	0.500	100	0.495	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-42			R1841066-44		R1841066-46	
Date Analyzed :				06/14/24 22:41			06/14/24 23:30		06/15/24 00:20	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.477	95	0.479	96	0.479	96
Antimony				0.5000	0.479	96	0.478	96	0.479	96
Arsenic				0.5000	0.465	93	0.462	92	0.462	92
Barium				0.5000	0.500	100	0.500	100	0.502	100
Beryllium				0.5000	0.502	100	0.502	100	0.503	101
Cadmium				0.5000	0.491	98	0.487	97	0.488	98
Calcium				0.5000	0.486	97	0.492	98	0.487	97
Chromium				0.5000	0.484	97	0.482	96	0.484	97
Cobalt				0.5000	0.504	101	0.501	100	0.503	101
Copper				0.5000	0.489	98	0.487	97	0.489	98
Iron				0.5000	0.517	103	0.514	103	0.508	102
Lead				0.5000	0.486	97	0.484	97	0.484	97
Magnesium				0.5000	0.492	98	0.489	98	0.490	98
Manganese				0.5000	0.486	97	0.486	97	0.485	97
Nickel				0.5000	0.505	101	0.503	101	0.504	101
Potassium				5.0000	5.07	101	5.05	101	5.03	101
Selenium				0.5000	0.474	95	0.472	94	0.474	95
Silver				0.5000	0.497	99	0.496	99	0.498	100
Sodium				10.0000	9.74	97	9.75	98	9.72	97
Thallium				0.5000	0.484	97	0.482	96	0.482	96
Vanadium				0.5000	0.488	98	0.484	97	0.486	97
Zinc				0.5000	0.499	100	0.496	99	0.495	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-48			R1841066-50		R1841066-52	
Date Analyzed :				06/15/24 01:13			06/15/24 01:53		06/15/24 03:02	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.479	96	0.471	94	0.478	96
Antimony				0.5000	0.484	97	0.478	96	0.487	97
Arsenic				0.5000	0.465	93	0.465	93	0.465	93
Barium				0.5000	0.503	101	0.500	100	0.505	101
Beryllium				0.5000	0.502	100	0.502	100	0.503	101
Cadmium				0.5000	0.492	98	0.486	97	0.487	97
Calcium				0.5000	0.489	98	0.485	97	0.489	98
Chromium				0.5000	0.487	97	0.484	97	0.485	97
Cobalt				0.5000	0.507	101	0.502	100	0.505	101
Copper				0.5000	0.496	99	0.490	98	0.494	99
Iron				0.5000	0.506	101	0.505	101	0.508	102
Lead				0.5000	0.486	97	0.486	97	0.486	97
Magnesium				0.5000	0.496	99	0.493	99	0.496	99
Manganese				0.5000	0.485	97	0.484	97	0.486	97
Nickel				0.5000	0.507	101	0.503	101	0.504	101
Potassium				5.0000	4.96	99	4.94	99	4.94	99
Selenium				0.5000	0.472	94	0.475	95	0.473	95
Silver				0.5000	0.502	100	0.498	100	0.498	100
Sodium				10.0000	9.74	97	9.77	98	9.80	98
Thallium				0.5000	0.481	96	0.478	96	0.480	96
Vanadium				0.5000	0.492	98	0.488	98	0.490	98
Zinc				0.5000	0.498	100	0.493	99	0.493	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841066-54			R1841066-56			
Date Analyzed :				06/15/24 04:12			06/15/24 05:03			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.477	95	0.474	95		
Antimony				0.5000	0.488	98	0.481	96		
Arsenic				0.5000	0.463	93	0.462	92		
Barium				0.5000	0.505	101	0.503	101		
Beryllium				0.5000	0.501	100	0.502	100		
Cadmium				0.5000	0.489	98	0.482	96		
Calcium				0.5000	0.489	98	0.488	98		
Chromium				0.5000	0.485	97	0.480	96		
Cobalt				0.5000	0.505	101	0.500	100		
Copper				0.5000	0.494	99	0.490	98		
Iron				0.5000	0.507	101	0.504	101		
Lead				0.5000	0.482	96	0.483	97		
Magnesium				0.5000	0.495	99	0.490	98		
Manganese				0.5000	0.485	97	0.485	97		
Nickel				0.5000	0.504	101	0.498	100		
Potassium				5.0000	4.93	99	4.90	98		
Selenium				0.5000	0.471	94	0.472	94		
Silver				0.5000	0.497	99	0.494	99		
Sodium				10.0000	9.83	98	9.80	98		
Thallium				0.5000	0.480	96	0.479	96		
Vanadium				0.5000	0.492	98	0.486	97		
Zinc				0.5000	0.494	99	0.488	98		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1841447-1									
Date Analyzed :	06/15/24 09:08									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5120	102							
Antimony	0.500	0.5070	101							
Arsenic	0.500	0.4840	97							
Barium	0.500	0.5100	102							
Beryllium	0.500	0.5160	103							
Cadmium	0.500	0.5170	103							
Calcium	0.500	0.4990	100							
Chromium	0.500	0.5080	102							
Cobalt	0.500	0.5270	105							
Copper	0.500	0.5120	102							
Iron	0.500	0.5250	105							
Lead	0.500	0.5020	100							
Magnesium	0.500	0.5150	103							
Manganese	0.500	0.5010	100							
Nickel	0.500	0.5230	105							
Potassium	5.00	5.4100	108							
Selenium	0.500	0.4900	98							
Silver	0.500	0.5200	104							
Sodium	10.0	10.4000	104							
Thallium	0.500	0.5120	102							
Vanadium	0.500	0.5090	102							
Zinc	0.500	0.5190	104							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1841447-3			R1841447-6			R1841447-8		R1841447-10	
Date Analyzed :	06/15/24 09:16			06/15/24 10:30			06/15/24 11:00		06/15/24 11:28	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5010	100	0.5000	0.503	101	0.509	102	0.504	101
Antimony	0.500	0.4870	97	0.5000	0.499	100	0.500	100	0.500	100
Arsenic	0.500	0.4740	95	0.5000	0.483	97	0.483	97	0.480	96
Barium	0.500	0.4960	99	0.5000	0.506	101	0.506	101	0.505	101
Beryllium	0.500	0.5060	101	0.5000	0.512	102	0.514	103	0.512	102
Cadmium	0.500	0.5000	100	0.5000	0.512	102	0.515	103	0.514	103
Calcium	0.500	0.4850	97	0.5000	0.496	99	0.497	99	0.506	101
Chromium	0.500	0.4920	98	0.5000	0.501	100	0.504	101	0.504	101
Cobalt	0.500	0.5090	102	0.5000	0.520	104	0.523	105	0.521	104
Copper	0.500	0.4940	99	0.5000	0.506	101	0.510	102	0.507	101
Iron	0.500	0.5070	101	0.5000	0.519	104	0.523	105	0.522	104
Lead	0.500	0.4930	99	0.5000	0.500	100	0.499	100	0.502	100
Magnesium	0.500	0.4960	99	0.5000	0.510	102	0.507	101	0.511	102
Manganese	0.500	0.4910	98	0.5000	0.498	100	0.498	100	0.497	99
Nickel	0.500	0.5030	101	0.5000	0.516	103	0.517	103	0.519	104
Potassium	5.00	5.2100	104	5.0000	5.37	107	5.36	107	5.32	106
Selenium	0.500	0.4790	96	0.5000	0.488	98	0.488	98	0.487	97
Silver	0.500	0.5010	100	0.5000	0.514	103	0.516	103	0.516	103
Sodium	10.0	10.2000	102	10.0000	10.3	103	10.3	103	10.3	103
Thallium	0.500	0.5010	100	0.5000	0.512	102	0.510	102	0.509	102
Vanadium	0.500	0.4910	98	0.5000	0.501	100	0.504	101	0.502	100
Zinc	0.500	0.5000	100	0.5000	0.512	102	0.513	103	0.515	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-12			R1841447-14		R1841447-16	
Date Analyzed :				06/15/24 12:13			06/15/24 13:02		06/15/24 13:22	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.505	101	0.506	101	0.508	102
Antimony				0.5000	0.503	101	0.502	100	0.500	100
Arsenic				0.5000	0.482	96	0.484	97	0.480	96
Barium				0.5000	0.503	101	0.504	101	0.503	101
Beryllium				0.5000	0.509	102	0.512	102	0.510	102
Cadmium				0.5000	0.517	103	0.516	103	0.517	103
Calcium				0.5000	0.495	99	0.499	100	0.498	100
Chromium				0.5000	0.506	101	0.507	101	0.506	101
Cobalt				0.5000	0.522	104	0.524	105	0.523	105
Copper				0.5000	0.512	102	0.511	102	0.510	102
Iron				0.5000	0.520	104	0.522	104	0.518	104
Lead				0.5000	0.500	100	0.505	101	0.502	100
Magnesium				0.5000	0.513	103	0.511	102	0.513	103
Manganese				0.5000	0.497	99	0.498	100	0.498	100
Nickel				0.5000	0.520	104	0.520	104	0.520	104
Potassium				5.0000	5.31	106	5.32	106	5.33	107
Selenium				0.5000	0.490	98	0.489	98	0.488	98
Silver				0.5000	0.518	104	0.519	104	0.516	103
Sodium				10.0000	10.3	103	10.3	103	10.3	103
Thallium				0.5000	0.511	102	0.514	103	0.511	102
Vanadium				0.5000	0.507	101	0.506	101	0.505	101
Zinc				0.5000	0.516	103	0.516	103	0.516	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-18			R1841447-20		R1841447-22	
Date Analyzed :				06/15/24 14:18			06/15/24 15:06		06/15/24 15:42	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.508	102	0.512	102	0.507	101
Antimony				0.5000	0.502	100	0.499	100	0.496	99
Arsenic				0.5000	0.476	95	0.479	96	0.478	96
Barium				0.5000	0.508	102	0.506	101	0.507	101
Beryllium				0.5000	0.513	103	0.512	102	0.512	102
Cadmium				0.5000	0.515	103	0.511	102	0.513	103
Calcium				0.5000	0.500	100	0.521	104	0.504	101
Chromium				0.5000	0.503	101	0.501	100	0.503	101
Cobalt				0.5000	0.522	104	0.518	104	0.520	104
Copper				0.5000	0.509	102	0.505	101	0.509	102
Iron				0.5000	0.524	105	0.527	105	0.523	105
Lead				0.5000	0.498	100	0.499	100	0.498	100
Magnesium				0.5000	0.512	102	0.514	103	0.512	102
Manganese				0.5000	0.500	100	0.498	100	0.498	100
Nickel				0.5000	0.516	103	0.516	103	0.516	103
Potassium				5.0000	5.29	106	5.24	105	5.25	105
Selenium				0.5000	0.482	96	0.485	97	0.484	97
Silver				0.5000	0.512	102	0.511	102	0.514	103
Sodium				10.0000	10.3	103	10.3	103	10.3	103
Thallium				0.5000	0.503	101	0.506	101	0.507	101
Vanadium				0.5000	0.504	101	0.502	100	0.504	101
Zinc				0.5000	0.514	103	0.510	102	0.512	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-24			R1841447-26		R1841447-28	
Date Analyzed :				06/15/24 16:35			06/15/24 17:43		06/15/24 18:40	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.505	101	0.504	101	0.506	101
Antimony				0.5000	0.494	99	0.485	97	0.496	99
Arsenic				0.5000	0.475	95	0.473	95	0.480	96
Barium				0.5000	0.506	101	0.501	100	0.506	101
Beryllium				0.5000	0.510	102	0.506	101	0.513	103
Cadmium				0.5000	0.506	101	0.502	100	0.512	102
Calcium				0.5000	0.499	100	0.500	100	0.510	102
Chromium				0.5000	0.495	99	0.494	99	0.503	101
Cobalt				0.5000	0.514	103	0.510	102	0.520	104
Copper				0.5000	0.501	100	0.497	99	0.507	101
Iron				0.5000	0.527	105	0.532	106	0.539	108
Lead				0.5000	0.496	99	0.492	98	0.500	100
Magnesium				0.5000	0.503	101	0.504	101	0.512	102
Manganese				0.5000	0.498	100	0.494	99	0.499	100
Nickel				0.5000	0.508	102	0.508	102	0.517	103
Potassium				5.0000	5.25	105	5.19	104	5.23	105
Selenium				0.5000	0.484	97	0.480	96	0.487	97
Silver				0.5000	0.506	101	0.506	101	0.515	103
Sodium				10.0000	10.2	102	10.2	102	10.2	102
Thallium				0.5000	0.503	101	0.499	100	0.511	102
Vanadium				0.5000	0.496	99	0.494	99	0.504	101
Zinc				0.5000	0.504	101	0.503	101	0.513	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-30			R1841447-32		R1841447-34	
Date Analyzed :				06/15/24 19:31			06/15/24 20:20		06/15/24 21:09	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.507	101	0.511	102	0.514	103
Antimony				0.5000	0.489	98	0.504	101	0.498	100
Arsenic				0.5000	0.475	95	0.480	96	0.477	95
Barium				0.5000	0.508	102	0.509	102	0.507	101
Beryllium				0.5000	0.511	102	0.514	103	0.514	103
Cadmium				0.5000	0.510	102	0.514	103	0.512	102
Calcium				0.5000	0.510	102	0.512	102	0.512	102
Chromium				0.5000	0.501	100	0.504	101	0.502	100
Cobalt				0.5000	0.519	104	0.522	104	0.521	104
Copper				0.5000	0.506	101	0.511	102	0.506	101
Iron				0.5000	0.539	108	0.542	108	0.549	110
Lead				0.5000	0.496	99	0.498	100	0.498	100
Magnesium				0.5000	0.512	102	0.515	103	0.512	102
Manganese				0.5000	0.497	99	0.500	100	0.501	100
Nickel				0.5000	0.514	103	0.518	104	0.516	103
Potassium				5.0000	5.22	104	5.25	105	5.27	105
Selenium				0.5000	0.482	96	0.486	97	0.485	97
Silver				0.5000	0.512	102	0.515	103	0.513	103
Sodium				10.0000	10.3	103	10.3	103	10.3	103
Thallium				0.5000	0.503	101	0.508	102	0.504	101
Vanadium				0.5000	0.503	101	0.506	101	0.504	101
Zinc				0.5000	0.510	102	0.514	103	0.514	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-36			R1841447-38		R1841447-40	
Date Analyzed :				06/15/24 22:01			06/15/24 22:22		06/15/24 23:38	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.512	102	0.510	102	0.516	103
Antimony				0.5000	0.478	96	0.494	99	0.496	99
Arsenic				0.5000	0.470	94	0.452	90	0.478	96
Barium				0.5000	0.505	101	0.502	100	0.505	101
Beryllium				0.5000	0.512	102	0.507	101	0.515	103
Cadmium				0.5000	0.494	99	0.512	102	0.515	103
Calcium				0.5000	0.509	102	0.509	102	0.514	103
Chromium				0.5000	0.488	98	0.504	101	0.503	101
Cobalt				0.5000	0.503	101	0.521	104	0.521	104
Copper				0.5000	0.490	98	0.508	102	0.507	101
Iron				0.5000	0.552	110	0.550	110	0.558	112
Lead				0.5000	0.490	98	0.469	94	0.500	100
Magnesium				0.5000	0.496	99	0.513	103	0.512	102
Manganese				0.5000	0.496	99	0.494	99	0.504	101
Nickel				0.5000	0.502	100	0.518	104	0.517	103
Potassium				5.0000	5.22	104	5.16	103	5.34	107
Selenium				0.5000	0.476	95	0.458	92	0.487	97
Silver				0.5000	0.498	100	0.515	103	0.514	103
Sodium				10.0000	10.2	102	10.1	101	10.2	102
Thallium				0.5000	0.498	100	0.477	95	0.509	102
Vanadium				0.5000	0.490	98	0.506	101	0.502	100
Zinc				0.5000	0.498	100	0.515	103	0.515	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-42			R1841447-44		R1841447-46	
Date Analyzed :				06/15/24 23:53			06/16/24 00:43		06/16/24 01:55	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.507	101	0.508	102	0.506	101
Antimony				0.5000	0.493	99	0.495	99	0.497	99
Arsenic				0.5000	0.474	95	0.479	96	0.479	96
Barium				0.5000	0.503	101	0.503	101	0.504	101
Beryllium				0.5000	0.511	102	0.512	102	0.511	102
Cadmium				0.5000	0.511	102	0.513	103	0.513	103
Calcium				0.5000	0.507	101	0.507	101	0.507	101
Chromium				0.5000	0.500	100	0.501	100	0.503	101
Cobalt				0.5000	0.516	103	0.519	104	0.518	104
Copper				0.5000	0.502	100	0.504	101	0.507	101
Iron				0.5000	0.534	107	0.546	109	0.535	107
Lead				0.5000	0.498	100	0.500	100	0.498	100
Magnesium				0.5000	0.509	102	0.511	102	0.513	103
Manganese				0.5000	0.499	100	0.501	100	0.498	100
Nickel				0.5000	0.513	103	0.515	103	0.518	104
Potassium				5.0000	5.27	105	5.25	105	5.20	104
Selenium				0.5000	0.481	96	0.488	98	0.482	96
Silver				0.5000	0.511	102	0.512	102	0.512	102
Sodium				10.0000	10.2	102	10.2	102	10.2	102
Thallium				0.5000	0.509	102	0.509	102	0.505	101
Vanadium				0.5000	0.500	100	0.500	100	0.502	100
Zinc				0.5000	0.512	102	0.512	102	0.513	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841447-48						
Date Analyzed :				06/16/24 02:45						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.512	102				
Antimony				0.5000	0.502	100				
Arsenic				0.5000	0.483	97				
Barium				0.5000	0.511	102				
Beryllium				0.5000	0.516	103				
Cadmium				0.5000	0.517	103				
Calcium				0.5000	0.512	102				
Chromium				0.5000	0.508	102				
Cobalt				0.5000	0.523	105				
Copper				0.5000	0.513	103				
Iron				0.5000	0.538	108				
Lead				0.5000	0.502	100				
Magnesium				0.5000	0.518	104				
Manganese				0.5000	0.503	101				
Nickel				0.5000	0.522	104				
Potassium				5.0000	5.28	106				
Selenium				0.5000	0.488	98				
Silver				0.5000	0.519	104				
Sodium				10.0000	10.3	103				
Thallium				0.5000	0.510	102				
Vanadium				0.5000	0.512	102				
Zinc				0.5000	0.516	103				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1841612-1									
Date Analyzed	:	06/16/24 06:28									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5180	104							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1841612-3			R1841612-6			R1841612-8		R1841612-10	
Date Analyzed	:	06/16/24 06:41			06/16/24 10:16			06/16/24 12:03		06/16/24 13:50	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5080	102	0.5000	0.500	100	0.486	97	0.485	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1841928-1									
Date Analyzed	:	06/17/24 07:47									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.5090	102							
Antimony		0.500	0.5310	106							
Arsenic		0.500	0.5020	100							
Barium		0.500	0.5220	104							
Beryllium		0.500	0.5280	106							
Cadmium		0.500	0.5280	106							
Calcium		0.500	0.5200	104							
Chromium		0.500	0.5140	103							
Cobalt		0.500	0.5320	106							
Copper		0.500	0.5120	102							
Iron		0.500	0.5510	110							
Lead		0.500	0.5140	103							
Magnesium		0.500	0.5150	103							
Manganese		0.500	0.5130	103							
Nickel		0.500	0.5300	106							
Selenium		0.500	0.5050	101							
Silver		0.500	0.5170	103							
Sodium		10.0	10.5000	105							
Thallium		0.500	0.5130	103							
Vanadium		0.500	0.5140	103							
Zinc		0.500	0.5330	107							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1841928-3			R1841928-6			R1841928-8		R1841928-10	
Date Analyzed :	06/17/24 07:59			06/17/24 10:09			06/17/24 11:56		06/17/24 13:26	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4860	97	0.5000	0.493	99	0.475	95	0.467	93
Antimony	0.500	0.5170	103	0.5000	0.511	102	0.502	100	0.492	98
Arsenic	0.500	0.4860	97	0.5000	0.484	97	0.479	96	0.474	95
Barium	0.500	0.5040	101	0.5000	0.501	100	0.501	100	0.493	99
Beryllium	0.500	0.5180	104	0.5000	0.511	102	0.513	103	0.509	102
Cadmium	0.500	0.5160	103	0.5000	0.511	102	0.505	101	0.489	98
Calcium	0.500	0.4960	99	0.5000	0.499	100	0.494	99	0.487	97
Chromium	0.500	0.5020	100	0.5000	0.497	99	0.497	99	0.484	97
Cobalt	0.500	0.5200	104	0.5000	0.516	103	0.514	103	0.499	100
Copper	0.500	0.5000	100	0.5000	0.494	99	0.490	98	0.475	95
Iron	0.500	0.5180	104	0.5000	0.520	104	0.512	102	0.509	102
Lead	0.500	0.5000	100	0.5000	0.497	99	0.494	99	0.486	97
Magnesium	0.500	0.4970	99	0.5000	0.495	99	0.494	99	0.478	96
Manganese	0.500	0.4990	100	0.5000	0.497	99	0.495	99	0.490	98
Nickel	0.500	0.5190	104	0.5000	0.514	103	0.512	102	0.498	100
Selenium	0.500	0.4900	98	0.5000	0.490	98	0.486	97	0.480	96
Silver	0.500	0.5040	101	0.5000	0.499	100	0.497	99	0.485	97
Sodium	10.0	10.2000	102	10.0000	10.1	101	10.2	102	10.1	101
Thallium	0.500	0.4970	99	0.5000	0.496	99	0.484	97	0.476	95
Vanadium	0.500	0.5010	100	0.5000	0.496	99	0.495	99	0.483	97
Zinc	0.500	0.5180	104	0.5000	0.514	103	0.515	103	0.499	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841928-12			R1841928-14		R1841928-16	
Date Analyzed :				06/17/24 14:36			06/17/24 15:25		06/17/24 16:02	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.478	96	0.485	97	0.470	94
Antimony				0.5000	0.500	100	0.502	100	0.512	102
Arsenic				0.5000	0.480	96	0.483	97	0.485	97
Barium				0.5000	0.503	101	0.507	101	0.500	100
Beryllium				0.5000	0.519	104	0.523	105	0.520	104
Cadmium				0.5000	0.499	100	0.498	100	0.503	101
Calcium				0.5000	0.495	99	0.504	101	0.496	99
Chromium				0.5000	0.493	99	0.492	98	0.499	100
Cobalt				0.5000	0.510	102	0.509	102	0.514	103
Copper				0.5000	0.486	97	0.486	97	0.490	98
Iron				0.5000	0.526	105	0.525	105	0.515	103
Lead				0.5000	0.494	99	0.499	100	0.496	99
Magnesium				0.5000	0.489	98	0.486	97	0.491	98
Manganese				0.5000	0.500	100	0.503	101	0.499	100
Nickel				0.5000	0.508	102	0.507	101	0.516	103
Selenium				0.5000	0.488	98	0.492	98	0.496	99
Silver				0.5000	0.495	99	0.495	99	0.500	100
Sodium				10.0000	10.2	102	10.3	103	10.2	102
Thallium				0.5000	0.484	97	0.486	97	0.490	98
Vanadium				0.5000	0.493	99	0.493	99	0.497	99
Zinc				0.5000	0.509	102	0.507	101	0.515	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841928-18			R1841928-20		R1841928-22	
Date Analyzed :				06/17/24 17:12			06/17/24 18:08		06/17/24 20:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.469	94	0.476	95	0.494	99
Antimony				0.5000	0.512	102	0.507	101	0.525	105
Arsenic				0.5000	0.480	96	0.478	96	0.477	95
Barium				0.5000	0.494	99	0.495	99	0.503	101
Beryllium				0.5000	0.517	103	0.516	103	0.520	104
Cadmium				0.5000	0.506	101	0.505	101	0.510	102
Calcium				0.5000	0.495	99	0.514	103	0.504	101
Chromium				0.5000	0.502	100	0.501	100	0.503	101
Cobalt				0.5000	0.518	104	0.518	104	0.517	103
Copper				0.5000	0.493	99	0.493	99	0.497	99
Iron				0.5000	0.519	104	0.526	105	0.516	103
Lead				0.5000	0.496	99	0.495	99	0.500	100
Magnesium				0.5000	0.494	99	0.497	99	0.498	100
Manganese				0.5000	0.498	100	0.493	99	0.498	100
Nickel				0.5000	0.519	104	0.518	104	0.518	104
Selenium				0.5000	0.490	98	0.486	97	0.486	97
Silver				0.5000	0.504	101	0.502	100	0.503	101
Sodium				10.0000	10.1	101	10.0	100	10.1	101
Thallium				0.5000	0.488	98	0.484	97	0.492	98
Vanadium				0.5000	0.500	100	0.500	100	0.502	100
Zinc				0.5000	0.518	104	0.516	103	0.513	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841928-24			R1841928-26		R1841928-28	
Date Analyzed :				06/17/24 21:05			06/17/24 21:54		06/17/24 22:43	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.488	98	0.487	97	0.481	96
Antimony				0.5000	0.503	101	0.510	102	0.506	101
Arsenic				0.5000	0.471	94	0.474	95	0.472	94
Barium				0.5000	0.498	100	0.497	99	0.498	100
Beryllium				0.5000	0.512	102	0.514	103	0.513	103
Cadmium				0.5000	0.509	102	0.512	102	0.504	101
Calcium				0.5000	0.496	99	0.492	98	0.492	98
Chromium				0.5000	0.498	100	0.500	100	0.496	99
Cobalt				0.5000	0.516	103	0.518	104	0.511	102
Copper				0.5000	0.496	99	0.498	100	0.493	99
Iron				0.5000	0.504	101	0.507	101	0.506	101
Lead				0.5000	0.495	99	0.497	99	0.495	99
Magnesium				0.5000	0.495	99	0.497	99	0.492	98
Manganese				0.5000	0.492	98	0.493	99	0.491	98
Nickel				0.5000	0.516	103	0.517	103	0.510	102
Selenium				0.5000	0.485	97	0.484	97	0.482	96
Silver				0.5000	0.500	100	0.502	100	0.496	99
Sodium				10.0000	10.0	100	9.92	99	9.91	99
Thallium				0.5000	0.484	97	0.488	98	0.486	97
Vanadium				0.5000	0.497	99	0.499	100	0.495	99
Zinc				0.5000	0.512	102	0.512	102	0.505	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841928-30			R1841928-32			
Date Analyzed :				06/17/24 23:16			06/17/24 23:24			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.485	97	0.486	97		
Antimony				0.5000	0.499	100	0.501	100		
Arsenic				0.5000	0.472	94	0.470	94		
Barium				0.5000	0.496	99	0.497	99		
Beryllium				0.5000	0.513	103	0.512	102		
Cadmium				0.5000	0.504	101	0.504	101		
Calcium				0.5000	0.493	99	0.492	98		
Chromium				0.5000	0.496	99	0.496	99		
Cobalt				0.5000	0.513	103	0.512	102		
Copper				0.5000	0.494	99	0.492	98		
Iron				0.5000	0.505	101	0.506	101		
Lead				0.5000	0.493	99	0.494	99		
Magnesium				0.5000	0.494	99	0.495	99		
Manganese				0.5000	0.491	98	0.489	98		
Nickel				0.5000	0.511	102	0.511	102		
Selenium				0.5000	0.482	96	0.482	96		
Silver				0.5000	0.498	100	0.497	99		
Sodium				10.0000	9.94	99	9.87	99		
Thallium				0.5000	0.484	97	0.484	97		
Vanadium				0.5000	0.497	99	0.495	99		
Zinc				0.5000	0.506	101	0.505	101		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842119-1									
Date Analyzed	:	06/17/24 13:57									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium		5.00	5.1300	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842119-3			R1842119-6			R1842119-8		R1842119-10	
Date Analyzed :	06/17/24 14:10			06/17/24 17:15			06/17/24 17:46		06/17/24 19:07	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium	5.00	5.2200	104	5.0000	5.34	107	5.19	104	5.22	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842119-12			R1842119-14		R1842119-16	
Date Analyzed :				06/17/24 19:58			06/17/24 21:21		06/17/24 22:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium				5.0000	5.11	102	5.01	100	4.95	99

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842119-18			R1842119-20		R1842119-22	
Date Analyzed :				06/17/24 22:38			06/17/24 23:12		06/18/24 00:34	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium				5.0000	4.92	98	4.91	98	4.77	95

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842282-1									
Date Analyzed	:	06/18/24 04:44									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium		5.00	5.2600	105							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842282-3			R1842282-6			R1842282-8		R1842282-10	
Date Analyzed :	06/18/24 04:52			06/18/24 07:16			06/18/24 08:19		06/18/24 09:08	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium	5.00	5.4100	108	5.0000	5.27	105	5.28	106	5.27	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842282-12			R1842282-14			
Date Analyzed :				06/18/24 10:05			06/18/24 10:59			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Potassium				5.0000	5.20	104	5.23	105		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841066-2		R1841066-7		R1841066-9		R1841066-11		WG1934502-1	
Date Analyzed :	06/14/24 05:51		06/14/24 08:21		06/14/24 09:32		06/14/24 10:23		06/15/24 04:30	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00248	J	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841066-4		R1841066-13		R1841066-15		R1841066-17			
Date Analyzed :	06/14/24 06:00		06/14/24 11:15		06/14/24 12:04		06/14/24 13:02			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-19		R1841066-21		R1841066-23			
Date Analyzed :			06/14/24 13:55		06/14/24 14:52		06/14/24 15:48			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-25		R1841066-27		R1841066-29			
Date Analyzed :			06/14/24 16:06		06/14/24 16:18		06/14/24 17:05			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-31		R1841066-33		R1841066-35			
Date Analyzed :			06/14/24 17:57		06/14/24 18:48		06/14/24 19:42			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00193	J		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.0120	J	0.0136	J	0.0132	J		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-37		R1841066-39		R1841066-41			
Date Analyzed :			06/14/24 20:34		06/14/24 21:02		06/14/24 21:56			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-43		R1841066-45		R1841066-47			
Date Analyzed :			06/14/24 22:45		06/14/24 23:34		06/15/24 00:24			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-49		R1841066-51		R1841066-53			
Date Analyzed :			06/15/24 01:17		06/15/24 01:57		06/15/24 03:06			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841066-55		R1841066-57					
Date Analyzed :			06/15/24 04:16		06/15/24 05:07					
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841447-2		R1841447-7		R1841447-9		R1841447-11			
Date Analyzed :	06/15/24 09:12		06/15/24 10:34		06/15/24 11:04		06/15/24 11:32			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841447-4		R1841447-13		R1841447-15		R1841447-17			
Date Analyzed :	06/15/24 09:20		06/15/24 12:16		06/15/24 13:06		06/15/24 13:26			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841447-19		R1841447-21		R1841447-23			
Date Analyzed :			06/15/24 14:22		06/15/24 15:10		06/15/24 15:46			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841447-25		R1841447-27		R1841447-29			
Date Analyzed :			06/15/24 16:39		06/15/24 17:47		06/15/24 18:44			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841447-31		R1841447-33		R1841447-35			
Date Analyzed :			06/15/24 19:35		06/15/24 20:24		06/15/24 21:13			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841447-37		R1841447-39		R1841447-41			
Date Analyzed :			06/15/24 22:05		06/15/24 22:26		06/15/24 23:42			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841447-43		R1841447-45		R1841447-47			
Date Analyzed :			06/15/24 23:57		06/16/24 00:47		06/16/24 01:59			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841447-49							
Date Analyzed :			06/16/24 02:49							
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U						
Antimony			0.00710	U						
Arsenic			0.00190	U						
Barium			0.00210	U						
Beryllium			0.000900	U						
Cadmium			0.00100	U						
Calcium			0.0350	U						
Chromium			0.00210	U						
Cobalt			0.00170	U						
Copper			0.00220	U						
Iron			0.00900	U						
Lead			0.00270	U						
Magnesium			0.0153	U						
Manganese			0.00160	U						
Nickel			0.00240	U						
Potassium			0.237	U						
Selenium			0.00350	U						
Silver			0.00280	U						
Sodium			0.120	U						
Thallium			0.00250	U						
Vanadium			0.00200	U						
Zinc			0.00210	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841612-2		R1841612-7		R1841612-9		R1841612-11			
Date Analyzed :	06/16/24 06:34		06/16/24 10:22		06/16/24 12:09		06/16/24 13:56			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1841612-4				
Date Analyzed :	06/16/24 06:47				
Parameter	mg/l Q	Q	Q	Q	Q
Antimony	0.00710 U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841928-2		R1841928-7		R1841928-9		R1841928-11		WG1934555-1	
Date Analyzed :	06/17/24 07:51		06/17/24 10:13		06/17/24 12:00		06/17/24 13:30		06/17/24 22:06	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00948	J	0.0129	J	0.0125	J	0.0156	J	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1841928-4		R1841928-13		R1841928-15		R1841928-17			
Date Analyzed :	06/17/24 08:03		06/17/24 14:40		06/17/24 15:29		06/17/24 16:07			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.0122	J	0.0172	J	0.0158	J	0.0148	J		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841928-19		R1841928-21		R1841928-23			
Date Analyzed :			06/17/24 17:16		06/17/24 18:12		06/17/24 20:21			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.0165	J	0.0178	J	0.0170	J		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841928-25		R1841928-27		R1841928-29			
Date Analyzed :			06/17/24 21:09		06/17/24 21:58		06/17/24 22:47			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.122	J	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841928-31		R1841928-33					
Date Analyzed :			06/17/24 23:20		06/17/24 23:28					
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00920	J	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1842119-2		R1842119-7		R1842119-9		R1842119-11		WG1934555-1	
Date Analyzed	:	06/17/24 14:04		06/17/24 17:21		06/17/24 17:53		06/17/24 19:14		06/17/24 23:26	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Potassium		0.237	U	0.237	U	0.237	U	0.237	U	0.237	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842119-4		R1842119-13		R1842119-15		R1842119-17			
Date Analyzed :	06/17/24 14:17		06/17/24 20:04		06/17/24 21:27		06/17/24 22:32			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842119-19		R1842119-21		R1842119-23			
Date Analyzed :			06/17/24 22:45		06/17/24 23:18		06/18/24 00:40			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Potassium			0.237	U	0.237	U	0.237	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1842282-2		R1842282-7		R1842282-9		R1842282-11			
Date Analyzed	:	06/18/24 04:48		06/18/24 07:21		06/18/24 08:23		06/18/24 09:12			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Potassium		0.237	U	0.237	U	0.237	U	0.237	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1842282-4		R1842282-13		R1842282-15					
Date Analyzed	:	06/18/24 04:56		06/18/24 10:09		06/18/24 11:03					
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Potassium		0.237	U	0.237	U	0.237	U				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1841066-5							
Analysis Date :			06/14/24 06:32							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		504.	101						
Antimony			-0.00121							
Arsenic			0.00224							
Barium			0.00230							
Beryllium			0.0000579							
Cadmium			0.000378							
Calcium	500		470.	94						
Chromium			-0.000690							
Cobalt			-0.000122							
Copper			0.000368							
Iron	200		189.	94						
Lead			-0.00590							
Magnesium	500		470.	94						
Manganese			0.00188							
Nickel			-0.000493							
Potassium			-0.000258							
Selenium			-0.00111							
Silver			0.0000602							
Sodium			0.0464							
Thallium			0.00280							
Vanadium			-0.000815							
Zinc			0.00128							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1841447-5							
Analysis Date :			06/15/24 09:28							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		513.	103						
Antimony			-0.00209							
Arsenic			-0.00151							
Barium			0.00222							
Beryllium			0.000116							
Cadmium			0.000638							
Calcium	500		472.	94						
Chromium			-0.000656							
Cobalt			-0.0000672							
Copper			0.000990							
Iron	200		190.	95						
Lead			-0.00870							
Magnesium	500		480.	96						
Manganese			0.00193							
Nickel			-0.000739							
Potassium			0.0386							
Selenium			-0.0000674							
Silver			0.000648							
Sodium			0.0582							
Thallium			0.00262							
Vanadium			-0.00164							
Zinc			0.00146							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1841612-5							
Analysis Date :			06/16/24 07:00							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Antimony			0.0128							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1841928-5							
Analysis Date :			06/17/24 08:15							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		490.	98						
Antimony			-0.00508							
Arsenic			0.00135							
Barium			0.00210							
Beryllium			0.0000394							
Cadmium			-0.000277							
Calcium	500		465.	93						
Chromium			-0.000843							
Cobalt			-0.000625							
Copper			-0.000519							
Iron	200		187.	94						
Lead			0.00431							
Magnesium	500		470.	94						
Manganese			0.00200							
Nickel			-0.00136							
Selenium			-0.00320							
Silver			-0.000394							
Sodium			0.0212							
Thallium			0.00366							
Vanadium			0.000416							
Zinc			-0.000157							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Concentration Units**	: mg/l

		True		Initial Found				Final Found			
Lab ID	:			R1842119-5							
Analysis Date	:			06/17/24 14:30							
Analyte		**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Potassium				0.0802							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842282-5							
Analysis Date :			06/18/24 05:39							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Potassium			-0.00464							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: LIQUID
Lab Sample ID	: L2432272-01		
Matrix Spike	: WG1934502-3	**MS Analysis Date**	: 06/15/24 04:42
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	1.88	94					75-125	20
Antimony, Total	ND	0.5	0.414	83					75-125	20
Arsenic, Total	0.002J	0.12	0.128	107					75-125	20
Barium, Total	0.039	2	2.11	104					75-125	20
Beryllium, Total	ND	0.05	0.0520	104					75-125	20
Cadmium, Total	ND	0.053	0.0558	105					75-125	20
Calcium, Total	12.8	10	23.0	102					75-125	20
Chromium, Total	ND	0.2	0.206	103					75-125	20
Cobalt, Total	ND	0.5	0.523	105					75-125	20
Copper, Total	ND	0.25	0.267	107					75-125	20
Iron, Total	0.270	1	1.29	102					75-125	20
Lead, Total	ND	0.53	0.551	104					75-125	20
Magnesium, Total	3.47	10	14.2	107					75-125	20
Manganese, Total	0.0046J	0.5	0.508	102					75-125	20
Nickel, Total	ND	0.5	0.528	106					75-125	20
Potassium, Total	1.84J	10	12.2	122					75-125	20
Selenium, Total	ND	0.12	0.129	108					75-125	20
Silver, Total	ND	0.05	0.0527	105					75-125	20
Sodium, Total	25.3	10	35.4	101					75-125	20
Thallium, Total	ND	0.12	0.123	102					75-125	20
Vanadium, Total	ND	0.5	0.528	106					75-125	20
Zinc, Total	ND	0.5	0.533	107					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: LIQUID
Lab Sample ID	: L2432272-02		
Matrix Spike	: WG1934502-7	**MS Analysis Date**	: 06/16/24 01:39
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.12	106						75-125	20
Antimony, Total	ND	0.5	0.447	89						75-125	20
Arsenic, Total	ND	0.12	0.132	110						75-125	20
Barium, Total	0.040	2	2.14	105						75-125	20
Beryllium, Total	ND	0.05	0.0536	107						75-125	20
Cadmium, Total	ND	0.053	0.0596	112						75-125	20
Calcium, Total	13.6	10	23.6	100						75-125	20
Chromium, Total	ND	0.2	0.215	108						75-125	20
Cobalt, Total	ND	0.5	0.545	109						75-125	20
Copper, Total	ND	0.25	0.278	111						75-125	20
Iron, Total	0.292	1	1.35	106						75-125	20
Lead, Total	ND	0.53	0.567	107						75-125	20
Magnesium, Total	3.78	10	14.7	109						75-125	20
Manganese, Total	0.0048J	0.5	0.530	106						75-125	20
Nickel, Total	ND	0.5	0.548	110						75-125	20
Potassium, Total	2.12J	10	12.9	129	Q					75-125	20
Selenium, Total	ND	0.12	0.133	111						75-125	20
Silver, Total	ND	0.05	0.0552	110						75-125	20
Sodium, Total	27.5	10	37.1	96						75-125	20
Thallium, Total	ND	0.12	0.132	110						75-125	20
Vanadium, Total	ND	0.5	0.552	110						75-125	20
Zinc, Total	0.003J	0.5	0.563	113						75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01		
Matrix Spike	: WG1934555-3	**MS Analysis Date**	: 06/17/24 22:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	2.06	103					75-125	20
Antimony, Dissolved	ND	0.5	0.512	102					75-125	20
Arsenic, Dissolved	ND	0.12	0.126	105					75-125	20
Barium, Dissolved	0.0335	2	2.08	102					75-125	20
Beryllium, Dissolved	ND	0.05	0.0532	106					75-125	20
Cadmium, Dissolved	ND	0.053	0.0585	110					75-125	20
Calcium, Dissolved	35.4	10	44.9	95					75-125	20
Chromium, Dissolved	ND	0.2	0.215	108					75-125	20
Cobalt, Dissolved	ND	0.5	0.537	107					75-125	20
Copper, Dissolved	0.0036J	0.25	0.276	110					75-125	20
Iron, Dissolved	0.0251J	1	1.06	106					75-125	20
Lead, Dissolved	ND	0.53	0.555	105					75-125	20
Magnesium, Dissolved	10.8	10	21.2	104					75-125	20
Manganese, Dissolved	0.0016J	0.5	0.517	103					75-125	20
Nickel, Dissolved	ND	0.5	0.542	108					75-125	20
Selenium, Dissolved	ND	0.12	0.129	108					75-125	20
Silver, Dissolved	ND	0.05	0.0554	111					75-125	20
Sodium, Dissolved	4.33	10	14.6	103					75-125	20
Thallium, Dissolved	ND	0.12	0.127	106					75-125	20
Vanadium, Dissolved	ND	0.5	0.547	109					75-125	20
Zinc, Dissolved	0.0064	0.5	0.551	109					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01		
Matrix Spike	: WG1934555-3	**MS Analysis Date**	: 06/18/24 00:08
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Potassium, Dissolved	1.30J	10	11.1	111					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/15/24 04:38
Dup Sample ID	: WG1934502-4	**DUP Analysis Date**	: 06/15/24 04:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Iron, Total	0.270	0.261	3	20
Manganese, Total	0.0046J	0.0073J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/16/24 01:35
Dup Sample ID	: WG1934502-8	**DUP Analysis Date**	: 06/16/24 01:43

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Iron, Total	0.292	0.299	2	20
Manganese, Total	0.0048J	0.0050J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01	**Analysis Date**	: 06/17/24 22:23
Dup Sample ID	: WG1934555-4	**DUP Analysis Date**	: 06/17/24 22:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Dissolved	ND	ND	NC	20
Antimony, Dissolved	ND	ND	NC	20
Arsenic, Dissolved	ND	ND	NC	20
Barium, Dissolved	0.0335	0.0331	1	20
Beryllium, Dissolved	ND	ND	NC	20
Cadmium, Dissolved	ND	ND	NC	20
Calcium, Dissolved	35.4	35.3	0	20
Chromium, Dissolved	ND	ND	NC	20
Cobalt, Dissolved	ND	ND	NC	20
Copper, Dissolved	0.0036J	0.0030J	NC	20
Iron, Dissolved	0.0251J	0.0247J	NC	20
Lead, Dissolved	ND	ND	NC	20
Magnesium, Dissolved	10.8	10.7	1	20
Manganese, Dissolved	0.0016J	0.0016J	NC	20
Nickel, Dissolved	ND	ND	NC	20
Selenium, Dissolved	ND	ND	NC	20
Silver, Dissolved	ND	ND	NC	20
Sodium, Dissolved	4.33	4.25	2	20
Thallium, Dissolved	ND	ND	NC	20
Vanadium, Dissolved	ND	ND	NC	20
Zinc, Dissolved	0.0064	0.0044J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01	**Analysis Date**	: 06/18/24 00:02
Dup Sample ID	: WG1934555-4	**DUP Analysis Date**	: 06/18/24 00:15

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Potassium, Dissolved	1.30J	1.30J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: LIQUID
Lab Sample ID	: WG1934502-2	**LCS Analysis Date**	: 06/15/24 04:34
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Total	2.00	1.86	93.					85-115	20
Arsenic, Total	0.120	0.121	101.					85-115	20
Barium, Total	2.00	2.03	102.					85-115	20
Beryllium, Total	0.0500	0.0502	100.					85-115	20
Cadmium, Total	0.0530	0.0542	102.					85-115	20
Calcium, Total	10.0	10.1	101.					85-115	20
Chromium, Total	0.200	0.200	100.					85-115	20
Cobalt, Total	0.500	0.508	102.					85-115	20
Copper, Total	0.250	0.259	104.					85-115	20
Iron, Total	1.00	1.01	101.					85-115	20
Lead, Total	0.530	0.536	101.					85-115	20
Magnesium, Total	10.0	10.3	103.					85-115	20
Manganese, Total	0.500	0.497	99.					85-115	20
Nickel, Total	0.500	0.514	103.					85-115	20
Potassium, Total	10.0	10.1	101.					85-115	20
Selenium, Total	0.120	0.122	102.					85-115	20
Silver, Total	0.0500	0.0514	103.					85-115	20
Sodium, Total	10.0	10.2	102.					85-115	20
Thallium, Total	0.120	0.121	101.					85-115	20
Vanadium, Total	0.500	0.512	102.					85-115	20
Zinc, Total	0.500	0.512	102.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934502-2	**LCS Analysis Date**	: 06/16/24 12:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Antimony, Total	**0.500**	**0.484**	**97.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934555-2	**LCS Analysis Date**	: 06/17/24 22:11
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	2.06	103.					85-115	20
Antimony, Dissolved	0.500	0.459	92.					85-115	20
Arsenic, Dissolved	0.120	0.123	102.					85-115	20
Barium, Dissolved	2.00	2.05	102.					85-115	20
Beryllium, Dissolved	0.0500	0.0524	105.					85-115	20
Cadmium, Dissolved	0.0530	0.0583	110.					85-115	20
Calcium, Dissolved	10.0	10.4	104.					85-115	20
Chromium, Dissolved	0.200	0.213	106.					85-115	20
Cobalt, Dissolved	0.500	0.541	108.					85-115	20
Copper, Dissolved	0.250	0.271	108.					85-115	20
Iron, Dissolved	1.00	1.06	106.					85-115	20
Lead, Dissolved	0.530	0.558	105.					85-115	20
Magnesium, Dissolved	10.0	10.7	107.					85-115	20
Manganese, Dissolved	0.500	0.514	103.					85-115	20
Nickel, Dissolved	0.500	0.544	109.					85-115	20
Selenium, Dissolved	0.120	0.124	103.					85-115	20
Silver, Dissolved	0.0500	0.0544	109.					85-115	20
Sodium, Dissolved	10.0	10.5	105.					85-115	20
Thallium, Dissolved	0.120	0.127	106.					85-115	20
Vanadium, Dissolved	0.500	0.539	108.					85-115	20
Zinc, Dissolved	0.500	0.551	110.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934555-2	**LCS Analysis Date**	: 06/18/24 10:18
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Potassium, Dissolved	**10.0**	**10.4**	**104.**					**85-115**	**20**

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01	**Analysis Date**	: 06/17/24 22:23
Serial Dilution ID	: WG1934555-6	**Analysis Date**	: 06/17/24 22:39

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	35.4	36.9	4	20
Magnesium, Dissolved	10.8	11.2	4	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2432633**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1934502-1	06/14/24 20:48	-	50
WG1934502-2	06/14/24 20:48	-	50
WG1934502-3	06/14/24 20:48	-	50
WG1934502-4	06/14/24 20:48	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2432633-01	06/14/24 20:48	-	50
L2432633-02	06/14/24 20:48	-	50
L2432633-03	06/14/24 20:48	-	50
L2432633-04	06/14/24 20:48	-	50
WG1934502-7	06/14/24 20:48	-	50
WG1934502-8	06/14/24 20:48	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1934502-2	06/14/24 20:48	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2432633-01	06/15/24 08:25	-	50
L2432633-02	06/15/24 08:25	-	50
L2432633-03	06/15/24 08:25	-	50
L2432633-04	06/15/24 08:25	-	50
WG1934555-1	06/15/24 08:25	-	50
WG1934555-2	06/15/24 08:25	-	50
WG1934555-3	06/15/24 08:25	-	50
WG1934555-4	06/15/24 08:25	-	50
WG1934555-6	06/15/24 08:25	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2432633-01	06/15/24 08:25	-	50
L2432633-02	06/15/24 08:25	-	50
L2432633-03	06/15/24 08:25	-	50
L2432633-04	06/15/24 08:25	-	50
WG1934555-1	06/15/24 08:25	-	50
WG1934555-3	06/15/24 08:25	-	50
WG1934555-4	06/15/24 08:25	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1934555-2	06/15/24 08:25	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/14/24 05:48	**End Date**	: 06/15/24 05:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1841066-1 ICV	1	05:48:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-2 ICB	1	05:51:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-3 ICV	1	05:56:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-4 ICB	1	06:00:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-5 ICSA	1	06:32:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-6 CCV	1	08:16:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-7 CCB	1	08:21:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-8 CCV	1	09:28:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-9 CCB	1	09:32:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-10 CCV	1	10:19:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-11 CCB	1	10:23:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-12 CCV	1	11:11:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-13 CCB	1	11:15:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-14 CCV	1	12:00:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-15 CCB	1	12:04:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-16 CCV	1	12:58:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-17 CCB	1	13:02:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-18 CCV	1	13:51:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-19 CCB	1	13:55:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-20 CCV	1	14:48:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-21 CCB	1	14:52:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-22 CCV	1	15:44:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-23 CCB	1	15:48:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-24 CCV	1	16:02:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-25 CCB	1	16:06:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-26 CCV	1	16:14:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-27 CCB	1	16:18:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/14/24 05:48	**End Date**	: 06/15/24 05:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1841066-28 CCV	1	17:01:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-29 CCB	1	17:05:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-30 CCV	1	17:53:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-31 CCB	1	17:57:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-32 CCV	1	18:44:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-33 CCB	1	18:48:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-34 CCV	1	19:38:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-35 CCB	1	19:42:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-36 CCV	1	20:30:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-37 CCB	1	20:34:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-38 CCV	1	20:59:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-39 CCB	1	21:02:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-40 CCV	1	21:52:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-41 CCB	1	21:56:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-42 CCV	1	22:41:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-43 CCB	1	22:45:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-44 CCV	1	23:30:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-45 CCB	1	23:34:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-46 CCV	1	00:20:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-47 CCB	1	00:24:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-48 CCV	1	01:13:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-49 CCB	1	01:17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-50 CCV	1	01:53:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-51 CCB	1	01:57:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-52 CCV	1	03:02:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-53 CCB	1	03:06:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-54 CCV	1	04:12:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/14/24 05:48	**End Date**	: 06/15/24 05:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1841066-55 CCB	1	04:16:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934502-1 BLANK	1	04:30:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934502-2 LCS	1	04:34:42	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934502-3 MS	1	04:42:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934502-4 DUP	1	04:46:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-56 CCV	1	05:03:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841066-57 CCB	1	05:07:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/15/24 09:08	**End Date**	: 06/16/24 02:49

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1841447-1 ICV	1	09:08:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-2 ICB	1	09:12:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-3 ICV	1	09:16:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-4 ICB	1	09:20:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-5 ICSA	1	09:28:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-6 CCV	1	10:30:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-7 CCB	1	10:34:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-8 CCV	1	11:00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-9 CCB	1	11:04:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-10 CCV	1	11:28:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-11 CCB	1	11:32:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-12 CCV	1	12:13:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-13 CCB	1	12:16:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-14 CCV	1	13:02:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-15 CCB	1	13:06:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-16 CCV	1	13:22:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-17 CCB	1	13:26:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-18 CCV	1	14:18:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-19 CCB	1	14:22:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-20 CCV	1	15:06:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-21 CCB	1	15:10:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-22 CCV	1	15:42:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-23 CCB	1	15:46:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-24 CCV	1	16:35:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-25 CCB	1	16:39:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-26 CCV	1	17:43:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-27 CCB	1	17:47:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/15/24 09:08	**End Date**	: 06/16/24 02:49

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1841447-28 CCV	1	18:40:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-29 CCB	1	18:44:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-30 CCV	1	19:31:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-31 CCB	1	19:35:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-32 CCV	1	20:20:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-33 CCB	1	20:24:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-34 CCV	1	21:09:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-35 CCB	1	21:13:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-36 CCV	1	22:01:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-37 CCB	1	22:05:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-38 CCV	1	22:22:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-39 CCB	1	22:26:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-40 CCV	1	23:38:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-41 CCB	1	23:42:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-42 CCV	1	23:53:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-43 CCB	1	23:57:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-44 CCV	1	00:43:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-45 CCB	1	00:47:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934502-7 MS	1	01:39:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934502-8 DUP	1	01:43:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-46 CCV	1	01:55:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-47 CCB	1	01:59:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-01	1	02:09:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-02	1	02:13:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-03	1	02:17:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-04	1	02:21:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841447-48 CCV	1	02:45:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/15/24 09:08	**End Date**	: 06/16/24 02:49

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1841447-49 CCB	1	02:49:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 06/16/24 06:28	**End Date**	: 06/16/24 13:56

Sample Number	Dilution Factor	Analysis Time	Antimony, Total
R1841612-1 ICV	1	06:28:35	X
R1841612-2 ICB	1	06:34:40	X
R1841612-3 ICV	1	06:41:18	X
R1841612-4 ICB	1	06:47:26	X
R1841612-5 ICSA	1	07:00:05	X
R1841612-6 CCV	1	10:16:25	X
R1841612-7 CCB	1	10:22:29	X
R1841612-8 CCV	1	12:03:33	X
R1841612-9 CCB	1	12:09:38	X
WG1934502-2 LCS	1	12:49:52	X
R1841612-10 CCV	1	13:50:35	X
R1841612-11 CCB	1	13:56:39	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/17/24 07:47	**End Date**	: 06/17/24 23:28

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1841928-1 ICV	1	07:47:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-2 ICB	1	07:51:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-3 ICV	1	07:59:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-4 ICB	1	08:03:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-5 ICSA	1	08:15:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-6 CCV	1	10:09:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-7 CCB	1	10:13:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-8 CCV	1	11:56:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-9 CCB	1	12:00:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-10 CCV	1	13:26:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-11 CCB	1	13:30:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-12 CCV	1	14:36:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-13 CCB	1	14:40:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-14 CCV	1	15:25:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-15 CCB	1	15:29:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-16 CCV	1	16:02:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-17 CCB	1	16:07:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-18 CCV	1	17:12:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-19 CCB	1	17:16:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-20 CCV	1	18:08:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-21 CCB	1	18:12:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-22 CCV	1	20:17:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-23 CCB	1	20:21:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-24 CCV	1	21:05:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-25 CCB	1	21:09:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-26 CCV	1	21:54:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-27 CCB	1	21:58:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/17/24 07:47	**End Date**	: 06/17/24 23:28

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
WG1934555-1 BLANK	1	22:06:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934555-2 LCS	1	22:11:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-02	1	22:15:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-03	1	22:19:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-01	1	22:23:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934555-3 MS	1	22:27:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934555-4 DUP	1	22:31:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1934555-6 SERDIL	5	22:39:06							X						X								
R1841928-28 CCV	1	22:43:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-29 CCB	1	22:47:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2432633-04	1	23:12:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-30 CCV	1	23:16:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-31 CCB	1	23:20:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-32 CCV	1	23:24:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1841928-33 CCB	1	23:28:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 06/17/24 13:57	**End Date**	: 06/18/24 00:40

Sample Number	Dilution Factor	Analysis Time	Potassium, Dissolved
R1842119-1 ICV	1	13:57:42	X
R1842119-2 ICB	1	14:04:01	X
R1842119-3 ICV	1	14:10:44	X
R1842119-4 ICB	1	14:17:02	X
R1842119-5 ICSA	1	14:30:20	X
R1842119-6 CCV	1	17:15:32	X
R1842119-7 CCB	1	17:21:50	X
R1842119-8 CCV	1	17:46:49	X
R1842119-9 CCB	1	17:53:07	X
R1842119-10 CCV	1	19:07:56	X
R1842119-11 CCB	1	19:14:15	X
R1842119-12 CCV	1	19:58:08	X
R1842119-13 CCB	1	20:04:27	X
R1842119-14 CCV	1	21:21:20	X
R1842119-15 CCB	1	21:27:38	X
R1842119-16 CCV	1	22:25:52	X
R1842119-17 CCB	1	22:32:10	X
R1842119-18 CCV	1	22:38:53	X
R1842119-19 CCB	1	22:45:11	X
R1842119-20 CCV	1	23:12:08	X
R1842119-21 CCB	1	23:18:27	X
WG1934555-1 BLANK	1	23:26:20	X
L2432633-02	1	23:42:21	X
L2432633-03	1	23:48:57	X
L2432633-04	1	23:55:33	X
L2432633-01	1	00:02:11	X
WG1934555-3 MS	1	00:08:48	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 06/17/24 13:57	**End Date**	: 06/18/24 00:40

Sample Number	Dilution Factor	Analysis Time	Potassium, Dissolved
WG1934555-4 DUP	1	00:15:06	X
R1842119-22 CCV	1	00:34:38	X
R1842119-23 CCB	1	00:40:57	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 06/18/24 04:44	**End Date**	: 06/18/24 11:03

Sample Number	Dilution Factor	Analysis Time	Potassium, Dissolved
R1842282-1 ICV	1	04:44:41	X
R1842282-2 ICB	1	04:48:38	X
R1842282-3 ICV	1	04:52:35	X
R1842282-4 ICB	1	04:56:35	X
R1842282-5 ICSA	1	05:39:34	X
R1842282-6 CCV	1	07:16:56	X
R1842282-7 CCB	1	07:21:06	X
R1842282-8 CCV	1	08:19:09	X
R1842282-9 CCB	1	08:23:05	X
R1842282-10 CCV	1	09:08:44	X
R1842282-11 CCB	1	09:12:40	X
R1842282-12 CCV	1	10:05:21	X
R1842282-13 CCB	1	10:09:17	X
WG1934555-2 LCS	1	10:18:08	X
R1842282-14 CCV	1	10:59:45	X
R1842282-15 CCB	1	11:03:42	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: Blank JMF Trace8
Analysis started at: 6/14/2024 5:40:05 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	-0.6 %	-0.6 %	0.2 %	0.2 %	-0.7 %	-0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	8.9 %	0.3 %	-0.6 %	0.1 %	-0.3 %	0.7 %	-2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	-0.1 %	0.4 %	0.1 %	0.3 %	0.1 %	-9.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.7 %	0.3 %	1.4 %	-1.5 %	-0.2 %	-0.4 %	-6.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	3.2 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: ICAL
Analysis started at: 6/14/2024 5:44:08 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0152 ppm	25.1812 ppm	1.0135 ppm	1.0159 ppm	0.9972 ppm	0.9972 ppm	10.0256 ppm
Concentration per Run 2	1.0008 ppm	24.8218 ppm	0.9962 ppm	1.0045 ppm	1.0053 ppm	1.0044 ppm	9.9957 ppm
Concentration per Run 3	0.9840 ppm	24.9970 ppm	0.9903 ppm	0.9796 ppm	0.9975 ppm	0.9984 ppm	9.9787 ppm
Concentration RSD	1.6 %	0.7 %	1.2 %	1.9 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0157 ppm	1.0151 ppm	1.0183 ppm	1.0202 ppm	24.9538 ppm	35.0779 ppm	1.0024 ppm
Concentration per Run 2	1.0037 ppm	1.0072 ppm	0.9983 ppm	1.0023 ppm	25.0082 ppm	34.9566 ppm	1.0003 ppm
Concentration per Run 3	0.9806 ppm	0.9777 ppm	0.9834 ppm	0.9775 ppm	25.0380 ppm	34.9655 ppm	0.9973 ppm
Concentration RSD	1.8 %	2.0 %	1.8 %	2.1 %	0.2 %	0.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.1739 ppm	1.0028 ppm	1.0044 ppm	25.0674 ppm	1.0101 ppm	1.0121 ppm	1.0138 ppm
Concentration per Run 2	9.9866 ppm	0.9988 ppm	1.0054 ppm	24.9783 ppm	1.0103 ppm	0.9932 ppm	1.0095 ppm
Concentration per Run 3	9.8395 ppm	0.9984 ppm	0.9902 ppm	24.9544 ppm	0.9796 ppm	0.9946 ppm	0.9767 ppm
Concentration RSD	1.7 %	0.2 %	0.8 %	0.2 %	1.8 %	1.1 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0085 ppm	10.1828 ppm	1.0054 ppm	0.9935 ppm	1.0148 ppm	1.0332 ppm	1.0150 ppm
Concentration per Run 2	0.9956 ppm	9.9609 ppm	1.0066 ppm	1.0069 ppm	1.0033 ppm	0.9825 ppm	1.0043 ppm
Concentration per Run 3	0.9959 ppm	9.8563 ppm	0.9881 ppm	0.9995 ppm	0.9818 ppm	0.9844 ppm	0.9807 ppm
Concentration RSD	0.7 %	1.7 %	1.0 %	0.7 %	1.7 %	2.9 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	98.8660 %	103.8107 %	97.4911 %	92.4974 %	98.7180 %	96.1723 %
Concentration per Run 1	1.0100 ppm	96.9968 %	103.4768 %	96.7185 %	91.6470 %	98.5429 %	95.6051 %
Concentration per Run 2	1.0115 ppm	99.2406 %	104.4638 %	97.7608 %	93.0182 %	99.2070 %	96.4849 %
Concentration per Run 3	0.9784 ppm	100.3606 %	103.4916 %	97.9940 %	92.8271 %	98.4041 %	96.4270 %
Concentration RSD	1.9 %	1.7 %	0.5 %	0.7 %	0.8 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: ICV
Analysis started at: 6/14/2024 5:48:02 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5164 ppm	0.4732 ppm	0.4748 ppm	0.5153 ppm	0.4853 ppm	0.4869 ppm	0.4771 ppm
Concentration per Run 1	0.5347 ppm	0.4928 ppm	0.4806 ppm	0.5321 ppm	0.4998 ppm	0.5044 ppm	0.4961 ppm
Concentration per Run 2	0.5112 ppm	0.4845 ppm	0.4716 ppm	0.5140 ppm	0.5004 ppm	0.5000 ppm	0.4867 ppm
Concentration per Run 3	0.5033 ppm	0.4424 ppm	0.4721 ppm	0.4998 ppm	0.4557 ppm	0.4564 ppm	0.4484 ppm
Recovery Percentage 1	103.283 %	94.646 %	94.951 %	103.055 %	97.056 %	97.386 %	95.412 %
Concentration RSD	3.2 %	5.7 %	1.1 %	3.1 %	5.3 %	5.4 %	5.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5176 ppm	0.5271 ppm	0.5064 ppm	0.5112 ppm	0.4968 ppm	4.9961 ppm	0.4761 ppm
Concentration per Run 1	0.5385 ppm	0.5472 ppm	0.5264 ppm	0.5300 ppm	0.5165 ppm	5.1771 ppm	0.4945 ppm
Concentration per Run 2	0.5129 ppm	0.5228 ppm	0.5012 ppm	0.5064 ppm	0.5115 ppm	5.1410 ppm	0.4858 ppm
Concentration per Run 3	0.5014 ppm	0.5114 ppm	0.4917 ppm	0.4972 ppm	0.4624 ppm	4.6704 ppm	0.4482 ppm
Recovery Percentage 1	103.520 %	105.423 %	101.285 %	102.235 %	99.363 %	99.923 %	95.226 %
Concentration RSD	3.7 %	3.5 %	3.5 %	3.3 %	6.0 %	5.7 %	5.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5137 ppm	0.4759 ppm	0.5156 ppm	9.8045 ppm	0.5285 ppm	0.4923 ppm	0.5126 ppm
Concentration per Run 1	0.5363 ppm	0.4911 ppm	0.5288 ppm	10.1292 ppm	0.5502 ppm	0.4968 ppm	0.5264 ppm
Concentration per Run 2	0.5086 ppm	0.4910 ppm	0.5137 ppm	10.0844 ppm	0.5212 ppm	0.4918 ppm	0.5117 ppm
Concentration per Run 3	0.4961 ppm	0.4455 ppm	0.5043 ppm	9.1999 ppm	0.5140 ppm	0.4882 ppm	0.4997 ppm
Recovery Percentage 1	102.730 %	95.178 %	103.121 %	98.045 %	105.692 %	98.455 %	102.519 %
Concentration RSD	4.0 %	5.5 %	2.4 %	5.3 %	3.6 %	0.9 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4821 ppm	5.3071 ppm	0.5351 ppm	0.4876 ppm	0.5183 ppm	0.4943 ppm	0.5083 ppm
Concentration per Run 1	0.4867 ppm	5.5035 ppm	0.5609 ppm	0.5027 ppm	0.5374 ppm	0.4965 ppm	0.5278 ppm
Concentration per Run 2	0.4800 ppm	5.2475 ppm	0.5242 ppm	0.5021 ppm	0.5136 ppm	0.4927 ppm	0.5045 ppm
Concentration per Run 3	0.4796 ppm	5.1702 ppm	0.5202 ppm	0.4579 ppm	0.5038 ppm	0.4936 ppm	0.4925 ppm
Recovery Percentage 1	96.418 %	101.087 %	107.019 %	97.513 %	103.651 %	98.850 %	101.654 %
Concentration RSD	0.8 %	3.3 %	4.2 %	5.3 %	3.3 %	0.4 %	3.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5250 ppm	96.6194 %	106.9084 %	101.2133 %	93.2382 %	103.6871 %	99.4990 %
Concentration per Run 1	0.5464 ppm	92.7257 %	104.2848 %	100.3575 %	88.4866 %	101.8230 %	99.3602 %
Concentration per Run 2	0.5194 ppm	97.4549 %	103.8652 %	101.4620 %	95.2180 %	100.4984 %	99.5840 %
Concentration per Run 3	0.5094 ppm	99.6775 %	112.5753 %	101.8204 %	96.0101 %	108.7399 %	99.5529 %
Recovery Percentage 1	105.009 %						
Concentration RSD	3.6 %	3.7 %	4.6 %	0.8 %	4.4 %	4.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: ICB
Analysis started at: 6/14/2024 5:51:58 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0021 ppm	0.0012 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0095 ppm
Concentration per Run 1	0.0004 ppm	0.0050 ppm	0.0011 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 2	-0.0007 ppm	-0.0017 ppm	0.0007 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0101 ppm
Concentration per Run 3	0.0000 ppm	0.0030 ppm	0.0017 ppm	0.0019 ppm	0.0003 ppm	0.0001 ppm	0.0099 ppm
Recovery Percentage 1	-1.340 %	2.103 %	39.818 %	1.460 %	1.740 %	0.700 %	9.513 %
Concentration RSD	550.4 %	165.1 %	40.7 %	283.3 %	58.8 %	242.2 %	8.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0009 ppm	0.0061 ppm	0.0136 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0056 ppm	0.0023 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0009 ppm	0.0077 ppm	0.0056 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0011 ppm	0.0048 ppm	0.0330 ppm	-0.0001 ppm
Recovery Percentage 1	0.307 %	1.398 %	-2.014 %	9.218 %	12.135 %	0.546 %	1.399 %
Concentration RSD	229.6 %	43.3 %	239.5 %	19.4 %	24.3 %	123.4 %	264.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0020 ppm	-0.0095 ppm	0.0000 ppm	-0.0005 ppm	0.0014 ppm
Concentration per Run 1	0.0012 ppm	0.0000 ppm	0.0020 ppm	-0.0175 ppm	-0.0004 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 2	0.0010 ppm	0.0002 ppm	0.0021 ppm	-0.0013 ppm	0.0005 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 3	-0.0021 ppm	0.0003 ppm	0.0018 ppm	-0.0097 ppm	-0.0001 ppm	-0.0010 ppm	0.0030 ppm
Recovery Percentage 1	0.008 %	1.955 %	3.904 %	-0.474 %	-0.028 %	-5.186 %	2.886 %
Concentration RSD	22,038.5 %	88.6 %	8.2 %	85.6 %	6,672.5 %	83.3 %	95.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0056 ppm	0.0013 ppm	-0.0001 ppm	0.0003 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0070 ppm	0.0007 ppm	-0.0002 ppm	0.0004 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 2	-0.0018 ppm	-0.0074 ppm	0.0012 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	-0.0023 ppm	0.0020 ppm	0.0001 ppm	0.0003 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	0.240 %	-1.116 %	2.610 %	-0.822 %	2.604 %	-4.953 %	-0.739 %
Concentration RSD	6,960.2 %	51.8 %	51.2 %	145.3 %	43.8 %	41.1 %	127.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	94.7484 %	97.8311 %	95.3331 %	92.0542 %	100.1088 %	97.9565 %
Concentration per Run 1	0.0013 ppm	96.4430 %	97.1043 %	93.3545 %	97.1909 %	99.7056 %	96.4384 %
Concentration per Run 2	0.0008 ppm	101.8370 %	98.0103 %	95.4435 %	96.7347 %	100.2119 %	98.1848 %
Concentration per Run 3	0.0011 ppm	85.9653 %	98.3786 %	97.2014 %	82.2369 %	100.4089 %	99.2462 %
Recovery Percentage 1	21.665 %						
Concentration RSD	22.2 %	8.5 %	0.7 %	2.0 %	9.2 %	0.4 %	1.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: ICV
Analysis started at: 6/14/2024 5:56:37 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5067 ppm	0.5044 ppm	0.4863 ppm	0.5050 ppm	0.5158 ppm	0.5227 ppm	0.5175 ppm
Concentration per Run 1	0.5086 ppm	0.5065 ppm	0.4894 ppm	0.5076 ppm	0.5201 ppm	0.5256 ppm	0.5176 ppm
Concentration per Run 2	0.5069 ppm	0.5014 ppm	0.4867 ppm	0.5014 ppm	0.5116 ppm	0.5230 ppm	0.5198 ppm
Concentration per Run 3	0.5046 ppm	0.5055 ppm	0.4829 ppm	0.5061 ppm	0.5156 ppm	0.5196 ppm	0.5152 ppm
Recovery Percentage 1	101.337 %	100.889 %	97.265 %	101.008 %	103.153 %	104.549 %	103.504 %
Concentration RSD	0.4 %	0.5 %	0.7 %	0.6 %	0.8 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5085 ppm	0.5187 ppm	0.4978 ppm	0.5019 ppm	0.5360 ppm	5.3370 ppm	0.6549 ppm
Concentration per Run 1	0.5123 ppm	0.5225 ppm	0.5008 ppm	0.5052 ppm	0.5391 ppm	5.3970 ppm	0.6659 ppm
Concentration per Run 2	0.5077 ppm	0.5176 ppm	0.4971 ppm	0.5007 ppm	0.5347 ppm	5.3501 ppm	0.6562 ppm
Concentration per Run 3	0.5054 ppm	0.5161 ppm	0.4953 ppm	0.4998 ppm	0.5342 ppm	5.2637 ppm	0.6426 ppm
Recovery Percentage 1	101.695 %	103.746 %	99.552 %	100.386 %	107.199 %	106.739 %	130.980 %
Concentration RSD	0.7 %	0.6 %	0.6 %	0.6 %	0.5 %	1.3 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5034 ppm	0.5092 ppm	0.5035 ppm	10.4555 ppm	0.5188 ppm	0.5050 ppm	0.5015 ppm
Concentration per Run 1	0.5095 ppm	0.5100 ppm	0.5012 ppm	10.4728 ppm	0.5249 ppm	0.5071 ppm	0.5028 ppm
Concentration per Run 2	0.5004 ppm	0.5087 ppm	0.5027 ppm	10.4515 ppm	0.5146 ppm	0.5044 ppm	0.5034 ppm
Concentration per Run 3	0.5002 ppm	0.5087 ppm	0.5066 ppm	10.4423 ppm	0.5170 ppm	0.5035 ppm	0.4983 ppm
Recovery Percentage 1	100.676 %	101.831 %	100.706 %	104.555 %	103.769 %	100.994 %	100.297 %
Concentration RSD	1.1 %	0.1 %	0.6 %	0.1 %	1.0 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4971 ppm	5.5852 ppm	0.5260 ppm	0.5146 ppm	0.5090 ppm	0.5066 ppm	0.4999 ppm
Concentration per Run 1	0.5008 ppm	5.6004 ppm	0.5275 ppm	0.5164 ppm	0.5113 ppm	0.5061 ppm	0.5029 ppm
Concentration per Run 2	0.4958 ppm	5.5897 ppm	0.5232 ppm	0.5133 ppm	0.5083 ppm	0.5062 ppm	0.4999 ppm
Concentration per Run 3	0.4946 ppm	5.5656 ppm	0.5275 ppm	0.5142 ppm	0.5073 ppm	0.5073 ppm	0.4970 ppm
Recovery Percentage 1	99.410 %	106.386 %	105.210 %	102.926 %	101.795 %	101.311 %	99.985 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.3 %	0.4 %	0.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5165 ppm	101.6368 %	104.4583 %	102.1884 %	95.6105 %	100.5433 %	98.4862 %
Concentration per Run 1	0.5225 ppm	100.9147 %	104.1253 %	102.2670 %	95.8033 %	100.5117 %	98.7227 %
Concentration per Run 2	0.5132 ppm	101.5856 %	103.7477 %	102.1838 %	95.4286 %	99.8623 %	98.2341 %
Concentration per Run 3	0.5138 ppm	102.4101 %	105.5018 %	102.1145 %	95.5997 %	101.2561 %	98.5017 %
Recovery Percentage 1	103.295 %						
Concentration RSD	1.0 %	0.7 %	0.9 %	0.1 %	0.2 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: ICB
Analysis started at: 6/14/2024 6:00:33 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0069 ppm	0.0016 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0115 ppm
Concentration per Run 1	0.0003 ppm	0.0006 ppm	0.0021 ppm	-0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 2	0.0001 ppm	-0.0204 ppm	0.0021 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0131 ppm
Concentration per Run 3	-0.0002 ppm	-0.0008 ppm	0.0006 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0108 ppm
Recovery Percentage 1	0.915 %	-6.863 %	53.037 %	-1.246 %	2.204 %	0.372 %	11.477 %
Concentration RSD	380.0 %	171.2 %	55.3 %	242.6 %	99.0 %	215.4 %	12.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0007 ppm	0.0045 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0006 ppm	0.0027 ppm	-0.0122 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0010 ppm	0.0058 ppm	0.0087 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0005 ppm	0.0051 ppm	0.0056 ppm	-0.0003 ppm
Recovery Percentage 1	1.179 %	3.344 %	1.478 %	6.818 %	9.074 %	0.026 %	0.979 %
Concentration RSD	139.0 %	52.2 %	27.0 %	36.4 %	35.6 %	1,704.9 %	994.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0017 ppm	-0.0144 ppm	-0.0005 ppm	-0.0005 ppm	0.0026 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	0.0017 ppm	-0.0140 ppm	-0.0012 ppm	-0.0016 ppm	0.0030 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0015 ppm	-0.0137 ppm	-0.0009 ppm	0.0003 ppm	0.0031 ppm
Concentration per Run 3	0.0021 ppm	-0.0002 ppm	0.0020 ppm	-0.0154 ppm	0.0006 ppm	-0.0002 ppm	0.0016 ppm
Recovery Percentage 1	1.042 %	0.786 %	3.382 %	-0.719 %	-2.158 %	-5.164 %	5.170 %
Concentration RSD	93.3 %	280.1 %	15.2 %	6.4 %	178.0 %	193.3 %	31.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0055 ppm	0.0014 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0048 ppm	0.0015 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0026 ppm	-0.0064 ppm	0.0017 ppm	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	-0.0008 ppm	-0.0053 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm	-0.0012 ppm	-0.0002 ppm
Recovery Percentage 1	-10.635 %	-1.101 %	2.874 %	-0.315 %	1.698 %	-2.461 %	-0.950 %
Concentration RSD	134.0 %	14.5 %	18.5 %	51.2 %	36.4 %	164.2 %	191.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	93.2088 %	101.6039 %	97.5082 %	96.5084 %	102.9539 %	99.9270 %
Concentration per Run 1	0.0017 ppm	90.9934 %	103.8179 %	96.1536 %	95.7599 %	106.7190 %	99.5297 %
Concentration per Run 2	0.0013 ppm	93.4858 %	100.6155 %	98.0517 %	96.3716 %	101.7921 %	100.2703 %
Concentration per Run 3	0.0011 ppm	95.1472 %	100.3781 %	98.3192 %	97.3938 %	100.3506 %	99.9812 %
Recovery Percentage 1	27.592 %						
Concentration RSD	21.4 %	2.2 %	1.9 %	1.2 %	0.9 %	3.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ
Analysis started at: 6/14/2024 6:04:29 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0080 ppm	0.1090 ppm	0.0060 ppm	0.0338 ppm	0.0164 ppm	0.0053 ppm	0.1295 ppm
Concentration per Run 1	0.0083 ppm	0.1100 ppm	0.0069 ppm	0.0338 ppm	0.0164 ppm	0.0053 ppm	0.1313 ppm
Concentration per Run 2	0.0077 ppm	0.1058 ppm	0.0054 ppm	0.0349 ppm	0.0164 ppm	0.0053 ppm	0.1286 ppm
Concentration per Run 3	0.0079 ppm	0.1111 ppm	0.0058 ppm	0.0327 ppm	0.0164 ppm	0.0053 ppm	0.1285 ppm
Recovery Percentage 1	113.976 %	108.970 %	120.727 %	112.752 %	164.202 %	105.770 %	129.460 %
Concentration RSD	3.5 %	2.6 %	13.0 %	3.2 %	0.1 %	0.5 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0044 ppm	0.0234 ppm	0.0109 ppm	0.0127 ppm	0.0653 ppm	2.8957 ppm	0.0127 ppm
Concentration per Run 1	0.0044 ppm	0.0235 ppm	0.0113 ppm	0.0131 ppm	0.0677 ppm	2.9291 ppm	0.0137 ppm
Concentration per Run 2	0.0045 ppm	0.0232 ppm	0.0108 ppm	0.0126 ppm	0.0640 ppm	2.9076 ppm	0.0125 ppm
Concentration per Run 3	0.0042 ppm	0.0234 ppm	0.0107 ppm	0.0124 ppm	0.0644 ppm	2.8504 ppm	0.0121 ppm
Recovery Percentage 1	87.545 %	116.982 %	109.251 %	126.973 %	130.681 %	115.828 %	127.356 %
Concentration RSD	2.8 %	0.6 %	2.7 %	2.7 %	3.1 %	1.4 %	6.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1149 ppm	0.0109 ppm	0.0537 ppm	2.2346 ppm	0.0279 ppm	0.0110 ppm	0.0419 ppm
Concentration per Run 1	0.1192 ppm	0.0111 ppm	0.0539 ppm	2.2379 ppm	0.0284 ppm	0.0107 ppm	0.0427 ppm
Concentration per Run 2	0.1140 ppm	0.0106 ppm	0.0539 ppm	2.2395 ppm	0.0280 ppm	0.0115 ppm	0.0405 ppm
Concentration per Run 3	0.1116 ppm	0.0110 ppm	0.0534 ppm	2.2264 ppm	0.0273 ppm	0.0108 ppm	0.0424 ppm
Recovery Percentage 1	114.933 %	108.833 %	107.477 %	111.730 %	111.536 %	110.107 %	83.735 %
Concentration RSD	3.4 %	2.4 %	0.5 %	0.3 %	2.1 %	4.1 %	2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0087 ppm	0.5596 ppm	0.0506 ppm	0.0108 ppm	0.0552 ppm	0.0212 ppm	0.0110 ppm
Concentration per Run 1	0.0094 ppm	0.5691 ppm	0.0509 ppm	0.0111 ppm	0.0563 ppm	0.0225 ppm	0.0113 ppm
Concentration per Run 2	0.0092 ppm	0.5572 ppm	0.0504 ppm	0.0108 ppm	0.0551 ppm	0.0202 ppm	0.0107 ppm
Concentration per Run 3	0.0074 ppm	0.5526 ppm	0.0503 ppm	0.0107 ppm	0.0542 ppm	0.0209 ppm	0.0108 ppm
Recovery Percentage 1	86.791 %	111.927 %	101.127 %	108.371 %	110.451 %	105.914 %	109.510 %
Concentration RSD	12.3 %	1.5 %	0.7 %	1.9 %	1.9 %	5.7 %	3.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0062 ppm	92.5701 %	99.0939 %	97.5260 %	97.3991 %	101.8568 %	101.3738 %
Concentration per Run 1	0.0061 ppm	90.1678 %	98.8211 %	97.0406 %	95.9388 %	102.0435 %	101.5406 %
Concentration per Run 2	0.0063 ppm	92.9871 %	99.5004 %	97.2300 %	97.9122 %	102.3609 %	101.4140 %
Concentration per Run 3	0.0061 ppm	94.5553 %	98.9602 %	98.3075 %	98.3463 %	101.1659 %	101.1667 %
Recovery Percentage 1	123.253 %						
Concentration RSD	2.2 %	2.4 %	0.4 %	0.7 %	1.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ 0.01ppm As soil TCLP Ba Cu Li
Analysis started at: 6/14/2024 6:12:22 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0101 ppm	0.0105 ppm	0.0115 ppm	0.0104 ppm	0.0103 ppm	0.0098 ppm	0.0175 ppm
Concentration per Run 1	0.0103 ppm	0.0196 ppm	0.0123 ppm	0.0116 ppm	0.0102 ppm	0.0097 ppm	0.0155 ppm
Concentration per Run 2	0.0102 ppm	0.0060 ppm	0.0101 ppm	0.0105 ppm	0.0104 ppm	0.0098 ppm	0.0187 ppm
Concentration per Run 3	0.0098 ppm	0.0060 ppm	0.0120 ppm	0.0090 ppm	0.0102 ppm	0.0099 ppm	0.0182 ppm
Recovery Percentage 1	0.000 %	0.000 %	114.765 %	103.690 %	102.998 %	0.000 %	0.000 %
Concentration RSD	2.8 %	74.7 %	10.5 %	13.0 %	1.2 %	0.7 %	9.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0099 ppm	0.0107 ppm	0.0101 ppm	0.0107 ppm	0.0127 ppm	0.1123 ppm	0.0104 ppm
Concentration per Run 1	0.0102 ppm	0.0112 ppm	0.0105 ppm	0.0112 ppm	0.0122 ppm	0.0952 ppm	0.0104 ppm
Concentration per Run 2	0.0099 ppm	0.0105 ppm	0.0097 ppm	0.0103 ppm	0.0132 ppm	0.1216 ppm	0.0109 ppm
Concentration per Run 3	0.0097 ppm	0.0105 ppm	0.0099 ppm	0.0107 ppm	0.0126 ppm	0.1202 ppm	0.0098 ppm
Recovery Percentage 1	0.000 %	106.934 %	100.659 %	107.285 %	0.000 %	0.000 %	103.804 %
Concentration RSD	2.4 %	3.7 %	4.1 %	4.0 %	3.9 %	13.2 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0114 ppm	0.0100 ppm	0.0108 ppm	0.1910 ppm	0.0105 ppm	0.0097 ppm	0.0117 ppm
Concentration per Run 1	0.0106 ppm	0.0100 ppm	0.0109 ppm	0.1927 ppm	0.0098 ppm	0.0107 ppm	0.0122 ppm
Concentration per Run 2	0.0125 ppm	0.0100 ppm	0.0112 ppm	0.1885 ppm	0.0107 ppm	0.0095 ppm	0.0112 ppm
Concentration per Run 3	0.0111 ppm	0.0100 ppm	0.0103 ppm	0.1917 ppm	0.0109 ppm	0.0091 ppm	0.0118 ppm
Recovery Percentage 1	0.000 %	99.864 %	108.186 %	0.000 %	104.802 %	97.370 %	0.000 %
Concentration RSD	8.3 %	0.1 %	3.9 %	1.1 %	5.5 %	8.4 %	4.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0098 ppm	0.0970 ppm	0.0102 ppm	0.0103 ppm	0.0102 ppm	0.0086 ppm	0.0099 ppm
Concentration per Run 1	0.0112 ppm	0.0999 ppm	0.0101 ppm	0.0103 ppm	0.0106 ppm	0.0087 ppm	0.0100 ppm
Concentration per Run 2	0.0077 ppm	0.0988 ppm	0.0108 ppm	0.0104 ppm	0.0100 ppm	0.0088 ppm	0.0100 ppm
Concentration per Run 3	0.0106 ppm	0.0921 ppm	0.0097 ppm	0.0102 ppm	0.0100 ppm	0.0082 ppm	0.0097 ppm
Recovery Percentage 1	98.429 %	0.000 %	101.853 %	102.881 %	102.092 %	85.814 %	99.155 %
Concentration RSD	19.0 %	4.4 %	5.2 %	0.7 %	3.1 %	3.8 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0104 ppm	96.9524 %	100.9147 %	100.5244 %	96.5939 %	99.9929 %	100.0253 %
Concentration per Run 1	0.0103 ppm	95.5062 %	99.5821 %	100.0849 %	96.5502 %	99.0554 %	100.3672 %
Concentration per Run 2	0.0105 ppm	97.0813 %	101.2341 %	100.1952 %	96.5878 %	100.5727 %	99.5625 %
Concentration per Run 3	0.0103 ppm	98.2697 %	101.9279 %	101.2932 %	96.6439 %	100.3505 %	100.1462 %
Recovery Percentage 1	103.846 %						
Concentration RSD	1.1 %	1.4 %	1.2 %	0.7 %	0.0 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ 0.05ppm Ca Fe
Analysis started at: 6/14/2024 6:16:23 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0507 ppm	0.0477 ppm	0.0479 ppm	0.0488 ppm	0.0508 ppm	0.0496 ppm	0.0599 ppm
Concentration per Run 1	0.0512 ppm	0.0546 ppm	0.0476 ppm	0.0499 ppm	0.0509 ppm	0.0497 ppm	0.0589 ppm
Concentration per Run 2	0.0509 ppm	0.0443 ppm	0.0485 ppm	0.0484 ppm	0.0507 ppm	0.0495 ppm	0.0621 ppm
Concentration per Run 3	0.0500 ppm	0.0443 ppm	0.0474 ppm	0.0482 ppm	0.0509 ppm	0.0496 ppm	0.0586 ppm
Recovery Percentage 1	0.000 %	95.460 %	0.000 %	0.000 %	0.000 %	0.000 %	119.787 %
Concentration RSD	1.3 %	12.5 %	1.2 %	1.9 %	0.2 %	0.3 %	3.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0497 ppm	0.0526 ppm	0.0497 ppm	0.0514 ppm	0.0532 ppm	0.5474 ppm	0.0520 ppm
Concentration per Run 1	0.0505 ppm	0.0538 ppm	0.0511 ppm	0.0524 ppm	0.0552 ppm	0.5435 ppm	0.0532 ppm
Concentration per Run 2	0.0496 ppm	0.0522 ppm	0.0494 ppm	0.0513 ppm	0.0518 ppm	0.5511 ppm	0.0516 ppm
Concentration per Run 3	0.0490 ppm	0.0519 ppm	0.0487 ppm	0.0504 ppm	0.0526 ppm	0.5478 ppm	0.0512 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	106.436 %	21.898 %	0.000 %
Concentration RSD	1.6 %	2.0 %	2.4 %	2.0 %	3.3 %	0.7 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0528 ppm	0.0498 ppm	0.0519 ppm	1.0187 ppm	0.0520 ppm	0.0500 ppm	0.0485 ppm
Concentration per Run 1	0.0538 ppm	0.0498 ppm	0.0527 ppm	1.0256 ppm	0.0528 ppm	0.0510 ppm	0.0493 ppm
Concentration per Run 2	0.0520 ppm	0.0497 ppm	0.0515 ppm	1.0157 ppm	0.0520 ppm	0.0500 ppm	0.0509 ppm
Concentration per Run 3	0.0527 ppm	0.0497 ppm	0.0516 ppm	1.0149 ppm	0.0513 ppm	0.0490 ppm	0.0454 ppm
Recovery Percentage 1	105.656 %	0.000 %	0.000 %	101.873 %	0.000 %	0.000 %	97.089 %
Concentration RSD	1.7 %	0.1 %	1.2 %	0.6 %	1.5 %	2.0 %	5.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0451 ppm	0.4989 ppm	0.0523 ppm	0.0511 ppm	0.0508 ppm	0.0497 ppm	0.0496 ppm
Concentration per Run 1	0.0466 ppm	0.5091 ppm	0.0516 ppm	0.0516 ppm	0.0516 ppm	0.0504 ppm	0.0506 ppm
Concentration per Run 2	0.0468 ppm	0.4954 ppm	0.0528 ppm	0.0505 ppm	0.0510 ppm	0.0484 ppm	0.0497 ppm
Concentration per Run 3	0.0418 ppm	0.4923 ppm	0.0524 ppm	0.0511 ppm	0.0498 ppm	0.0502 ppm	0.0485 ppm
Recovery Percentage 1	0.000 %	99.781 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	6.2 %	1.8 %	1.2 %	1.0 %	1.8 %	2.1 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0506 ppm	98.4116 %	102.7553 %	101.9209 %	97.2673 %	100.7630 %	100.7722 %
Concentration per Run 1	0.0515 ppm	97.0788 %	102.6308 %	101.5611 %	97.1949 %	100.7580 %	101.2563 %
Concentration per Run 2	0.0505 ppm	98.5718 %	101.6926 %	102.1472 %	97.2940 %	99.9861 %	101.0580 %
Concentration per Run 3	0.0499 ppm	99.5842 %	103.9424 %	102.0544 %	97.3130 %	101.5448 %	100.0022 %
Recovery Percentage 1	101.293 %						
Concentration RSD	1.5 %	1.3 %	1.1 %	0.3 %	0.1 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ 0.005ppm Zn 200.7
Analysis started at: 6/14/2024 6:28:03 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0047 ppm	0.0027 ppm	0.0061 ppm	0.0054 ppm	0.0051 ppm	0.0049 ppm	0.0113 ppm
Concentration per Run 1	0.0049 ppm	-0.0016 ppm	0.0064 ppm	0.0047 ppm	0.0052 ppm	0.0049 ppm	0.0137 ppm
Concentration per Run 2	0.0045 ppm	0.0065 ppm	0.0075 ppm	0.0051 ppm	0.0052 ppm	0.0049 ppm	0.0075 ppm
Concentration per Run 3	0.0047 ppm	0.0030 ppm	0.0046 ppm	0.0063 ppm	0.0051 ppm	0.0049 ppm	0.0128 ppm
Recovery Percentage 1	93.753 %	0.000 %	122.941 %	0.000 %	0.000 %	97.715 %	0.000 %
Concentration RSD	3.4 %	152.3 %	23.1 %	15.5 %	1.6 %	0.5 %	29.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0048 ppm	0.0054 ppm	0.0047 ppm	0.0057 ppm	0.0087 ppm	0.0342 ppm	0.0044 ppm
Concentration per Run 1	0.0048 ppm	0.0059 ppm	0.0046 ppm	0.0062 ppm	0.0087 ppm	0.0494 ppm	0.0063 ppm
Concentration per Run 2	0.0048 ppm	0.0053 ppm	0.0052 ppm	0.0054 ppm	0.0086 ppm	0.0297 ppm	0.0033 ppm
Concentration per Run 3	0.0049 ppm	0.0052 ppm	0.0044 ppm	0.0055 ppm	0.0087 ppm	0.0236 ppm	0.0037 ppm
Recovery Percentage 1	96.528 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.2 %	6.9 %	8.6 %	7.7 %	0.7 %	39.4 %	36.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0060 ppm	0.0051 ppm	0.0054 ppm	0.0881 ppm	0.0049 ppm	0.0050 ppm	0.0062 ppm
Concentration per Run 1	0.0065 ppm	0.0051 ppm	0.0052 ppm	0.0902 ppm	0.0049 ppm	0.0054 ppm	0.0055 ppm
Concentration per Run 2	0.0057 ppm	0.0051 ppm	0.0055 ppm	0.0914 ppm	0.0052 ppm	0.0059 ppm	0.0048 ppm
Concentration per Run 3	0.0058 ppm	0.0052 ppm	0.0054 ppm	0.0827 ppm	0.0045 ppm	0.0036 ppm	0.0084 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	7.2 %	0.8 %	2.8 %	5.4 %	7.2 %	23.9 %	30.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	0.0467 ppm	0.0051 ppm	0.0050 ppm	0.0053 ppm	0.0027 ppm	0.0050 ppm
Concentration per Run 1	0.0049 ppm	0.0455 ppm	0.0052 ppm	0.0052 ppm	0.0054 ppm	0.0026 ppm	0.0052 ppm
Concentration per Run 2	0.0054 ppm	0.0486 ppm	0.0046 ppm	0.0049 ppm	0.0053 ppm	0.0034 ppm	0.0050 ppm
Concentration per Run 3	0.0048 ppm	0.0459 ppm	0.0054 ppm	0.0049 ppm	0.0052 ppm	0.0022 ppm	0.0048 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	6.4 %	3.6 %	7.4 %	3.3 %	1.5 %	21.6 %	3.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	97.8889 %	101.5162 %	100.1198 %	97.2968 %	100.4857 %	99.7858 %
Concentration per Run 1	0.0055 ppm	96.6737 %	100.4086 %	99.7360 %	97.3912 %	99.5785 %	100.0861 %
Concentration per Run 2	0.0050 ppm	97.4641 %	101.5689 %	99.8736 %	97.0618 %	100.7375 %	99.5176 %
Concentration per Run 3	0.0051 ppm	99.5288 %	102.5711 %	100.7499 %	97.4373 %	101.1409 %	99.7538 %
Recovery Percentage 1	103.405 %						
Concentration RSD	5.0 %	1.5 %	1.1 %	0.5 %	0.2 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: ICSA
Analysis started at: 6/14/2024 6:32:05 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	504.0118 ppm	0.0022 ppm	0.0012 ppm	0.0023 ppm	0.0001 ppm	470.3280 ppm
Concentration per Run 1	0.0000 ppm	507.5555 ppm	0.0027 ppm	0.0001 ppm	0.0022 ppm	0.0001 ppm	472.6003 ppm
Concentration per Run 2	0.0005 ppm	502.7476 ppm	0.0026 ppm	0.0026 ppm	0.0024 ppm	0.0000 ppm	469.6472 ppm
Concentration per Run 3	-0.0003 ppm	501.7322 ppm	0.0014 ppm	0.0008 ppm	0.0023 ppm	0.0001 ppm	468.7365 ppm
Recovery Percentage 1	0.860 %	504,011.768 %	74.559 %	3.847 %	23.045 %	1.449 %	470,327.983 %
Concentration RSD	607.2 %	0.6 %	32.0 %	108.4 %	4.6 %	31.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	189.1692 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	-0.0008 ppm	-0.0004 ppm	190.1461 ppm	0.0116 ppm	0.0026 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	-0.0005 ppm	0.0014 ppm	189.4292 ppm	-0.0214 ppm	0.0004 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	-0.0008 ppm	0.0001 ppm	187.9323 ppm	0.0090 ppm	-0.0014 ppm
Recovery Percentage 1	7.564 %	-0.608 %	-6.896 %	3.680 %	378,338.359 %	-0.010 %	5.389 %
Concentration RSD	18.7 %	147.4 %	22.3 %	241.7 %	0.6 %	7,114.1 %	374.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	469.7814 ppm	0.0019 ppm	-0.0004 ppm	0.0464 ppm	-0.0005 ppm	-0.0059 ppm	-0.0012 ppm
Concentration per Run 1	476.2709 ppm	0.0019 ppm	-0.0002 ppm	0.0411 ppm	-0.0010 ppm	-0.0070 ppm	0.0016 ppm
Concentration per Run 2	466.4348 ppm	0.0019 ppm	-0.0004 ppm	0.0519 ppm	-0.0006 ppm	-0.0064 ppm	-0.0012 ppm
Concentration per Run 3	466.6386 ppm	0.0018 ppm	-0.0007 ppm	0.0463 ppm	0.0001 ppm	-0.0043 ppm	-0.0040 ppm
Recovery Percentage 1	469,781.440 %	18.761 %	-0.883 %	2.321 %	-1.971 %	-59.015 %	-2.415 %
Concentration RSD	1.2 %	2.3 %	57.1 %	11.7 %	121.0 %	23.9 %	232.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0104 ppm	0.0018 ppm	0.0005 ppm	0.0002 ppm	0.0028 ppm	-0.0008 ppm
Concentration per Run 1	0.0003 ppm	0.0130 ppm	0.0016 ppm	0.0006 ppm	0.0000 ppm	0.0042 ppm	-0.0003 ppm
Concentration per Run 2	-0.0013 ppm	0.0119 ppm	0.0024 ppm	0.0005 ppm	0.0003 ppm	0.0048 ppm	-0.0014 ppm
Concentration per Run 3	-0.0023 ppm	0.0063 ppm	0.0014 ppm	0.0005 ppm	0.0004 ppm	-0.0006 ppm	-0.0007 ppm
Recovery Percentage 1	-11.075 %	2.077 %	3.638 %	5.292 %	2.170 %	13.975 %	-8.155 %
Concentration RSD	119.8 %	34.8 %	28.2 %	5.8 %	99.2 %	106.6 %	68.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	87.9955 %	97.9721 %	79.3473 %	81.0202 %	94.4642 %	84.4870 %
Concentration per Run 1	0.0017 ppm	86.8691 %	97.5982 %	79.5121 %	80.6442 %	94.5005 %	84.7414 %
Concentration per Run 2	0.0010 ppm	88.3673 %	97.6825 %	79.5942 %	81.3730 %	93.9714 %	84.7072 %
Concentration per Run 3	0.0012 ppm	88.7499 %	98.6356 %	78.9355 %	81.0432 %	94.9206 %	84.0125 %
Recovery Percentage 1	25.557 %						
Concentration RSD	26.2 %	1.1 %	0.6 %	0.5 %	0.5 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: zLLOQ 0.005ppm
Analysis started at: 6/14/2024 6:36:15 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	0.0154 ppm	0.0049 ppm	0.0044 ppm	0.0052 ppm	0.0048 ppm	0.0240 ppm
Concentration per Run 1	0.0053 ppm	0.0167 ppm	0.0070 ppm	0.0055 ppm	0.0054 ppm	0.0049 ppm	0.0253 ppm
Concentration per Run 2	0.0052 ppm	0.0183 ppm	0.0057 ppm	0.0028 ppm	0.0051 ppm	0.0047 ppm	0.0243 ppm
Concentration per Run 3	0.0052 ppm	0.0112 ppm	0.0021 ppm	0.0050 ppm	0.0052 ppm	0.0047 ppm	0.0224 ppm
Recovery Percentage 1	104.649 %	0.000 %	98.098 %	0.000 %	0.000 %	96.151 %	0.000 %
Concentration RSD	1.1 %	24.2 %	51.6 %	32.1 %	2.8 %	2.3 %	6.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0050 ppm	0.0053 ppm	0.0050 ppm	0.0059 ppm	0.0146 ppm	0.0563 ppm	0.0060 ppm
Concentration per Run 1	0.0053 ppm	0.0054 ppm	0.0056 ppm	0.0060 ppm	0.0150 ppm	0.0590 ppm	0.0055 ppm
Concentration per Run 2	0.0049 ppm	0.0051 ppm	0.0047 ppm	0.0060 ppm	0.0132 ppm	0.0399 ppm	0.0069 ppm
Concentration per Run 3	0.0049 ppm	0.0053 ppm	0.0048 ppm	0.0058 ppm	0.0156 ppm	0.0699 ppm	0.0055 ppm
Recovery Percentage 1	100.946 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	3.8 %	3.0 %	9.7 %	2.3 %	8.6 %	26.9 %	13.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0165 ppm	0.0050 ppm	0.0052 ppm	0.0844 ppm	0.0050 ppm	0.0046 ppm	0.0054 ppm
Concentration per Run 1	0.0169 ppm	0.0052 ppm	0.0051 ppm	0.0906 ppm	0.0048 ppm	0.0050 ppm	0.0054 ppm
Concentration per Run 2	0.0175 ppm	0.0049 ppm	0.0053 ppm	0.0828 ppm	0.0052 ppm	0.0033 ppm	0.0055 ppm
Concentration per Run 3	0.0152 ppm	0.0047 ppm	0.0054 ppm	0.0800 ppm	0.0049 ppm	0.0054 ppm	0.0052 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	7.1 %	4.6 %	3.0 %	6.5 %	3.6 %	24.6 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	0.0480 ppm	0.0054 ppm	0.0050 ppm	0.0053 ppm	0.0041 ppm	0.0050 ppm
Concentration per Run 1	0.0056 ppm	0.0536 ppm	0.0056 ppm	0.0050 ppm	0.0053 ppm	0.0021 ppm	0.0051 ppm
Concentration per Run 2	0.0047 ppm	0.0444 ppm	0.0052 ppm	0.0051 ppm	0.0052 ppm	0.0047 ppm	0.0049 ppm
Concentration per Run 3	0.0052 ppm	0.0460 ppm	0.0054 ppm	0.0048 ppm	0.0053 ppm	0.0056 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	8.5 %	10.3 %	4.1 %	3.5 %	1.8 %	44.0 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0053 ppm	95.2695 %	102.7631 %	98.5028 %	96.2065 %	102.7152 %	99.6924 %
Concentration per Run 1	0.0053 ppm	92.6886 %	100.2863 %	98.2154 %	94.9933 %	100.4615 %	100.1190 %
Concentration per Run 2	0.0055 ppm	95.4950 %	103.5181 %	98.7920 %	96.6307 %	103.3046 %	99.7213 %
Concentration per Run 3	0.0052 ppm	97.6250 %	104.4847 %	98.5010 %	96.9954 %	104.3795 %	99.2369 %
Recovery Percentage 1	106.889 %						
Concentration RSD	3.2 %	2.6 %	2.1 %	0.3 %	1.1 %	2.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR 500 Fe pass _IEC -V
Analysis started at: 6/14/2024 6:45:31 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0013 ppm	0.0504 ppm	0.0010 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 1	-0.0016 ppm	0.0517 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 2	-0.0009 ppm	0.0457 ppm	0.0011 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0110 ppm
Concentration per Run 3	-0.0014 ppm	0.0539 ppm	0.0019 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0104 ppm
Concentration RSD	28.0 %	8.4 %	106.3 %	161.4 %	30.8 %	917.4 %	14.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	-0.0013 ppm	-0.0026 ppm	-0.0047 ppm	460.1358 ppm	-0.0894 ppm	0.0009 ppm
Concentration per Run 1	0.0011 ppm	-0.0013 ppm	-0.0023 ppm	-0.0052 ppm	461.1486 ppm	-0.0801 ppm	-0.0007 ppm
Concentration per Run 2	0.0012 ppm	-0.0015 ppm	-0.0028 ppm	-0.0045 ppm	458.3687 ppm	-0.0947 ppm	0.0019 ppm
Concentration per Run 3	0.0010 ppm	-0.0013 ppm	-0.0026 ppm	-0.0045 ppm	460.8900 ppm	-0.0934 ppm	0.0015 ppm
Concentration RSD	9.8 %	8.9 %	9.1 %	8.5 %	0.3 %	9.0 %	157.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0005 ppm	-0.0023 ppm	-0.0111 ppm	-0.0020 ppm	0.0009 ppm	0.0087 ppm
Concentration per Run 1	0.0006 ppm	0.0008 ppm	-0.0024 ppm	-0.0083 ppm	-0.0026 ppm	0.0009 ppm	0.0069 ppm
Concentration per Run 2	-0.0008 ppm	0.0004 ppm	-0.0024 ppm	-0.0113 ppm	-0.0015 ppm	0.0008 ppm	0.0109 ppm
Concentration per Run 3	-0.0021 ppm	0.0004 ppm	-0.0022 ppm	-0.0136 ppm	-0.0017 ppm	0.0010 ppm	0.0083 ppm
Concentration RSD	176.8 %	50.0 %	5.0 %	23.8 %	31.2 %	15.5 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	-0.0061 ppm	0.0021 ppm	0.0003 ppm	0.0002 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0067 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0022 ppm	-0.0053 ppm	0.0016 ppm	0.0002 ppm	0.0002 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 3	-0.0019 ppm	-0.0063 ppm	0.0030 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	93.6 %	11.5 %	38.5 %	26.8 %	101.6 %	110.9 %	1,505.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	101.2013 %	103.9222 %	94.3725 %	93.3240 %	99.3222 %	97.1416 %
Concentration per Run 1	-0.0009 ppm	100.1660 %	103.1153 %	94.3802 %	93.1852 %	99.0479 %	97.2884 %
Concentration per Run 2	-0.0008 ppm	101.5314 %	104.5401 %	94.3027 %	93.4492 %	99.7644 %	97.1974 %
Concentration per Run 3	-0.0005 ppm	101.9066 %	104.1114 %	94.4347 %	93.3375 %	99.1543 %	96.9389 %
Concentration RSD	24.0 %	0.9 %	0.7 %	0.1 %	0.1 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR 1000 Ca pass
Analysis started at: 6/14/2024 6:49:33 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	-0.0098 ppm	0.0010 ppm	0.0009 ppm	0.0025 ppm	0.0000 ppm	980.2352 ppm
Concentration per Run 1	-0.0008 ppm	-0.0090 ppm	-0.0001 ppm	0.0008 ppm	0.0027 ppm	0.0001 ppm	985.5525 ppm
Concentration per Run 2	-0.0013 ppm	-0.0147 ppm	0.0011 ppm	0.0010 ppm	0.0024 ppm	0.0000 ppm	980.4623 ppm
Concentration per Run 3	-0.0008 ppm	-0.0058 ppm	0.0020 ppm	0.0008 ppm	0.0024 ppm	0.0000 ppm	974.6908 ppm
Concentration RSD	30.1 %	46.1 %	109.5 %	11.6 %	6.3 %	870.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0011 ppm	0.0008 ppm	0.0013 ppm	0.0251 ppm	0.0063 ppm	0.0022 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0008 ppm	0.0014 ppm	0.0258 ppm	0.0116 ppm	0.0037 ppm
Concentration per Run 2	0.0002 ppm	0.0009 ppm	0.0008 ppm	0.0012 ppm	0.0248 ppm	0.0079 ppm	0.0024 ppm
Concentration per Run 3	0.0002 ppm	0.0016 ppm	0.0008 ppm	0.0013 ppm	0.0248 ppm	-0.0006 ppm	0.0005 ppm
Concentration RSD	15.4 %	36.9 %	3.2 %	7.8 %	2.4 %	99.7 %	74.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0004 ppm	0.0002 ppm	-0.0062 ppm	0.0006 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 1	0.0026 ppm	0.0004 ppm	-0.0003 ppm	-0.0100 ppm	0.0010 ppm	0.0023 ppm	0.0029 ppm
Concentration per Run 2	0.0026 ppm	0.0005 ppm	0.0006 ppm	-0.0099 ppm	0.0007 ppm	0.0004 ppm	-0.0040 ppm
Concentration per Run 3	0.0031 ppm	0.0005 ppm	0.0003 ppm	0.0014 ppm	0.0001 ppm	0.0014 ppm	0.0017 ppm
Concentration RSD	11.2 %	13.0 %	224.5 %	106.1 %	76.9 %	70.9 %	1,868.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	-0.0020 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	-0.0005 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0021 ppm	-0.0001 ppm
Concentration per Run 2	0.0032 ppm	-0.0010 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	0.0023 ppm	-0.0046 ppm	-0.0013 ppm	0.0004 ppm	0.0002 ppm	0.0011 ppm	-0.0001 ppm
Concentration RSD	30.8 %	109.9 %	120.2 %	51.8 %	656.0 %	171.8 %	59.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	82.0491 %	94.1773 %	78.6781 %	84.1388 %	96.3115 %	87.9820 %
Concentration per Run 1	0.0012 ppm	80.9796 %	93.9007 %	77.6495 %	84.1424 %	96.6790 %	87.6066 %
Concentration per Run 2	0.0013 ppm	82.2059 %	94.0740 %	78.6228 %	84.1368 %	96.4438 %	88.0064 %
Concentration per Run 3	0.0013 ppm	82.9619 %	94.5573 %	79.7621 %	84.1372 %	95.8117 %	88.3330 %
Concentration RSD	6.1 %	1.2 %	0.4 %	1.3 %	0.0 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: SIC Multi
Analysis started at: 6/14/2024 6:53:30 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0174 ppm	0.0034 ppm	0.0036 ppm	0.0002 ppm	-0.0014 ppm	0.0260 ppm
Concentration per Run 1	-0.0005 ppm	0.0098 ppm	0.0035 ppm	0.0043 ppm	0.0000 ppm	-0.0015 ppm	0.0286 ppm
Concentration per Run 2	-0.0006 ppm	0.0169 ppm	0.0053 ppm	0.0037 ppm	0.0004 ppm	-0.0014 ppm	0.0229 ppm
Concentration per Run 3	-0.0005 ppm	0.0254 ppm	0.0015 ppm	0.0027 ppm	0.0002 ppm	-0.0013 ppm	0.0266 ppm
Recovery Percentage 1	-7.477 %	17.375 %	114.586 %	11.930 %	2.034 %	-35.383 %	26.010 %
Concentration RSD	7.9 %	44.8 %	56.3 %	22.4 %	97.6 %	5.1 %	11.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0013 ppm	19.5594 ppm	-0.0010 ppm	0.0302 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0016 ppm	19.8714 ppm	-0.0010 ppm	0.0302 ppm	0.0023 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	19.5061 ppm	-0.0013 ppm	0.0294 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0020 ppm	19.3008 ppm	-0.0009 ppm	0.0311 ppm	-0.0030 ppm	0.0010 ppm
Recovery Percentage 1	-1.085 %	6.481 %	195,594.270 %	-10.468 %	60.440 %	-0.007 %	4.341 %
Concentration RSD	40.8 %	70.3 %	1.5 %	17.6 %	2.8 %	1,459.2 %	121.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0060 ppm	20.1628 ppm	0.0007 ppm	-0.0232 ppm	-0.0002 ppm	-0.0018 ppm	-0.0041 ppm
Concentration per Run 1	-0.0060 ppm	20.1835 ppm	0.0010 ppm	-0.0186 ppm	0.0005 ppm	-0.0021 ppm	-0.0007 ppm
Concentration per Run 2	-0.0072 ppm	20.1525 ppm	0.0006 ppm	-0.0275 ppm	-0.0010 ppm	-0.0026 ppm	-0.0045 ppm
Concentration per Run 3	-0.0048 ppm	20.1523 ppm	0.0006 ppm	-0.0234 ppm	-0.0002 ppm	-0.0008 ppm	-0.0073 ppm
Recovery Percentage 1	-5.974 %	201,627.641 %	1.431 %	-1.158 %	-0.956 %	-18.010 %	-8.291 %
Concentration RSD	20.4 %	0.1 %	33.9 %	19.3 %	316.9 %	52.7 %	79.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0463 ppm	-0.0032 ppm	0.0004 ppm	19.3622 ppm	-0.0062 ppm	9.9223 ppm
Concentration per Run 1	0.0000 ppm	0.0253 ppm	-0.0031 ppm	0.0005 ppm	19.6377 ppm	-0.0134 ppm	10.0372 ppm
Concentration per Run 2	-0.0022 ppm	0.0449 ppm	-0.0031 ppm	0.0003 ppm	19.3302 ppm	-0.0048 ppm	9.9075 ppm
Concentration per Run 3	-0.0034 ppm	0.0687 ppm	-0.0034 ppm	0.0004 ppm	19.1189 ppm	-0.0003 ppm	9.8223 ppm
Recovery Percentage 1	-18.631 %	9.261 %	-6.384 %	3.850 %	193,622.479 %	-30.811 %	99,223.323 %
Concentration RSD	94.7 %	47.0 %	6.0 %	18.3 %	1.3 %	108.3 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	102.6036 %	106.4124 %	86.1322 %	97.0247 %	102.3565 %	100.7836 %
Concentration per Run 1	0.0014 ppm	100.8275 %	105.9999 %	86.3436 %	96.1198 %	102.2588 %	101.5809 %
Concentration per Run 2	0.0010 ppm	103.0504 %	106.3755 %	86.0093 %	97.4254 %	102.2289 %	100.5422 %
Concentration per Run 3	0.0012 ppm	103.9329 %	106.8617 %	86.0437 %	97.5290 %	102.5820 %	100.2277 %
Recovery Percentage 1	24.142 %						
Concentration RSD	16.6 %	1.6 %	0.4 %	0.2 %	0.8 %	0.2 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR 50 Mn pass _IEC +As -Mg +Se
Analysis started at: 6/14/2024 6:57:28 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0023 ppm	0.0021 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 1	-0.0002 ppm	0.0040 ppm	0.0021 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0112 ppm
Concentration per Run 2	0.0001 ppm	0.0023 ppm	0.0006 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0037 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration RSD	1,107.8 %	70.1 %	71.8 %	936.2 %	463.2 %	276.3 %	49.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0021 ppm	-0.0019 ppm	-0.0270 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0021 ppm	-0.0010 ppm	-0.0340 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0005 ppm	-0.0021 ppm	-0.0027 ppm	-0.0082 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0020 ppm	-0.0021 ppm	-0.0389 ppm	0.0031 ppm
Concentration RSD	234.7 %	426.7 %	68.4 %	3.8 %	45.0 %	61.0 %	1,381.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	50.2982 ppm	0.0001 ppm	-0.0260 ppm	-0.0005 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 1	0.0036 ppm	50.5158 ppm	0.0003 ppm	-0.0226 ppm	-0.0003 ppm	0.0010 ppm	-0.0018 ppm
Concentration per Run 2	0.0034 ppm	50.3232 ppm	0.0000 ppm	-0.0290 ppm	-0.0010 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0025 ppm	50.0557 ppm	-0.0001 ppm	-0.0263 ppm	-0.0002 ppm	0.0013 ppm	0.0038 ppm
Concentration RSD	18.8 %	0.5 %	432.6 %	12.5 %	79.6 %	83.7 %	401.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0063 ppm	0.0004 ppm	0.0000 ppm	0.0025 ppm	0.0007 ppm	-0.0019 ppm
Concentration per Run 1	0.0002 ppm	-0.0042 ppm	-0.0006 ppm	0.0000 ppm	0.0030 ppm	0.0010 ppm	-0.0018 ppm
Concentration per Run 2	0.0002 ppm	-0.0069 ppm	0.0018 ppm	0.0000 ppm	0.0021 ppm	0.0012 ppm	-0.0019 ppm
Concentration per Run 3	0.0033 ppm	-0.0077 ppm	0.0000 ppm	-0.0001 ppm	0.0023 ppm	0.0000 ppm	-0.0019 ppm
Concentration RSD	149.1 %	29.3 %	305.2 %	94.4 %	19.4 %	84.0 %	5.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	96.2792 %	101.7509 %	98.8678 %	97.0362 %	102.0543 %	101.2308 %
Concentration per Run 1	0.0002 ppm	94.9017 %	101.3376 %	98.8303 %	96.9159 %	102.1429 %	101.7224 %
Concentration per Run 2	0.0006 ppm	96.0948 %	101.7209 %	98.5773 %	96.5573 %	102.1107 %	100.8315 %
Concentration per Run 3	0.0004 ppm	97.8411 %	102.1941 %	99.1959 %	97.6355 %	101.9093 %	101.1385 %
Concentration RSD	40.2 %	1.5 %	0.4 %	0.3 %	0.6 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR Check
Analysis started at: 6/14/2024 7:01:25 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	0.0627 ppm	22.0735 ppm	18.8808 ppm	19.5829 ppm	4.9906 ppm	0.0288 ppm
Concentration per Run 1	0.0011 ppm	0.0714 ppm	22.0817 ppm	18.9578 ppm	19.5650 ppm	4.9975 ppm	0.0306 ppm
Concentration per Run 2	0.0008 ppm	0.0602 ppm	22.0845 ppm	18.8391 ppm	19.4926 ppm	4.9860 ppm	0.0290 ppm
Concentration per Run 3	0.0012 ppm	0.0564 ppm	22.0544 ppm	18.8456 ppm	19.6912 ppm	4.9884 ppm	0.0268 ppm
Recovery Percentage 1			110.368 %	94.404 %	97.915 %		0.000 %
Concentration RSD	23.0 %	12.4 %	0.1 %	0.4 %	0.5 %	0.1 %	6.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8784 ppm	4.9148 ppm	0.0026 ppm	18.8653 ppm	0.0795 ppm	520.5395 ppm	18.8858 ppm
Concentration per Run 1	4.9230 ppm	4.9543 ppm	0.0030 ppm	18.9993 ppm	0.0799 ppm	520.4482 ppm	18.9234 ppm
Concentration per Run 2	4.8608 ppm	4.9007 ppm	0.0022 ppm	18.8228 ppm	0.0794 ppm	518.1299 ppm	18.6910 ppm
Concentration per Run 3	4.8513 ppm	4.8895 ppm	0.0025 ppm	18.7737 ppm	0.0793 ppm	523.0405 ppm	19.0431 ppm
Recovery Percentage 1	97.567 %	98.296 %		94.326 %	0.000 %	104.108 %	94.429 %
Concentration RSD	0.8 %	0.7 %	16.9 %	0.6 %	0.4 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0024 ppm	0.0029 ppm	4.8742 ppm	417.8805 ppm	9.7637 ppm	50.3615 ppm	4.8967 ppm
Concentration per Run 1	-0.0019 ppm	0.0030 ppm	4.8246 ppm	417.8983 ppm	9.8654 ppm	50.4905 ppm	4.8634 ppm
Concentration per Run 2	-0.0038 ppm	0.0027 ppm	4.8834 ppm	419.2981 ppm	9.7077 ppm	50.4817 ppm	4.8896 ppm
Concentration per Run 3	-0.0014 ppm	0.0030 ppm	4.9147 ppm	416.4449 ppm	9.7181 ppm	50.1124 ppm	4.9370 ppm
Recovery Percentage 1		0.000 %	97.485 %	83.576 %	97.637 %	100.723 %	97.933 %
Concentration RSD	52.5 %	6.0 %	0.9 %	0.3 %	0.9 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.2430 ppm	21.1697 ppm	8.0453 ppm	4.9331 ppm	0.0082 ppm	4.7546 ppm	-0.0008 ppm
Concentration per Run 1	5.2475 ppm	21.2430 ppm	8.0809 ppm	4.9330 ppm	0.0081 ppm	4.7627 ppm	-0.0011 ppm
Concentration per Run 2	5.2464 ppm	21.1283 ppm	7.9859 ppm	4.9372 ppm	0.0083 ppm	4.7573 ppm	-0.0005 ppm
Concentration per Run 3	5.2352 ppm	21.1379 ppm	8.0690 ppm	4.9291 ppm	0.0082 ppm	4.7439 ppm	-0.0007 ppm
Recovery Percentage 1	104.860 %	105.849 %	80.453 %	98.662 %	0.000 %	95.093 %	0.000 %
Concentration RSD	0.1 %	0.3 %	0.6 %	0.1 %	1.3 %	0.2 %	35.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.4309 ppm	92.5571 %	102.0494 %	87.1339 %	83.1258 %	96.2592 %	86.4425 %
Concentration per Run 1	19.6558 ppm	91.4040 %	102.0328 %	87.1184 %	82.3077 %	96.4297 %	86.3083 %
Concentration per Run 2	19.3005 ppm	93.2495 %	102.0630 %	86.5972 %	83.8401 %	96.4831 %	86.0031 %
Concentration per Run 3	19.3362 ppm	93.0178 %	102.0522 %	87.6861 %	83.2294 %	95.8649 %	87.0161 %
Recovery Percentage 1	97.154 %						
Concentration RSD	1.0 %	1.1 %	0.0 %	0.6 %	0.9 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR 500 Na
Analysis started at: 6/14/2024 7:05:23 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0037 ppm	0.0081 ppm	0.0106 ppm	0.0006 ppm	0.0002 ppm	0.0113 ppm
Concentration per Run 1	-0.0004 ppm	0.0078 ppm	0.0082 ppm	0.0121 ppm	0.0007 ppm	0.0001 ppm	0.0142 ppm
Concentration per Run 2	-0.0002 ppm	-0.0098 ppm	0.0080 ppm	0.0102 ppm	0.0005 ppm	0.0001 ppm	0.0115 ppm
Concentration per Run 3	-0.0003 ppm	-0.0091 ppm	0.0080 ppm	0.0094 ppm	0.0007 ppm	0.0002 ppm	0.0082 ppm
Concentration RSD	44.8 %	270.5 %	1.0 %	13.2 %	16.8 %	20.7 %	26.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0015 ppm	0.0080 ppm	0.5076 ppm	0.0022 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	0.0004 ppm	0.0017 ppm	0.0187 ppm	0.5348 ppm	0.0027 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0013 ppm	0.0023 ppm	0.5116 ppm	0.0008 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0002 ppm	0.0015 ppm	0.0031 ppm	0.4763 ppm	0.0031 ppm
Concentration RSD	186.0 %	32.4 %	149.9 %	13.8 %	114.9 %	5.8 %	55.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0002 ppm	0.0199 ppm	455.1396 ppm	0.0004 ppm	0.0022 ppm	0.0141 ppm
Concentration per Run 1	0.0016 ppm	0.0003 ppm	0.0206 ppm	472.3994 ppm	0.0016 ppm	0.0004 ppm	0.0146 ppm
Concentration per Run 2	0.0015 ppm	0.0002 ppm	0.0193 ppm	470.4195 ppm	0.0002 ppm	0.0025 ppm	0.0151 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	0.0198 ppm	422.6000 ppm	-0.0005 ppm	0.0037 ppm	0.0125 ppm
Concentration RSD	144.1 %	15.1 %	3.1 %	6.2 %	253.4 %	76.2 %	9.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	-0.0035 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0030 ppm	-0.0030 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0043 ppm	0.0012 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0009 ppm	-0.0034 ppm	0.0029 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm	0.0000 ppm
Concentration RSD	287.0 %	18.7 %	52.0 %	63.8 %	417.1 %	841.9 %	322.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	87.5006 %	102.1228 %	89.6322 %	87.0900 %	100.5702 %	93.7960 %
Concentration per Run 1	0.0013 ppm	86.1014 %	98.4802 %	97.5839 %	87.2068 %	97.4864 %	103.6134 %
Concentration per Run 2	0.0010 ppm	87.5387 %	99.3701 %	84.3258 %	86.9451 %	97.9588 %	86.2374 %
Concentration per Run 3	0.0010 ppm	88.8617 %	108.5180 %	86.9869 %	87.1182 %	106.2655 %	91.5371 %
Concentration RSD	15.7 %	1.6 %	5.4 %	7.8 %	0.2 %	4.9 %	9.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: IEC 10 V +TI
Analysis started at: 6/14/2024 7:36:42 AM
Rack 1
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0023 ppm	0.0019 ppm	0.0003 ppm	-0.0001 ppm	-0.0005 ppm	0.0179 ppm
Concentration per Run 1	0.0003 ppm	-0.0022 ppm	0.0024 ppm	0.0012 ppm	-0.0001 ppm	-0.0005 ppm	0.0168 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0012 ppm	0.0004 ppm	-0.0001 ppm	-0.0005 ppm	0.0195 ppm
Concentration per Run 3	0.0004 ppm	0.0076 ppm	0.0022 ppm	-0.0008 ppm	0.0000 ppm	-0.0005 ppm	0.0173 ppm
Recovery Percentage 1	3.098 %	2.343 %	64.488 %	0.896 %	-0.514 %	-13.038 %	17.860 %
Concentration RSD	106.5 %	211.5 %	33.2 %	388.9 %	48.8 %	3.8 %	8.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0057 ppm	0.0212 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0009 ppm	0.0053 ppm	0.0210 ppm	0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0009 ppm	0.0034 ppm	0.0245 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0009 ppm	0.0085 ppm	0.0183 ppm	-0.0015 ppm
Recovery Percentage 1	-0.746 %	1.305 %	0.027 %	9.089 %	11.451 %	0.849 %	5.982 %
Concentration RSD	177.3 %	170.6 %	6,508.7 %	1.5 %	45.7 %	14.7 %	342.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0026 ppm	0.0001 ppm	0.0009 ppm	0.0063 ppm	-0.0001 ppm	-0.0001 ppm	0.0079 ppm
Concentration per Run 1	0.0016 ppm	0.0000 ppm	0.0009 ppm	0.0048 ppm	-0.0005 ppm	0.0006 ppm	0.0078 ppm
Concentration per Run 2	0.0019 ppm	0.0002 ppm	0.0008 ppm	0.0077 ppm	0.0007 ppm	-0.0006 ppm	0.0075 ppm
Concentration per Run 3	0.0043 ppm	0.0001 ppm	0.0009 ppm	0.0064 ppm	-0.0005 ppm	-0.0002 ppm	0.0084 ppm
Recovery Percentage 1	2.609 %	0.967 %	1.768 %	0.317 %	-0.419 %	-0.656 %	15.859 %
Concentration RSD	55.0 %	125.0 %	5.7 %	23.0 %	636.0 %	974.5 %	6.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	-0.0049 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm	10.0685 ppm
Concentration per Run 1	0.0010 ppm	-0.0029 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0025 ppm	10.1364 ppm
Concentration per Run 2	0.0002 ppm	-0.0059 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0005 ppm	10.0772 ppm
Concentration per Run 3	0.0015 ppm	-0.0060 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	9.9918 ppm
Recovery Percentage 1	9.089 %	-0.982 %	0.451 %	0.668 %	3.452 %	6.257 %	100,684.638 %
Concentration RSD	71.7 %	35.7 %	18.6 %	51.7 %	41.9 %	85.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	105.6104 %	104.6342 %	105.5412 %	97.7352 %	99.8209 %	99.9662 %
Concentration per Run 1	0.0004 ppm	104.8476 %	105.1776 %	104.9963 %	97.4739 %	100.2561 %	99.8564 %
Concentration per Run 2	0.0006 ppm	105.6522 %	103.8481 %	105.6209 %	97.6650 %	99.1237 %	99.8684 %
Concentration per Run 3	0.0006 ppm	106.3314 %	104.8769 %	106.0066 %	98.0667 %	100.0829 %	100.1736 %
Recovery Percentage 1	10.657 %						
Concentration RSD	21.2 %	0.7 %	0.7 %	0.5 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR 20 As
Analysis started at: 6/14/2024 7:40:51 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0021 ppm	18.9590 ppm	-0.0044 ppm	0.0003 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 1	-0.0001 ppm	-0.0037 ppm	19.0164 ppm	-0.0044 ppm	0.0003 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	0.0001 ppm	-0.0076 ppm	19.0143 ppm	-0.0041 ppm	0.0003 ppm	-0.0001 ppm	0.0093 ppm
Concentration per Run 3	-0.0003 ppm	0.0050 ppm	18.8464 ppm	-0.0048 ppm	0.0004 ppm	0.0000 ppm	0.0090 ppm
Concentration RSD	221.3 %	307.8 %	0.5 %	7.8 %	22.7 %	132.6 %	21.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0058 ppm	0.0160 ppm	0.0004 ppm
Concentration per Run 1	-0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0005 ppm	0.0067 ppm	0.0164 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0007 ppm	0.0053 ppm	0.0261 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0006 ppm	0.0055 ppm	0.0054 ppm	-0.0002 ppm
Concentration RSD	66.0 %	71.7 %	5,231.6 %	17.5 %	12.8 %	65.2 %	192.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	0.0009 ppm	0.0004 ppm	0.0054 ppm	-0.0001 ppm	-0.0007 ppm	0.0034 ppm
Concentration per Run 1	0.0022 ppm	0.0008 ppm	0.0002 ppm	0.0068 ppm	-0.0004 ppm	-0.0003 ppm	0.0035 ppm
Concentration per Run 2	0.0027 ppm	0.0010 ppm	0.0007 ppm	0.0089 ppm	0.0002 ppm	-0.0015 ppm	0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0043 ppm
Concentration RSD	86.2 %	11.7 %	72.1 %	78.8 %	254.5 %	109.5 %	26.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	-0.0088 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	-0.0003 ppm	-0.0088 ppm	0.0012 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 2	-0.0014 ppm	-0.0089 ppm	0.0015 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 3	-0.0014 ppm	-0.0087 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm
Concentration RSD	63.7 %	1.3 %	13.7 %	94.0 %	385.9 %	65.7 %	36.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	99.6613 %	102.4483 %	102.1444 %	98.8714 %	102.0026 %	101.2673 %
Concentration per Run 1	0.0007 ppm	98.9715 %	101.9750 %	101.2798 %	99.1234 %	102.0871 %	100.9833 %
Concentration per Run 2	0.0008 ppm	99.8712 %	102.0418 %	102.6048 %	99.2363 %	101.6043 %	101.6053 %
Concentration per Run 3	0.0007 ppm	100.1412 %	103.3281 %	102.5487 %	98.2545 %	102.3165 %	101.2133 %
Concentration RSD	10.5 %	0.6 %	0.7 %	0.7 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 8:16:59 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4783 ppm	0.4810 ppm	0.4548 ppm	0.4691 ppm	0.4966 ppm	0.5013 ppm	0.4879 ppm
Concentration per Run 1	0.4807 ppm	0.4843 ppm	0.4553 ppm	0.4760 ppm	0.4957 ppm	0.5021 ppm	0.4928 ppm
Concentration per Run 2	0.4789 ppm	0.4802 ppm	0.4525 ppm	0.4649 ppm	0.4983 ppm	0.4996 ppm	0.4860 ppm
Concentration per Run 3	0.4752 ppm	0.4786 ppm	0.4568 ppm	0.4664 ppm	0.4959 ppm	0.5021 ppm	0.4850 ppm
Recovery Percentage 1	95.653 %	96.207 %	90.968 %	93.819 %	99.326 %	100.254 %	97.587 %
Concentration RSD	0.6 %	0.6 %	0.5 %	1.3 %	0.3 %	0.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4776 ppm	0.4882 ppm	0.4719 ppm	0.4716 ppm	0.5103 ppm	5.1579 ppm	0.4926 ppm
Concentration per Run 1	0.4849 ppm	0.4940 ppm	0.4755 ppm	0.4777 ppm	0.5102 ppm	5.1753 ppm	0.4918 ppm
Concentration per Run 2	0.4748 ppm	0.4863 ppm	0.4719 ppm	0.4695 ppm	0.5106 ppm	5.1915 ppm	0.4970 ppm
Concentration per Run 3	0.4732 ppm	0.4843 ppm	0.4682 ppm	0.4676 ppm	0.5102 ppm	5.1068 ppm	0.4890 ppm
Recovery Percentage 1	95.529 %	97.641 %	94.380 %	94.320 %	102.066 %	103.158 %	98.519 %
Concentration RSD	1.3 %	1.1 %	0.8 %	1.1 %	0.0 %	0.9 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4744 ppm	0.4860 ppm	0.4802 ppm	9.9737 ppm	0.4891 ppm	0.4810 ppm	0.4699 ppm
Concentration per Run 1	0.4800 ppm	0.4852 ppm	0.4820 ppm	9.9728 ppm	0.4943 ppm	0.4811 ppm	0.4800 ppm
Concentration per Run 2	0.4704 ppm	0.4867 ppm	0.4787 ppm	9.9708 ppm	0.4869 ppm	0.4798 ppm	0.4687 ppm
Concentration per Run 3	0.4729 ppm	0.4862 ppm	0.4801 ppm	9.9773 ppm	0.4862 ppm	0.4821 ppm	0.4610 ppm
Recovery Percentage 1	94.885 %	97.207 %	96.049 %	99.737 %	97.825 %	96.197 %	93.972 %
Concentration RSD	1.0 %	0.2 %	0.3 %	0.0 %	0.9 %	0.2 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4586 ppm	4.8888 ppm	0.5108 ppm	0.4995 ppm	0.4842 ppm	0.4835 ppm	0.4732 ppm
Concentration per Run 1	0.4565 ppm	4.9374 ppm	0.5101 ppm	0.4998 ppm	0.4876 ppm	0.4826 ppm	0.4758 ppm
Concentration per Run 2	0.4565 ppm	4.8492 ppm	0.5093 ppm	0.4983 ppm	0.4841 ppm	0.4788 ppm	0.4743 ppm
Concentration per Run 3	0.4629 ppm	4.8797 ppm	0.5128 ppm	0.5005 ppm	0.4809 ppm	0.4890 ppm	0.4694 ppm
Recovery Percentage 1	91.728 %	93.120 %	102.150 %	99.905 %	96.834 %	96.693 %	94.630 %
Concentration RSD	0.8 %	0.9 %	0.4 %	0.2 %	0.7 %	1.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4835 ppm	104.2574 %	104.4735 %	103.3858 %	96.7578 %	99.2748 %	99.0649 %
Concentration per Run 1	0.4887 ppm	102.9505 %	105.2508 %	103.5308 %	96.5484 %	100.4133 %	99.3522 %
Concentration per Run 2	0.4805 ppm	104.8333 %	104.0209 %	103.4897 %	96.9788 %	98.6424 %	99.1198 %
Concentration per Run 3	0.4812 ppm	104.9884 %	104.1489 %	103.1371 %	96.7462 %	98.7688 %	98.7227 %
Recovery Percentage 1	96.696 %						
Concentration RSD	0.9 %	1.1 %	0.6 %	0.2 %	0.2 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 8:21:07 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0043 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 1	-0.0002 ppm	-0.0080 ppm	-0.0006 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0041 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0130 ppm
Concentration per Run 3	0.0000 ppm	-0.0051 ppm	0.0017 ppm	-0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0071 ppm
Recovery Percentage 1	-1.715 %	-4.275 %	58.418 %	0.842 %	1.045 %	0.682 %	10.241 %
Concentration RSD	60.2 %	97.3 %	134.5 %	432.4 %	177.8 %	122.4 %	29.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0049 ppm	-0.0068 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0009 ppm	0.0050 ppm	-0.0056 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0040 ppm	-0.0232 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0006 ppm	0.0059 ppm	0.0085 ppm	0.0011 ppm
Recovery Percentage 1	0.634 %	1.366 %	1.404 %	6.835 %	9.872 %	-0.270 %	5.230 %
Concentration RSD	343.9 %	120.4 %	115.4 %	23.1 %	19.2 %	235.4 %	88.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0002 ppm	0.0022 ppm	-0.0119 ppm	0.0005 ppm	-0.0001 ppm	0.0042 ppm
Concentration per Run 1	0.0012 ppm	0.0001 ppm	0.0024 ppm	-0.0081 ppm	0.0006 ppm	0.0001 ppm	0.0056 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0021 ppm	-0.0110 ppm	0.0008 ppm	-0.0003 ppm	0.0049 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	0.0020 ppm	-0.0166 ppm	0.0002 ppm	-0.0001 ppm	0.0022 ppm
Recovery Percentage 1	0.160 %	2.134 %	4.342 %	-0.596 %	2.061 %	-1.051 %	8.419 %
Concentration RSD	599.3 %	32.1 %	9.6 %	36.0 %	55.8 %	187.1 %	42.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0093 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0091 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0021 ppm	-0.0088 ppm	0.0014 ppm	0.0001 ppm	0.0002 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 3	0.0011 ppm	-0.0101 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	12.348 %	-1.861 %	1.289 %	0.215 %	2.095 %	-2.503 %	-0.653 %
Concentration RSD	62.8 %	7.2 %	105.5 %	399.7 %	28.4 %	191.3 %	221.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	93.1567 %	97.8890 %	96.5495 %	96.7693 %	100.0351 %	99.0806 %
Concentration per Run 1	0.0014 ppm	91.8417 %	97.0783 %	95.7530 %	96.7841 %	99.7494 %	99.0504 %
Concentration per Run 2	0.0013 ppm	93.3547 %	98.7939 %	96.2253 %	97.0720 %	100.8788 %	98.7589 %
Concentration per Run 3	0.0014 ppm	94.2737 %	97.7946 %	97.6702 %	96.4518 %	99.4772 %	99.4325 %
Recovery Percentage 1	27.483 %						
Concentration RSD	4.6 %	1.3 %	0.9 %	1.0 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432001-07D2 WG1933299
Analysis started at: 6/14/2024 8:48:58 AM
Rack 3
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	123.5878 ppm	0.5793 ppm	0.0053 ppm	0.4539 ppm	0.0045 ppm	28.9114 ppm
Concentration per Run 1	0.0003 ppm	123.7215 ppm	0.5783 ppm	0.0061 ppm	0.4545 ppm	0.0045 ppm	28.9598 ppm
Concentration per Run 2	0.0005 ppm	123.1665 ppm	0.5741 ppm	0.0044 ppm	0.4531 ppm	0.0044 ppm	28.8405 ppm
Concentration per Run 3	0.0003 ppm	123.8753 ppm	0.5855 ppm	0.0055 ppm	0.4540 ppm	0.0045 ppm	28.9339 ppm
Concentration RSD	24.9 %	0.3 %	1.0 %	16.1 %	0.2 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1009 ppm	0.2730 ppm	0.2579 ppm	214.1366 ppm	25.0975 ppm	0.2875 ppm
Concentration per Run 1	0.0014 ppm	0.1014 ppm	0.2741 ppm	0.2586 ppm	213.8302 ppm	25.0739 ppm	0.2883 ppm
Concentration per Run 2	0.0014 ppm	0.1007 ppm	0.2725 ppm	0.2572 ppm	214.2101 ppm	24.9718 ppm	0.2864 ppm
Concentration per Run 3	0.0018 ppm	0.1004 ppm	0.2722 ppm	0.2578 ppm	214.3695 ppm	25.2468 ppm	0.2878 ppm
Concentration RSD	14.8 %	0.5 %	0.4 %	0.3 %	0.1 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.8384 ppm	3.4293 ppm	0.0043 ppm	0.7772 ppm	0.2739 ppm	0.1891 ppm	0.0177 ppm
Concentration per Run 1	52.9540 ppm	3.4318 ppm	0.0039 ppm	0.7776 ppm	0.2743 ppm	0.1880 ppm	0.0157 ppm
Concentration per Run 2	52.7574 ppm	3.4161 ppm	0.0045 ppm	0.7792 ppm	0.2738 ppm	0.1898 ppm	0.0203 ppm
Concentration per Run 3	52.8037 ppm	3.4399 ppm	0.0046 ppm	0.7747 ppm	0.2736 ppm	0.1896 ppm	0.0172 ppm
Concentration RSD	0.2 %	0.4 %	7.9 %	0.3 %	0.1 %	0.5 %	13.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	5.5596 ppm	0.0136 ppm	0.1257 ppm	5.3852 ppm	0.0059 ppm	0.2357 ppm
Concentration per Run 1	0.0011 ppm	5.5761 ppm	0.0134 ppm	0.1257 ppm	5.3963 ppm	0.0067 ppm	0.2358 ppm
Concentration per Run 2	-0.0005 ppm	5.5247 ppm	0.0139 ppm	0.1263 ppm	5.3912 ppm	0.0063 ppm	0.2381 ppm
Concentration per Run 3	-0.0012 ppm	5.5780 ppm	0.0134 ppm	0.1251 ppm	5.3681 ppm	0.0048 ppm	0.2333 ppm
Concentration RSD	616.2 %	0.5 %	2.2 %	0.4 %	0.3 %	16.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4994 ppm	107.0669 %	111.2060 %	93.4666 %	113.6873 %	125.2130 %	118.4481 %
Concentration per Run 1	0.5009 ppm	106.8040 %	111.3638 %	93.2289 %	113.5949 %	125.4158 %	118.2526 %
Concentration per Run 2	0.5008 ppm	107.7959 %	111.5885 %	93.7673 %	114.5265 %	125.4956 %	118.7208 %
Concentration per Run 3	0.4965 ppm	106.6009 %	110.6657 %	93.4038 %	112.9405 %	124.7278 %	118.3710 %
Concentration RSD	0.5 %	0.6 %	0.4 %	0.3 %	0.7 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432001-09D2 WG1933299
Analysis started at: 6/14/2024 8:53:09 AM
Rack 3
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	118.9050 ppm	0.3583 ppm	0.0134 ppm	0.5452 ppm	0.0043 ppm	23.8409 ppm
Concentration per Run 1	0.0018 ppm	119.2821 ppm	0.3610 ppm	0.0150 ppm	0.5441 ppm	0.0043 ppm	23.9028 ppm
Concentration per Run 2	0.0018 ppm	118.9161 ppm	0.3564 ppm	0.0124 ppm	0.5469 ppm	0.0043 ppm	23.8476 ppm
Concentration per Run 3	0.0023 ppm	118.5168 ppm	0.3575 ppm	0.0129 ppm	0.5448 ppm	0.0043 ppm	23.7724 ppm
Concentration RSD	15.0 %	0.3 %	0.7 %	10.3 %	0.3 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0686 ppm	0.2456 ppm	0.2821 ppm	157.8088 ppm	11.9595 ppm	0.1845 ppm
Concentration per Run 1	0.0033 ppm	0.0690 ppm	0.2478 ppm	0.2869 ppm	157.9022 ppm	12.0008 ppm	0.1859 ppm
Concentration per Run 2	0.0032 ppm	0.0686 ppm	0.2466 ppm	0.2810 ppm	157.9475 ppm	11.9548 ppm	0.1836 ppm
Concentration per Run 3	0.0032 ppm	0.0681 ppm	0.2425 ppm	0.2785 ppm	157.5767 ppm	11.9229 ppm	0.1840 ppm
Concentration RSD	1.0 %	0.6 %	1.1 %	1.5 %	0.1 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.5699 ppm	7.6764 ppm	0.0053 ppm	0.6329 ppm	0.2122 ppm	0.4906 ppm	0.0131 ppm
Concentration per Run 1	36.0494 ppm	7.7063 ppm	0.0056 ppm	0.6347 ppm	0.2136 ppm	0.4933 ppm	0.0148 ppm
Concentration per Run 2	35.5199 ppm	7.6697 ppm	0.0052 ppm	0.6287 ppm	0.2140 ppm	0.4884 ppm	0.0149 ppm
Concentration per Run 3	35.1404 ppm	7.6532 ppm	0.0052 ppm	0.6353 ppm	0.2090 ppm	0.4902 ppm	0.0096 ppm
Concentration RSD	1.3 %	0.4 %	4.6 %	0.6 %	1.3 %	0.5 %	23.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	6.3639 ppm	0.0538 ppm	0.1340 ppm	3.7428 ppm	0.0021 ppm	0.2373 ppm
Concentration per Run 1	0.0007 ppm	6.4478 ppm	0.0531 ppm	0.1340 ppm	3.7870 ppm	0.0009 ppm	0.2397 ppm
Concentration per Run 2	0.0039 ppm	6.3685 ppm	0.0545 ppm	0.1344 ppm	3.7400 ppm	0.0031 ppm	0.2370 ppm
Concentration per Run 3	0.0046 ppm	6.2752 ppm	0.0540 ppm	0.1336 ppm	3.7014 ppm	0.0024 ppm	0.2350 ppm
Concentration RSD	67.6 %	1.4 %	1.3 %	0.3 %	1.1 %	51.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8324 ppm	100.8759 %	109.9039 %	93.6108 %	109.0827 %	121.5870 %	115.2525 %
Concentration per Run 1	0.8392 ppm	99.1974 %	109.7750 %	92.9191 %	108.7029 %	121.9064 %	115.0996 %
Concentration per Run 2	0.8366 ppm	101.0142 %	110.0060 %	93.9689 %	108.9890 %	121.4519 %	115.6321 %
Concentration per Run 3	0.8215 ppm	102.4161 %	109.9307 %	93.9444 %	109.5562 %	121.4027 %	115.0260 %
Concentration RSD	1.1 %	1.6 %	0.1 %	0.6 %	0.4 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432001-11D2 WG1933299
Analysis started at: 6/14/2024 8:57:07 AM
Rack 3
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	89.1540 ppm	0.2407 ppm	0.0090 ppm	0.3390 ppm	0.0032 ppm	22.1168 ppm
Concentration per Run 1	0.0009 ppm	89.2545 ppm	0.2418 ppm	0.0092 ppm	0.3380 ppm	0.0032 ppm	22.1697 ppm
Concentration per Run 2	0.0008 ppm	89.2091 ppm	0.2383 ppm	0.0104 ppm	0.3409 ppm	0.0032 ppm	22.1126 ppm
Concentration per Run 3	0.0006 ppm	88.9984 ppm	0.2419 ppm	0.0074 ppm	0.3380 ppm	0.0031 ppm	22.0682 ppm
Concentration RSD	20.8 %	0.2 %	0.8 %	16.9 %	0.5 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0534 ppm	0.1779 ppm	0.2121 ppm	120.9170 ppm	8.7893 ppm	0.1586 ppm
Concentration per Run 1	0.0019 ppm	0.0547 ppm	0.1802 ppm	0.2164 ppm	120.8753 ppm	8.8147 ppm	0.1599 ppm
Concentration per Run 2	0.0020 ppm	0.0535 ppm	0.1780 ppm	0.2115 ppm	120.7986 ppm	8.8139 ppm	0.1602 ppm
Concentration per Run 3	0.0018 ppm	0.0520 ppm	0.1754 ppm	0.2084 ppm	121.0772 ppm	8.7393 ppm	0.1559 ppm
Concentration RSD	4.9 %	2.5 %	1.4 %	1.9 %	0.1 %	0.5 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.8807 ppm	2.7221 ppm	0.0034 ppm	0.5353 ppm	0.1555 ppm	0.3980 ppm	0.0100 ppm
Concentration per Run 1	27.3974 ppm	2.7248 ppm	0.0030 ppm	0.5425 ppm	0.1572 ppm	0.4012 ppm	0.0108 ppm
Concentration per Run 2	26.8231 ppm	2.7279 ppm	0.0033 ppm	0.5317 ppm	0.1563 ppm	0.3982 ppm	0.0104 ppm
Concentration per Run 3	26.4217 ppm	2.7135 ppm	0.0038 ppm	0.5317 ppm	0.1530 ppm	0.3946 ppm	0.0087 ppm
Concentration RSD	1.8 %	0.3 %	13.0 %	1.2 %	1.4 %	0.8 %	11.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	4.5821 ppm	0.0511 ppm	0.1119 ppm	2.8244 ppm	0.0015 ppm	0.1839 ppm
Concentration per Run 1	0.0004 ppm	4.6634 ppm	0.0508 ppm	0.1119 ppm	2.8689 ppm	0.0024 ppm	0.1868 ppm
Concentration per Run 2	-0.0005 ppm	4.5886 ppm	0.0508 ppm	0.1115 ppm	2.8225 ppm	-0.0006 ppm	0.1836 ppm
Concentration per Run 3	0.0004 ppm	4.4944 ppm	0.0517 ppm	0.1122 ppm	2.7818 ppm	0.0026 ppm	0.1813 ppm
Concentration RSD	483.2 %	1.8 %	1.0 %	0.3 %	1.5 %	121.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5670 ppm	98.8724 %	108.7132 %	94.1730 %	105.6142 %	117.4880 %	111.1659 %
Concentration per Run 1	0.5754 ppm	96.9923 %	108.5151 %	93.7956 %	104.7630 %	117.6061 %	111.4625 %
Concentration per Run 2	0.5678 ppm	98.8877 %	108.8512 %	94.1742 %	106.0141 %	117.6038 %	110.8658 %
Concentration per Run 3	0.5580 ppm	100.7372 %	108.7733 %	94.5492 %	106.0654 %	117.2541 %	111.1694 %
Concentration RSD	1.5 %	1.9 %	0.2 %	0.4 %	0.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432040-01D2 WG1933299
Analysis started at: 6/14/2024 9:01:04 AM
Rack 3
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0079 ppm	87.0935 ppm	0.0448 ppm	0.0140 ppm	0.6900 ppm	0.0034 ppm	25.2829 ppm
Concentration per Run 1	0.0078 ppm	87.3910 ppm	0.0458 ppm	0.0148 ppm	0.6921 ppm	0.0034 ppm	25.3718 ppm
Concentration per Run 2	0.0078 ppm	86.9371 ppm	0.0450 ppm	0.0136 ppm	0.6897 ppm	0.0034 ppm	25.2372 ppm
Concentration per Run 3	0.0079 ppm	86.9523 ppm	0.0437 ppm	0.0135 ppm	0.6881 ppm	0.0035 ppm	25.2398 ppm
Concentration RSD	1.0 %	0.3 %	2.4 %	5.2 %	0.3 %	0.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0073 ppm	0.0500 ppm	0.2779 ppm	8.4490 ppm	176.3387 ppm	3.2623 ppm	0.1045 ppm
Concentration per Run 1	0.0075 ppm	0.0511 ppm	0.2824 ppm	8.5865 ppm	177.1072 ppm	3.3093 ppm	0.1065 ppm
Concentration per Run 2	0.0072 ppm	0.0497 ppm	0.2765 ppm	8.4193 ppm	175.6725 ppm	3.2182 ppm	0.1042 ppm
Concentration per Run 3	0.0072 ppm	0.0493 ppm	0.2747 ppm	8.3412 ppm	176.2363 ppm	3.2593 ppm	0.1029 ppm
Concentration RSD	1.8 %	1.9 %	1.4 %	1.5 %	0.4 %	1.4 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.4799 ppm	2.7960 ppm	0.0046 ppm	0.7586 ppm	0.1479 ppm	2.5043 ppm	0.0176 ppm
Concentration per Run 1	26.9159 ppm	2.8005 ppm	0.0044 ppm	0.7600 ppm	0.1509 ppm	2.5163 ppm	0.0169 ppm
Concentration per Run 2	26.4254 ppm	2.7928 ppm	0.0041 ppm	0.7584 ppm	0.1474 ppm	2.4916 ppm	0.0160 ppm
Concentration per Run 3	26.0986 ppm	2.7946 ppm	0.0053 ppm	0.7572 ppm	0.1455 ppm	2.5051 ppm	0.0199 ppm
Concentration RSD	1.6 %	0.1 %	14.0 %	0.2 %	1.9 %	0.5 %	11.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	4.6046 ppm	0.3113 ppm	0.1655 ppm	2.7536 ppm	0.0010 ppm	0.2358 ppm
Concentration per Run 1	0.0019 ppm	4.6747 ppm	0.3151 ppm	0.1663 ppm	2.7898 ppm	0.0027 ppm	0.2399 ppm
Concentration per Run 2	0.0033 ppm	4.5917 ppm	0.3083 ppm	0.1646 ppm	2.7518 ppm	-0.0009 ppm	0.2350 ppm
Concentration per Run 3	0.0028 ppm	4.5473 ppm	0.3105 ppm	0.1657 ppm	2.7193 ppm	0.0012 ppm	0.2326 ppm
Concentration RSD	26.4 %	1.4 %	1.1 %	0.5 %	1.3 %	188.0 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.4925 ppm	100.6758 %	108.4855 %	94.8889 %	110.7421 %	122.0026 %	115.7831 %
Concentration per Run 1	3.5668 ppm	98.7967 %	107.0209 %	94.8099 %	109.4798 %	120.4502 %	116.3402 %
Concentration per Run 2	3.4578 ppm	101.2595 %	108.7818 %	94.8175 %	111.2961 %	121.9136 %	115.3599 %
Concentration per Run 3	3.4529 ppm	101.9712 %	109.6538 %	95.0392 %	111.4503 %	123.6440 %	115.6492 %
Concentration RSD	1.8 %	1.7 %	1.2 %	0.1 %	1.0 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432040-03D2 WG1933299
Analysis started at: 6/14/2024 9:05:02 AM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	120.8944 ppm	0.0224 ppm	0.0079 ppm	0.4303 ppm	0.0029 ppm	28.4335 ppm
Concentration per Run 1	0.0013 ppm	120.7145 ppm	0.0217 ppm	0.0095 ppm	0.4336 ppm	0.0029 ppm	28.4588 ppm
Concentration per Run 2	0.0010 ppm	120.7530 ppm	0.0217 ppm	0.0073 ppm	0.4283 ppm	0.0029 ppm	28.4475 ppm
Concentration per Run 3	0.0011 ppm	121.2158 ppm	0.0238 ppm	0.0071 ppm	0.4292 ppm	0.0029 ppm	28.3942 ppm
Concentration RSD	16.2 %	0.2 %	5.4 %	16.9 %	0.7 %	1.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0091 ppm	0.0556 ppm	0.1647 ppm	4.8884 ppm	186.3168 ppm	2.5054 ppm	0.1547 ppm
Concentration per Run 1	0.0091 ppm	0.0552 ppm	0.1623 ppm	4.8544 ppm	185.9002 ppm	2.5465 ppm	0.1579 ppm
Concentration per Run 2	0.0090 ppm	0.0553 ppm	0.1639 ppm	4.8306 ppm	185.8009 ppm	2.4729 ppm	0.1522 ppm
Concentration per Run 3	0.0091 ppm	0.0562 ppm	0.1678 ppm	4.9800 ppm	187.2493 ppm	2.4966 ppm	0.1542 ppm
Concentration RSD	0.7 %	1.1 %	1.7 %	1.6 %	0.4 %	1.5 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.2762 ppm	2.5461 ppm	0.0019 ppm	0.7060 ppm	0.1800 ppm	1.2316 ppm	0.0114 ppm
Concentration per Run 1	43.7791 ppm	2.5460 ppm	0.0018 ppm	0.7050 ppm	0.1772 ppm	1.2252 ppm	0.0134 ppm
Concentration per Run 2	44.1152 ppm	2.5396 ppm	0.0022 ppm	0.7094 ppm	0.1774 ppm	1.2367 ppm	0.0084 ppm
Concentration per Run 3	44.9342 ppm	2.5526 ppm	0.0018 ppm	0.7037 ppm	0.1855 ppm	1.2329 ppm	0.0125 ppm
Concentration RSD	1.3 %	0.3 %	12.6 %	0.4 %	2.6 %	0.5 %	23.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	1.7470 ppm	0.0907 ppm	0.1545 ppm	5.3245 ppm	0.0041 ppm	0.2999 ppm
Concentration per Run 1	-0.0006 ppm	1.7394 ppm	0.0875 ppm	0.1535 ppm	5.2668 ppm	0.0048 ppm	0.2958 ppm
Concentration per Run 2	-0.0036 ppm	1.7410 ppm	0.0911 ppm	0.1544 ppm	5.2622 ppm	0.0021 ppm	0.2965 ppm
Concentration per Run 3	-0.0023 ppm	1.7605 ppm	0.0936 ppm	0.1556 ppm	5.4443 ppm	0.0053 ppm	0.3076 ppm
Concentration RSD	71.1 %	0.7 %	3.4 %	0.7 %	1.9 %	42.0 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2017 ppm	107.8478 %	110.7171 %	93.6290 %	117.7415 %	126.0479 %	118.2953 %
Concentration per Run 1	3.1779 ppm	108.6431 %	110.7622 %	94.2449 %	120.7841 %	125.6643 %	118.7525 %
Concentration per Run 2	3.1564 ppm	107.3984 %	110.7903 %	93.4964 %	117.3431 %	126.4057 %	118.3775 %
Concentration per Run 3	3.2706 ppm	107.5019 %	110.5987 %	93.1457 %	115.0973 %	126.0737 %	117.7559 %
Concentration RSD	1.9 %	0.6 %	0.1 %	0.6 %	2.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432084-01D2 WG1933299
Analysis started at: 6/14/2024 9:08:59 AM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	23.6002 ppm	0.0136 ppm	0.0027 ppm	0.1141 ppm	0.0007 ppm	2.0980 ppm
Concentration per Run 1	0.0010 ppm	23.9723 ppm	0.0132 ppm	0.0018 ppm	0.1156 ppm	0.0008 ppm	2.1240 ppm
Concentration per Run 2	0.0012 ppm	23.5370 ppm	0.0123 ppm	0.0027 ppm	0.1139 ppm	0.0007 ppm	2.0999 ppm
Concentration per Run 3	0.0007 ppm	23.2913 ppm	0.0153 ppm	0.0036 ppm	0.1127 ppm	0.0007 ppm	2.0700 ppm
Concentration RSD	27.1 %	1.5 %	11.2 %	33.4 %	1.3 %	7.3 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0051 ppm	0.0223 ppm	0.0345 ppm	15.0984 ppm	1.9862 ppm	0.0188 ppm
Concentration per Run 1	0.0003 ppm	0.0054 ppm	0.0223 ppm	0.0352 ppm	15.2742 ppm	2.0302 ppm	0.0215 ppm
Concentration per Run 2	0.0003 ppm	0.0050 ppm	0.0227 ppm	0.0342 ppm	15.1021 ppm	1.9698 ppm	0.0179 ppm
Concentration per Run 3	0.0003 ppm	0.0049 ppm	0.0219 ppm	0.0341 ppm	14.9190 ppm	1.9585 ppm	0.0172 ppm
Concentration RSD	11.6 %	5.9 %	1.7 %	1.7 %	1.2 %	1.9 %	12.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.8354 ppm	0.2770 ppm	0.0017 ppm	0.1744 ppm	0.0165 ppm	0.0998 ppm	0.0015 ppm
Concentration per Run 1	1.8559 ppm	0.2804 ppm	0.0018 ppm	0.1760 ppm	0.0160 ppm	0.1006 ppm	0.0006 ppm
Concentration per Run 2	1.8328 ppm	0.2769 ppm	0.0016 ppm	0.1799 ppm	0.0167 ppm	0.0996 ppm	0.0023 ppm
Concentration per Run 3	1.8173 ppm	0.2739 ppm	0.0017 ppm	0.1672 ppm	0.0167 ppm	0.0991 ppm	0.0018 ppm
Concentration RSD	1.1 %	1.2 %	4.7 %	3.7 %	2.6 %	0.8 %	58.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	3.3501 ppm	0.0050 ppm	0.0250 ppm	0.5787 ppm	0.0003 ppm	0.0377 ppm
Concentration per Run 1	0.0032 ppm	3.3970 ppm	0.0045 ppm	0.0255 ppm	0.5840 ppm	0.0012 ppm	0.0383 ppm
Concentration per Run 2	0.0007 ppm	3.3495 ppm	0.0049 ppm	0.0248 ppm	0.5794 ppm	0.0001 ppm	0.0375 ppm
Concentration per Run 3	0.0035 ppm	3.3038 ppm	0.0055 ppm	0.0246 ppm	0.5729 ppm	-0.0003 ppm	0.0374 ppm
Concentration RSD	61.4 %	1.4 %	9.5 %	1.9 %	1.0 %	238.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1048 ppm	99.1594 %	107.1949 %	100.0448 %	101.8023 %	109.4508 %	105.3934 %
Concentration per Run 1	0.1058 ppm	97.9414 %	105.0851 %	99.4393 %	102.1656 %	107.9555 %	105.6236 %
Concentration per Run 2	0.1046 ppm	99.3640 %	107.3515 %	99.8033 %	101.7083 %	109.6875 %	104.9775 %
Concentration per Run 3	0.1039 ppm	100.1729 %	109.1482 %	100.8917 %	101.5329 %	110.7095 %	105.5789 %
Concentration RSD	0.9 %	1.1 %	1.9 %	0.8 %	0.3 %	1.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432084-03D2 WG1933299
Analysis started at: 6/14/2024 9:12:57 AM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	104.0570 ppm	0.0667 ppm	0.0031 ppm	0.2143 ppm	0.0033 ppm	3.6350 ppm
Concentration per Run 1	-0.0004 ppm	104.3369 ppm	0.0672 ppm	0.0037 ppm	0.2152 ppm	0.0032 ppm	3.6395 ppm
Concentration per Run 2	0.0002 ppm	104.1189 ppm	0.0679 ppm	0.0019 ppm	0.2138 ppm	0.0032 ppm	3.6318 ppm
Concentration per Run 3	-0.0004 ppm	103.7151 ppm	0.0651 ppm	0.0038 ppm	0.2138 ppm	0.0033 ppm	3.6337 ppm
Concentration RSD	202.3 %	0.3 %	2.2 %	34.9 %	0.4 %	1.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0491 ppm	0.1361 ppm	0.0884 ppm	173.1947 ppm	2.9728 ppm	0.1606 ppm
Concentration per Run 1	0.0006 ppm	0.0498 ppm	0.1381 ppm	0.0894 ppm	174.0479 ppm	2.9799 ppm	0.1627 ppm
Concentration per Run 2	0.0008 ppm	0.0495 ppm	0.1359 ppm	0.0891 ppm	172.6603 ppm	2.9603 ppm	0.1590 ppm
Concentration per Run 3	0.0007 ppm	0.0478 ppm	0.1343 ppm	0.0866 ppm	172.8759 ppm	2.9782 ppm	0.1601 ppm
Concentration RSD	14.1 %	2.2 %	1.4 %	1.7 %	0.4 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.6166 ppm	2.3863 ppm	0.0071 ppm	0.1741 ppm	0.1033 ppm	0.5267 ppm	0.0040 ppm
Concentration per Run 1	25.0384 ppm	2.3923 ppm	0.0075 ppm	0.1779 ppm	0.1046 ppm	0.5301 ppm	0.0054 ppm
Concentration per Run 2	24.5438 ppm	2.3846 ppm	0.0069 ppm	0.1738 ppm	0.1031 ppm	0.5280 ppm	0.0050 ppm
Concentration per Run 3	24.2674 ppm	2.3819 ppm	0.0069 ppm	0.1704 ppm	0.1021 ppm	0.5220 ppm	0.0017 ppm
Concentration RSD	1.6 %	0.2 %	4.8 %	2.2 %	1.2 %	0.8 %	50.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	4.3655 ppm	0.0079 ppm	0.0493 ppm	3.3547 ppm	0.0013 ppm	0.1720 ppm
Concentration per Run 1	0.0037 ppm	4.4356 ppm	0.0081 ppm	0.0495 ppm	3.4017 ppm	0.0005 ppm	0.1742 ppm
Concentration per Run 2	0.0005 ppm	4.3696 ppm	0.0082 ppm	0.0491 ppm	3.3459 ppm	0.0017 ppm	0.1717 ppm
Concentration per Run 3	0.0024 ppm	4.2914 ppm	0.0075 ppm	0.0494 ppm	3.3166 ppm	0.0016 ppm	0.1701 ppm
Concentration RSD	72.8 %	1.7 %	4.6 %	0.4 %	1.3 %	54.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3770 ppm	101.4036 %	109.5171 %	95.4001 %	109.7215 %	120.6978 %	115.4047 %
Concentration per Run 1	0.3823 ppm	99.7824 %	109.1605 %	94.9998 %	108.9826 %	120.2472 %	115.7171 %
Concentration per Run 2	0.3763 ppm	101.3441 %	109.7172 %	95.5268 %	109.9301 %	120.9482 %	115.4504 %
Concentration per Run 3	0.3722 ppm	103.0844 %	109.6735 %	95.6737 %	110.2518 %	120.8979 %	115.0464 %
Concentration RSD	1.3 %	1.6 %	0.3 %	0.4 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: xL2432084-05D2 WG1933299
Analysis started at: 6/14/2024 9:16:55 AM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	10.7524 ppm	0.0128 ppm	0.0016 ppm	0.0223 ppm	0.0007 ppm	0.5067 ppm
Concentration per Run 1	-0.0011 ppm	13.1473 ppm	0.0159 ppm	0.0031 ppm	0.0279 ppm	0.0008 ppm	0.6342 ppm
Concentration per Run 2	-0.0007 ppm	10.6340 ppm	0.0130 ppm	0.0017 ppm	0.0223 ppm	0.0008 ppm	0.5072 ppm
Concentration per Run 3	0.0000 ppm	8.4760 ppm	0.0094 ppm	0.0002 ppm	0.0167 ppm	0.0005 ppm	0.3787 ppm
Concentration RSD	88.6 %	21.7 %	25.6 %	86.7 %	25.0 %	20.2 %	25.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0473 ppm	0.0760 ppm	0.0727 ppm	16.8056 ppm	0.1901 ppm	0.0126 ppm
Concentration per Run 1	0.0020 ppm	0.0634 ppm	0.1006 ppm	0.0986 ppm	20.8332 ppm	0.2467 ppm	0.0162 ppm
Concentration per Run 2	0.0017 ppm	0.0510 ppm	0.0827 ppm	0.0789 ppm	16.7237 ppm	0.1932 ppm	0.0124 ppm
Concentration per Run 3	0.0010 ppm	0.0274 ppm	0.0446 ppm	0.0406 ppm	12.8598 ppm	0.1304 ppm	0.0092 ppm
Concentration RSD	34.3 %	38.7 %	37.6 %	40.5 %	23.7 %	30.6 %	28.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.4955 ppm	0.2250 ppm	0.0025 ppm	-0.0193 ppm	0.0802 ppm	0.0468 ppm	0.0046 ppm
Concentration per Run 1	16.4256 ppm	0.2813 ppm	0.0036 ppm	-0.0151 ppm	0.1058 ppm	0.0611 ppm	0.0046 ppm
Concentration per Run 2	13.5065 ppm	0.2254 ppm	0.0026 ppm	-0.0203 ppm	0.0874 ppm	0.0450 ppm	0.0056 ppm
Concentration per Run 3	7.5544 ppm	0.1681 ppm	0.0012 ppm	-0.0225 ppm	0.0473 ppm	0.0344 ppm	0.0035 ppm
Concentration RSD	36.2 %	25.2 %	48.4 %	19.7 %	37.3 %	28.7 %	22.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	4.6830 ppm	0.0052 ppm	0.0048 ppm	2.7588 ppm	0.0044 ppm	0.1343 ppm
Concentration per Run 1	0.0025 ppm	6.4275 ppm	0.0066 ppm	0.0060 ppm	3.6487 ppm	0.0046 ppm	0.1781 ppm
Concentration per Run 2	0.0020 ppm	5.0544 ppm	0.0059 ppm	0.0049 ppm	3.0028 ppm	0.0050 ppm	0.1467 ppm
Concentration per Run 3	0.0012 ppm	2.5669 ppm	0.0030 ppm	0.0037 ppm	1.6248 ppm	0.0037 ppm	0.0781 ppm
Concentration RSD	34.0 %	41.8 %	37.4 %	23.9 %	37.5 %	15.3 %	38.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2843 ppm	150.1558 %	275.3767 %	276.4139 %	166.0017 %	320.5636 %	334.0486 %
Concentration per Run 1	0.3758 ppm	113.1342 %	280.8465 %	250.2636 %	127.8680 %	316.1008 %	303.3372 %
Concentration per Run 2	0.3064 ppm	136.5213 %	265.8799 %	274.9915 %	146.6267 %	308.5507 %	332.3873 %
Concentration per Run 3	0.1706 ppm	200.8118 %	279.4037 %	303.9866 %	223.5105 %	337.0395 %	366.4213 %
Concentration RSD	36.7 %	30.2 %	3.0 %	9.7 %	30.5 %	4.6 %	9.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: xL2432084-07D2 WG1933299
Analysis started at: 6/14/2024 9:20:52 AM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0082 ppm	0.0019 ppm	-0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 1	0.0002 ppm	0.0124 ppm	0.0019 ppm	-0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 2	0.0000 ppm	0.0045 ppm	0.0016 ppm	-0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 3	-0.0001 ppm	0.0076 ppm	0.0022 ppm	-0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Concentration RSD	562.1 %	48.3 %	13.8 %	21.6 %	79.5 %	41.3 %	10.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0002 ppm	-0.0021 ppm	0.0045 ppm	-0.0241 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0003 ppm	-0.0019 ppm	0.0042 ppm	-0.0215 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0001 ppm	-0.0021 ppm	0.0048 ppm	-0.0252 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0003 ppm	-0.0022 ppm	0.0045 ppm	-0.0256 ppm	-0.0002 ppm
Concentration RSD	6,308.5 %	14.5 %	55.6 %	7.8 %	6.9 %	9.3 %	66.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0011 ppm	0.0004 ppm	0.0000 ppm	-0.0420 ppm	-0.0009 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 1	0.0016 ppm	0.0004 ppm	0.0000 ppm	-0.0447 ppm	-0.0012 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 2	0.0007 ppm	0.0004 ppm	-0.0002 ppm	-0.0406 ppm	-0.0009 ppm	-0.0015 ppm	-0.0013 ppm
Concentration per Run 3	0.0011 ppm	0.0005 ppm	0.0000 ppm	-0.0406 ppm	-0.0005 ppm	-0.0011 ppm	0.0003 ppm
Concentration RSD	37.8 %	9.5 %	282.3 %	5.6 %	35.4 %	16.9 %	614.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0072 ppm	-0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0015 ppm	-0.0054 ppm	-0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0015 ppm	-0.0082 ppm	-0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	-0.0081 ppm	-0.0005 ppm	-0.0001 ppm	0.0008 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	40.7 %	21.9 %	5.3 %	177.7 %	6.4 %	32.7 %	137.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	318.5262 %	307.5200 %	440.6686 %	464.4514 %	405.9958 %	567.9749 %
Concentration per Run 1	-0.0001 ppm	309.5176 %	315.1847 %	385.0159 %	462.5000 %	401.6114 %	543.0498 %
Concentration per Run 2	-0.0001 ppm	302.6853 %	292.5675 %	418.9153 %	433.1181 %	390.6278 %	580.5002 %
Concentration per Run 3	-0.0001 ppm	343.3758 %	314.8079 %	518.0746 %	497.7362 %	425.7481 %	580.3749 %
Concentration RSD	19.8 %	6.8 %	4.2 %	15.7 %	7.0 %	4.4 %	3.8 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431992-01D10 WG1933920
Analysis started at: 6/14/2024 9:24:50 AM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0047 ppm	0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.1421 ppm
Concentration per Run 1	0.0002 ppm	-0.0052 ppm	0.0003 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.1416 ppm
Concentration per Run 2	-0.0001 ppm	-0.0045 ppm	0.0015 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.1410 ppm
Concentration per Run 3	0.0000 ppm	-0.0045 ppm	0.0013 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.1436 ppm
Concentration RSD	1,397.4 %	8.6 %	60.7 %	243.1 %	156.2 %	346.7 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0084 ppm	0.0034 ppm	21.6361 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0087 ppm	0.0025 ppm	21.7118 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0085 ppm	0.0033 ppm	21.5796 ppm	0.0013 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0079 ppm	0.0046 ppm	21.6170 ppm	-0.0004 ppm
Concentration RSD	34.2 %	43.8 %	57.3 %	4.9 %	30.8 %	0.3 %	22,493.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0057 ppm	0.0002 ppm	0.0002 ppm	301.5960 ppm	-0.0002 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 1	0.0060 ppm	0.0001 ppm	0.0007 ppm	302.4555 ppm	-0.0003 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 2	0.0053 ppm	0.0001 ppm	-0.0003 ppm	301.7794 ppm	-0.0002 ppm	0.0010 ppm	0.0022 ppm
Concentration per Run 3	0.0058 ppm	0.0003 ppm	0.0001 ppm	300.5531 ppm	-0.0001 ppm	-0.0005 ppm	0.0021 ppm
Concentration RSD	6.4 %	49.0 %	271.2 %	0.3 %	61.8 %	340.1 %	40.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.0057 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	-0.0010 ppm	0.0009 ppm
Concentration per Run 1	0.0015 ppm	0.0068 ppm	0.0012 ppm	0.0003 ppm	-0.0001 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 2	-0.0003 ppm	0.0041 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	-0.0019 ppm	0.0009 ppm
Concentration per Run 3	0.0022 ppm	0.0062 ppm	0.0005 ppm	0.0006 ppm	0.0003 ppm	-0.0008 ppm	0.0009 ppm
Concentration RSD	113.9 %	25.0 %	72.1 %	45.0 %	173.0 %	86.4 %	4.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	91.0511 %	101.5806 %	90.0897 %	88.4779 %	99.2158 %	93.2690 %
Concentration per Run 1	0.0009 ppm	88.9776 %	101.2510 %	89.7685 %	87.4468 %	99.4730 %	93.4001 %
Concentration per Run 2	0.0006 ppm	91.0364 %	101.5902 %	89.9706 %	88.6268 %	99.0011 %	93.1676 %
Concentration per Run 3	0.0009 ppm	93.1392 %	101.9006 %	90.5300 %	89.3600 %	99.1731 %	93.2394 %
Concentration RSD	22.6 %	2.3 %	0.3 %	0.4 %	1.1 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 9:28:48 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5002 ppm	0.4790 ppm	0.4681 ppm	0.4979 ppm	0.4980 ppm	0.5004 ppm	0.4907 ppm
Concentration per Run 1	0.5067 ppm	0.4767 ppm	0.4679 ppm	0.5031 ppm	0.4978 ppm	0.5017 ppm	0.4927 ppm
Concentration per Run 2	0.5007 ppm	0.4798 ppm	0.4686 ppm	0.4998 ppm	0.4984 ppm	0.4997 ppm	0.4902 ppm
Concentration per Run 3	0.4930 ppm	0.4805 ppm	0.4677 ppm	0.4907 ppm	0.4978 ppm	0.4998 ppm	0.4893 ppm
Recovery Percentage 1	100.031 %	95.804 %	93.613 %	99.574 %	99.602 %	100.081 %	98.141 %
Concentration RSD	1.4 %	0.4 %	0.1 %	1.3 %	0.1 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4982 ppm	0.5085 ppm	0.4901 ppm	0.4952 ppm	0.5055 ppm	5.0778 ppm	0.4836 ppm
Concentration per Run 1	0.5071 ppm	0.5183 ppm	0.4983 ppm	0.5037 ppm	0.5080 ppm	5.0955 ppm	0.4842 ppm
Concentration per Run 2	0.4981 ppm	0.5073 ppm	0.4887 ppm	0.4950 ppm	0.5046 ppm	5.0786 ppm	0.4826 ppm
Concentration per Run 3	0.4892 ppm	0.4997 ppm	0.4832 ppm	0.4869 ppm	0.5040 ppm	5.0593 ppm	0.4840 ppm
Recovery Percentage 1	99.631 %	101.691 %	98.017 %	99.041 %	101.106 %	101.555 %	96.717 %
Concentration RSD	1.8 %	1.8 %	1.6 %	1.7 %	0.4 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4982 ppm	0.4879 ppm	0.4908 ppm	10.0440 ppm	0.5086 ppm	0.4870 ppm	0.4904 ppm
Concentration per Run 1	0.5083 ppm	0.4888 ppm	0.4921 ppm	10.0492 ppm	0.5154 ppm	0.4892 ppm	0.5033 ppm
Concentration per Run 2	0.4970 ppm	0.4881 ppm	0.4929 ppm	10.0450 ppm	0.5084 ppm	0.4862 ppm	0.4881 ppm
Concentration per Run 3	0.4894 ppm	0.4867 ppm	0.4874 ppm	10.0378 ppm	0.5020 ppm	0.4857 ppm	0.4798 ppm
Recovery Percentage 1	99.643 %	97.578 %	98.164 %	100.440 %	101.717 %	97.407 %	98.074 %
Concentration RSD	1.9 %	0.2 %	0.6 %	0.1 %	1.3 %	0.4 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4772 ppm	5.1313 ppm	0.5171 ppm	0.5017 ppm	0.4999 ppm	0.4875 ppm	0.4928 ppm
Concentration per Run 1	0.4772 ppm	5.1962 ppm	0.5210 ppm	0.5024 ppm	0.5093 ppm	0.4902 ppm	0.5011 ppm
Concentration per Run 2	0.4803 ppm	5.1249 ppm	0.5150 ppm	0.5020 ppm	0.4991 ppm	0.4874 ppm	0.4934 ppm
Concentration per Run 3	0.4740 ppm	5.0727 ppm	0.5154 ppm	0.5007 ppm	0.4914 ppm	0.4849 ppm	0.4839 ppm
Recovery Percentage 1	95.435 %	97.738 %	103.425 %	100.343 %	99.987 %	97.499 %	98.564 %
Concentration RSD	0.7 %	1.2 %	0.6 %	0.2 %	1.8 %	0.5 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5041 ppm	99.5009 %	105.0124 %	101.5647 %	95.8296 %	101.3015 %	99.1724 %
Concentration per Run 1	0.5143 ppm	97.5868 %	104.4749 %	101.4145 %	95.2142 %	101.1263 %	99.5393 %
Concentration per Run 2	0.5020 ppm	99.7220 %	105.1864 %	101.5499 %	96.0493 %	101.5714 %	99.1248 %
Concentration per Run 3	0.4959 ppm	101.1939 %	105.3760 %	101.7298 %	96.2254 %	101.2068 %	98.8533 %
Recovery Percentage 1	100.822 %						
Concentration RSD	1.9 %	1.8 %	0.5 %	0.2 %	0.6 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 9:32:44 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0105 ppm	0.0018 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0108 ppm
Concentration per Run 1	-0.0002 ppm	-0.0181 ppm	0.0030 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 2	-0.0002 ppm	-0.0080 ppm	0.0017 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0136 ppm
Concentration per Run 3	-0.0003 ppm	-0.0055 ppm	0.0006 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0099 ppm
Recovery Percentage 1	-3.383 %	-10.504 %	59.531 %	3.273 %	1.651 %	0.410 %	10.758 %
Concentration RSD	34.8 %	63.5 %	66.1 %	142.4 %	29.7 %	75.3 %	23.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0005 ppm	0.0064 ppm	0.0263 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0075 ppm	0.0320 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0059 ppm	0.0451 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0007 ppm	0.0057 ppm	0.0020 ppm	-0.0010 ppm
Recovery Percentage 1	-0.892 %	2.390 %	-1.295 %	5.273 %	12.740 %	1.054 %	-6.503 %
Concentration RSD	39.4 %	49.3 %	64.4 %	46.0 %	14.8 %	83.9 %	126.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0002 ppm	0.0017 ppm	-0.0033 ppm	-0.0005 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.0007 ppm	0.0004 ppm	0.0015 ppm	-0.0066 ppm	-0.0012 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0021 ppm	-0.0022 ppm	0.0004 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	0.0016 ppm	-0.0011 ppm	-0.0008 ppm	0.0000 ppm	0.0021 ppm
Recovery Percentage 1	0.819 %	1.988 %	3.463 %	-0.165 %	-2.129 %	3.079 %	1.889 %
Concentration RSD	25.9 %	68.3 %	17.5 %	88.1 %	158.4 %	145.3 %	109.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	-0.0064 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	-0.0036 ppm	0.0013 ppm	0.0001 ppm	0.0006 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0077 ppm	0.0006 ppm	0.0002 ppm	-0.0002 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0078 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	2.960 %	-1.274 %	2.073 %	1.638 %	1.453 %	-6.442 %	0.180 %
Concentration RSD	157.0 %	37.7 %	34.7 %	13.4 %	265.1 %	57.7 %	171.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	94.9257 %	98.9542 %	98.4328 %	97.5283 %	100.6781 %	100.2266 %
Concentration per Run 1	0.0013 ppm	93.3382 %	98.3593 %	97.3013 %	97.1808 %	100.4538 %	99.9004 %
Concentration per Run 2	0.0010 ppm	95.1793 %	99.2115 %	98.6413 %	97.8092 %	100.9984 %	100.2486 %
Concentration per Run 3	0.0012 ppm	96.2595 %	99.2918 %	99.3557 %	97.5949 %	100.5819 %	100.5309 %
Recovery Percentage 1	23.167 %						
Concentration RSD	10.4 %	1.6 %	0.5 %	1.1 %	0.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933322-1 WG1933322
Analysis started at: 6/14/2024 9:40:20 AM
Rack 1
Vial 10
Comment rr Fe

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0072 ppm	0.0011 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 1	-0.0006 ppm	-0.0075 ppm	0.0004 ppm	-0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0077 ppm	0.0017 ppm	0.0014 ppm	0.0000 ppm	-0.0001 ppm	0.0078 ppm
Concentration per Run 3	-0.0001 ppm	-0.0064 ppm	0.0013 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0067 ppm
Recovery Percentage 1	-3.108 %	-7.165 %	36.637 %	-1.238 %	0.961 %	-1.067 %	6.301 %
Concentration RSD	140.3 %	9.9 %	61.1 %	444.5 %	127.1 %	29.7 %	27.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0140 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0022 ppm	0.0068 ppm	-0.0021 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0003 ppm	0.0032 ppm	0.0274 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm	0.0079 ppm	0.0000 ppm
Recovery Percentage 1	-0.751 %	2.766 %	-0.863 %	3.033 %	3.006 %	0.562 %	-12.484 %
Concentration RSD	100.3 %	41.0 %	112.0 %	53.9 %	140.9 %	82.4 %	91.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	-0.0001 ppm	0.0003 ppm	-0.0197 ppm	0.0001 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0020 ppm	-0.0002 ppm	-0.0002 ppm	-0.0135 ppm	0.0007 ppm	-0.0013 ppm	-0.0008 ppm
Concentration per Run 2	-0.0014 ppm	0.0000 ppm	0.0007 ppm	-0.0265 ppm	-0.0003 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0191 ppm	-0.0002 ppm	-0.0004 ppm	0.0003 ppm
Recovery Percentage 1	-1.031 %	-0.711 %	0.588 %	-0.984 %	0.234 %	-6.343 %	0.374 %
Concentration RSD	118.4 %	200.3 %	157.7 %	33.1 %	893.3 %	87.9 %	500.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	-0.0052 ppm	0.0012 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0019 ppm	-0.0080 ppm	0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0013 ppm	-0.0069 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0021 ppm	-0.0008 ppm	0.0019 ppm	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-17.646 %	-1.044 %	2.368 %	1.138 %	-1.643 %	1.596 %	-0.904 %
Concentration RSD	21.9 %	73.6 %	53.9 %	38.0 %	81.8 %	264.8 %	187.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.9003 %	96.5472 %	97.5356 %	100.4219 %	102.5365 %	103.1020 %
Concentration per Run 1	0.0003 ppm	92.2630 %	96.4931 %	96.3916 %	99.4445 %	102.5915 %	102.6065 %
Concentration per Run 2	0.0004 ppm	94.0848 %	95.6176 %	97.6257 %	100.7636 %	101.8459 %	103.5150 %
Concentration per Run 3	0.0004 ppm	95.3531 %	97.5310 %	98.5894 %	101.0577 %	103.1720 %	103.1846 %
Recovery Percentage 1	7.620 %						
Concentration RSD	17.3 %	1.7 %	1.0 %	1.1 %	0.9 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933322-2 WG1933322
Analysis started at: 6/14/2024 9:44:32 AM
Rack 1
Vial 11
Comment rr Fe

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	1.9850 ppm	0.1169 ppm	1.0281 ppm	2.0202 ppm	0.0506 ppm	10.2618 ppm
Concentration per Run 1	0.0522 ppm	2.0142 ppm	0.1246 ppm	1.0430 ppm	2.0586 ppm	0.0516 ppm	10.4159 ppm
Concentration per Run 2	0.0516 ppm	1.9738 ppm	0.1205 ppm	1.0273 ppm	1.9973 ppm	0.0505 ppm	10.2345 ppm
Concentration per Run 3	0.0514 ppm	1.9671 ppm	0.1055 ppm	1.0140 ppm	2.0047 ppm	0.0499 ppm	10.1351 ppm
Concentration RSD	0.9 %	1.3 %	8.6 %	1.4 %	1.7 %	1.7 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0549 ppm	0.5093 ppm	0.2007 ppm	0.2580 ppm	1.0170 ppm	10.5134 ppm	0.0001 ppm
Concentration per Run 1	0.0556 ppm	0.5200 ppm	0.2032 ppm	0.2630 ppm	1.0372 ppm	10.7352 ppm	0.0003 ppm
Concentration per Run 2	0.0549 ppm	0.5091 ppm	0.2009 ppm	0.2566 ppm	1.0145 ppm	10.4587 ppm	0.0003 ppm
Concentration per Run 3	0.0543 ppm	0.4989 ppm	0.1980 ppm	0.2543 ppm	0.9993 ppm	10.3462 ppm	-0.0003 ppm
Concentration RSD	1.2 %	2.1 %	1.3 %	1.8 %	1.9 %	1.9 %	395.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4225 ppm	0.5024 ppm	0.9606 ppm	10.5609 ppm	0.5137 ppm	0.5183 ppm	0.4327 ppm
Concentration per Run 1	10.6158 ppm	0.5105 ppm	0.9554 ppm	10.7153 ppm	0.5200 ppm	0.5461 ppm	0.4284 ppm
Concentration per Run 2	10.4081 ppm	0.4996 ppm	0.9599 ppm	10.5495 ppm	0.5136 ppm	0.5412 ppm	0.4377 ppm
Concentration per Run 3	10.2437 ppm	0.4972 ppm	0.9665 ppm	10.4179 ppm	0.5075 ppm	0.4676 ppm	0.4321 ppm
Concentration RSD	1.8 %	1.4 %	0.6 %	1.4 %	1.2 %	8.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1191 ppm	0.9562 ppm	0.9379 ppm	1.0111 ppm	1.0438 ppm	0.1185 ppm	0.5152 ppm
Concentration per Run 1	0.1283 ppm	0.9752 ppm	0.9279 ppm	1.0315 ppm	1.0599 ppm	0.1240 ppm	0.5242 ppm
Concentration per Run 2	0.1224 ppm	0.9521 ppm	0.9364 ppm	1.0068 ppm	1.0428 ppm	0.1247 ppm	0.5142 ppm
Concentration per Run 3	0.1066 ppm	0.9413 ppm	0.9494 ppm	0.9950 ppm	1.0287 ppm	0.1067 ppm	0.5073 ppm
Concentration RSD	9.4 %	1.8 %	1.2 %	1.8 %	1.5 %	8.6 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5163 ppm	93.4792 %	99.7582 %	98.8509 %	96.9672 %	101.3991 %	104.0369 %
Concentration per Run 1	0.5225 ppm	92.2065 %	98.0107 %	94.2068 %	97.2880 %	99.8206 %	100.6139 %
Concentration per Run 2	0.5155 ppm	93.4466 %	99.9284 %	94.3074 %	96.9693 %	101.8107 %	99.3754 %
Concentration per Run 3	0.5109 ppm	94.7845 %	101.3354 %	108.0385 %	96.6444 %	102.5659 %	112.1214 %
Concentration RSD	1.1 %	1.4 %	1.7 %	8.0 %	0.3 %	1.4 %	6.8 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431895-03 WG1933322
Analysis started at: 6/14/2024 9:48:30 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0179 ppm	0.0209 ppm	1.0581 ppm	0.0899 ppm	0.0001 ppm	67.4100 ppm
Concentration per Run 1	-0.0004 ppm	0.0138 ppm	0.0200 ppm	1.0796 ppm	0.0909 ppm	0.0001 ppm	68.0469 ppm
Concentration per Run 2	0.0004 ppm	0.0223 ppm	0.0199 ppm	1.0583 ppm	0.0893 ppm	0.0001 ppm	67.2639 ppm
Concentration per Run 3	0.0002 ppm	0.0175 ppm	0.0228 ppm	1.0364 ppm	0.0897 ppm	0.0001 ppm	66.9193 ppm
Concentration RSD	1,095.8 %	23.7 %	7.7 %	2.0 %	0.9 %	27.4 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0067 ppm	0.0022 ppm	0.0029 ppm	14.0242 ppm	46.0507 ppm	0.0113 ppm
Concentration per Run 1	0.0001 ppm	0.0074 ppm	0.0023 ppm	0.0030 ppm	14.1072 ppm	46.6476 ppm	0.0130 ppm
Concentration per Run 2	0.0000 ppm	0.0062 ppm	0.0023 ppm	0.0028 ppm	13.9749 ppm	45.6515 ppm	0.0120 ppm
Concentration per Run 3	0.0000 ppm	0.0064 ppm	0.0021 ppm	0.0029 ppm	13.9906 ppm	45.8531 ppm	0.0091 ppm
Concentration RSD	60.6 %	9.6 %	4.0 %	3.4 %	0.5 %	1.1 %	17.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.3219 ppm	2.2945 ppm	0.0040 ppm	175.4352 ppm	0.0121 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 1	20.7954 ppm	2.3176 ppm	0.0042 ppm	176.7212 ppm	0.0128 ppm	-0.0006 ppm	0.0113 ppm
Concentration per Run 2	20.2725 ppm	2.2872 ppm	0.0045 ppm	175.3600 ppm	0.0123 ppm	0.0007 ppm	0.0082 ppm
Concentration per Run 3	19.8978 ppm	2.2787 ppm	0.0032 ppm	174.2243 ppm	0.0113 ppm	-0.0002 ppm	0.0157 ppm
Concentration RSD	2.2 %	0.9 %	17.7 %	0.7 %	6.4 %	3,178.6 %	32.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	9.5904 ppm	0.0020 ppm	0.4516 ppm	0.0021 ppm	-0.0011 ppm	0.0012 ppm
Concentration per Run 1	-0.0022 ppm	9.7754 ppm	0.0021 ppm	0.4536 ppm	0.0021 ppm	-0.0018 ppm	0.0012 ppm
Concentration per Run 2	-0.0006 ppm	9.5813 ppm	0.0017 ppm	0.4501 ppm	0.0021 ppm	-0.0010 ppm	0.0012 ppm
Concentration per Run 3	-0.0028 ppm	9.4146 ppm	0.0020 ppm	0.4513 ppm	0.0022 ppm	-0.0004 ppm	0.0011 ppm
Concentration RSD	59.8 %	1.9 %	10.1 %	0.4 %	5.2 %	66.0 %	7.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0080 ppm	89.4574 %	101.9161 %	88.2911 %	92.8493 %	103.7619 %	96.4956 %
Concentration per Run 1	0.0083 ppm	87.4800 %	101.2139 %	87.2566 %	91.9418 %	103.5937 %	96.6524 %
Concentration per Run 2	0.0080 ppm	89.5490 %	102.1360 %	88.8476 %	93.1350 %	104.2333 %	96.7923 %
Concentration per Run 3	0.0078 ppm	91.3433 %	102.3982 %	88.7693 %	93.4711 %	103.4587 %	96.0422 %
Concentration RSD	2.8 %	2.2 %	0.6 %	1.0 %	0.9 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431895-01 WG1933322
Analysis started at: 6/14/2024 9:52:25 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.1168 ppm	0.0857 ppm	12.1687 ppm	0.1909 ppm	0.0000 ppm	51.8201 ppm
Concentration per Run 1	0.0005 ppm	0.1178 ppm	0.0860 ppm	12.4630 ppm	0.1914 ppm	0.0000 ppm	52.0083 ppm
Concentration per Run 2	0.0008 ppm	0.1171 ppm	0.0864 ppm	12.1090 ppm	0.1912 ppm	0.0000 ppm	51.8693 ppm
Concentration per Run 3	0.0005 ppm	0.1154 ppm	0.0846 ppm	11.9340 ppm	0.1901 ppm	0.0000 ppm	51.5828 ppm
Concentration RSD	28.5 %	1.1 %	1.1 %	2.2 %	0.4 %	56.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0190 ppm	0.1072 ppm	0.0025 ppm	9.9303 ppm	319.5851 ppm	0.0649 ppm
Concentration per Run 1	0.0001 ppm	0.0192 ppm	0.1097 ppm	0.0027 ppm	9.9347 ppm	318.5615 ppm	0.0646 ppm
Concentration per Run 2	-0.0001 ppm	0.0195 ppm	0.1065 ppm	0.0024 ppm	9.9696 ppm	320.9645 ppm	0.0655 ppm
Concentration per Run 3	-0.0001 ppm	0.0184 ppm	0.1053 ppm	0.0024 ppm	9.8866 ppm	319.2294 ppm	0.0647 ppm
Concentration RSD	347.9 %	2.9 %	2.1 %	5.7 %	0.4 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.4911 ppm	0.4312 ppm	0.0050 ppm	1,256.5006 ppm	0.0990 ppm	0.0013 ppm	0.0052 ppm
Concentration per Run 1	42.5264 ppm	0.4325 ppm	0.0051 ppm	1,261.3284 ppm	0.1014 ppm	0.0006 ppm	0.0071 ppm
Concentration per Run 2	41.3112 ppm	0.4316 ppm	0.0055 ppm	1,262.8177 ppm	0.0977 ppm	0.0013 ppm	0.0023 ppm
Concentration per Run 3	40.6357 ppm	0.4296 ppm	0.0045 ppm	1,245.3558 ppm	0.0979 ppm	0.0021 ppm	0.0062 ppm
Concentration RSD	2.3 %	0.3 %	9.7 %	0.8 %	2.1 %	57.2 %	48.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	13.9016 ppm	0.0145 ppm	0.4696 ppm	0.2916 ppm	-0.0008 ppm	0.1318 ppm
Concentration per Run 1	0.0000 ppm	14.1883 ppm	0.0141 ppm	0.4710 ppm	0.2981 ppm	0.0014 ppm	0.1347 ppm
Concentration per Run 2	0.0013 ppm	13.8349 ppm	0.0136 ppm	0.4698 ppm	0.2905 ppm	-0.0024 ppm	0.1315 ppm
Concentration per Run 3	0.0024 ppm	13.6815 ppm	0.0159 ppm	0.4678 ppm	0.2863 ppm	-0.0013 ppm	0.1292 ppm
Concentration RSD	100.1 %	1.9 %	8.4 %	0.4 %	2.0 %	260.9 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0076 ppm	77.1534 %	93.8499 %	74.7659 %	79.6663 %	98.2376 %	86.9640 %
Concentration per Run 1	0.0074 ppm	75.6618 %	94.1252 %	74.1286 %	78.3711 %	99.2146 %	87.0654 %
Concentration per Run 2	0.0079 ppm	77.4292 %	93.4272 %	75.0194 %	80.0472 %	97.7328 %	87.0886 %
Concentration per Run 3	0.0074 ppm	78.3692 %	93.9973 %	75.1498 %	80.5805 %	97.7656 %	86.7381 %
Concentration RSD	3.2 %	1.8 %	0.4 %	0.7 %	1.4 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431895-02 WG1933322
Analysis started at: 6/14/2024 9:56:24 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1232 ppm	0.0935 ppm	7.5472 ppm	0.1750 ppm	0.0000 ppm	44.3697 ppm
Concentration per Run 1	0.0003 ppm	0.1305 ppm	0.0941 ppm	7.5338 ppm	0.1753 ppm	0.0000 ppm	44.6473 ppm
Concentration per Run 2	-0.0001 ppm	0.1128 ppm	0.0942 ppm	7.5688 ppm	0.1749 ppm	0.0000 ppm	44.3690 ppm
Concentration per Run 3	-0.0003 ppm	0.1263 ppm	0.0921 ppm	7.5390 ppm	0.1748 ppm	0.0001 ppm	44.0929 ppm
Concentration RSD	558.8 %	7.5 %	1.3 %	0.3 %	0.2 %	375.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0131 ppm	0.0662 ppm	0.0067 ppm	23.0476 ppm	188.1033 ppm	0.0620 ppm
Concentration per Run 1	0.0001 ppm	0.0131 ppm	0.0660 ppm	0.0069 ppm	23.2523 ppm	187.4575 ppm	0.0648 ppm
Concentration per Run 2	0.0001 ppm	0.0130 ppm	0.0655 ppm	0.0068 ppm	22.9876 ppm	188.3940 ppm	0.0586 ppm
Concentration per Run 3	0.0001 ppm	0.0133 ppm	0.0671 ppm	0.0065 ppm	22.9030 ppm	188.4582 ppm	0.0625 ppm
Concentration RSD	31.0 %	1.3 %	1.2 %	3.5 %	0.8 %	0.3 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.6654 ppm	0.3048 ppm	0.0034 ppm	802.7615 ppm	0.0500 ppm	0.0010 ppm	0.0022 ppm
Concentration per Run 1	37.8247 ppm	0.3067 ppm	0.0034 ppm	806.7447 ppm	0.0501 ppm	0.0014 ppm	0.0030 ppm
Concentration per Run 2	37.5269 ppm	0.3041 ppm	0.0032 ppm	802.7301 ppm	0.0502 ppm	0.0007 ppm	0.0017 ppm
Concentration per Run 3	37.6446 ppm	0.3036 ppm	0.0036 ppm	798.8097 ppm	0.0496 ppm	0.0008 ppm	0.0020 ppm
Concentration RSD	0.4 %	0.5 %	5.0 %	0.5 %	0.6 %	39.7 %	29.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	10.8644 ppm	0.0112 ppm	0.3989 ppm	0.2077 ppm	0.0004 ppm	0.0843 ppm
Concentration per Run 1	0.0014 ppm	10.8726 ppm	0.0104 ppm	0.4002 ppm	0.2094 ppm	-0.0005 ppm	0.0844 ppm
Concentration per Run 2	-0.0018 ppm	10.8231 ppm	0.0126 ppm	0.3989 ppm	0.2058 ppm	0.0005 ppm	0.0842 ppm
Concentration per Run 3	-0.0027 ppm	10.8976 ppm	0.0106 ppm	0.3975 ppm	0.2078 ppm	0.0011 ppm	0.0843 ppm
Concentration RSD	203.4 %	0.3 %	11.0 %	0.3 %	0.8 %	211.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0289 ppm	85.0516 %	96.9461 %	79.9964 %	86.3127 %	99.4576 %	89.9038 %
Concentration per Run 1	0.0290 ppm	85.1410 %	96.2975 %	79.6458 %	87.4004 %	99.3019 %	90.1830 %
Concentration per Run 2	0.0286 ppm	85.0982 %	97.2105 %	80.2360 %	86.5189 %	99.6097 %	89.9902 %
Concentration per Run 3	0.0291 ppm	84.9156 %	97.3303 %	80.1073 %	85.0188 %	99.4612 %	89.5382 %
Concentration RSD	0.9 %	0.1 %	0.6 %	0.4 %	1.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431910-01 WG1933322
Analysis started at: 6/14/2024 10:00:19 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0044 ppm	0.0302 ppm	0.0014 ppm	4.4556 ppm	0.1816 ppm	-0.0001 ppm	18.9808 ppm
Concentration per Run 1	0.0044 ppm	0.0369 ppm	0.0021 ppm	4.5447 ppm	0.1829 ppm	-0.0001 ppm	19.0735 ppm
Concentration per Run 2	0.0044 ppm	0.0191 ppm	0.0007 ppm	4.4482 ppm	0.1810 ppm	-0.0001 ppm	18.9599 ppm
Concentration per Run 3	0.0043 ppm	0.0346 ppm	0.0013 ppm	4.3739 ppm	0.1809 ppm	0.0000 ppm	18.9089 ppm
Concentration RSD	1.4 %	32.0 %	50.5 %	1.9 %	0.6 %	42.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0033 ppm	0.0032 ppm	0.2806 ppm	0.0210 ppm	79.1416 ppm	0.0153 ppm
Concentration per Run 1	0.0000 ppm	0.0034 ppm	0.0032 ppm	0.2866 ppm	0.0207 ppm	79.3483 ppm	0.0169 ppm
Concentration per Run 2	0.0000 ppm	0.0034 ppm	0.0034 ppm	0.2800 ppm	0.0226 ppm	79.2881 ppm	0.0146 ppm
Concentration per Run 3	-0.0001 ppm	0.0033 ppm	0.0030 ppm	0.2752 ppm	0.0196 ppm	78.7885 ppm	0.0146 ppm
Concentration RSD	101.5 %	1.9 %	7.3 %	2.0 %	7.1 %	0.4 %	8.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1859 ppm	0.0030 ppm	2.5291 ppm	**622.8622 ppm**	1.1572 ppm	0.0090 ppm	0.0196 ppm
Concentration per Run 1	2.2353 ppm	0.0031 ppm	2.5225 ppm	626.3615 ppm	1.1834 ppm	0.0077 ppm	0.0213 ppm
Concentration per Run 2	2.1820 ppm	0.0030 ppm	2.5291 ppm	621.5000 ppm	1.1547 ppm	0.0089 ppm	0.0194 ppm
Concentration per Run 3	2.1405 ppm	0.0030 ppm	2.5358 ppm	620.7252 ppm	1.1333 ppm	0.0103 ppm	0.0181 ppm
Concentration RSD	2.2 %	2.9 %	0.3 %	0.5 %	2.2 %	14.5 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	7.2866 ppm	**2.0895 ppm**	0.1909 ppm	0.0004 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	0.0015 ppm	7.4231 ppm	2.1008 ppm	0.1932 ppm	0.0003 ppm	-0.0008 ppm	-0.0012 ppm
Concentration per Run 2	0.0017 ppm	7.2892 ppm	2.0847 ppm	0.1905 ppm	0.0003 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 3	-0.0025 ppm	7.1475 ppm	2.0832 ppm	0.1889 ppm	0.0005 ppm	-0.0019 ppm	-0.0009 ppm
Concentration RSD	1,155.5 %	1.9 %	0.5 %	1.1 %	31.5 %	188.9 %	36.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0143 ppm	86.4861 %	101.8522 %	85.3135 %	86.7078 %	100.1712 %	91.6584 %
Concentration per Run 1	0.0146 ppm	84.5758 %	101.5570 %	84.1812 %	85.7222 %	100.2997 %	91.6000 %
Concentration per Run 2	0.0141 ppm	86.5190 %	102.2109 %	85.6845 %	86.9729 %	100.5445 %	91.8235 %
Concentration per Run 3	0.0140 ppm	88.3636 %	101.7886 %	86.0748 %	87.4283 %	99.6694 %	91.5516 %
Concentration RSD	2.1 %	2.2 %	0.3 %	1.2 %	1.0 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431913-01 WG1933322
Analysis started at: 6/14/2024 10:04:14 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0385 ppm	0.0015 ppm	0.0330 ppm	0.0111 ppm	0.0000 ppm	11.8776 ppm
Concentration per Run 1	0.0006 ppm	0.0407 ppm	0.0016 ppm	0.0340 ppm	0.0113 ppm	0.0000 ppm	11.9357 ppm
Concentration per Run 2	0.0006 ppm	0.0384 ppm	0.0010 ppm	0.0338 ppm	0.0111 ppm	0.0000 ppm	11.8929 ppm
Concentration per Run 3	0.0004 ppm	0.0363 ppm	0.0018 ppm	0.0311 ppm	0.0110 ppm	0.0000 ppm	11.8042 ppm
Concentration RSD	27.6 %	5.8 %	28.7 %	4.9 %	1.4 %	1,345.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0012 ppm	0.0077 ppm	0.0378 ppm	1.7145 ppm	0.0046 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0013 ppm	0.0081 ppm	0.0391 ppm	1.7392 ppm	0.0058 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0011 ppm	0.0076 ppm	0.0365 ppm	1.7134 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0013 ppm	0.0073 ppm	0.0378 ppm	1.6909 ppm	0.0064 ppm
Concentration RSD	299.4 %	51.7 %	11.4 %	5.1 %	3.4 %	1.4 %	56.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4181 ppm	0.0039 ppm	0.0123 ppm	60.8841 ppm	0.0038 ppm	-0.0002 ppm	0.0130 ppm
Concentration per Run 1	0.4243 ppm	0.0038 ppm	0.0126 ppm	61.4897 ppm	0.0039 ppm	-0.0002 ppm	0.0129 ppm
Concentration per Run 2	0.4195 ppm	0.0040 ppm	0.0124 ppm	60.8147 ppm	0.0035 ppm	0.0007 ppm	0.0116 ppm
Concentration per Run 3	0.4104 ppm	0.0038 ppm	0.0119 ppm	60.3479 ppm	0.0040 ppm	-0.0010 ppm	0.0146 ppm
Concentration RSD	1.7 %	3.4 %	2.9 %	0.9 %	7.2 %	464.4 %	11.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.4789 ppm	0.0084 ppm	0.0480 ppm	0.0010 ppm	-0.0009 ppm	0.0009 ppm
Concentration per Run 1	-0.0006 ppm	0.4876 ppm	0.0086 ppm	0.0483 ppm	0.0012 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	-0.0013 ppm	0.4791 ppm	0.0084 ppm	0.0479 ppm	0.0008 ppm	-0.0004 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.4702 ppm	0.0082 ppm	0.0477 ppm	0.0011 ppm	-0.0021 ppm	0.0012 ppm
Concentration RSD	112.9 %	1.8 %	1.9 %	0.6 %	23.0 %	118.7 %	32.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0871 ppm	92.2254 %	99.6555 %	93.0743 %	96.0667 %	103.1768 %	99.6276 %
Concentration per Run 1	0.0892 ppm	91.1634 %	98.5238 %	92.3125 %	95.9371 %	102.8908 %	99.8483 %
Concentration per Run 2	0.0865 ppm	92.0852 %	99.4650 %	92.7802 %	95.9884 %	102.7669 %	99.1873 %
Concentration per Run 3	0.0858 ppm	93.4276 %	100.9776 %	94.1300 %	96.2746 %	103.8727 %	99.8474 %
Concentration RSD	2.1 %	1.2 %	1.2 %	1.0 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431916-01 WG1933322
Analysis started at: 6/14/2024 10:08:09 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0202 ppm	0.0011 ppm	0.0111 ppm	0.0117 ppm	0.0000 ppm	11.4458 ppm
Concentration per Run 1	-0.0002 ppm	0.0102 ppm	0.0011 ppm	0.0129 ppm	0.0118 ppm	0.0000 ppm	11.5297 ppm
Concentration per Run 2	0.0007 ppm	0.0252 ppm	0.0012 ppm	0.0114 ppm	0.0117 ppm	0.0000 ppm	11.4166 ppm
Concentration per Run 3	0.0004 ppm	0.0253 ppm	0.0009 ppm	0.0091 ppm	0.0115 ppm	-0.0001 ppm	11.3910 ppm
Concentration RSD	157.0 %	43.0 %	13.7 %	17.0 %	1.2 %	68.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0017 ppm	0.0004 ppm	0.0178 ppm	0.0262 ppm	0.7634 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0022 ppm	0.0004 ppm	0.0178 ppm	0.0266 ppm	0.7865 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	0.0002 ppm	0.0182 ppm	0.0271 ppm	0.7485 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	0.0005 ppm	0.0175 ppm	0.0250 ppm	0.7551 ppm	0.0008 ppm
Concentration RSD	167.9 %	25.2 %	34.3 %	2.0 %	4.1 %	2.7 %	397.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5129 ppm	0.0070 ppm	0.0031 ppm	0.7814 ppm	0.0241 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	1.5539 ppm	0.0070 ppm	0.0034 ppm	0.7935 ppm	0.0257 ppm	-0.0006 ppm	0.0023 ppm
Concentration per Run 2	1.5107 ppm	0.0071 ppm	0.0029 ppm	0.7804 ppm	0.0239 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	1.4742 ppm	0.0068 ppm	0.0029 ppm	0.7703 ppm	0.0227 ppm	0.0004 ppm	0.0001 ppm
Concentration RSD	2.6 %	1.9 %	10.0 %	1.5 %	6.1 %	2,837.5 %	131.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.5377 ppm	0.0012 ppm	0.0134 ppm	0.0009 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.5494 ppm	0.0008 ppm	0.0135 ppm	0.0008 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.5369 ppm	0.0015 ppm	0.0135 ppm	0.0008 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.5270 ppm	0.0011 ppm	0.0132 ppm	0.0012 ppm	-0.0015 ppm	0.0001 ppm
Concentration RSD	158.4 %	2.1 %	29.7 %	1.6 %	28.6 %	31.4 %	350.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0544 ppm	92.1296 %	100.1760 %	96.0032 %	143.7099 %	154.4393 %	150.1069 %
Concentration per Run 1	0.0554 ppm	90.3111 %	99.5882 %	95.7584 %	142.2337 %	154.9758 %	150.7060 %
Concentration per Run 2	0.0544 ppm	92.3059 %	100.0938 %	95.9973 %	143.6708 %	153.8848 %	150.1439 %
Concentration per Run 3	0.0534 ppm	93.7717 %	100.8459 %	96.2540 %	145.2253 %	154.4574 %	149.4707 %
Concentration RSD	1.8 %	1.9 %	0.6 %	0.3 %	1.0 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431923-01 WG1933322
Analysis started at: 6/14/2024 10:12:05 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.1096 ppm	0.0013 ppm	0.0832 ppm	0.0082 ppm	-0.0001 ppm	12.0146 ppm
Concentration per Run 1	-0.0002 ppm	0.1118 ppm	0.0008 ppm	0.0846 ppm	0.0082 ppm	-0.0001 ppm	12.0399 ppm
Concentration per Run 2	0.0001 ppm	0.1150 ppm	0.0016 ppm	0.0820 ppm	0.0083 ppm	-0.0001 ppm	12.0203 ppm
Concentration per Run 3	0.0002 ppm	0.1020 ppm	0.0016 ppm	0.0831 ppm	0.0082 ppm	0.0000 ppm	11.9835 ppm
Concentration RSD	481.2 %	6.2 %	33.4 %	1.5 %	1.1 %	108.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0090 ppm	0.0371 ppm	2.7605 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0006 ppm	0.0092 ppm	0.0386 ppm	2.7802 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0088 ppm	0.0363 ppm	2.7656 ppm	-0.0013 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0091 ppm	0.0363 ppm	2.7358 ppm	0.0013 ppm
Concentration RSD	87.2 %	396.5 %	65.7 %	2.2 %	3.6 %	0.8 %	452.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.9728 ppm	0.0005 ppm	0.0012 ppm	5.1326 ppm	1.1005 ppm	0.0757 ppm	-0.0008 ppm
Concentration per Run 1	3.0224 ppm	0.0005 ppm	0.0011 ppm	5.1564 ppm	1.1150 ppm	0.0765 ppm	0.0014 ppm
Concentration per Run 2	2.9458 ppm	0.0004 ppm	0.0012 ppm	5.1155 ppm	1.0936 ppm	0.0747 ppm	-0.0008 ppm
Concentration per Run 3	2.9500 ppm	0.0007 ppm	0.0012 ppm	5.1258 ppm	1.0928 ppm	0.0758 ppm	-0.0031 ppm
Concentration RSD	1.4 %	30.4 %	6.0 %	0.4 %	1.1 %	1.2 %	265.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	0.1386 ppm	0.3654 ppm	0.0598 ppm	0.0001 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 1	-0.0032 ppm	0.1412 ppm	0.3631 ppm	0.0604 ppm	0.0004 ppm	-0.0011 ppm	0.0010 ppm
Concentration per Run 2	-0.0019 ppm	0.1394 ppm	0.3612 ppm	0.0594 ppm	0.0001 ppm	-0.0012 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.1350 ppm	0.3718 ppm	0.0597 ppm	-0.0001 ppm	-0.0016 ppm	0.0012 ppm
Concentration RSD	89.0 %	2.3 %	1.5 %	0.8 %	160.9 %	17.4 %	8.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0027 ppm	96.6572 %	100.1692 %	97.3833 %	101.7585 %	103.6076 %	101.8262 %
Concentration per Run 1	0.0027 ppm	94.7730 %	100.3596 %	96.4442 %	100.9534 %	104.5452 %	101.5856 %
Concentration per Run 2	0.0027 ppm	97.7323 %	99.6468 %	97.8443 %	103.3564 %	102.9574 %	102.4402 %
Concentration per Run 3	0.0028 ppm	97.4664 %	100.5011 %	97.8615 %	100.9657 %	103.3203 %	101.4527 %
Concentration RSD	2.9 %	1.7 %	0.5 %	0.8 %	1.4 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431975-01 WG1933322
Analysis started at: 6/14/2024 10:16:02 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	14.0837 ppm	0.0209 ppm	0.0433 ppm	0.1115 ppm	0.0009 ppm	15.3985 ppm
Concentration per Run 1	-0.0003 ppm	14.1699 ppm	0.0224 ppm	0.0453 ppm	0.1116 ppm	0.0009 ppm	15.5084 ppm
Concentration per Run 2	0.0000 ppm	14.0851 ppm	0.0212 ppm	0.0430 ppm	0.1117 ppm	0.0008 ppm	15.3915 ppm
Concentration per Run 3	-0.0003 ppm	13.9962 ppm	0.0190 ppm	0.0415 ppm	0.1112 ppm	0.0009 ppm	15.2956 ppm
Concentration RSD	100.2 %	0.6 %	8.4 %	4.5 %	0.2 %	3.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0238 ppm	0.0180 ppm	0.1190 ppm	26.6728 ppm	6.3279 ppm	0.0304 ppm
Concentration per Run 1	0.0003 ppm	0.0251 ppm	0.0188 ppm	0.1220 ppm	26.6769 ppm	6.3707 ppm	0.0317 ppm
Concentration per Run 2	0.0002 ppm	0.0234 ppm	0.0174 ppm	0.1189 ppm	26.7667 ppm	6.3363 ppm	0.0302 ppm
Concentration per Run 3	0.0002 ppm	0.0230 ppm	0.0178 ppm	0.1161 ppm	26.5748 ppm	6.2766 ppm	0.0291 ppm
Concentration RSD	23.6 %	4.8 %	4.0 %	2.5 %	0.4 %	0.8 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.5646 ppm	0.5620 ppm	0.0014 ppm	47.1320 ppm	0.0362 ppm	0.0444 ppm	0.0035 ppm
Concentration per Run 1	11.8334 ppm	0.5654 ppm	0.0015 ppm	47.3350 ppm	0.0366 ppm	0.0448 ppm	0.0033 ppm
Concentration per Run 2	11.5589 ppm	0.5622 ppm	0.0015 ppm	47.2366 ppm	0.0364 ppm	0.0449 ppm	0.0029 ppm
Concentration per Run 3	11.3015 ppm	0.5583 ppm	0.0013 ppm	46.8244 ppm	0.0357 ppm	0.0434 ppm	0.0042 ppm
Concentration RSD	2.3 %	0.6 %	10.7 %	0.6 %	1.3 %	1.9 %	18.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	16.0718 ppm	0.0014 ppm	0.1401 ppm	0.1968 ppm	0.0002 ppm	0.0151 ppm
Concentration per Run 1	0.0002 ppm	16.4681 ppm	0.0024 ppm	0.1399 ppm	0.2008 ppm	0.0007 ppm	0.0157 ppm
Concentration per Run 2	0.0025 ppm	16.0192 ppm	0.0002 ppm	0.1410 ppm	0.1963 ppm	-0.0004 ppm	0.0150 ppm
Concentration per Run 3	0.0000 ppm	15.7280 ppm	0.0015 ppm	0.1395 ppm	0.1933 ppm	0.0004 ppm	0.0147 ppm
Concentration RSD	148.7 %	2.3 %	81.0 %	0.6 %	1.9 %	283.3 %	3.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2058 ppm	93.6315 %	103.9867 %	95.0723 %	97.1497 %	105.6766 %	101.9482 %
Concentration per Run 1	0.2098 ppm	91.6884 %	103.3478 %	93.9841 %	96.3303 %	105.8716 %	101.8488 %
Concentration per Run 2	0.2065 ppm	93.4114 %	104.1943 %	95.4282 %	97.3570 %	105.8347 %	102.4631 %
Concentration per Run 3	0.2011 ppm	95.7946 %	104.4179 %	95.8044 %	97.7618 %	105.3236 %	101.5327 %
Concentration RSD	2.1 %	2.2 %	0.5 %	1.0 %	0.8 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 10:19:59 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4744 ppm	0.4723 ppm	0.4963 ppm	0.5016 ppm	0.5047 ppm	0.4917 ppm
Concentration per Run 1	0.4780 ppm	0.4761 ppm	0.4744 ppm	0.4718 ppm	0.5046 ppm	0.5059 ppm	0.4938 ppm
Concentration per Run 2	0.5265 ppm	0.4790 ppm	0.4776 ppm	0.5252 ppm	0.5022 ppm	0.5067 ppm	0.4920 ppm
Concentration per Run 3	0.5027 ppm	0.4680 ppm	0.4649 ppm	0.4920 ppm	0.4979 ppm	0.5017 ppm	0.4893 ppm
Recovery Percentage 1	100.480 %	94.877 %	94.454 %	99.269 %	100.317 %	100.947 %	98.341 %
Concentration RSD	4.8 %	1.2 %	1.4 %	5.4 %	0.7 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4961 ppm	0.5096 ppm	0.4923 ppm	0.4950 ppm	0.5099 ppm	5.0590 ppm	0.4775 ppm
Concentration per Run 1	0.4717 ppm	0.4855 ppm	0.4676 ppm	0.4713 ppm	0.5159 ppm	5.1452 ppm	0.4849 ppm
Concentration per Run 2	0.5223 ppm	0.5369 ppm	0.5175 ppm	0.5220 ppm	0.5135 ppm	5.0363 ppm	0.4739 ppm
Concentration per Run 3	0.4944 ppm	0.5065 ppm	0.4919 ppm	0.4918 ppm	0.5002 ppm	4.9954 ppm	0.4738 ppm
Recovery Percentage 1	99.224 %	101.927 %	98.459 %	99.008 %	101.970 %	101.180 %	95.504 %
Concentration RSD	5.1 %	5.1 %	5.1 %	5.2 %	1.7 %	1.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4998 ppm	0.4876 ppm	0.4917 ppm	10.1321 ppm	0.5097 ppm	0.4905 ppm	0.4888 ppm
Concentration per Run 1	0.4740 ppm	0.4889 ppm	0.4599 ppm	10.1235 ppm	0.4840 ppm	0.4936 ppm	0.4638 ppm
Concentration per Run 2	0.5250 ppm	0.4878 ppm	0.5176 ppm	10.1452 ppm	0.5373 ppm	0.4912 ppm	0.5139 ppm
Concentration per Run 3	0.5004 ppm	0.4861 ppm	0.4977 ppm	10.1275 ppm	0.5077 ppm	0.4866 ppm	0.4887 ppm
Recovery Percentage 1	99.958 %	97.521 %	98.341 %	101.321 %	101.935 %	98.099 %	97.752 %
Concentration RSD	5.1 %	0.3 %	6.0 %	0.1 %	5.2 %	0.7 %	5.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4844 ppm	5.1227 ppm	0.5197 ppm	0.5100 ppm	0.5007 ppm	0.4866 ppm	0.4969 ppm
Concentration per Run 1	0.4859 ppm	4.8704 ppm	0.4795 ppm	0.5133 ppm	0.4743 ppm	0.4888 ppm	0.4716 ppm
Concentration per Run 2	0.4886 ppm	5.3843 ppm	0.5582 ppm	0.5106 ppm	0.5258 ppm	0.4919 ppm	0.5238 ppm
Concentration per Run 3	0.4788 ppm	5.1132 ppm	0.5215 ppm	0.5060 ppm	0.5021 ppm	0.4791 ppm	0.4952 ppm
Recovery Percentage 1	96.886 %	97.574 %	103.945 %	101.994 %	100.149 %	97.321 %	99.379 %
Concentration RSD	1.0 %	5.0 %	7.6 %	0.7 %	5.1 %	1.4 %	5.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5069 ppm	99.7800 %	105.4520 %	100.6284 %	96.0829 %	102.0891 %	99.7548 %
Concentration per Run 1	0.4821 ppm	104.3279 %	105.0967 %	99.6729 %	102.9522 %	101.9426 %	99.4998 %
Concentration per Run 2	0.5339 ppm	95.3686 %	105.7667 %	100.2686 %	89.9345 %	102.3107 %	99.5823 %
Concentration per Run 3	0.5046 ppm	99.6435 %	105.4927 %	101.9437 %	95.3620 %	102.0141 %	100.1823 %
Recovery Percentage 1	101.375 %						
Concentration RSD	5.1 %	4.5 %	0.3 %	1.2 %	6.8 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 10:23:55 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0049 ppm	0.0025 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 1	-0.0002 ppm	-0.0062 ppm	0.0032 ppm	0.0024 ppm	-0.0002 ppm	0.0000 ppm	0.0101 ppm
Concentration per Run 2	-0.0004 ppm	-0.0097 ppm	0.0033 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0009 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0100 ppm
Recovery Percentage 1	-3.363 %	-4.945 %	82.567 %	2.995 %	-0.765 %	0.505 %	9.131 %
Concentration RSD	83.7 %	111.3 %	53.8 %	158.2 %	201.3 %	108.7 %	17.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm	0.0036 ppm	0.0458 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0004 ppm	0.0042 ppm	0.0358 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0045 ppm	0.0325 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm	0.0022 ppm	0.0691 ppm	-0.0030 ppm
Recovery Percentage 1	0.092 %	2.759 %	0.298 %	4.817 %	7.264 %	1.831 %	-15.160 %
Concentration RSD	844.5 %	18.4 %	508.7 %	43.8 %	33.6 %	44.3 %	87.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0019 ppm	0.0566 ppm	-0.0005 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0020 ppm	0.0561 ppm	-0.0010 ppm	0.0004 ppm	0.0008 ppm
Concentration per Run 2	-0.0019 ppm	0.0003 ppm	0.0017 ppm	0.0571 ppm	0.0000 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	0.0019 ppm	0.0565 ppm	-0.0006 ppm	0.0004 ppm	0.0011 ppm
Recovery Percentage 1	-0.419 %	2.795 %	3.777 %	2.829 %	-2.013 %	0.829 %	1.868 %
Concentration RSD	332.7 %	76.3 %	7.2 %	0.9 %	100.4 %	663.7 %	17.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	-0.0059 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 1	0.0031 ppm	-0.0053 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0078 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0036 ppm	-0.0046 ppm	0.0024 ppm	-0.0002 ppm	0.0000 ppm	-0.0014 ppm	0.0000 ppm
Recovery Percentage 1	22.262 %	-1.181 %	3.697 %	-0.010 %	0.008 %	-4.331 %	0.079 %
Concentration RSD	86.2 %	28.9 %	39.9 %	14,267.1 %	3,439.6 %	136.4 %	1,262.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	94.3272 %	99.5212 %	98.1076 %	97.7386 %	101.5573 %	101.1570 %
Concentration per Run 1	0.0013 ppm	92.2843 %	98.7458 %	97.4834 %	96.7471 %	101.2612 %	101.4406 %
Concentration per Run 2	0.0015 ppm	94.5779 %	100.3724 %	98.6310 %	98.1580 %	102.4597 %	101.2885 %
Concentration per Run 3	0.0012 ppm	96.1195 %	99.4453 %	98.2083 %	98.3108 %	100.9510 %	100.7420 %
Recovery Percentage 1	26.315 %						
Concentration RSD	10.8 %	2.0 %	0.8 %	0.6 %	0.9 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431979-01 WG1933322
Analysis started at: 6/14/2024 10:32:06 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0143 ppm	0.0002 ppm	0.0257 ppm	0.0979 ppm	0.0000 ppm	60.0052 ppm
Concentration per Run 1	0.0005 ppm	-0.0089 ppm	0.0010 ppm	0.0258 ppm	0.0989 ppm	0.0000 ppm	60.0853 ppm
Concentration per Run 2	-0.0004 ppm	-0.0271 ppm	-0.0003 ppm	0.0258 ppm	0.0974 ppm	0.0000 ppm	60.1068 ppm
Concentration per Run 3	-0.0004 ppm	-0.0067 ppm	0.0001 ppm	0.0255 ppm	0.0974 ppm	-0.0001 ppm	59.8235 ppm
Concentration RSD	568.7 %	78.6 %	273.3 %	0.7 %	0.9 %	447.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0021 ppm	0.0060 ppm	7.2957 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	0.0005 ppm	0.0021 ppm	0.0078 ppm	7.3923 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	-0.0003 ppm	0.0020 ppm	0.0061 ppm	7.2865 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0022 ppm	0.0041 ppm	7.2083 ppm	-0.0002 ppm
Concentration RSD	315.6 %	10.2 %	332.4 %	3.6 %	30.1 %	1.3 %	358.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.8040 ppm	0.0087 ppm	0.0022 ppm	331.6442 ppm	0.0005 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 1	14.1246 ppm	0.0088 ppm	0.0024 ppm	331.1893 ppm	0.0005 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 2	13.7558 ppm	0.0086 ppm	0.0021 ppm	332.8900 ppm	0.0004 ppm	0.0007 ppm	0.0022 ppm
Concentration per Run 3	13.5316 ppm	0.0088 ppm	0.0021 ppm	330.8535 ppm	0.0006 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	2.2 %	1.8 %	7.4 %	0.3 %	18.9 %	642.5 %	31.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	6.9576 ppm	-0.0002 ppm	0.3401 ppm	0.0000 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 1	0.0013 ppm	7.0924 ppm	0.0001 ppm	0.3420 ppm	-0.0001 ppm	0.0020 ppm	0.0003 ppm
Concentration per Run 2	0.0041 ppm	6.9607 ppm	0.0004 ppm	0.3408 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 3	-0.0012 ppm	6.8197 ppm	-0.0010 ppm	0.3376 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	191.4 %	2.0 %	482.5 %	0.7 %	552.8 %	94.9 %	13.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	84.8224 %	96.0312 %	84.4637 %	88.9485 %	100.0290 %	94.5924 %
Concentration per Run 1	0.0055 ppm	83.2895 %	96.0183 %	84.0147 %	88.2909 %	100.4994 %	94.6931 %
Concentration per Run 2	0.0053 ppm	84.9756 %	95.7561 %	84.4257 %	89.2457 %	99.7841 %	94.6131 %
Concentration per Run 3	0.0055 ppm	86.2020 %	96.3193 %	84.9506 %	89.3088 %	99.8034 %	94.4709 %
Concentration RSD	2.2 %	1.7 %	0.3 %	0.6 %	0.6 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431983-01 WG1933322
Analysis started at: 6/14/2024 10:36:08 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0758 ppm	0.0018 ppm	0.0061 ppm	0.0097 ppm	0.0000 ppm	4.9022 ppm
Concentration per Run 1	0.0000 ppm	0.0655 ppm	0.0018 ppm	0.0055 ppm	0.0098 ppm	0.0000 ppm	4.9417 ppm
Concentration per Run 2	-0.0004 ppm	0.0823 ppm	0.0021 ppm	0.0068 ppm	0.0097 ppm	0.0000 ppm	4.8874 ppm
Concentration per Run 3	0.0003 ppm	0.0797 ppm	0.0015 ppm	0.0061 ppm	0.0098 ppm	0.0000 ppm	4.8776 ppm
Concentration RSD	822.1 %	11.9 %	16.8 %	10.4 %	0.7 %	603.6 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0037 ppm	1.8358 ppm	1.3241 ppm	-0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0035 ppm	1.8472 ppm	1.3773 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	0.0002 ppm	0.0037 ppm	1.8390 ppm	1.2960 ppm	-0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0040 ppm	1.8211 ppm	1.2991 ppm	-0.0003 ppm
Concentration RSD	61.5 %	17.4 %	72.5 %	7.5 %	0.7 %	3.5 %	99.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3252 ppm	0.0849 ppm	0.0004 ppm	13.4075 ppm	0.0013 ppm	0.0049 ppm	0.0018 ppm
Concentration per Run 1	0.3335 ppm	0.0856 ppm	-0.0001 ppm	13.5248 ppm	0.0012 ppm	0.0055 ppm	-0.0005 ppm
Concentration per Run 2	0.3242 ppm	0.0848 ppm	0.0007 ppm	13.3972 ppm	0.0021 ppm	0.0044 ppm	0.0009 ppm
Concentration per Run 3	0.3180 ppm	0.0844 ppm	0.0006 ppm	13.3006 ppm	0.0007 ppm	0.0047 ppm	0.0050 ppm
Concentration RSD	2.4 %	0.7 %	98.5 %	0.8 %	52.5 %	11.9 %	157.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	1.3800 ppm	0.0002 ppm	0.0159 ppm	0.0033 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 1	-0.0013 ppm	1.4019 ppm	0.0000 ppm	0.0161 ppm	0.0034 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 2	-0.0009 ppm	1.3831 ppm	0.0000 ppm	0.0160 ppm	0.0031 ppm	-0.0012 ppm	0.0009 ppm
Concentration per Run 3	0.0016 ppm	1.3551 ppm	0.0007 ppm	0.0157 ppm	0.0035 ppm	0.0003 ppm	0.0010 ppm
Concentration RSD	842.3 %	1.7 %	176.3 %	1.4 %	5.7 %	432.9 %	11.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0073 ppm	92.3786 %	100.1200 %	95.9656 %	98.0359 %	104.6614 %	102.1542 %
Concentration per Run 1	0.0076 ppm	90.4247 %	100.0267 %	94.5517 %	96.6778 %	105.9457 %	101.8751 %
Concentration per Run 2	0.0072 ppm	92.2395 %	99.7092 %	96.4882 %	98.1441 %	103.8025 %	102.4087 %
Concentration per Run 3	0.0071 ppm	94.4717 %	100.6242 %	96.8570 %	99.2859 %	104.2359 %	102.1789 %
Concentration RSD	3.3 %	2.2 %	0.5 %	1.3 %	1.3 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431996-01 WG1933322
Analysis started at: 6/14/2024 10:40:06 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	2.4039 ppm	0.0037 ppm	0.0305 ppm	0.0457 ppm	0.0001 ppm	57.5925 ppm
Concentration per Run 1	-0.0001 ppm	2.4318 ppm	0.0054 ppm	0.0305 ppm	0.0459 ppm	0.0001 ppm	57.7963 ppm
Concentration per Run 2	-0.0002 ppm	2.4094 ppm	0.0025 ppm	0.0295 ppm	0.0458 ppm	0.0001 ppm	57.6421 ppm
Concentration per Run 3	0.0001 ppm	2.3705 ppm	0.0033 ppm	0.0317 ppm	0.0454 ppm	0.0001 ppm	57.3391 ppm
Concentration RSD	304.6 %	1.3 %	40.8 %	3.6 %	0.5 %	15.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0021 ppm	0.0071 ppm	0.0097 ppm	4.6821 ppm	10.6665 ppm	0.0076 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	0.0073 ppm	0.0098 ppm	4.7119 ppm	10.7347 ppm	0.0089 ppm
Concentration per Run 2	0.0001 ppm	0.0019 ppm	0.0068 ppm	0.0102 ppm	4.6777 ppm	10.6638 ppm	0.0073 ppm
Concentration per Run 3	0.0001 ppm	0.0021 ppm	0.0071 ppm	0.0093 ppm	4.6566 ppm	10.6011 ppm	0.0066 ppm
Concentration RSD	3.6 %	7.8 %	3.2 %	4.8 %	0.6 %	0.6 %	15.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6251 ppm	0.2126 ppm	0.0021 ppm	15.3084 ppm	0.0054 ppm	0.0095 ppm	0.0009 ppm
Concentration per Run 1	9.8399 ppm	0.2139 ppm	0.0021 ppm	15.2890 ppm	0.0067 ppm	0.0100 ppm	-0.0001 ppm
Concentration per Run 2	9.6059 ppm	0.2124 ppm	0.0020 ppm	15.3593 ppm	0.0052 ppm	0.0095 ppm	0.0022 ppm
Concentration per Run 3	9.4295 ppm	0.2115 ppm	0.0023 ppm	15.2771 ppm	0.0042 ppm	0.0089 ppm	0.0006 ppm
Concentration RSD	2.1 %	0.6 %	5.9 %	0.3 %	24.0 %	5.7 %	135.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	7.0829 ppm	-0.0003 ppm	0.2855 ppm	0.0276 ppm	-0.0006 ppm	0.0080 ppm
Concentration per Run 1	-0.0014 ppm	7.2219 ppm	-0.0003 ppm	0.2884 ppm	0.0288 ppm	-0.0017 ppm	0.0084 ppm
Concentration per Run 2	-0.0026 ppm	7.0664 ppm	-0.0002 ppm	0.2851 ppm	0.0274 ppm	0.0001 ppm	0.0080 ppm
Concentration per Run 3	0.0014 ppm	6.9603 ppm	-0.0003 ppm	0.2829 ppm	0.0268 ppm	-0.0004 ppm	0.0077 ppm
Concentration RSD	231.0 %	1.9 %	25.0 %	1.0 %	3.8 %	145.9 %	4.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0429 ppm	91.4038 %	100.3174 %	92.6477 %	96.2637 %	104.3360 %	100.7760 %
Concentration per Run 1	0.0434 ppm	89.6342 %	99.2471 %	91.7646 %	95.1301 %	103.6676 %	100.5117 %
Concentration per Run 2	0.0428 ppm	91.6728 %	100.4719 %	92.8041 %	96.9232 %	104.5899 %	101.0736 %
Concentration per Run 3	0.0423 ppm	92.9043 %	101.2333 %	93.3745 %	96.7380 %	104.7504 %	100.7426 %
Concentration RSD	1.2 %	1.8 %	1.0 %	0.9 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431996-02 WG1933322
Analysis started at: 6/14/2024 10:44:03 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.7146 ppm	0.0042 ppm	0.0164 ppm	0.0417 ppm	0.0000 ppm	63.5388 ppm
Concentration per Run 1	-0.0004 ppm	0.7241 ppm	0.0035 ppm	0.0163 ppm	0.0419 ppm	0.0001 ppm	64.1506 ppm
Concentration per Run 2	0.0002 ppm	0.7138 ppm	0.0047 ppm	0.0177 ppm	0.0416 ppm	0.0000 ppm	63.3825 ppm
Concentration per Run 3	-0.0002 ppm	0.7058 ppm	0.0045 ppm	0.0154 ppm	0.0416 ppm	0.0000 ppm	63.0835 ppm
Concentration RSD	179.0 %	1.3 %	14.3 %	7.1 %	0.4 %	150.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0010 ppm	0.0025 ppm	0.0053 ppm	1.4526 ppm	5.9723 ppm	0.0036 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0026 ppm	0.0053 ppm	1.4632 ppm	6.0691 ppm	0.0036 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	0.0023 ppm	0.0052 ppm	1.4513 ppm	5.9623 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0027 ppm	0.0054 ppm	1.4434 ppm	5.8855 ppm	0.0051 ppm
Concentration RSD	52.5 %	19.4 %	7.9 %	1.5 %	0.7 %	1.5 %	39.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8703 ppm	0.1469 ppm	0.0020 ppm	10.4492 ppm	0.0027 ppm	0.0059 ppm	0.0004 ppm
Concentration per Run 1	7.0342 ppm	0.1483 ppm	0.0018 ppm	10.5651 ppm	0.0035 ppm	0.0065 ppm	-0.0025 ppm
Concentration per Run 2	6.8653 ppm	0.1464 ppm	0.0025 ppm	10.4205 ppm	0.0019 ppm	0.0046 ppm	0.0021 ppm
Concentration per Run 3	6.7114 ppm	0.1461 ppm	0.0015 ppm	10.3621 ppm	0.0026 ppm	0.0067 ppm	0.0016 ppm
Concentration RSD	2.3 %	0.8 %	26.8 %	1.0 %	28.8 %	19.6 %	622.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	3.2294 ppm	0.0000 ppm	0.1359 ppm	0.0108 ppm	-0.0013 ppm	0.0023 ppm
Concentration per Run 1	0.0009 ppm	3.2934 ppm	0.0010 ppm	0.1369 ppm	0.0103 ppm	-0.0014 ppm	0.0025 ppm
Concentration per Run 2	-0.0009 ppm	3.2359 ppm	-0.0001 ppm	0.1357 ppm	0.0116 ppm	-0.0017 ppm	0.0023 ppm
Concentration per Run 3	0.0009 ppm	3.1588 ppm	-0.0008 ppm	0.1350 ppm	0.0106 ppm	-0.0010 ppm	0.0022 ppm
Concentration RSD	355.5 %	2.1 %	1,855.6 %	0.7 %	6.0 %	26.8 %	5.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0202 ppm	90.7472 %	99.1344 %	92.2084 %	95.6976 %	103.8497 %	100.0049 %
Concentration per Run 1	0.0209 ppm	88.8102 %	98.6190 %	91.3767 %	94.3001 %	104.4130 %	100.1425 %
Concentration per Run 2	0.0202 ppm	90.9940 %	98.6859 %	92.1847 %	96.0749 %	103.2204 %	99.8019 %
Concentration per Run 3	0.0195 ppm	92.4376 %	100.0982 %	93.0639 %	96.7179 %	103.9156 %	100.0704 %
Concentration RSD	3.4 %	2.0 %	0.8 %	0.9 %	1.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431997-01 WG1933322
Analysis started at: 6/14/2024 10:48:01 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0084 ppm	0.0020 ppm	0.0555 ppm	0.0243 ppm	0.0000 ppm	85.6756 ppm
Concentration per Run 1	-0.0003 ppm	0.0106 ppm	0.0029 ppm	0.0571 ppm	0.0246 ppm	0.0000 ppm	86.0980 ppm
Concentration per Run 2	-0.0003 ppm	0.0064 ppm	0.0006 ppm	0.0553 ppm	0.0242 ppm	0.0000 ppm	85.6694 ppm
Concentration per Run 3	-0.0002 ppm	0.0082 ppm	0.0025 ppm	0.0540 ppm	0.0240 ppm	0.0000 ppm	85.2594 ppm
Concentration RSD	27.4 %	25.2 %	62.8 %	2.7 %	1.3 %	93.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0013 ppm	0.3779 ppm	3.6112 ppm	0.0033 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0013 ppm	0.3797 ppm	3.6634 ppm	0.0043 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0006 ppm	0.0014 ppm	0.3758 ppm	3.5893 ppm	0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0012 ppm	0.3781 ppm	3.5810 ppm	0.0022 ppm
Concentration RSD	106.1 %	26.0 %	109.0 %	9.5 %	0.5 %	1.3 %	32.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7392 ppm	0.3390 ppm	0.0017 ppm	6.3516 ppm	0.0014 ppm	0.0002 ppm	0.0018 ppm
Concentration per Run 1	10.9967 ppm	0.3408 ppm	0.0020 ppm	6.3709 ppm	0.0010 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 2	10.7173 ppm	0.3394 ppm	0.0016 ppm	6.3728 ppm	0.0019 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 3	10.5036 ppm	0.3369 ppm	0.0015 ppm	6.3111 ppm	0.0013 ppm	-0.0003 ppm	0.0008 ppm
Concentration RSD	2.3 %	0.6 %	16.7 %	0.6 %	35.5 %	364.8 %	127.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	7.0813 ppm	-0.0006 ppm	0.2744 ppm	0.0008 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	7.2310 ppm	-0.0011 ppm	0.2761 ppm	0.0007 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 2	-0.0035 ppm	7.0669 ppm	-0.0003 ppm	0.2742 ppm	0.0010 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 3	-0.0022 ppm	6.9461 ppm	-0.0003 ppm	0.2729 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm
Concentration RSD	93.9 %	2.0 %	83.6 %	0.6 %	34.6 %	82.9 %	100.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	89.9314 %	98.9306 %	90.7622 %	95.1679 %	103.8308 %	99.6258 %
Concentration per Run 1	0.0018 ppm	88.1080 %	98.5151 %	89.9738 %	93.9175 %	103.8786 %	99.7087 %
Concentration per Run 2	0.0018 ppm	90.4401 %	98.7293 %	90.8632 %	95.7908 %	103.4860 %	99.8820 %
Concentration per Run 3	0.0013 ppm	91.2460 %	99.5475 %	91.4496 %	95.7954 %	104.1277 %	99.2868 %
Concentration RSD	15.6 %	1.8 %	0.6 %	0.8 %	1.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431997-02 WG1933322
Analysis started at: 6/14/2024 10:51:59 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0117 ppm	0.0032 ppm	0.0571 ppm	0.0245 ppm	0.0000 ppm	85.0613 ppm
Concentration per Run 1	-0.0003 ppm	0.0178 ppm	0.0030 ppm	0.0586 ppm	0.0246 ppm	0.0000 ppm	85.5392 ppm
Concentration per Run 2	-0.0005 ppm	0.0032 ppm	0.0027 ppm	0.0567 ppm	0.0244 ppm	-0.0001 ppm	84.8852 ppm
Concentration per Run 3	-0.0002 ppm	0.0142 ppm	0.0037 ppm	0.0560 ppm	0.0244 ppm	0.0000 ppm	84.7596 ppm
Concentration RSD	51.8 %	65.0 %	15.1 %	2.4 %	0.5 %	340.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0015 ppm	0.4167 ppm	3.5679 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0016 ppm	0.4175 ppm	3.6221 ppm	0.0043 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	0.4190 ppm	3.5759 ppm	0.0037 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0014 ppm	0.4136 ppm	3.5058 ppm	0.0034 ppm
Concentration RSD	39.0 %	92.8 %	7.8 %	7.6 %	0.7 %	1.6 %	11.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6657 ppm	0.3598 ppm	0.0017 ppm	6.2883 ppm	0.0016 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	10.9660 ppm	0.3614 ppm	0.0012 ppm	6.3176 ppm	0.0025 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 2	10.6242 ppm	0.3600 ppm	0.0023 ppm	6.2799 ppm	0.0010 ppm	0.0001 ppm	0.0044 ppm
Concentration per Run 3	10.4070 ppm	0.3581 ppm	0.0016 ppm	6.2672 ppm	0.0013 ppm	0.0002 ppm	-0.0043 ppm
Concentration RSD	2.6 %	0.5 %	33.0 %	0.4 %	50.1 %	72.2 %	2,056.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	7.0053 ppm	-0.0002 ppm	0.2706 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0019 ppm	7.1481 ppm	0.0009 ppm	0.2731 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	7.0061 ppm	-0.0002 ppm	0.2710 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0022 ppm	6.8617 ppm	-0.0013 ppm	0.2676 ppm	0.0006 ppm	0.0007 ppm	-0.0003 ppm
Concentration RSD	1,162.2 %	2.0 %	670.8 %	1.0 %	30.2 %	328.3 %	28.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	89.1022 %	99.6598 %	90.5903 %	94.7276 %	104.6332 %	99.5623 %
Concentration per Run 1	0.0017 ppm	87.0879 %	99.1829 %	89.8875 %	93.2629 %	104.7112 %	99.8404 %
Concentration per Run 2	0.0020 ppm	89.5974 %	99.9122 %	90.5163 %	95.5809 %	104.6000 %	99.3858 %
Concentration per Run 3	0.0017 ppm	90.6212 %	99.8842 %	91.3670 %	95.3390 %	104.5886 %	99.4608 %
Concentration RSD	8.4 %	2.0 %	0.4 %	0.8 %	1.3 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432104-02 WG1933322
Analysis started at: 6/14/2024 10:55:53 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0825 ppm	0.2030 ppm	1.3818 ppm	0.0050 ppm	0.0000 ppm	5.6784 ppm
Concentration per Run 1	-0.0001 ppm	0.0884 ppm	0.2045 ppm	1.4654 ppm	0.0048 ppm	0.0000 ppm	5.6593 ppm
Concentration per Run 2	-0.0004 ppm	0.0675 ppm	0.2036 ppm	1.3131 ppm	0.0047 ppm	0.0000 ppm	5.1403 ppm
Concentration per Run 3	0.0000 ppm	0.0917 ppm	0.2010 ppm	1.3669 ppm	0.0055 ppm	-0.0001 ppm	6.2355 ppm
Concentration RSD	119.0 %	15.9 %	0.9 %	5.6 %	9.2 %	2,141.9 %	9.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0048 ppm	0.0217 ppm	2.1262 ppm	-0.0019 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0053 ppm	0.0228 ppm	2.1849 ppm	-0.0017 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0044 ppm	0.0199 ppm	1.9062 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0047 ppm	0.0224 ppm	2.2874 ppm	-0.0021 ppm
Concentration RSD	37.6 %	111.4 %	32.3 %	9.7 %	7.2 %	9.3 %	11.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9519 ppm	0.0060 ppm	0.0002 ppm	96.0125 ppm	0.0014 ppm	0.0010 ppm	0.0008 ppm
Concentration per Run 1	1.0136 ppm	0.0061 ppm	0.0001 ppm	95.6138 ppm	0.0015 ppm	0.0004 ppm	-0.0023 ppm
Concentration per Run 2	0.9055 ppm	0.0056 ppm	0.0002 ppm	87.0317 ppm	0.0008 ppm	0.0010 ppm	0.0017 ppm
Concentration per Run 3	0.9365 ppm	0.0063 ppm	0.0004 ppm	105.3921 ppm	0.0019 ppm	0.0015 ppm	0.0029 ppm
Concentration RSD	5.8 %	5.9 %	65.9 %	9.6 %	39.6 %	58.4 %	358.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	1.6071 ppm	-0.0005 ppm	0.0324 ppm	0.0013 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	1.7045 ppm	-0.0005 ppm	0.0321 ppm	0.0017 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 2	-0.0011 ppm	1.5221 ppm	-0.0002 ppm	0.0292 ppm	0.0011 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	1.5946 ppm	-0.0008 ppm	0.0360 ppm	0.0011 ppm	-0.0028 ppm	0.0000 ppm
Concentration RSD	43.8 %	5.7 %	61.2 %	10.5 %	24.6 %	370.6 %	635.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0074 ppm	93.8694 %	102.8821 %	95.0711 %	96.1156 %	101.6020 %	98.6255 %
Concentration per Run 1	0.0078 ppm	88.6065 %	102.4623 %	94.7115 %	91.7240 %	102.5928 %	99.5273 %
Concentration per Run 2	0.0069 ppm	97.9804 %	111.2728 %	95.1920 %	100.9068 %	111.1697 %	98.3113 %
Concentration per Run 3	0.0074 ppm	95.0211 %	94.9113 %	95.3098 %	95.7158 %	91.0436 %	98.0378 %
Concentration RSD	6.0 %	5.1 %	8.0 %	0.3 %	4.8 %	9.9 %	0.8 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431992-02D10 WG1933920
Analysis started at: 6/14/2024 10:59:48 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0073 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.3841 ppm
Concentration per Run 1	0.0001 ppm	-0.0023 ppm	-0.0003 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.3871 ppm
Concentration per Run 2	-0.0002 ppm	-0.0088 ppm	-0.0008 ppm	0.0015 ppm	-0.0001 ppm	-0.0001 ppm	0.3823 ppm
Concentration per Run 3	-0.0003 ppm	-0.0109 ppm	0.0023 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.3829 ppm
Concentration RSD	129.4 %	61.3 %	431.2 %	105.9 %	938.0 %	92.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm	0.0031 ppm	21.9956 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0009 ppm	0.0032 ppm	22.1148 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0042 ppm	22.0125 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0004 ppm	0.0007 ppm	0.0020 ppm	21.8594 ppm	-0.0020 ppm
Concentration RSD	103.2 %	53.8 %	329.4 %	19.5 %	35.8 %	0.6 %	129.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0064 ppm	0.0000 ppm	0.0003 ppm	308.1762 ppm	-0.0002 ppm	0.0006 ppm	0.0020 ppm
Concentration per Run 1	0.0071 ppm	0.0001 ppm	0.0002 ppm	311.0125 ppm	-0.0006 ppm	0.0004 ppm	-0.0009 ppm
Concentration per Run 2	0.0063 ppm	0.0000 ppm	0.0000 ppm	307.8022 ppm	0.0003 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 3	0.0058 ppm	0.0000 ppm	0.0005 ppm	305.7139 ppm	-0.0003 ppm	0.0014 ppm	0.0014 ppm
Concentration RSD	10.1 %	54.5 %	89.2 %	0.9 %	252.3 %	117.3 %	160.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	-0.0049 ppm	0.0012 ppm	0.0004 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0025 ppm	-0.0033 ppm	0.0010 ppm	0.0003 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0034 ppm	-0.0055 ppm	0.0012 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0011 ppm	-0.0059 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm	-0.0003 ppm
Concentration RSD	152.1 %	29.1 %	15.0 %	11.8 %	81.6 %	347.4 %	113.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	90.8823 %	103.3775 %	89.8009 %	90.1574 %	101.4110 %	94.7088 %
Concentration per Run 1	0.0025 ppm	88.7872 %	102.6514 %	89.0974 %	89.5377 %	101.3324 %	94.8072 %
Concentration per Run 2	0.0020 ppm	90.8312 %	102.8680 %	89.9986 %	90.1846 %	100.9822 %	94.9046 %
Concentration per Run 3	0.0020 ppm	93.0284 %	104.6130 %	90.3067 %	90.7499 %	101.9183 %	94.4145 %
Concentration RSD	12.4 %	2.3 %	1.0 %	0.7 %	0.7 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432084-05D2 WG1933299
Analysis started at: 6/14/2024 11:03:43 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	107.2759 ppm	0.0657 ppm	0.0048 ppm	0.2422 ppm	0.0042 ppm	5.2423 ppm
Concentration per Run 1	0.0012 ppm	101.5240 ppm	0.0672 ppm	0.0058 ppm	0.2289 ppm	0.0039 ppm	4.9317 ppm
Concentration per Run 2	0.0007 ppm	94.7007 ppm	0.0638 ppm	0.0046 ppm	0.2148 ppm	0.0038 ppm	4.6740 ppm
Concentration per Run 3	0.0008 ppm	125.6029 ppm	0.0661 ppm	0.0039 ppm	0.2829 ppm	0.0049 ppm	6.1211 ppm
Concentration RSD	24.5 %	15.1 %	2.6 %	20.7 %	14.8 %	14.2 %	14.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0672 ppm	0.1103 ppm	0.1171 ppm	166.0729 ppm	2.0544 ppm	0.1218 ppm
Concentration per Run 1	0.0011 ppm	0.0684 ppm	0.1122 ppm	0.1182 ppm	155.9463 ppm	1.9421 ppm	0.1153 ppm
Concentration per Run 2	0.0013 ppm	0.0667 ppm	0.1096 ppm	0.1178 ppm	147.6713 ppm	1.8173 ppm	0.1082 ppm
Concentration per Run 3	0.0009 ppm	0.0665 ppm	0.1090 ppm	0.1152 ppm	194.6011 ppm	2.4038 ppm	0.1421 ppm
Concentration RSD	16.9 %	1.6 %	1.5 %	1.4 %	15.1 %	15.0 %	14.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.7650 ppm	2.3130 ppm	0.0040 ppm	0.2844 ppm	0.1141 ppm	0.2492 ppm	0.0055 ppm
Concentration per Run 1	18.0222 ppm	2.1896 ppm	0.0040 ppm	0.2707 ppm	0.1164 ppm	0.2508 ppm	0.0078 ppm
Concentration per Run 2	17.7568 ppm	2.0403 ppm	0.0040 ppm	0.2491 ppm	0.1135 ppm	0.2493 ppm	0.0045 ppm
Concentration per Run 3	17.5160 ppm	2.7093 ppm	0.0041 ppm	0.3332 ppm	0.1124 ppm	0.2475 ppm	0.0043 ppm
Concentration RSD	1.4 %	15.2 %	1.4 %	15.4 %	1.8 %	0.7 %	35.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	7.7951 ppm	0.0070 ppm	0.0537 ppm	3.9165 ppm	0.0010 ppm	0.1952 ppm
Concentration per Run 1	0.0000 ppm	7.9256 ppm	0.0068 ppm	0.0503 ppm	3.9777 ppm	0.0010 ppm	0.1992 ppm
Concentration per Run 2	0.0001 ppm	7.7716 ppm	0.0071 ppm	0.0476 ppm	3.9083 ppm	0.0031 ppm	0.1945 ppm
Concentration per Run 3	0.0040 ppm	7.6881 ppm	0.0070 ppm	0.0632 ppm	3.8635 ppm	-0.0010 ppm	0.1920 ppm
Concentration RSD	169.3 %	1.5 %	2.2 %	15.4 %	1.5 %	200.4 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4054 ppm	103.7736 %	114.5803 %	95.2540 %	117.8456 %	129.3351 %	123.9993 %
Concentration per Run 1	0.4133 ppm	102.7145 %	119.2701 %	94.9899 %	118.4379 %	136.6378 %	124.5088 %
Concentration per Run 2	0.4021 ppm	103.9653 %	126.0443 %	95.1440 %	118.0743 %	136.9339 %	123.6002 %
Concentration per Run 3	0.4008 ppm	104.6408 %	98.4266 %	95.6279 %	117.0246 %	114.4337 %	123.8890 %
Concentration RSD	1.7 %	0.9 %	12.6 %	0.3 %	0.6 %	10.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432084-07D2 WG1933299
Analysis started at: 6/14/2024 11:07:39 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0040 ppm	89.9199 ppm	0.0612 ppm	0.0055 ppm	0.2655 ppm	0.0034 ppm	5.0765 ppm
Concentration per Run 1	0.0040 ppm	89.8855 ppm	0.0623 ppm	0.0066 ppm	0.2667 ppm	0.0034 ppm	5.1001 ppm
Concentration per Run 2	0.0041 ppm	90.2436 ppm	0.0609 ppm	0.0058 ppm	0.2659 ppm	0.0034 ppm	5.0759 ppm
Concentration per Run 3	0.0038 ppm	89.6305 ppm	0.0605 ppm	0.0043 ppm	0.2641 ppm	0.0033 ppm	5.0535 ppm
Concentration RSD	3.7 %	0.3 %	1.5 %	20.8 %	0.5 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0319 ppm	0.0919 ppm	0.1348 ppm	119.7821 ppm	2.1228 ppm	0.1037 ppm
Concentration per Run 1	0.0013 ppm	0.0327 ppm	0.0941 ppm	0.1385 ppm	120.2454 ppm	2.1454 ppm	0.1059 ppm
Concentration per Run 2	0.0011 ppm	0.0312 ppm	0.0914 ppm	0.1335 ppm	119.9881 ppm	2.1057 ppm	0.1037 ppm
Concentration per Run 3	0.0011 ppm	0.0318 ppm	0.0901 ppm	0.1324 ppm	119.1127 ppm	2.1174 ppm	0.1014 ppm
Concentration RSD	6.9 %	2.2 %	2.2 %	2.4 %	0.5 %	1.0 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6413 ppm	1.7116 ppm	0.0038 ppm	0.2295 ppm	0.0661 ppm	0.4944 ppm	0.0051 ppm
Concentration per Run 1	15.0003 ppm	1.7166 ppm	0.0040 ppm	0.2251 ppm	0.0674 ppm	0.4969 ppm	0.0061 ppm
Concentration per Run 2	14.6198 ppm	1.7145 ppm	0.0037 ppm	0.2358 ppm	0.0654 ppm	0.4944 ppm	0.0056 ppm
Concentration per Run 3	14.3038 ppm	1.7038 ppm	0.0036 ppm	0.2275 ppm	0.0654 ppm	0.4920 ppm	0.0035 ppm
Concentration RSD	2.4 %	0.4 %	6.2 %	2.5 %	1.8 %	0.5 %	26.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	6.4668 ppm	0.0122 ppm	0.0525 ppm	1.7631 ppm	0.0008 ppm	0.1776 ppm
Concentration per Run 1	0.0035 ppm	6.6094 ppm	0.0116 ppm	0.0530 ppm	1.8035 ppm	0.0018 ppm	0.1818 ppm
Concentration per Run 2	0.0058 ppm	6.4210 ppm	0.0128 ppm	0.0525 ppm	1.7535 ppm	0.0000 ppm	0.1764 ppm
Concentration per Run 3	0.0042 ppm	6.3700 ppm	0.0122 ppm	0.0522 ppm	1.7324 ppm	0.0005 ppm	0.1746 ppm
Concentration RSD	25.4 %	2.0 %	5.0 %	0.8 %	2.1 %	121.3 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3776 ppm	101.2117 %	111.3803 %	96.9129 %	110.2093 %	122.8987 %	115.9968 %
Concentration per Run 1	0.3861 ppm	99.0395 %	110.2917 %	96.9341 %	109.7946 %	121.8360 %	116.5209 %
Concentration per Run 2	0.3763 ppm	101.2741 %	112.0091 %	96.2060 %	109.6014 %	123.3162 %	115.2837 %
Concentration per Run 3	0.3706 ppm	103.3215 %	111.8399 %	97.5986 %	111.2320 %	123.5438 %	116.1857 %
Concentration RSD	2.1 %	2.1 %	0.8 %	0.7 %	0.8 %	0.8 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 11:11:35 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5023 ppm	0.4695 ppm	0.4689 ppm	0.4980 ppm	0.4967 ppm	0.5020 ppm	0.4915 ppm
Concentration per Run 1	0.5108 ppm	0.4805 ppm	0.4720 ppm	0.5075 ppm	0.4948 ppm	0.5008 ppm	0.4965 ppm
Concentration per Run 2	0.5005 ppm	0.4784 ppm	0.4639 ppm	0.4954 ppm	0.4978 ppm	0.5003 ppm	0.4914 ppm
Concentration per Run 3	0.4956 ppm	0.4498 ppm	0.4709 ppm	0.4912 ppm	0.4974 ppm	0.5049 ppm	0.4865 ppm
Recovery Percentage 1	100.465 %	93.909 %	93.782 %	99.601 %	99.334 %	100.400 %	98.296 %
Concentration RSD	1.5 %	3.6 %	0.9 %	1.7 %	0.3 %	0.5 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4958 ppm	0.5088 ppm	0.4929 ppm	0.4941 ppm	0.5129 ppm	4.9925 ppm	0.4717 ppm
Concentration per Run 1	0.5049 ppm	0.5191 ppm	0.5022 ppm	0.5048 ppm	0.5120 ppm	5.0480 ppm	0.4738 ppm
Concentration per Run 2	0.4945 ppm	0.5066 ppm	0.4920 ppm	0.4925 ppm	0.5141 ppm	4.9818 ppm	0.4735 ppm
Concentration per Run 3	0.4881 ppm	0.5006 ppm	0.4845 ppm	0.4850 ppm	0.5128 ppm	4.9478 ppm	0.4678 ppm
Recovery Percentage 1	99.165 %	101.757 %	98.576 %	98.828 %	102.589 %	99.851 %	94.342 %
Concentration RSD	1.7 %	1.9 %	1.8 %	2.0 %	0.2 %	1.0 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4967 ppm	0.4873 ppm	0.4934 ppm	10.1074 ppm	0.5110 ppm	0.4864 ppm	0.4900 ppm
Concentration per Run 1	0.5071 ppm	0.4894 ppm	0.4959 ppm	10.1118 ppm	0.5225 ppm	0.4890 ppm	0.4999 ppm
Concentration per Run 2	0.4947 ppm	0.4873 ppm	0.4917 ppm	10.1112 ppm	0.5068 ppm	0.4850 ppm	0.4873 ppm
Concentration per Run 3	0.4882 ppm	0.4852 ppm	0.4925 ppm	10.0990 ppm	0.5036 ppm	0.4851 ppm	0.4828 ppm
Recovery Percentage 1	99.337 %	97.457 %	98.673 %	101.074 %	102.197 %	97.275 %	98.001 %
Concentration RSD	1.9 %	0.4 %	0.4 %	0.1 %	2.0 %	0.5 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4799 ppm	5.1239 ppm	0.5226 ppm	0.5077 ppm	0.4986 ppm	0.4812 ppm	0.4962 ppm
Concentration per Run 1	0.4865 ppm	5.2179 ppm	0.5245 ppm	0.5051 ppm	0.5080 ppm	0.4878 ppm	0.5066 ppm
Concentration per Run 2	0.4754 ppm	5.1075 ppm	0.5262 ppm	0.5084 ppm	0.4972 ppm	0.4767 ppm	0.4941 ppm
Concentration per Run 3	0.4778 ppm	5.0463 ppm	0.5170 ppm	0.5098 ppm	0.4907 ppm	0.4791 ppm	0.4880 ppm
Recovery Percentage 1	95.976 %	97.598 %	104.512 %	101.548 %	99.728 %	96.235 %	99.246 %
Concentration RSD	1.2 %	1.7 %	0.9 %	0.5 %	1.8 %	1.2 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5070 ppm	99.7274 %	105.7442 %	101.5222 %	95.9177 %	102.4470 %	100.3156 %
Concentration per Run 1	0.5166 ppm	97.6354 %	105.0054 %	101.1547 %	95.1683 %	102.0891 %	100.7897 %
Concentration per Run 2	0.5067 ppm	100.1842 %	105.5947 %	101.3285 %	96.1831 %	102.2471 %	99.9800 %
Concentration per Run 3	0.4978 ppm	101.3626 %	106.6324 %	102.0833 %	96.4017 %	103.0049 %	100.1770 %
Recovery Percentage 1	101.401 %						
Concentration RSD	1.9 %	1.9 %	0.8 %	0.5 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 11:15:32 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0113 ppm	0.0015 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 1	-0.0003 ppm	-0.0147 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 2	0.0001 ppm	-0.0139 ppm	0.0028 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0108 ppm
Concentration per Run 3	-0.0002 ppm	-0.0054 ppm	0.0013 ppm	0.0021 ppm	-0.0003 ppm	0.0000 ppm	0.0084 ppm
Recovery Percentage 1	-2.060 %	-11.311 %	49.897 %	2.204 %	-1.179 %	0.500 %	9.352 %
Concentration RSD	154.8 %	45.5 %	82.0 %	190.4 %	141.0 %	80.9 %	13.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0064 ppm	0.0259 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0001 ppm	0.0006 ppm	0.0068 ppm	0.0150 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm	0.0334 ppm	-0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0050 ppm	0.0292 ppm	-0.0026 ppm
Recovery Percentage 1	-1.387 %	2.576 %	-0.069 %	2.194 %	12.790 %	1.035 %	-8.621 %
Concentration RSD	58.9 %	60.0 %	1,520.0 %	145.6 %	19.1 %	37.4 %	207.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	0.0001 ppm	0.0014 ppm	0.0219 ppm	-0.0003 ppm	-0.0003 ppm	0.0020 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	0.0010 ppm	0.0217 ppm	0.0002 ppm	-0.0012 ppm	0.0048 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0164 ppm	-0.0003 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 3	0.0009 ppm	0.0000 ppm	0.0016 ppm	0.0275 ppm	-0.0008 ppm	-0.0006 ppm	0.0007 ppm
Recovery Percentage 1	0.487 %	0.881 %	2.759 %	1.093 %	-1.208 %	-3.054 %	4.011 %
Concentration RSD	91.0 %	172.0 %	22.7 %	25.5 %	159.1 %	356.9 %	121.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	-0.0063 ppm	0.0008 ppm	0.0001 ppm	0.0004 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0061 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	-0.0007 ppm	-0.0051 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0035 ppm	-0.0079 ppm	0.0012 ppm	0.0000 ppm	0.0005 ppm	-0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	9.933 %	-1.270 %	1.653 %	1.445 %	3.911 %	-2.224 %	-2.028 %
Concentration RSD	224.1 %	21.9 %	77.7 %	113.0 %	42.2 %	86.9 %	26.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	94.0731 %	99.9663 %	97.9573 %	97.7901 %	102.3844 %	101.6236 %
Concentration per Run 1	0.0014 ppm	91.5471 %	99.4266 %	96.9374 %	96.5120 %	102.6262 %	101.6994 %
Concentration per Run 2	0.0014 ppm	94.6772 %	100.2862 %	98.4450 %	98.6048 %	102.8956 %	101.9182 %
Concentration per Run 3	0.0012 ppm	95.9950 %	100.1860 %	98.4895 %	98.2533 %	101.6313 %	101.2533 %
Recovery Percentage 1	26.990 %						
Concentration RSD	12.1 %	2.4 %	0.5 %	0.9 %	1.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933863-1 WG1933863
Analysis started at: 6/14/2024 11:20:53 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0056 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0150 ppm
Concentration per Run 1	-0.0003 ppm	-0.0056 ppm	-0.0006 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 2	0.0001 ppm	-0.0035 ppm	0.0019 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0166 ppm
Concentration per Run 3	0.0001 ppm	-0.0077 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0163 ppm
Recovery Percentage 1	-0.594 %	-5.601 %	19.665 %	0.297 %	-0.404 %	-0.858 %	15.023 %
Concentration RSD	516.7 %	37.1 %	213.8 %	649.3 %	293.7 %	56.0 %	16.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0191 ppm	0.0161 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0197 ppm	0.0050 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0199 ppm	0.0007 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0002 ppm	0.0178 ppm	0.0426 ppm	-0.0014 ppm
Recovery Percentage 1	0.185 %	0.516 %	5.890 %	2.640 %	38.226 %	0.644 %	0.074 %
Concentration RSD	307.2 %	276.5 %	26.6 %	67.1 %	6.0 %	143.3 %	20,786.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0038 ppm	0.0004 ppm	0.0002 ppm	0.0227 ppm	-0.0004 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.0033 ppm	0.0006 ppm	-0.0001 ppm	0.0264 ppm	-0.0003 ppm	-0.0003 ppm	0.0018 ppm
Concentration per Run 2	0.0044 ppm	0.0006 ppm	0.0002 ppm	0.0180 ppm	-0.0007 ppm	0.0014 ppm	-0.0003 ppm
Concentration per Run 3	0.0037 ppm	0.0001 ppm	0.0006 ppm	0.0236 ppm	-0.0002 ppm	0.0001 ppm	0.0013 ppm
Recovery Percentage 1	3.799 %	4.448 %	0.446 %	1.133 %	-1.585 %	3.906 %	1.846 %
Concentration RSD	15.4 %	60.0 %	146.7 %	18.9 %	70.6 %	234.3 %	121.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0006 ppm	0.0016 ppm	0.0001 ppm	0.0004 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0032 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	-0.0030 ppm	0.0000 ppm
Concentration per Run 2	0.0024 ppm	0.0033 ppm	0.0013 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0037 ppm	-0.0018 ppm	0.0019 ppm	0.0001 ppm	0.0009 ppm	-0.0010 ppm	-0.0001 ppm
Recovery Percentage 1	20.618 %	-0.117 %	3.219 %	1.110 %	3.720 %	-8.244 %	0.275 %
Concentration RSD	90.8 %	580.8 %	20.9 %	92.2 %	124.6 %	68.4 %	389.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	97.6958 %	102.0861 %	101.3263 %	100.0122 %	103.6348 %	103.4760 %
Concentration per Run 1	0.0013 ppm	96.2658 %	101.6967 %	100.4124 %	99.7605 %	103.8845 %	103.2240 %
Concentration per Run 2	0.0011 ppm	97.9232 %	101.3609 %	101.1506 %	100.5461 %	102.6706 %	103.4256 %
Concentration per Run 3	0.0011 ppm	98.8984 %	103.2008 %	102.4160 %	99.7299 %	104.3493 %	103.7783 %
Recovery Percentage 1	23.325 %						
Concentration RSD	7.6 %	1.4 %	1.0 %	1.0 %	0.5 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933863-2D2 WG1933863
Analysis started at: 6/14/2024 11:25:01 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0500 ppm	1.9241 ppm	0.1177 ppm	0.9929 ppm	1.9734 ppm	0.0493 ppm	10.0111 ppm
Concentration per Run 1	0.0512 ppm	1.9296 ppm	0.1171 ppm	1.0174 ppm	1.9713 ppm	0.0492 ppm	10.0408 ppm
Concentration per Run 2	0.0498 ppm	1.9257 ppm	0.1187 ppm	0.9891 ppm	1.9731 ppm	0.0493 ppm	10.0036 ppm
Concentration per Run 3	0.0490 ppm	1.9170 ppm	0.1171 ppm	0.9723 ppm	1.9758 ppm	0.0492 ppm	9.9888 ppm
Concentration RSD	2.2 %	0.3 %	0.8 %	2.3 %	0.1 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0524 ppm	0.4898 ppm	0.1935 ppm	0.2485 ppm	1.0216 ppm	10.2585 ppm	-0.0005 ppm
Concentration per Run 1	0.0538 ppm	0.5041 ppm	0.1991 ppm	0.2553 ppm	1.0241 ppm	10.2121 ppm	-0.0004 ppm
Concentration per Run 2	0.0521 ppm	0.4873 ppm	0.1925 ppm	0.2472 ppm	1.0173 ppm	10.2908 ppm	-0.0021 ppm
Concentration per Run 3	0.0513 ppm	0.4781 ppm	0.1890 ppm	0.2431 ppm	1.0233 ppm	10.2727 ppm	0.0011 ppm
Concentration RSD	2.4 %	2.7 %	2.6 %	2.5 %	0.4 %	0.4 %	359.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9608 ppm	0.4905 ppm	1.0102 ppm	10.3584 ppm	0.4938 ppm	0.5282 ppm	0.4966 ppm
Concentration per Run 1	10.2193 ppm	0.4919 ppm	1.0244 ppm	10.4098 ppm	0.5083 ppm	0.5312 ppm	0.5091 ppm
Concentration per Run 2	9.9157 ppm	0.4903 ppm	1.0094 ppm	10.3452 ppm	0.4907 ppm	0.5275 ppm	0.4949 ppm
Concentration per Run 3	9.7474 ppm	0.4894 ppm	0.9969 ppm	10.3203 ppm	0.4824 ppm	0.5259 ppm	0.4858 ppm
Concentration RSD	2.4 %	0.3 %	1.4 %	0.4 %	2.7 %	0.5 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1194 ppm	0.9556 ppm	0.9967 ppm	0.9883 ppm	1.0049 ppm	0.1166 ppm	0.4983 ppm
Concentration per Run 1	0.1180 ppm	0.9838 ppm	1.0114 ppm	0.9898 ppm	1.0303 ppm	0.1171 ppm	0.5113 ppm
Concentration per Run 2	0.1222 ppm	0.9518 ppm	0.9876 ppm	0.9876 ppm	0.9996 ppm	0.1176 ppm	0.4962 ppm
Concentration per Run 3	0.1180 ppm	0.9312 ppm	0.9911 ppm	0.9874 ppm	0.9848 ppm	0.1150 ppm	0.4874 ppm
Concentration RSD	2.0 %	2.8 %	1.3 %	0.1 %	2.3 %	1.2 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4955 ppm	98.0095 %	103.8296 %	97.7493 %	95.1468 %	100.6978 %	98.4074 %
Concentration per Run 1	0.5110 ppm	95.5809 %	103.8084 %	97.0086 %	94.2157 %	101.3123 %	98.0729 %
Concentration per Run 2	0.4927 ppm	98.4465 %	103.9901 %	97.8285 %	95.7802 %	100.6992 %	98.4738 %
Concentration per Run 3	0.4826 ppm	100.0012 %	103.6904 %	98.4108 %	95.4446 %	100.0819 %	98.6755 %
Concentration RSD	2.9 %	2.3 %	0.1 %	0.7 %	0.9 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432160-01D2 WG1933863
Analysis started at: 6/14/2024 11:28:58 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	23.7588 ppm	0.0187 ppm	0.0038 ppm	0.1252 ppm	0.0019 ppm	6.0328 ppm
Concentration per Run 1	0.0003 ppm	23.8927 ppm	0.0187 ppm	0.0036 ppm	0.1258 ppm	0.0019 ppm	6.0511 ppm
Concentration per Run 2	0.0006 ppm	23.5977 ppm	0.0180 ppm	0.0044 ppm	0.1251 ppm	0.0019 ppm	6.0346 ppm
Concentration per Run 3	0.0003 ppm	23.7861 ppm	0.0194 ppm	0.0034 ppm	0.1246 ppm	0.0020 ppm	6.0126 ppm
Concentration RSD	41.2 %	0.6 %	3.7 %	13.3 %	0.5 %	2.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0189 ppm	0.0731 ppm	0.2610 ppm	75.9290 ppm	3.6136 ppm	0.0166 ppm
Concentration per Run 1	0.0004 ppm	0.0193 ppm	0.0741 ppm	0.2640 ppm	76.1796 ppm	3.6532 ppm	0.0180 ppm
Concentration per Run 2	0.0003 ppm	0.0177 ppm	0.0679 ppm	0.2429 ppm	75.9031 ppm	3.5813 ppm	0.0156 ppm
Concentration per Run 3	0.0004 ppm	0.0197 ppm	0.0772 ppm	0.2761 ppm	75.7043 ppm	3.6062 ppm	0.0162 ppm
Concentration RSD	18.7 %	5.7 %	6.4 %	6.4 %	0.3 %	1.0 %	7.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.7526 ppm	0.2331 ppm	0.0037 ppm	0.2977 ppm	0.0765 ppm	0.0918 ppm	0.0025 ppm
Concentration per Run 1	7.8696 ppm	0.2333 ppm	0.0038 ppm	0.2970 ppm	0.0784 ppm	0.0927 ppm	0.0027 ppm
Concentration per Run 2	7.1720 ppm	0.2335 ppm	0.0035 ppm	0.2978 ppm	0.0703 ppm	0.0912 ppm	0.0006 ppm
Concentration per Run 3	8.2161 ppm	0.2326 ppm	0.0040 ppm	0.2982 ppm	0.0808 ppm	0.0916 ppm	0.0042 ppm
Concentration RSD	6.9 %	0.2 %	6.4 %	0.2 %	7.2 %	0.8 %	73.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	4.4504 ppm	0.0461 ppm	0.0248 ppm	1.2845 ppm	0.0003 ppm	0.0754 ppm
Concentration per Run 1	-0.0004 ppm	4.5360 ppm	0.0463 ppm	0.0246 ppm	1.2976 ppm	0.0012 ppm	0.0762 ppm
Concentration per Run 2	0.0023 ppm	4.1305 ppm	0.0408 ppm	0.0249 ppm	1.1845 ppm	-0.0003 ppm	0.0699 ppm
Concentration per Run 3	0.0024 ppm	4.6848 ppm	0.0511 ppm	0.0249 ppm	1.3715 ppm	0.0000 ppm	0.0801 ppm
Concentration RSD	111.3 %	6.4 %	11.2 %	0.7 %	7.3 %	257.3 %	6.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3041 ppm	104.3961 %	109.8888 %	99.2100 %	106.9353 %	113.7790 %	109.0726 %
Concentration per Run 1	0.3080 ppm	102.1296 %	110.0240 %	98.2545 %	104.6157 %	114.6985 %	108.9211 %
Concentration per Run 2	0.2817 ppm	111.7434 %	109.3046 %	99.1919 %	118.9264 %	112.9399 %	108.9257 %
Concentration per Run 3	0.3224 ppm	99.3152 %	110.3377 %	100.1836 %	97.2640 %	113.6985 %	109.3709 %
Concentration RSD	6.8 %	6.2 %	0.5 %	1.0 %	10.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: eL2431859-01D2 WG1933863
Analysis started at: 6/14/2024 11:32:56 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	39.5282 ppm	0.0598 ppm	0.0526 ppm	0.4094 ppm	0.0022 ppm	1,518.5691 ppm
Concentration per Run 1	-0.0004 ppm	39.5013 ppm	0.0606 ppm	0.0457 ppm	0.4125 ppm	0.0022 ppm	1,520.9517 ppm
Concentration per Run 2	-0.0006 ppm	39.4913 ppm	0.0605 ppm	0.0576 ppm	0.4049 ppm	0.0021 ppm	1,522.5357 ppm
Concentration per Run 3	-0.0011 ppm	39.5920 ppm	0.0583 ppm	0.0546 ppm	0.4109 ppm	0.0022 ppm	1,512.2200 ppm
Concentration RSD	51.1 %	0.1 %	2.1 %	11.7 %	1.0 %	1.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0392 ppm	0.0733 ppm	0.6508 ppm	98.9738 ppm	7.1946 ppm	0.0605 ppm
Concentration per Run 1	0.0029 ppm	0.0356 ppm	0.0661 ppm	0.5843 ppm	99.5305 ppm	7.2254 ppm	0.0605 ppm
Concentration per Run 2	0.0035 ppm	0.0423 ppm	0.0793 ppm	0.7048 ppm	98.4972 ppm	7.2027 ppm	0.0603 ppm
Concentration per Run 3	0.0033 ppm	0.0397 ppm	0.0745 ppm	0.6633 ppm	98.8937 ppm	7.1557 ppm	0.0608 ppm
Concentration RSD	8.6 %	8.6 %	9.1 %	9.4 %	0.5 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	326.8122 ppm	4.3990 ppm	0.0060 ppm	2.9596 ppm	0.0688 ppm	0.2056 ppm	0.0025 ppm
Concentration per Run 1	293.4531 ppm	4.4052 ppm	0.0053 ppm	2.9761 ppm	0.0617 ppm	0.2077 ppm	0.0044 ppm
Concentration per Run 2	353.8068 ppm	4.4017 ppm	0.0069 ppm	2.9765 ppm	0.0741 ppm	0.2046 ppm	0.0026 ppm
Concentration per Run 3	333.1766 ppm	4.3899 ppm	0.0058 ppm	2.9262 ppm	0.0706 ppm	0.2046 ppm	0.0004 ppm
Concentration RSD	9.4 %	0.2 %	13.5 %	1.0 %	9.3 %	0.9 %	82.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0167 ppm	18.8241 ppm	0.0047 ppm	1.5973 ppm	0.9465 ppm	-0.0004 ppm	0.1171 ppm
Concentration per Run 1	-0.0185 ppm	16.8701 ppm	0.0039 ppm	1.6140 ppm	0.8443 ppm	-0.0004 ppm	0.1050 ppm
Concentration per Run 2	-0.0149 ppm	20.4652 ppm	0.0055 ppm	1.5826 ppm	1.0249 ppm	0.0009 ppm	0.1269 ppm
Concentration per Run 3	-0.0168 ppm	19.1368 ppm	0.0046 ppm	1.5952 ppm	0.9703 ppm	-0.0017 ppm	0.1193 ppm
Concentration RSD	10.7 %	9.7 %	16.8 %	1.0 %	9.8 %	360.6 %	9.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0555 ppm	88.4437 %	100.6733 %	76.1566 %	106.4189 %	125.4962 %	109.2465 %
Concentration per Run 1	0.9489 ppm	97.1659 %	100.2128 %	75.5339 %	116.1007 %	125.4020 %	108.8796 %
Concentration per Run 2	1.1463 ppm	81.8529 %	100.3307 %	76.1158 %	98.5021 %	125.3574 %	109.1974 %
Concentration per Run 3	1.0714 ppm	86.3123 %	101.4763 %	76.8200 %	104.6540 %	125.7292 %	109.6625 %
Concentration RSD	9.4 %	8.9 %	0.7 %	0.8 %	8.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431882-01D2 WG1933863
Analysis started at: 6/14/2024 11:36:51 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	97.7924 ppm	0.0668 ppm	0.0257 ppm	0.6999 ppm	0.0048 ppm	444.3743 ppm
Concentration per Run 1	-0.0006 ppm	97.7770 ppm	0.0671 ppm	0.0258 ppm	0.6984 ppm	0.0048 ppm	444.8225 ppm
Concentration per Run 2	-0.0001 ppm	97.7698 ppm	0.0666 ppm	0.0255 ppm	0.7004 ppm	0.0048 ppm	444.5797 ppm
Concentration per Run 3	-0.0007 ppm	97.8303 ppm	0.0666 ppm	0.0259 ppm	0.7010 ppm	0.0048 ppm	443.7207 ppm
Concentration RSD	65.9 %	0.0 %	0.4 %	1.0 %	0.2 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1128 ppm	0.2122 ppm	0.1981 ppm	217.7157 ppm	8.6391 ppm	0.1752 ppm
Concentration per Run 1	0.0010 ppm	0.1160 ppm	0.2171 ppm	0.2033 ppm	217.5634 ppm	8.6523 ppm	0.1739 ppm
Concentration per Run 2	0.0012 ppm	0.1126 ppm	0.2115 ppm	0.1978 ppm	218.4431 ppm	8.6491 ppm	0.1751 ppm
Concentration per Run 3	0.0013 ppm	0.1099 ppm	0.2079 ppm	0.1930 ppm	217.1406 ppm	8.6160 ppm	0.1766 ppm
Concentration RSD	10.9 %	2.7 %	2.2 %	2.6 %	0.3 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.0061 ppm	3.2850 ppm	0.0032 ppm	23.5088 ppm	0.4513 ppm	0.1121 ppm	0.0077 ppm
Concentration per Run 1	43.0190 ppm	3.2881 ppm	0.0031 ppm	23.5396 ppm	0.4641 ppm	0.1121 ppm	0.0064 ppm
Concentration per Run 2	41.8136 ppm	3.2835 ppm	0.0033 ppm	23.5472 ppm	0.4486 ppm	0.1105 ppm	0.0091 ppm
Concentration per Run 3	41.1857 ppm	3.2833 ppm	0.0032 ppm	23.4397 ppm	0.4411 ppm	0.1139 ppm	0.0075 ppm
Concentration RSD	2.2 %	0.1 %	3.2 %	0.3 %	2.6 %	1.5 %	17.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0036 ppm	6.3192 ppm	0.0041 ppm	0.3823 ppm	0.4043 ppm	0.0001 ppm	0.1658 ppm
Concentration per Run 1	-0.0035 ppm	6.4681 ppm	0.0041 ppm	0.3810 ppm	0.4180 ppm	0.0007 ppm	0.1703 ppm
Concentration per Run 2	-0.0041 ppm	6.3204 ppm	0.0041 ppm	0.3860 ppm	0.4013 ppm	0.0008 ppm	0.1640 ppm
Concentration per Run 3	-0.0032 ppm	6.1691 ppm	0.0042 ppm	0.3799 ppm	0.3938 ppm	-0.0013 ppm	0.1631 ppm
Concentration RSD	13.0 %	2.4 %	1.9 %	0.9 %	3.1 %	1,771.0 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8688 ppm	97.3971 %	109.0343 %	89.3277 %	108.9577 %	124.8908 %	113.9585 %
Concentration per Run 1	0.8944 ppm	94.9191 %	108.5715 %	89.0323 %	107.4817 %	124.9518 %	113.9356 %
Concentration per Run 2	0.8641 ppm	97.5989 %	108.8319 %	89.4546 %	109.2887 %	124.5202 %	114.0527 %
Concentration per Run 3	0.8478 ppm	99.6732 %	109.6996 %	89.4961 %	110.1025 %	125.2003 %	113.8872 %
Concentration RSD	2.7 %	2.4 %	0.5 %	0.3 %	1.2 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432187-01D2 WG1933863
Analysis started at: 6/14/2024 11:40:46 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0210 ppm	110.6521 ppm	0.1349 ppm	0.0522 ppm	0.5817 ppm	0.0059 ppm	439.1152 ppm
Concentration per Run 1	0.0227 ppm	110.2588 ppm	0.1344 ppm	0.0551 ppm	0.5795 ppm	0.0060 ppm	439.5542 ppm
Concentration per Run 2	0.0188 ppm	110.7166 ppm	0.1352 ppm	0.0479 ppm	0.5844 ppm	0.0059 ppm	438.8917 ppm
Concentration per Run 3	0.0215 ppm	110.9808 ppm	0.1351 ppm	0.0538 ppm	0.5810 ppm	0.0059 ppm	438.8995 ppm
Concentration RSD	9.4 %	0.3 %	0.3 %	7.3 %	0.4 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.1227 ppm	0.1933 ppm	0.7861 ppm	294.1115 ppm	7.2581 ppm	0.2317 ppm
Concentration per Run 1	0.0049 ppm	0.1322 ppm	0.2075 ppm	0.8456 ppm	294.9430 ppm	7.2640 ppm	0.2330 ppm
Concentration per Run 2	0.0040 ppm	0.1114 ppm	0.1767 ppm	0.7146 ppm	294.6605 ppm	7.2456 ppm	0.2294 ppm
Concentration per Run 3	0.0047 ppm	0.1247 ppm	0.1958 ppm	0.7980 ppm	292.7311 ppm	7.2646 ppm	0.2328 ppm
Concentration RSD	10.4 %	8.6 %	8.0 %	8.4 %	0.4 %	0.1 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	90.4544 ppm	7.6951 ppm	0.0512 ppm	7.6903 ppm	0.3162 ppm	0.2703 ppm	0.0153 ppm
Concentration per Run 1	97.1415 ppm	7.6919 ppm	0.0537 ppm	7.7420 ppm	0.3404 ppm	0.2684 ppm	0.0144 ppm
Concentration per Run 2	82.7249 ppm	7.6918 ppm	0.0469 ppm	7.6692 ppm	0.2889 ppm	0.2718 ppm	0.0170 ppm
Concentration per Run 3	91.4969 ppm	7.7015 ppm	0.0531 ppm	7.6596 ppm	0.3193 ppm	0.2707 ppm	0.0144 ppm
Concentration RSD	8.0 %	0.1 %	7.3 %	0.6 %	8.2 %	0.6 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	27.9378 ppm	0.0174 ppm	0.5217 ppm	0.7122 ppm	0.0021 ppm	0.1819 ppm
Concentration per Run 1	-0.0020 ppm	30.1504 ppm	0.0176 ppm	0.5268 ppm	0.7672 ppm	0.0025 ppm	0.1948 ppm
Concentration per Run 2	0.0009 ppm	25.5553 ppm	0.0165 ppm	0.5216 ppm	0.6583 ppm	0.0034 ppm	0.1664 ppm
Concentration per Run 3	-0.0018 ppm	28.1076 ppm	0.0182 ppm	0.5166 ppm	0.7111 ppm	0.0002 ppm	0.1846 ppm
Concentration RSD	162.2 %	8.2 %	5.1 %	1.0 %	7.6 %	79.1 %	7.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7064 ppm	103.2537 %	111.1271 %	88.8908 %	127.9142 %	143.5819 %	129.1387 %
Concentration per Run 1	1.8370 ppm	96.1014 %	111.9401 %	89.0264 %	122.9776 %	145.0583 %	129.2653 %
Concentration per Run 2	1.5589 ppm	111.6023 %	110.4290 %	88.8637 %	135.7014 %	142.3882 %	129.2501 %
Concentration per Run 3	1.7235 ppm	102.0574 %	111.0123 %	88.7824 %	125.0637 %	143.2991 %	128.9006 %
Concentration RSD	8.2 %	7.6 %	0.7 %	0.1 %	5.3 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933863-3D2 WG1933863
Analysis started at: 6/14/2024 11:44:43 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0606 ppm	105.6570 ppm	0.2329 ppm	0.9019 ppm	2.2985 ppm	0.0521 ppm	185.8635 ppm
Concentration per Run 1	0.0616 ppm	105.5193 ppm	0.2332 ppm	0.9216 ppm	2.2878 ppm	0.0522 ppm	185.9468 ppm
Concentration per Run 2	0.0604 ppm	105.8757 ppm	0.2332 ppm	0.8990 ppm	2.2987 ppm	0.0519 ppm	186.2102 ppm
Concentration per Run 3	0.0598 ppm	105.5761 ppm	0.2324 ppm	0.8850 ppm	2.3092 ppm	0.0521 ppm	185.4336 ppm
Concentration RSD	1.5 %	0.2 %	0.2 %	2.0 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.5309 ppm	0.3370 ppm	1.2773 ppm	280.4226 ppm	15.7111 ppm	0.2158 ppm
Concentration per Run 1	0.0515 ppm	0.5413 ppm	0.3440 ppm	1.3002 ppm	280.0537 ppm	15.6661 ppm	0.2161 ppm
Concentration per Run 2	0.0506 ppm	0.5299 ppm	0.3359 ppm	1.2753 ppm	280.2152 ppm	15.7334 ppm	0.2172 ppm
Concentration per Run 3	0.0500 ppm	0.5214 ppm	0.3311 ppm	1.2565 ppm	280.9989 ppm	15.7338 ppm	0.2140 ppm
Concentration RSD	1.5 %	1.9 %	1.9 %	1.7 %	0.2 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.0229 ppm	5.6549 ppm	0.9570 ppm	16.1277 ppm	0.7042 ppm	1.0421 ppm	0.3975 ppm
Concentration per Run 1	66.2683 ppm	5.6520 ppm	0.9640 ppm	16.1174 ppm	0.7176 ppm	1.0443 ppm	0.4009 ppm
Concentration per Run 2	64.6941 ppm	5.6669 ppm	0.9557 ppm	16.2197 ppm	0.7018 ppm	1.0430 ppm	0.3964 ppm
Concentration per Run 3	64.1062 ppm	5.6458 ppm	0.9511 ppm	16.0460 ppm	0.6931 ppm	1.0389 ppm	0.3952 ppm
Concentration RSD	1.7 %	0.2 %	0.7 %	0.5 %	1.8 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1179 ppm	26.1411 ppm	0.7443 ppm	1.1629 ppm	1.3554 ppm	0.1151 ppm	0.6392 ppm
Concentration per Run 1	0.1214 ppm	26.7871 ppm	0.7549 ppm	1.1674 ppm	1.3846 ppm	0.1165 ppm	0.6502 ppm
Concentration per Run 2	0.1152 ppm	26.0159 ppm	0.7418 ppm	1.1623 ppm	1.3541 ppm	0.1139 ppm	0.6352 ppm
Concentration per Run 3	0.1172 ppm	25.6204 ppm	0.7363 ppm	1.1591 ppm	1.3276 ppm	0.1149 ppm	0.6324 ppm
Concentration RSD	2.7 %	2.3 %	1.3 %	0.4 %	2.1 %	1.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.4236 ppm	100.6365 %	110.8492 %	90.3069 %	116.5521 %	133.0302 %	121.7609 %
Concentration per Run 1	2.4724 ppm	98.6680 %	111.5053 %	90.1872 %	115.4414 %	133.9458 %	121.9165 %
Concentration per Run 2	2.4122 ppm	101.0609 %	110.4128 %	90.4247 %	117.0586 %	132.7114 %	122.1619 %
Concentration per Run 3	2.3863 ppm	102.1806 %	110.6296 %	90.3088 %	117.1562 %	132.4334 %	121.2044 %
Concentration RSD	1.8 %	1.8 %	0.5 %	0.1 %	0.8 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933863-4D2 WG1933863
Analysis started at: 6/14/2024 11:48:39 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0218 ppm	112.5184 ppm	0.1365 ppm	0.0399 ppm	0.5596 ppm	0.0053 ppm	318.1926 ppm
Concentration per Run 1	0.0219 ppm	112.5732 ppm	0.1357 ppm	0.0399 ppm	0.5588 ppm	0.0054 ppm	318.0947 ppm
Concentration per Run 2	0.0214 ppm	112.4267 ppm	0.1354 ppm	0.0403 ppm	0.5581 ppm	0.0053 ppm	318.8862 ppm
Concentration per Run 3	0.0221 ppm	112.5554 ppm	0.1384 ppm	0.0395 ppm	0.5620 ppm	0.0053 ppm	317.5970 ppm
Concentration RSD	1.7 %	0.1 %	1.2 %	0.9 %	0.4 %	0.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.1158 ppm	0.2542 ppm	0.9168 ppm	346.5602 ppm	6.4426 ppm	0.2305 ppm
Concentration per Run 1	0.0046 ppm	0.1168 ppm	0.2579 ppm	0.9281 ppm	346.8898 ppm	6.5056 ppm	0.2316 ppm
Concentration per Run 2	0.0046 ppm	0.1156 ppm	0.2531 ppm	0.9132 ppm	346.3514 ppm	6.4120 ppm	0.2288 ppm
Concentration per Run 3	0.0044 ppm	0.1150 ppm	0.2515 ppm	0.9090 ppm	346.4395 ppm	6.4103 ppm	0.2311 ppm
Concentration RSD	2.6 %	0.8 %	1.3 %	1.1 %	0.1 %	0.8 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	94.8287 ppm	7.9198 ppm	0.0510 ppm	7.2861 ppm	0.3638 ppm	0.2907 ppm	0.0177 ppm
Concentration per Run 1	96.0026 ppm	7.9272 ppm	0.0505 ppm	7.2861 ppm	0.3676 ppm	0.2893 ppm	0.0185 ppm
Concentration per Run 2	94.6308 ppm	7.9182 ppm	0.0514 ppm	7.3014 ppm	0.3647 ppm	0.2914 ppm	0.0178 ppm
Concentration per Run 3	93.8528 ppm	7.9142 ppm	0.0510 ppm	7.2709 ppm	0.3591 ppm	0.2913 ppm	0.0168 ppm
Concentration RSD	1.1 %	0.1 %	1.0 %	0.2 %	1.2 %	0.4 %	4.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	19.7541 ppm	0.0254 ppm	0.4294 ppm	0.5462 ppm	0.0029 ppm	0.1921 ppm
Concentration per Run 1	0.0006 ppm	20.1876 ppm	0.0249 ppm	0.4293 ppm	0.5501 ppm	0.0034 ppm	0.1938 ppm
Concentration per Run 2	0.0001 ppm	19.6532 ppm	0.0269 ppm	0.4302 ppm	0.5449 ppm	0.0036 ppm	0.1923 ppm
Concentration per Run 3	-0.0025 ppm	19.4216 ppm	0.0245 ppm	0.4287 ppm	0.5437 ppm	0.0018 ppm	0.1904 ppm
Concentration RSD	265.8 %	2.0 %	5.1 %	0.2 %	0.6 %	34.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7493 ppm	101.7450 %	112.1623 %	89.7879 %	127.7586 %	147.2780 %	132.6424 %
Concentration per Run 1	1.7734 ppm	100.8964 %	111.8071 %	89.8844 %	128.0944 %	146.8113 %	133.4670 %
Concentration per Run 2	1.7439 ppm	101.7238 %	112.0200 %	89.9170 %	127.4267 %	147.4071 %	132.5476 %
Concentration per Run 3	1.7305 ppm	102.6148 %	112.6599 %	89.5625 %	127.7546 %	147.6157 %	131.9126 %
Concentration RSD	1.3 %	0.8 %	0.4 %	0.2 %	0.3 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933863-5D2 WG1933863
Analysis started at: 6/14/2024 11:52:37 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0662 ppm	106.9996 ppm	0.2557 ppm	0.9424 ppm	2.3785 ppm	0.0519 ppm	429.9970 ppm
Concentration per Run 1	0.0670 ppm	106.7518 ppm	0.2578 ppm	0.9603 ppm	2.3720 ppm	0.0521 ppm	430.2615 ppm
Concentration per Run 2	0.0659 ppm	106.5882 ppm	0.2555 ppm	0.9332 ppm	2.3728 ppm	0.0518 ppm	430.3085 ppm
Concentration per Run 3	0.0656 ppm	107.6588 ppm	0.2540 ppm	0.9338 ppm	2.3907 ppm	0.0516 ppm	429.4210 ppm
Concentration RSD	1.1 %	0.5 %	0.7 %	1.6 %	0.4 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.5389 ppm	0.3614 ppm	1.0060 ppm	283.2831 ppm	16.8235 ppm	0.2165 ppm
Concentration per Run 1	0.0499 ppm	0.5481 ppm	0.3677 ppm	1.0240 ppm	283.7040 ppm	16.7579 ppm	0.2160 ppm
Concentration per Run 2	0.0488 ppm	0.5354 ppm	0.3588 ppm	1.0000 ppm	283.7513 ppm	16.7844 ppm	0.2141 ppm
Concentration per Run 3	0.0487 ppm	0.5333 ppm	0.3577 ppm	0.9938 ppm	282.3939 ppm	16.9282 ppm	0.2193 ppm
Concentration RSD	1.4 %	1.5 %	1.5 %	1.6 %	0.3 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	98.2088 ppm	7.7906 ppm	0.9233 ppm	17.7409 ppm	0.7318 ppm	0.7573 ppm	0.4425 ppm
Concentration per Run 1	99.7087 ppm	7.7830 ppm	0.9204 ppm	17.9239 ppm	0.7459 ppm	0.7603 ppm	0.4488 ppm
Concentration per Run 2	97.8812 ppm	7.7757 ppm	0.9183 ppm	17.7861 ppm	0.7253 ppm	0.7572 ppm	0.4436 ppm
Concentration per Run 3	97.0365 ppm	7.8131 ppm	0.9314 ppm	17.5129 ppm	0.7243 ppm	0.7545 ppm	0.4353 ppm
Concentration RSD	1.4 %	0.3 %	0.8 %	1.2 %	1.7 %	0.4 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1176 ppm	28.0361 ppm	0.7081 ppm	1.4726 ppm	1.6245 ppm	0.1170 ppm	0.6300 ppm
Concentration per Run 1	0.1161 ppm	28.6593 ppm	0.7150 ppm	1.4848 ppm	1.6511 ppm	0.1154 ppm	0.6379 ppm
Concentration per Run 2	0.1190 ppm	27.7351 ppm	0.7021 ppm	1.4792 ppm	1.6175 ppm	0.1180 ppm	0.6283 ppm
Concentration per Run 3	0.1178 ppm	27.7139 ppm	0.7070 ppm	1.4540 ppm	1.6049 ppm	0.1176 ppm	0.6237 ppm
Concentration RSD	1.2 %	1.9 %	0.9 %	1.1 %	1.5 %	1.2 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0981 ppm	99.5293 %	109.8203 %	86.8555 %	122.4278 %	141.2065 %	126.3386 %
Concentration per Run 1	2.1392 ppm	98.3391 %	109.5053 %	86.6139 %	122.1570 %	141.3290 %	125.9522 %
Concentration per Run 2	2.0824 ppm	99.7881 %	109.6072 %	86.7183 %	122.3534 %	141.0683 %	126.2489 %
Concentration per Run 3	2.0726 ppm	100.4609 %	110.3484 %	87.2343 %	122.7729 %	141.2224 %	126.8147 %
Concentration RSD	1.7 %	1.1 %	0.4 %	0.4 %	0.3 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933863-6D10 WG1933863
Analysis started at: 6/14/2024 11:56:34 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0044 ppm	23.2686 ppm	0.0264 ppm	0.0128 ppm	0.1219 ppm	0.0013 ppm	96.3431 ppm
Concentration per Run 1	0.0042 ppm	23.2441 ppm	0.0268 ppm	0.0137 ppm	0.1223 ppm	0.0012 ppm	96.6245 ppm
Concentration per Run 2	0.0045 ppm	23.3503 ppm	0.0264 ppm	0.0125 ppm	0.1223 ppm	0.0012 ppm	96.2687 ppm
Concentration per Run 3	0.0044 ppm	23.2115 ppm	0.0261 ppm	0.0122 ppm	0.1212 ppm	0.0013 ppm	96.1360 ppm
Concentration RSD	3.3 %	0.3 %	1.2 %	6.3 %	0.5 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0292 ppm	0.0437 ppm	0.1730 ppm	66.5749 ppm	1.5123 ppm	0.0472 ppm
Concentration per Run 1	0.0009 ppm	0.0297 ppm	0.0447 ppm	0.1761 ppm	66.7897 ppm	1.5572 ppm	0.0494 ppm
Concentration per Run 2	0.0009 ppm	0.0296 ppm	0.0436 ppm	0.1729 ppm	66.7725 ppm	1.4908 ppm	0.0474 ppm
Concentration per Run 3	0.0010 ppm	0.0284 ppm	0.0429 ppm	0.1702 ppm	66.1625 ppm	1.4888 ppm	0.0448 ppm
Concentration RSD	9.9 %	2.6 %	2.1 %	1.7 %	0.5 %	2.6 %	4.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.8791 ppm	1.6793 ppm	0.0140 ppm	1.5816 ppm	0.0740 ppm	0.0568 ppm	0.0052 ppm
Concentration per Run 1	21.4341 ppm	1.6855 ppm	0.0142 ppm	1.5832 ppm	0.0756 ppm	0.0571 ppm	0.0066 ppm
Concentration per Run 2	20.7552 ppm	1.6801 ppm	0.0141 ppm	1.5824 ppm	0.0738 ppm	0.0571 ppm	0.0020 ppm
Concentration per Run 3	20.4480 ppm	1.6725 ppm	0.0136 ppm	1.5792 ppm	0.0726 ppm	0.0562 ppm	0.0071 ppm
Concentration RSD	2.4 %	0.4 %	2.1 %	0.1 %	2.0 %	1.0 %	53.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	5.9550 ppm	0.0060 ppm	0.1090 ppm	0.1562 ppm	0.0000 ppm	0.0407 ppm
Concentration per Run 1	0.0007 ppm	6.0817 ppm	0.0058 ppm	0.1090 ppm	0.1628 ppm	-0.0002 ppm	0.0418 ppm
Concentration per Run 2	-0.0021 ppm	5.9605 ppm	0.0064 ppm	0.1092 ppm	0.1551 ppm	0.0012 ppm	0.0405 ppm
Concentration per Run 3	0.0020 ppm	5.8229 ppm	0.0059 ppm	0.1089 ppm	0.1505 ppm	-0.0010 ppm	0.0398 ppm
Concentration RSD	973.8 %	2.2 %	5.3 %	0.1 %	4.0 %	23,464.4 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3975 ppm	98.3071 %	106.2468 %	95.3986 %	100.6032 %	110.2765 %	104.6536 %
Concentration per Run 1	0.4051 ppm	95.5694 %	105.1034 %	94.8646 %	98.9144 %	109.4783 %	104.3795 %
Concentration per Run 2	0.3977 ppm	99.1904 %	106.7494 %	95.6124 %	101.5217 %	110.8232 %	105.1517 %
Concentration per Run 3	0.3895 ppm	100.1613 %	106.8875 %	95.7187 %	101.3734 %	110.5279 %	104.4296 %
Concentration RSD	2.0 %	2.5 %	0.9 %	0.5 %	1.5 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 12:00:33 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4718 ppm	0.4708 ppm	0.4939 ppm	0.5012 ppm	0.5018 ppm	0.4906 ppm
Concentration per Run 1	0.5130 ppm	0.4803 ppm	0.4741 ppm	0.5026 ppm	0.5009 ppm	0.5009 ppm	0.4915 ppm
Concentration per Run 2	0.5003 ppm	0.4706 ppm	0.4705 ppm	0.4908 ppm	0.5019 ppm	0.5036 ppm	0.4906 ppm
Concentration per Run 3	0.4938 ppm	0.4644 ppm	0.4677 ppm	0.4882 ppm	0.5007 ppm	0.5009 ppm	0.4897 ppm
Recovery Percentage 1	100.475 %	94.354 %	94.151 %	98.774 %	100.237 %	100.359 %	98.122 %
Concentration RSD	1.9 %	1.7 %	0.7 %	1.6 %	0.1 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4941 ppm	0.5109 ppm	0.4906 ppm	0.4933 ppm	0.5168 ppm	5.0134 ppm	0.4745 ppm
Concentration per Run 1	0.5046 ppm	0.5213 ppm	0.5006 ppm	0.5040 ppm	0.5148 ppm	5.0214 ppm	0.4760 ppm
Concentration per Run 2	0.4927 ppm	0.5099 ppm	0.4888 ppm	0.4917 ppm	0.5193 ppm	5.0337 ppm	0.4746 ppm
Concentration per Run 3	0.4850 ppm	0.5013 ppm	0.4823 ppm	0.4844 ppm	0.5161 ppm	4.9852 ppm	0.4729 ppm
Recovery Percentage 1	98.817 %	102.174 %	98.116 %	98.668 %	103.350 %	100.268 %	94.903 %
Concentration RSD	2.0 %	2.0 %	1.9 %	2.0 %	0.4 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4966 ppm	0.4855 ppm	0.4929 ppm	10.0118 ppm	0.5097 ppm	0.4832 ppm	0.4915 ppm
Concentration per Run 1	0.5102 ppm	0.4876 ppm	0.4968 ppm	10.0488 ppm	0.5221 ppm	0.4862 ppm	0.4996 ppm
Concentration per Run 2	0.4931 ppm	0.4849 ppm	0.4932 ppm	10.0208 ppm	0.5080 ppm	0.4822 ppm	0.4902 ppm
Concentration per Run 3	0.4866 ppm	0.4841 ppm	0.4888 ppm	9.9660 ppm	0.4991 ppm	0.4813 ppm	0.4847 ppm
Recovery Percentage 1	99.326 %	97.108 %	98.582 %	100.118 %	101.946 %	96.645 %	98.301 %
Concentration RSD	2.4 %	0.4 %	0.8 %	0.4 %	2.3 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4809 ppm	5.1450 ppm	0.5134 ppm	0.5087 ppm	0.4991 ppm	0.4821 ppm	0.4950 ppm
Concentration per Run 1	0.4839 ppm	5.2501 ppm	0.5167 ppm	0.5081 ppm	0.5097 ppm	0.4873 ppm	0.5049 ppm
Concentration per Run 2	0.4790 ppm	5.1334 ppm	0.5114 ppm	0.5103 ppm	0.4969 ppm	0.4805 ppm	0.4938 ppm
Concentration per Run 3	0.4796 ppm	5.0516 ppm	0.5120 ppm	0.5078 ppm	0.4908 ppm	0.4787 ppm	0.4862 ppm
Recovery Percentage 1	96.170 %	98.001 %	102.672 %	101.745 %	99.829 %	96.428 %	98.991 %
Concentration RSD	0.6 %	1.9 %	0.6 %	0.3 %	1.9 %	0.9 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5071 ppm	99.6474 %	106.2938 %	101.0413 %	96.5172 %	102.9534 %	99.8450 %
Concentration per Run 1	0.5177 ppm	97.3435 %	106.7036 %	100.6716 %	95.5609 %	103.7123 %	100.2509 %
Concentration per Run 2	0.5070 ppm	100.2566 %	106.5479 %	100.9272 %	97.0832 %	103.1690 %	99.7354 %
Concentration per Run 3	0.4967 ppm	101.3419 %	105.6300 %	101.5253 %	96.9075 %	101.9788 %	99.5487 %
Recovery Percentage 1	101.426 %						
Concentration RSD	2.1 %	2.1 %	0.5 %	0.4 %	0.9 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 12:04:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0107 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 1	-0.0002 ppm	-0.0130 ppm	-0.0010 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 2	-0.0003 ppm	-0.0124 ppm	0.0022 ppm	0.0008 ppm	-0.0001 ppm	-0.0001 ppm	0.0088 ppm
Concentration per Run 3	0.0001 ppm	-0.0068 ppm	-0.0007 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0074 ppm
Recovery Percentage 1	-2.035 %	-10.728 %	5.655 %	3.125 %	-0.272 %	-0.217 %	6.611 %
Concentration RSD	129.0 %	32.1 %	1,017.6 %	12.6 %	319.4 %	780.6 %	41.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0006 ppm	0.0060 ppm	0.0060 ppm	-0.0040 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	-0.0002 ppm	0.0008 ppm	0.0047 ppm	0.0298 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0068 ppm	-0.0029 ppm	-0.0053 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0004 ppm	0.0003 ppm	0.0065 ppm	-0.0088 ppm	-0.0039 ppm
Recovery Percentage 1	-0.158 %	4.832 %	0.327 %	5.557 %	11.997 %	0.240 %	-40.368 %
Concentration RSD	240.6 %	62.1 %	932.1 %	47.8 %	19.3 %	346.9 %	28.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0003 ppm	0.0017 ppm	0.0014 ppm	0.0002 ppm	0.0003 ppm	0.0025 ppm
Concentration per Run 1	0.0015 ppm	0.0006 ppm	0.0016 ppm	0.0028 ppm	-0.0001 ppm	0.0008 ppm	0.0042 ppm
Concentration per Run 2	-0.0014 ppm	0.0001 ppm	0.0015 ppm	-0.0012 ppm	0.0004 ppm	0.0005 ppm	0.0019 ppm
Concentration per Run 3	-0.0010 ppm	0.0001 ppm	0.0019 ppm	0.0026 ppm	0.0003 ppm	-0.0004 ppm	0.0015 ppm
Recovery Percentage 1	-0.271 %	2.773 %	3.331 %	0.070 %	0.683 %	3.169 %	5.006 %
Concentration RSD	580.4 %	100.5 %	10.8 %	164.3 %	164.1 %	190.2 %	58.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0069 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0007 ppm	0.0093 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0057 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 3	-0.0005 ppm	0.0056 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	2.562 %	1.376 %	0.820 %	1.800 %	1.826 %	-4.156 %	-2.297 %
Concentration RSD	271.3 %	30.9 %	124.2 %	33.5 %	74.9 %	27.2 %	82.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	94.3519 %	100.3281 %	97.8879 %	97.7688 %	102.2850 %	101.0853 %
Concentration per Run 1	0.0015 ppm	92.5345 %	99.9179 %	96.9729 %	97.2482 %	102.8067 %	101.3546 %
Concentration per Run 2	0.0014 ppm	94.8264 %	100.0241 %	97.8282 %	98.1680 %	102.0367 %	100.7202 %
Concentration per Run 3	0.0011 ppm	95.6950 %	101.0422 %	98.8625 %	97.8903 %	102.0115 %	101.1811 %
Recovery Percentage 1	26.926 %						
Concentration RSD	14.7 %	1.7 %	0.6 %	1.0 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934294-1 WG1934294
Analysis started at: 6/14/2024 12:17:04 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0047 ppm	0.0012 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0304 ppm
Concentration per Run 1	-0.0002 ppm	-0.0020 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0326 ppm
Concentration per Run 2	-0.0001 ppm	-0.0053 ppm	0.0018 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0302 ppm
Concentration per Run 3	-0.0004 ppm	-0.0068 ppm	0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0285 ppm
Recovery Percentage 1	-3.381 %	-4.692 %	41.624 %	2.109 %	-0.085 %	-0.172 %	30.400 %
Concentration RSD	71.6 %	52.8 %	69.6 %	11.8 %	519.3 %	777.6 %	6.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0041 ppm	0.0428 ppm	-0.0027 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0033 ppm	0.0548 ppm	-0.0027 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0037 ppm	0.0215 ppm	-0.0029 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0055 ppm	0.0521 ppm	-0.0024 ppm
Recovery Percentage 1	-0.522 %	0.671 %	3.769 %	0.598 %	8.261 %	1.713 %	-26.589 %
Concentration RSD	214.1 %	190.4 %	23.5 %	369.9 %	28.2 %	43.2 %	8.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0022 ppm	0.0002 ppm	0.0003 ppm	**130.8926 ppm**	0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0028 ppm	0.0000 ppm	0.0005 ppm	130.6074 ppm	-0.0006 ppm	0.0009 ppm	0.0020 ppm
Concentration per Run 2	0.0015 ppm	0.0003 ppm	-0.0002 ppm	131.2767 ppm	0.0008 ppm	-0.0010 ppm	0.0023 ppm
Concentration per Run 3	0.0022 ppm	0.0004 ppm	0.0006 ppm	130.7936 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	2.186 %	2.330 %	0.636 %	6,544.628 %	0.249 %	-0.168 %	3.777 %
Concentration RSD	29.0 %	79.8 %	134.5 %	**0.3 %**	1,160.9 %	5,452.5 %	25.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0178 ppm	0.0020 ppm	0.0000 ppm	0.0003 ppm	-0.0019 ppm	-0.0002 ppm
Concentration per Run 1	0.0008 ppm	0.0157 ppm	0.0011 ppm	0.0000 ppm	0.0007 ppm	-0.0016 ppm	-0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0204 ppm	0.0031 ppm	-0.0001 ppm	-0.0001 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0172 ppm	0.0017 ppm	0.0002 ppm	0.0003 ppm	-0.0025 ppm	-0.0003 ppm
Recovery Percentage 1	3.900 %	3.552 %	3.966 %	0.422 %	3.045 %	-9.686 %	-2.017 %
Concentration RSD	99.1 %	13.5 %	50.1 %	303.2 %	129.7 %	25.2 %	48.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	103.4029 %	103.8539 %	96.9784 %	90.7137 %	97.5661 %	94.6444 %
Concentration per Run 1	0.0005 ppm	103.3308 %	103.8871 %	97.0911 %	90.3012 %	97.5899 %	94.7094 %
Concentration per Run 2	0.0005 ppm	103.6919 %	104.4320 %	96.8267 %	91.0847 %	98.4021 %	94.5042 %
Concentration per Run 3	0.0005 ppm	103.1860 %	103.2426 %	97.0175 %	90.7552 %	96.7063 %	94.7196 %
Recovery Percentage 1	10.149 %						
Concentration RSD	9.1 %	0.3 %	0.6 %	0.1 %	0.4 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934294-2 WG1934294
Analysis started at: 6/14/2024 12:21:16 PM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0454 ppm	1.8700 ppm	0.1165 ppm	0.8567 ppm	1.9180 ppm	0.0481 ppm	9.3852 ppm
Concentration per Run 1	0.0450 ppm	1.8227 ppm	0.1176 ppm	0.8468 ppm	1.8565 ppm	0.0466 ppm	9.1171 ppm
Concentration per Run 2	0.0454 ppm	1.9196 ppm	0.1153 ppm	0.8623 ppm	1.9884 ppm	0.0495 ppm	9.6484 ppm
Concentration per Run 3	0.0458 ppm	1.8678 ppm	0.1166 ppm	0.8609 ppm	1.9091 ppm	0.0482 ppm	9.3902 ppm
Concentration RSD	0.9 %	2.6 %	1.0 %	1.0 %	3.5 %	3.0 %	2.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0479 ppm	0.4503 ppm	0.1783 ppm	0.2282 ppm	0.9735 ppm	9.3730 ppm	-0.0017 ppm
Concentration per Run 1	0.0471 ppm	0.4427 ppm	0.1754 ppm	0.2255 ppm	0.9462 ppm	9.1459 ppm	-0.0009 ppm
Concentration per Run 2	0.0482 ppm	0.4545 ppm	0.1796 ppm	0.2296 ppm	1.0032 ppm	9.6393 ppm	-0.0024 ppm
Concentration per Run 3	0.0486 ppm	0.4538 ppm	0.1801 ppm	0.2296 ppm	0.9710 ppm	9.3338 ppm	-0.0017 ppm
Concentration RSD	1.6 %	1.5 %	1.4 %	1.0 %	2.9 %	2.7 %	43.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.7239 ppm	0.4762 ppm	0.9060 ppm	9.6791 ppm	0.4531 ppm	0.5127 ppm	0.4541 ppm
Concentration per Run 1	8.5713 ppm	0.4620 ppm	0.8844 ppm	9.3962 ppm	0.4460 ppm	0.5118 ppm	0.4518 ppm
Concentration per Run 2	8.8199 ppm	0.4900 ppm	0.9115 ppm	9.9666 ppm	0.4570 ppm	0.5115 ppm	0.4532 ppm
Concentration per Run 3	8.7804 ppm	0.4765 ppm	0.9220 ppm	9.6744 ppm	0.4564 ppm	0.5148 ppm	0.4573 ppm
Concentration RSD	1.5 %	2.9 %	2.1 %	2.9 %	1.4 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1151 ppm	0.9802 ppm	0.9286 ppm	0.9404 ppm	0.8891 ppm	0.1140 ppm	0.4584 ppm
Concentration per Run 1	0.1154 ppm	0.9683 ppm	0.9036 ppm	0.9145 ppm	0.8724 ppm	0.1140 ppm	0.4495 ppm
Concentration per Run 2	0.1106 ppm	0.9840 ppm	0.9428 ppm	0.9678 ppm	0.8989 ppm	0.1134 ppm	0.4641 ppm
Concentration per Run 3	0.1193 ppm	0.9882 ppm	0.9393 ppm	0.9388 ppm	0.8961 ppm	0.1147 ppm	0.4617 ppm
Concentration RSD	3.8 %	1.1 %	2.3 %	2.8 %	1.6 %	0.6 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4527 ppm	103.6147 %	104.3111 %	99.1094 %	95.9992 %	99.2869 %	97.5880 %
Concentration per Run 1	0.4446 ppm	104.8946 %	107.5122 %	98.8281 %	98.2244 %	101.2645 %	97.5564 %
Concentration per Run 2	0.4577 ppm	102.3712 %	101.2356 %	99.5351 %	94.5771 %	96.6794 %	97.8434 %
Concentration per Run 3	0.4558 ppm	103.5782 %	104.1857 %	98.9651 %	95.1960 %	99.9167 %	97.3642 %
Concentration RSD	1.6 %	1.2 %	3.0 %	0.4 %	2.0 %	2.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432985-01 WG1934294
Analysis started at: 6/14/2024 12:26:30 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0279 ppm	0.0011 ppm	0.0032 ppm	0.0472 ppm	0.0000 ppm	12.3709 ppm
Concentration per Run 1	0.0000 ppm	0.0215 ppm	0.0007 ppm	0.0022 ppm	0.0474 ppm	0.0001 ppm	12.3644 ppm
Concentration per Run 2	0.0002 ppm	0.0421 ppm	0.0021 ppm	0.0040 ppm	0.0473 ppm	0.0000 ppm	12.4067 ppm
Concentration per Run 3	-0.0001 ppm	0.0201 ppm	0.0006 ppm	0.0035 ppm	0.0469 ppm	0.0000 ppm	12.3416 ppm
Concentration RSD	775.5 %	44.1 %	77.3 %	28.6 %	0.6 %	241.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0030 ppm	-0.0001 ppm	0.0435 ppm	0.6729 ppm	0.2874 ppm	-0.0011 ppm
Concentration per Run 1	0.0003 ppm	0.0030 ppm	-0.0004 ppm	0.0435 ppm	0.6702 ppm	0.3066 ppm	-0.0009 ppm
Concentration per Run 2	0.0003 ppm	0.0031 ppm	0.0000 ppm	0.0436 ppm	0.6770 ppm	0.2765 ppm	-0.0018 ppm
Concentration per Run 3	0.0004 ppm	0.0027 ppm	0.0001 ppm	0.0434 ppm	0.6715 ppm	0.2790 ppm	-0.0006 ppm
Concentration RSD	18.9 %	6.5 %	259.2 %	0.2 %	0.5 %	5.8 %	56.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9264 ppm	0.3985 ppm	0.0015 ppm	130.4925 ppm	0.0029 ppm	0.0266 ppm	0.0013 ppm
Concentration per Run 1	0.9270 ppm	0.3989 ppm	0.0015 ppm	130.3992 ppm	0.0030 ppm	0.0258 ppm	0.0011 ppm
Concentration per Run 2	0.9279 ppm	0.3985 ppm	0.0012 ppm	130.4350 ppm	0.0021 ppm	0.0272 ppm	0.0035 ppm
Concentration per Run 3	0.9244 ppm	0.3982 ppm	0.0019 ppm	130.6435 ppm	0.0035 ppm	0.0267 ppm	-0.0005 ppm
Concentration RSD	0.2 %	0.1 %	21.6 %	0.1 %	24.3 %	2.7 %	148.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.3103 ppm	0.0015 ppm	0.0519 ppm	0.0002 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.3117 ppm	0.0010 ppm	0.0520 ppm	0.0003 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0007 ppm	0.3122 ppm	0.0014 ppm	0.0518 ppm	0.0000 ppm	-0.0023 ppm	-0.0003 ppm
Concentration per Run 3	0.0013 ppm	0.3069 ppm	0.0020 ppm	0.0519 ppm	0.0002 ppm	-0.0018 ppm	0.0000 ppm
Concentration RSD	187.3 %	0.9 %	35.7 %	0.2 %	102.8 %	40.0 %	108.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0810 ppm	101.3405 %	103.0343 %	95.6019 %	91.0203 %	97.7463 %	94.1630 %
Concentration per Run 1	0.0807 ppm	101.1840 %	102.9206 %	95.1570 %	91.0447 %	97.4529 %	93.4673 %
Concentration per Run 2	0.0811 ppm	101.2536 %	102.7838 %	95.9411 %	90.9668 %	97.7203 %	94.6215 %
Concentration per Run 3	0.0811 ppm	101.5840 %	103.3984 %	95.7075 %	91.0494 %	98.0656 %	94.4003 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.4 %	0.1 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934294-3 WG1934294
Analysis started at: 6/14/2024 12:30:38 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0450 ppm	1.8127 ppm	0.1174 ppm	0.8554 ppm	1.8597 ppm	0.0462 ppm	20.7721 ppm
Concentration per Run 1	0.0454 ppm	1.8141 ppm	0.1189 ppm	0.8622 ppm	1.8594 ppm	0.0463 ppm	20.7898 ppm
Concentration per Run 2	0.0449 ppm	1.8113 ppm	0.1168 ppm	0.8522 ppm	1.8666 ppm	0.0462 ppm	20.8109 ppm
Concentration per Run 3	0.0446 ppm	1.8128 ppm	0.1165 ppm	0.8518 ppm	1.8531 ppm	0.0462 ppm	20.7156 ppm
Concentration RSD	0.9 %	0.1 %	1.1 %	0.7 %	0.4 %	0.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0479 ppm	0.4427 ppm	0.1763 ppm	0.2673 ppm	1.6933 ppm	9.3170 ppm	-0.0003 ppm
Concentration per Run 1	0.0486 ppm	0.4470 ppm	0.1781 ppm	0.2696 ppm	1.6963 ppm	9.3655 ppm	0.0005 ppm
Concentration per Run 2	0.0476 ppm	0.4415 ppm	0.1756 ppm	0.2664 ppm	1.6940 ppm	9.3253 ppm	0.0001 ppm
Concentration per Run 3	0.0476 ppm	0.4395 ppm	0.1752 ppm	0.2659 ppm	1.6896 ppm	9.2603 ppm	-0.0014 ppm
Concentration RSD	1.2 %	0.9 %	0.9 %	0.7 %	0.2 %	0.6 %	342.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3120 ppm	0.8396 ppm	0.9054 ppm	134.7473 ppm	0.4501 ppm	0.5199 ppm	0.4520 ppm
Concentration per Run 1	9.4418 ppm	0.8399 ppm	0.9060 ppm	134.7775 ppm	0.4548 ppm	0.5236 ppm	0.4523 ppm
Concentration per Run 2	9.2638 ppm	0.8405 ppm	0.9023 ppm	134.9425 ppm	0.4469 ppm	0.5178 ppm	0.4529 ppm
Concentration per Run 3	9.2305 ppm	0.8385 ppm	0.9081 ppm	134.5217 ppm	0.4486 ppm	0.5182 ppm	0.4506 ppm
Concentration RSD	1.2 %	0.1 %	0.3 %	0.2 %	0.9 %	0.6 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1157 ppm	1.2988 ppm	0.9188 ppm	0.9364 ppm	0.8892 ppm	0.1072 ppm	0.4568 ppm
Concentration per Run 1	0.1163 ppm	1.3166 ppm	0.9170 ppm	0.9380 ppm	0.8986 ppm	0.1070 ppm	0.4613 ppm
Concentration per Run 2	0.1156 ppm	1.2956 ppm	0.9209 ppm	0.9380 ppm	0.8869 ppm	0.1077 ppm	0.4553 ppm
Concentration per Run 3	0.1154 ppm	1.2841 ppm	0.9185 ppm	0.9333 ppm	0.8821 ppm	0.1067 ppm	0.4539 ppm
Concentration RSD	0.4 %	1.3 %	0.2 %	0.3 %	1.0 %	0.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5373 ppm	97.4757 %	103.7870 %	93.9744 %	89.8522 %	98.8630 %	94.2771 %
Concentration per Run 1	0.5422 ppm	95.8861 %	103.6541 %	93.9330 %	89.0458 %	98.9304 %	94.3959 %
Concentration per Run 2	0.5357 ppm	98.0584 %	103.4949 %	94.0560 %	90.2548 %	98.7287 %	94.3968 %
Concentration per Run 3	0.5341 ppm	98.4827 %	104.2120 %	93.9342 %	90.2561 %	98.9298 %	94.0387 %
Concentration RSD	0.8 %	1.4 %	0.4 %	0.1 %	0.8 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934294-4 WG1934294
Analysis started at: 6/14/2024 12:34:34 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0206 ppm	0.0016 ppm	0.0040 ppm	0.0468 ppm	0.0000 ppm	12.3180 ppm
Concentration per Run 1	-0.0002 ppm	0.0250 ppm	0.0019 ppm	0.0049 ppm	0.0470 ppm	0.0001 ppm	12.3212 ppm
Concentration per Run 2	-0.0002 ppm	0.0222 ppm	0.0017 ppm	0.0036 ppm	0.0465 ppm	0.0000 ppm	12.3302 ppm
Concentration per Run 3	-0.0004 ppm	0.0148 ppm	0.0014 ppm	0.0036 ppm	0.0468 ppm	0.0000 ppm	12.3027 ppm
Concentration RSD	53.5 %	25.6 %	16.1 %	18.3 %	0.6 %	58.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0030 ppm	0.0001 ppm	0.0461 ppm	0.6727 ppm	0.2964 ppm	0.0011 ppm
Concentration per Run 1	0.0002 ppm	0.0033 ppm	0.0001 ppm	0.0467 ppm	0.6779 ppm	0.2827 ppm	0.0010 ppm
Concentration per Run 2	0.0003 ppm	0.0032 ppm	0.0001 ppm	0.0459 ppm	0.6698 ppm	0.2966 ppm	0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0027 ppm	0.0001 ppm	0.0456 ppm	0.6705 ppm	0.3100 ppm	0.0015 ppm
Concentration RSD	25.4 %	11.4 %	22.7 %	1.3 %	0.7 %	4.6 %	30.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9698 ppm	0.3985 ppm	0.0023 ppm	130.1200 ppm	0.0033 ppm	0.0277 ppm	0.0013 ppm
Concentration per Run 1	0.9840 ppm	0.4000 ppm	0.0027 ppm	130.3850 ppm	0.0032 ppm	0.0275 ppm	0.0036 ppm
Concentration per Run 2	0.9666 ppm	0.3973 ppm	0.0020 ppm	130.0505 ppm	0.0036 ppm	0.0286 ppm	0.0014 ppm
Concentration per Run 3	0.9589 ppm	0.3981 ppm	0.0022 ppm	129.9246 ppm	0.0032 ppm	0.0268 ppm	-0.0011 ppm
Concentration RSD	1.3 %	0.3 %	17.1 %	0.2 %	6.8 %	3.3 %	176.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	0.3238 ppm	0.0019 ppm	0.0519 ppm	0.0002 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0027 ppm	0.3314 ppm	0.0018 ppm	0.0523 ppm	0.0005 ppm	-0.0023 ppm	0.0000 ppm
Concentration per Run 2	0.0013 ppm	0.3214 ppm	0.0021 ppm	0.0518 ppm	0.0001 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.3185 ppm	0.0018 ppm	0.0515 ppm	0.0001 ppm	-0.0023 ppm	0.0000 ppm
Concentration RSD	92.1 %	2.1 %	8.7 %	0.8 %	92.2 %	58.9 %	146.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0845 ppm	96.5338 %	103.2497 %	94.2842 %	89.3640 %	98.5569 %	93.5412 %
Concentration per Run 1	0.0857 ppm	94.9128 %	103.3973 %	94.0684 %	88.6451 %	99.0584 %	93.4611 %
Concentration per Run 2	0.0839 ppm	97.3334 %	102.9398 %	94.1185 %	90.1053 %	98.0615 %	93.5243 %
Concentration per Run 3	0.0839 ppm	97.3551 %	103.4119 %	94.6656 %	89.3415 %	98.5508 %	93.6381 %
Concentration RSD	1.2 %	1.5 %	0.3 %	0.4 %	0.8 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431859-01D4 WG1933863
Analysis started at: 6/14/2024 12:38:31 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	19.8476 ppm	0.0299 ppm	0.0268 ppm	0.2065 ppm	0.0011 ppm	814.1055 ppm
Concentration per Run 1	-0.0005 ppm	19.9315 ppm	0.0291 ppm	0.0285 ppm	0.2058 ppm	0.0011 ppm	815.2466 ppm
Concentration per Run 2	-0.0006 ppm	19.7901 ppm	0.0300 ppm	0.0264 ppm	0.2065 ppm	0.0011 ppm	813.4221 ppm
Concentration per Run 3	-0.0005 ppm	19.8211 ppm	0.0306 ppm	0.0256 ppm	0.2072 ppm	0.0011 ppm	813.6479 ppm
Concentration RSD	17.4 %	0.4 %	2.6 %	5.5 %	0.3 %	2.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0216 ppm	0.0385 ppm	0.3350 ppm	51.8588 ppm	3.6298 ppm	0.0292 ppm
Concentration per Run 1	0.0016 ppm	0.0220 ppm	0.0391 ppm	0.3420 ppm	51.8177 ppm	3.6833 ppm	0.0315 ppm
Concentration per Run 2	0.0017 ppm	0.0217 ppm	0.0385 ppm	0.3340 ppm	51.8274 ppm	3.6008 ppm	0.0282 ppm
Concentration per Run 3	0.0017 ppm	0.0212 ppm	0.0378 ppm	0.3289 ppm	51.9312 ppm	3.6052 ppm	0.0278 ppm
Concentration RSD	3.4 %	1.9 %	1.7 %	2.0 %	0.1 %	1.3 %	6.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	173.9784 ppm	2.2854 ppm	0.0038 ppm	1.5199 ppm	0.0373 ppm	0.1041 ppm	0.0010 ppm
Concentration per Run 1	178.6608 ppm	2.2863 ppm	0.0040 ppm	1.5219 ppm	0.0382 ppm	0.1038 ppm	-0.0031 ppm
Concentration per Run 2	172.8869 ppm	2.2820 ppm	0.0038 ppm	1.5238 ppm	0.0373 ppm	0.1043 ppm	0.0032 ppm
Concentration per Run 3	170.3877 ppm	2.2879 ppm	0.0038 ppm	1.5141 ppm	0.0364 ppm	0.1043 ppm	0.0029 ppm
Concentration RSD	2.4 %	0.1 %	3.4 %	0.3 %	2.4 %	0.3 %	358.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0082 ppm	9.4344 ppm	0.0024 ppm	0.8198 ppm	0.4930 ppm	0.0008 ppm	0.0604 ppm
Concentration per Run 1	-0.0096 ppm	9.7380 ppm	0.0023 ppm	0.8203 ppm	0.5033 ppm	0.0017 ppm	0.0619 ppm
Concentration per Run 2	-0.0080 ppm	9.3400 ppm	0.0025 ppm	0.8191 ppm	0.4918 ppm	0.0004 ppm	0.0601 ppm
Concentration per Run 3	-0.0068 ppm	9.2251 ppm	0.0025 ppm	0.8201 ppm	0.4839 ppm	0.0002 ppm	0.0592 ppm
Concentration RSD	16.8 %	2.9 %	4.9 %	0.1 %	2.0 %	102.4 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5687 ppm	89.0222 %	100.8695 %	81.6951 %	97.2589 %	111.9399 %	100.7555 %
Concentration per Run 1	0.5824 ppm	86.7207 %	100.4755 %	81.1925 %	95.8530 %	112.0269 %	100.7123 %
Concentration per Run 2	0.5633 ppm	89.4732 %	101.1214 %	81.6729 %	97.8959 %	111.9460 %	100.6650 %
Concentration per Run 3	0.5605 ppm	90.8726 %	101.0115 %	82.2198 %	98.0280 %	111.8470 %	100.8890 %
Concentration RSD	2.1 %	2.4 %	0.3 %	0.6 %	1.3 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431904-01D2 WG1933863
Analysis started at: 6/14/2024 12:42:30 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	94.0121 ppm	0.1496 ppm	0.0052 ppm	0.2102 ppm	0.0046 ppm	10.6206 ppm
Concentration per Run 1	-0.0007 ppm	93.2449 ppm	0.1526 ppm	0.0059 ppm	0.2098 ppm	0.0047 ppm	10.6692 ppm
Concentration per Run 2	-0.0001 ppm	94.3094 ppm	0.1478 ppm	0.0052 ppm	0.2110 ppm	0.0045 ppm	10.5686 ppm
Concentration per Run 3	-0.0005 ppm	94.4822 ppm	0.1484 ppm	0.0043 ppm	0.2097 ppm	0.0045 ppm	10.6239 ppm
Concentration RSD	70.7 %	0.7 %	1.8 %	15.8 %	0.3 %	2.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.1165 ppm	0.1566 ppm	0.2487 ppm	264.2868 ppm	4.8721 ppm	0.1411 ppm
Concentration per Run 1	0.0008 ppm	0.1186 ppm	0.1595 ppm	0.2513 ppm	265.0287 ppm	4.7817 ppm	0.1371 ppm
Concentration per Run 2	0.0007 ppm	0.1172 ppm	0.1558 ppm	0.2491 ppm	263.6885 ppm	4.9423 ppm	0.1444 ppm
Concentration per Run 3	0.0010 ppm	0.1139 ppm	0.1547 ppm	0.2457 ppm	264.1430 ppm	4.8921 ppm	0.1419 ppm
Concentration RSD	19.7 %	2.1 %	1.6 %	1.1 %	0.3 %	1.7 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.7477 ppm	3.5291 ppm	0.0072 ppm	0.9372 ppm	0.1641 ppm	0.0929 ppm	0.0057 ppm
Concentration per Run 1	26.1424 ppm	3.5284 ppm	0.0068 ppm	0.9545 ppm	0.1663 ppm	0.0944 ppm	0.0057 ppm
Concentration per Run 2	25.6988 ppm	3.5222 ppm	0.0073 ppm	0.9307 ppm	0.1641 ppm	0.0928 ppm	0.0069 ppm
Concentration per Run 3	25.4018 ppm	3.5368 ppm	0.0076 ppm	0.9262 ppm	0.1619 ppm	0.0914 ppm	0.0043 ppm
Concentration RSD	1.4 %	0.2 %	5.8 %	1.6 %	1.3 %	1.6 %	22.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	7.3019 ppm	0.0047 ppm	0.0938 ppm	4.2559 ppm	0.0015 ppm	0.2358 ppm
Concentration per Run 1	0.0049 ppm	7.4347 ppm	0.0054 ppm	0.0955 ppm	4.3228 ppm	0.0006 ppm	0.2397 ppm
Concentration per Run 2	0.0005 ppm	7.2912 ppm	0.0046 ppm	0.0929 ppm	4.2351 ppm	0.0010 ppm	0.2356 ppm
Concentration per Run 3	0.0028 ppm	7.1798 ppm	0.0041 ppm	0.0929 ppm	4.2097 ppm	0.0030 ppm	0.2322 ppm
Concentration RSD	79.0 %	1.8 %	13.7 %	1.6 %	1.4 %	85.0 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3949 ppm	103.6756 %	111.3723 %	93.9366 %	111.5343 %	122.9173 %	117.0403 %
Concentration per Run 1	0.3998 ppm	102.1328 %	110.0888 %	93.4405 %	110.5849 %	122.5558 %	117.1883 %
Concentration per Run 2	0.3940 ppm	103.7228 %	112.0997 %	93.9444 %	111.9207 %	123.0739 %	116.9435 %
Concentration per Run 3	0.3908 ppm	105.1712 %	111.9285 %	94.4250 %	112.0972 %	123.1222 %	116.9892 %
Concentration RSD	1.2 %	1.5 %	1.0 %	0.5 %	0.7 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432010-01D2 WG1933863
Analysis started at: 6/14/2024 12:46:26 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	50.0216 ppm	0.0400 ppm	0.0567 ppm	0.4296 ppm	0.0022 ppm	356.3022 ppm
Concentration per Run 1	0.0005 ppm	49.9922 ppm	0.0404 ppm	0.0592 ppm	0.4305 ppm	0.0023 ppm	355.8021 ppm
Concentration per Run 2	0.0000 ppm	50.0404 ppm	0.0391 ppm	0.0557 ppm	0.4287 ppm	0.0022 ppm	356.7425 ppm
Concentration per Run 3	0.0002 ppm	50.0323 ppm	0.0405 ppm	0.0552 ppm	0.4298 ppm	0.0022 ppm	356.3621 ppm
Concentration RSD	103.5 %	0.1 %	1.9 %	3.8 %	0.2 %	2.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.0135 ppm	0.1099 ppm	0.1236 ppm	68.5393 ppm	3.6542 ppm	0.0358 ppm
Concentration per Run 1	0.0026 ppm	0.0136 ppm	0.1129 ppm	0.1267 ppm	68.6657 ppm	3.6686 ppm	0.0379 ppm
Concentration per Run 2	0.0026 ppm	0.0137 ppm	0.1096 ppm	0.1227 ppm	68.5298 ppm	3.6365 ppm	0.0364 ppm
Concentration per Run 3	0.0025 ppm	0.0132 ppm	0.1071 ppm	0.1214 ppm	68.4225 ppm	3.6574 ppm	0.0330 ppm
Concentration RSD	1.0 %	2.0 %	2.6 %	2.2 %	0.2 %	0.4 %	6.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.4688 ppm	1.8602 ppm	0.0036 ppm	0.8533 ppm	0.0358 ppm	0.2096 ppm	0.0029 ppm
Concentration per Run 1	27.0032 ppm	1.8596 ppm	0.0037 ppm	0.8540 ppm	0.0366 ppm	0.2106 ppm	0.0037 ppm
Concentration per Run 2	26.4632 ppm	1.8602 ppm	0.0031 ppm	0.8546 ppm	0.0357 ppm	0.2092 ppm	0.0007 ppm
Concentration per Run 3	25.9399 ppm	1.8607 ppm	0.0040 ppm	0.8514 ppm	0.0351 ppm	0.2089 ppm	0.0043 ppm
Concentration RSD	2.0 %	0.0 %	13.5 %	0.2 %	2.2 %	0.4 %	65.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	11.1752 ppm	0.0068 ppm	1.6981 ppm	1.7370 ppm	0.0001 ppm	0.1281 ppm
Concentration per Run 1	-0.0042 ppm	11.4652 ppm	0.0061 ppm	1.7042 ppm	1.7797 ppm	0.0022 ppm	0.1311 ppm
Concentration per Run 2	-0.0027 ppm	11.1269 ppm	0.0079 ppm	1.6939 ppm	1.7333 ppm	-0.0026 ppm	0.1272 ppm
Concentration per Run 3	-0.0017 ppm	10.9335 ppm	0.0065 ppm	1.6960 ppm	1.6979 ppm	0.0006 ppm	0.1260 ppm
Concentration RSD	43.3 %	2.4 %	14.1 %	0.3 %	2.4 %	3,772.8 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1026 ppm	94.2731 %	106.3771 %	88.0345 %	95.9078 %	108.8626 %	100.2650 %
Concentration per Run 1	1.1298 ppm	92.4729 %	107.1434 %	87.1481 %	95.7873 %	110.1157 %	99.9374 %
Concentration per Run 2	1.0999 ppm	94.3101 %	106.2157 %	88.3965 %	95.8874 %	108.5664 %	100.3576 %
Concentration per Run 3	1.0782 ppm	96.0362 %	105.7721 %	88.5590 %	96.0489 %	107.9057 %	100.4999 %
Concentration RSD	2.3 %	1.9 %	0.7 %	0.9 %	0.1 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432010-02D2 WG1933863
Analysis started at: 6/14/2024 12:50:22 PM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	49.4873 ppm	0.2025 ppm	0.0369 ppm	0.6107 ppm	0.0027 ppm	330.5536 ppm
Concentration per Run 1	0.0009 ppm	49.4659 ppm	0.2012 ppm	0.0378 ppm	0.6117 ppm	0.0027 ppm	330.3051 ppm
Concentration per Run 2	0.0005 ppm	49.5840 ppm	0.2041 ppm	0.0360 ppm	0.6110 ppm	0.0027 ppm	330.6390 ppm
Concentration per Run 3	0.0003 ppm	49.4119 ppm	0.2023 ppm	0.0369 ppm	0.6095 ppm	0.0028 ppm	330.7167 ppm
Concentration RSD	58.5 %	0.2 %	0.7 %	2.5 %	0.2 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0061 ppm	0.0157 ppm	0.1165 ppm	0.1634 ppm	74.5603 ppm	4.0986 ppm	0.0352 ppm
Concentration per Run 1	0.0063 ppm	0.0158 ppm	0.1194 ppm	0.1667 ppm	74.5235 ppm	4.1117 ppm	0.0364 ppm
Concentration per Run 2	0.0061 ppm	0.0162 ppm	0.1160 ppm	0.1625 ppm	74.5039 ppm	4.1072 ppm	0.0354 ppm
Concentration per Run 3	0.0059 ppm	0.0150 ppm	0.1140 ppm	0.1609 ppm	74.6534 ppm	4.0770 ppm	0.0339 ppm
Concentration RSD	3.5 %	4.0 %	2.4 %	1.8 %	0.1 %	0.5 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.4601 ppm	4.4100 ppm	0.0044 ppm	1.0060 ppm	0.0405 ppm	0.2490 ppm	0.0074 ppm
Concentration per Run 1	27.0927 ppm	4.4104 ppm	0.0050 ppm	1.0105 ppm	0.0407 ppm	0.2499 ppm	0.0069 ppm
Concentration per Run 2	26.3806 ppm	4.4160 ppm	0.0039 ppm	1.0013 ppm	0.0414 ppm	0.2487 ppm	0.0076 ppm
Concentration per Run 3	25.9070 ppm	4.4035 ppm	0.0044 ppm	1.0062 ppm	0.0395 ppm	0.2484 ppm	0.0076 ppm
Concentration RSD	2.3 %	0.1 %	11.6 %	0.5 %	2.3 %	0.3 %	5.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	8.5697 ppm	0.0068 ppm	2.0423 ppm	1.6780 ppm	0.0004 ppm	0.1400 ppm
Concentration per Run 1	-0.0019 ppm	8.8332 ppm	0.0065 ppm	2.0388 ppm	1.7250 ppm	0.0004 ppm	0.1428 ppm
Concentration per Run 2	-0.0008 ppm	8.5002 ppm	0.0080 ppm	2.0416 ppm	1.6630 ppm	0.0004 ppm	0.1393 ppm
Concentration per Run 3	-0.0005 ppm	8.3757 ppm	0.0060 ppm	2.0466 ppm	1.6459 ppm	0.0003 ppm	0.1378 ppm
Concentration RSD	68.4 %	2.8 %	14.9 %	0.2 %	2.5 %	26.9 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.1986 ppm	94.6143 %	106.4444 %	88.3940 %	95.6815 %	108.5687 %	99.8641 %
Concentration per Run 1	2.2522 ppm	92.2773 %	107.3417 %	87.6986 %	94.7027 %	110.0225 %	99.8913 %
Concentration per Run 2	2.1911 ppm	94.9287 %	106.0921 %	88.5423 %	95.8173 %	107.9031 %	100.0905 %
Concentration per Run 3	2.1524 ppm	96.6368 %	105.8995 %	88.9411 %	96.5245 %	107.7804 %	99.6105 %
Concentration RSD	2.3 %	2.3 %	0.7 %	0.7 %	1.0 %	1.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432020-01D2 WG1933863
Analysis started at: 6/14/2024 12:54:18 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	64.8541 ppm	0.1001 ppm	0.0200 ppm	1.1409 ppm	0.0040 ppm	67.8747 ppm
Concentration per Run 1	0.0006 ppm	64.6317 ppm	0.0988 ppm	0.0198 ppm	1.1343 ppm	0.0040 ppm	67.6634 ppm
Concentration per Run 2	0.0016 ppm	64.7007 ppm	0.1034 ppm	0.0202 ppm	1.1385 ppm	0.0040 ppm	67.6601 ppm
Concentration per Run 3	0.0007 ppm	65.2301 ppm	0.0981 ppm	0.0201 ppm	1.1499 ppm	0.0040 ppm	68.3005 ppm
Concentration RSD	56.8 %	0.5 %	2.9 %	1.0 %	0.7 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0230 ppm	0.0621 ppm	0.2170 ppm	2.3676 ppm	462.4439 ppm	4.0314 ppm	0.0904 ppm
Concentration per Run 1	0.0233 ppm	0.0630 ppm	0.2197 ppm	2.3909 ppm	461.2870 ppm	4.0456 ppm	0.0903 ppm
Concentration per Run 2	0.0230 ppm	0.0618 ppm	0.2160 ppm	2.3720 ppm	460.7961 ppm	4.0061 ppm	0.0921 ppm
Concentration per Run 3	0.0228 ppm	0.0617 ppm	0.2153 ppm	2.3400 ppm	465.2486 ppm	4.0424 ppm	0.0889 ppm
Concentration RSD	1.2 %	1.1 %	1.1 %	1.1 %	0.5 %	0.5 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.4056 ppm	8.8742 ppm	0.0138 ppm	0.2345 ppm	0.1604 ppm	2.6378 ppm	0.0158 ppm
Concentration per Run 1	21.6889 ppm	8.8436 ppm	0.0138 ppm	0.2324 ppm	0.1627 ppm	2.6383 ppm	0.0168 ppm
Concentration per Run 2	21.3402 ppm	8.8504 ppm	0.0140 ppm	0.2344 ppm	0.1584 ppm	2.6366 ppm	0.0151 ppm
Concentration per Run 3	21.1877 ppm	8.9285 ppm	0.0137 ppm	0.2368 ppm	0.1600 ppm	2.6385 ppm	0.0153 ppm
Concentration RSD	1.2 %	0.5 %	1.1 %	0.9 %	1.3 %	0.0 %	5.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	8.7049 ppm	0.6757 ppm	0.2742 ppm	0.3124 ppm	-0.0010 ppm	0.0986 ppm
Concentration per Run 1	0.0034 ppm	8.8462 ppm	0.6792 ppm	0.2737 ppm	0.3183 ppm	-0.0014 ppm	0.1002 ppm
Concentration per Run 2	0.0035 ppm	8.6836 ppm	0.6712 ppm	0.2735 ppm	0.3111 ppm	0.0006 ppm	0.0975 ppm
Concentration per Run 3	0.0016 ppm	8.5850 ppm	0.6766 ppm	0.2753 ppm	0.3078 ppm	-0.0022 ppm	0.0981 ppm
Concentration RSD	37.5 %	1.5 %	0.6 %	0.4 %	1.7 %	144.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.8553 ppm	102.8393 %	111.3648 %	91.8286 %	110.3565 %	124.7243 %	114.3395 %
Concentration per Run 1	4.9395 ppm	101.4391 %	111.5984 %	92.0529 %	109.6526 %	125.1532 %	114.7020 %
Concentration per Run 2	4.8282 ppm	103.0032 %	112.1655 %	91.6173 %	110.8337 %	125.5024 %	113.9685 %
Concentration per Run 3	4.7982 ppm	104.0757 %	110.3306 %	91.8156 %	110.5832 %	123.5172 %	114.3481 %
Concentration RSD	1.5 %	1.3 %	0.8 %	0.2 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 12:58:15 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4958 ppm	0.4686 ppm	0.4671 ppm	0.4854 ppm	0.4935 ppm	0.5011 ppm	0.4857 ppm
Concentration per Run 1	0.5004 ppm	0.4770 ppm	0.4683 ppm	0.4877 ppm	0.4958 ppm	0.5040 ppm	0.4915 ppm
Concentration per Run 2	0.4955 ppm	0.4603 ppm	0.4678 ppm	0.4855 ppm	0.4915 ppm	0.5005 ppm	0.4862 ppm
Concentration per Run 3	0.4916 ppm	0.4685 ppm	0.4652 ppm	0.4831 ppm	0.4933 ppm	0.4988 ppm	0.4795 ppm
Recovery Percentage 1	99.167 %	93.722 %	93.427 %	97.088 %	98.708 %	100.219 %	97.148 %
Concentration RSD	0.9 %	1.8 %	0.4 %	0.5 %	0.4 %	0.5 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4870 ppm	0.5034 ppm	0.4829 ppm	0.4859 ppm	0.5160 ppm	5.0254 ppm	0.4746 ppm
Concentration per Run 1	0.4939 ppm	0.5101 ppm	0.4900 ppm	0.4926 ppm	0.5178 ppm	5.1013 ppm	0.4802 ppm
Concentration per Run 2	0.4843 ppm	0.5011 ppm	0.4815 ppm	0.4838 ppm	0.5133 ppm	4.9966 ppm	0.4764 ppm
Concentration per Run 3	0.4828 ppm	0.4989 ppm	0.4773 ppm	0.4812 ppm	0.5169 ppm	4.9782 ppm	0.4673 ppm
Recovery Percentage 1	97.397 %	100.673 %	96.588 %	97.171 %	103.199 %	100.507 %	94.927 %
Concentration RSD	1.2 %	1.2 %	1.3 %	1.2 %	0.5 %	1.3 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4861 ppm	0.4860 ppm	0.4838 ppm	10.0000 ppm	0.5052 ppm	0.4823 ppm	0.4820 ppm
Concentration per Run 1	0.4926 ppm	0.4888 ppm	0.4847 ppm	10.0126 ppm	0.5122 ppm	0.4850 ppm	0.4839 ppm
Concentration per Run 2	0.4853 ppm	0.4859 ppm	0.4821 ppm	9.9935 ppm	0.5029 ppm	0.4825 ppm	0.4794 ppm
Concentration per Run 3	0.4804 ppm	0.4832 ppm	0.4847 ppm	9.9939 ppm	0.5004 ppm	0.4795 ppm	0.4828 ppm
Recovery Percentage 1	97.221 %	97.201 %	96.770 %	100.000 %	101.030 %	96.461 %	96.408 %
Concentration RSD	1.3 %	0.6 %	0.3 %	0.1 %	1.2 %	0.6 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4789 ppm	5.0696 ppm	0.5148 ppm	0.5084 ppm	0.4936 ppm	0.4788 ppm	0.4862 ppm
Concentration per Run 1	0.4797 ppm	5.1262 ppm	0.5158 ppm	0.5102 ppm	0.4985 ppm	0.4787 ppm	0.4926 ppm
Concentration per Run 2	0.4802 ppm	5.0525 ppm	0.5124 ppm	0.5080 ppm	0.4925 ppm	0.4792 ppm	0.4855 ppm
Concentration per Run 3	0.4770 ppm	5.0302 ppm	0.5163 ppm	0.5071 ppm	0.4899 ppm	0.4784 ppm	0.4805 ppm
Recovery Percentage 1	95.787 %	96.565 %	102.966 %	101.684 %	98.726 %	95.753 %	97.235 %
Concentration RSD	0.4 %	1.0 %	0.4 %	0.3 %	0.9 %	0.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5009 ppm	101.1285 %	105.7958 %	101.7806 %	96.5683 %	102.0531 %	99.6866 %
Concentration per Run 1	0.5102 ppm	99.5301 %	105.1571 %	101.3023 %	96.2294 %	101.5831 %	99.8511 %
Concentration per Run 2	0.4976 ppm	101.3574 %	106.6724 %	101.8074 %	96.5832 %	102.9615 %	99.5207 %
Concentration per Run 3	0.4947 ppm	102.4979 %	105.5581 %	102.2322 %	96.8923 %	101.6146 %	99.6882 %
Recovery Percentage 1	100.173 %						
Concentration RSD	1.6 %	1.5 %	0.7 %	0.5 %	0.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 1:02:13 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0166 ppm	0.0007 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 1	-0.0007 ppm	-0.0137 ppm	0.0005 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 2	0.0001 ppm	-0.0132 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	0.0002 ppm	-0.0228 ppm	0.0012 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0052 ppm
Recovery Percentage 1	-1.756 %	-16.566 %	23.139 %	2.088 %	-2.381 %	0.072 %	5.335 %
Concentration RSD	404.7 %	32.8 %	61.7 %	137.1 %	80.9 %	499.7 %	5.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0033 ppm	-0.0190 ppm	-0.0034 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0007 ppm	0.0029 ppm	0.0000 ppm	-0.0046 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0026 ppm	-0.0309 ppm	-0.0039 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0044 ppm	-0.0260 ppm	-0.0018 ppm
Recovery Percentage 1	-0.250 %	1.826 %	-0.951 %	5.164 %	6.643 %	-0.759 %	-34.250 %
Concentration RSD	489.5 %	91.7 %	157.4 %	36.8 %	29.3 %	87.5 %	41.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0017 ppm	-0.0050 ppm	-0.0003 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 1	-0.0011 ppm	0.0003 ppm	0.0022 ppm	-0.0033 ppm	-0.0003 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	0.0017 ppm	-0.0043 ppm	-0.0008 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0013 ppm	-0.0073 ppm	0.0002 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	-0.394 %	1.847 %	3.447 %	-0.250 %	-1.191 %	-0.890 %	-0.967 %
Concentration RSD	253.3 %	47.8 %	23.6 %	41.8 %	176.8 %	123.2 %	165.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.0020 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0022 ppm	-0.0003 ppm
Concentration per Run 1	0.0022 ppm	0.0067 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0032 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0014 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	-0.0012 ppm	-0.0005 ppm
Concentration per Run 3	0.0023 ppm	-0.0019 ppm	0.0010 ppm	-0.0001 ppm	0.0001 ppm	-0.0023 ppm	-0.0003 ppm
Recovery Percentage 1	15.700 %	0.409 %	1.255 %	0.458 %	1.934 %	-10.984 %	-3.113 %
Concentration RSD	75.5 %	212.5 %	60.2 %	282.6 %	52.6 %	44.8 %	65.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	96.4199 %	101.3622 %	99.2630 %	97.4689 %	101.2672 %	100.2417 %
Concentration per Run 1	0.0008 ppm	93.8188 %	100.5532 %	98.8925 %	96.7083 %	100.7904 %	100.6706 %
Concentration per Run 2	0.0007 ppm	96.8970 %	101.6220 %	99.3048 %	97.7614 %	101.5402 %	100.1587 %
Concentration per Run 3	0.0005 ppm	98.5440 %	101.9115 %	99.5917 %	97.9368 %	101.4710 %	99.8958 %
Recovery Percentage 1	13.896 %						
Concentration RSD	20.4 %	2.5 %	0.7 %	0.4 %	0.7 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933686-1 WG1933686
Analysis started at: 6/14/2024 1:11:13 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0143 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0247 ppm
Concentration per Run 1	0.0001 ppm	-0.0145 ppm	0.0006 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0275 ppm
Concentration per Run 2	-0.0004 ppm	-0.0146 ppm	0.0000 ppm	0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0228 ppm
Concentration per Run 3	-0.0001 ppm	-0.0136 ppm	0.0006 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0237 ppm
Concentration RSD	242.8 %	3.7 %	85.8 %	1,338.9 %	32.1 %	35.5 %	10.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0232 ppm	-0.0089 ppm	-0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0232 ppm	-0.0085 ppm	-0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0226 ppm	-0.0210 ppm	-0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0005 ppm	0.0006 ppm	0.0237 ppm	0.0028 ppm	-0.0035 ppm
Concentration RSD	147.8 %	463.2 %	99.6 %	76.1 %	2.3 %	133.4 %	27.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0005 ppm	0.0003 ppm	0.0226 ppm	-0.0003 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0026 ppm	0.0003 ppm	0.0005 ppm	0.0188 ppm	0.0001 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 2	0.0039 ppm	0.0007 ppm	0.0001 ppm	0.0218 ppm	-0.0013 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 3	0.0032 ppm	0.0005 ppm	0.0003 ppm	0.0272 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm
Concentration RSD	19.4 %	35.6 %	58.5 %	19.0 %	249.5 %	208.0 %	258.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.0003 ppm	0.0012 ppm	0.0002 ppm	0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0017 ppm	0.0009 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0023 ppm	-0.0008 ppm	0.0014 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0005 ppm	0.0000 ppm	0.0015 ppm	0.0003 ppm	0.0001 ppm	-0.0014 ppm	-0.0002 ppm
Concentration RSD	103.0 %	435.2 %	27.6 %	60.8 %	54.3 %	139.5 %	32.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	98.4649 %	103.0192 %	101.2611 %	99.9089 %	103.2755 %	102.3699 %
Concentration per Run 1	0.0017 ppm	96.7247 %	103.1591 %	100.4135 %	99.4329 %	103.7062 %	102.4235 %
Concentration per Run 2	0.0013 ppm	98.7894 %	102.8470 %	101.5280 %	99.8818 %	103.2354 %	102.4713 %
Concentration per Run 3	0.0014 ppm	99.8805 %	103.0517 %	101.8418 %	100.4120 %	102.8848 %	102.2150 %
Concentration RSD	14.9 %	1.6 %	0.2 %	0.7 %	0.5 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933686-2D2 WG1933686
Analysis started at: 6/14/2024 1:15:31 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	1.9442 ppm	0.1191 ppm	0.9720 ppm	1.9609 ppm	0.0503 ppm	10.0871 ppm
Concentration per Run 1	0.0503 ppm	1.9558 ppm	0.1213 ppm	0.9844 ppm	1.9585 ppm	0.0504 ppm	10.1176 ppm
Concentration per Run 2	0.0494 ppm	1.9429 ppm	0.1187 ppm	0.9691 ppm	1.9656 ppm	0.0503 ppm	10.0646 ppm
Concentration per Run 3	0.0489 ppm	1.9341 ppm	0.1173 ppm	0.9626 ppm	1.9587 ppm	0.0502 ppm	10.0792 ppm
Concentration RSD	1.5 %	0.6 %	1.7 %	1.1 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0524 ppm	0.4904 ppm	0.1937 ppm	0.2474 ppm	1.0219 ppm	10.1348 ppm	-0.0017 ppm
Concentration per Run 1	0.0528 ppm	0.4951 ppm	0.1955 ppm	0.2507 ppm	1.0244 ppm	10.1695 ppm	0.0000 ppm
Concentration per Run 2	0.0521 ppm	0.4897 ppm	0.1933 ppm	0.2468 ppm	1.0240 ppm	10.1567 ppm	-0.0007 ppm
Concentration per Run 3	0.0522 ppm	0.4864 ppm	0.1923 ppm	0.2447 ppm	1.0174 ppm	10.0783 ppm	-0.0046 ppm
Concentration RSD	0.7 %	0.9 %	0.8 %	1.2 %	0.4 %	0.5 %	142.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8726 ppm	0.4967 ppm	1.0073 ppm	10.3395 ppm	0.4956 ppm	0.5353 ppm	0.4971 ppm
Concentration per Run 1	9.9654 ppm	0.4972 ppm	1.0089 ppm	10.3783 ppm	0.5000 ppm	0.5419 ppm	0.5028 ppm
Concentration per Run 2	9.8580 ppm	0.4961 ppm	1.0036 ppm	10.3020 ppm	0.4934 ppm	0.5334 ppm	0.4971 ppm
Concentration per Run 3	9.7944 ppm	0.4968 ppm	1.0094 ppm	10.3381 ppm	0.4934 ppm	0.5305 ppm	0.4912 ppm
Concentration RSD	0.9 %	0.1 %	0.3 %	0.4 %	0.8 %	1.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1206 ppm	0.9537 ppm	1.0052 ppm	0.9963 ppm	1.0003 ppm	0.1180 ppm	0.4952 ppm
Concentration per Run 1	0.1206 ppm	0.9654 ppm	1.0008 ppm	0.9941 ppm	1.0093 ppm	0.1200 ppm	0.5019 ppm
Concentration per Run 2	0.1215 ppm	0.9498 ppm	1.0039 ppm	0.9979 ppm	0.9997 ppm	0.1182 ppm	0.4940 ppm
Concentration per Run 3	0.1196 ppm	0.9460 ppm	1.0108 ppm	0.9969 ppm	0.9921 ppm	0.1157 ppm	0.4896 ppm
Concentration RSD	0.8 %	1.1 %	0.5 %	0.2 %	0.9 %	1.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4978 ppm	99.8867 %	104.9666 %	98.1913 %	95.2847 %	101.0513 %	98.2523 %
Concentration per Run 1	0.5020 ppm	99.0205 %	104.4821 %	97.5951 %	95.5035 %	100.9694 %	98.0902 %
Concentration per Run 2	0.4971 ppm	99.9934 %	105.5313 %	98.2597 %	95.4331 %	101.2147 %	98.2839 %
Concentration per Run 3	0.4942 ppm	100.6463 %	104.8863 %	98.7191 %	94.9176 %	100.9699 %	98.3827 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.6 %	0.3 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432153-01D2 WG1933863
Analysis started at: 6/14/2024 1:19:34 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	5.8482 ppm	0.0145 ppm	0.0019 ppm	0.0137 ppm	0.0003 ppm	0.5931 ppm
Concentration per Run 1	0.0000 ppm	5.8699 ppm	0.0146 ppm	0.0023 ppm	0.0136 ppm	0.0003 ppm	0.5965 ppm
Concentration per Run 2	0.0001 ppm	5.8586 ppm	0.0140 ppm	0.0011 ppm	0.0139 ppm	0.0003 ppm	0.5904 ppm
Concentration per Run 3	-0.0004 ppm	5.8162 ppm	0.0149 ppm	0.0021 ppm	0.0136 ppm	0.0003 ppm	0.5924 ppm
Concentration RSD	360.2 %	0.5 %	3.1 %	35.6 %	1.2 %	3.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0053 ppm	0.0940 ppm	0.0195 ppm	23.6017 ppm	0.4086 ppm	0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0053 ppm	0.0957 ppm	0.0200 ppm	23.6882 ppm	0.4145 ppm	0.0034 ppm
Concentration per Run 2	-0.0001 ppm	0.0055 ppm	0.0941 ppm	0.0194 ppm	23.6830 ppm	0.4096 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	0.0050 ppm	0.0923 ppm	0.0192 ppm	23.4340 ppm	0.4017 ppm	0.0015 ppm
Concentration RSD	334.4 %	4.6 %	1.8 %	2.1 %	0.6 %	1.6 %	38.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8428 ppm	0.2082 ppm	0.0098 ppm	0.6860 ppm	0.0225 ppm	0.0115 ppm	0.0017 ppm
Concentration per Run 1	0.8616 ppm	0.2090 ppm	0.0098 ppm	0.6853 ppm	0.0233 ppm	0.0127 ppm	0.0030 ppm
Concentration per Run 2	0.8430 ppm	0.2082 ppm	0.0101 ppm	0.6831 ppm	0.0224 ppm	0.0107 ppm	0.0011 ppm
Concentration per Run 3	0.8238 ppm	0.2073 ppm	0.0095 ppm	0.6897 ppm	0.0218 ppm	0.0112 ppm	0.0009 ppm
Concentration RSD	2.2 %	0.4 %	2.9 %	0.5 %	3.4 %	8.7 %	72.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	2.2133 ppm	0.0019 ppm	0.0053 ppm	0.2505 ppm	-0.0011 ppm	0.0280 ppm
Concentration per Run 1	0.0015 ppm	2.2652 ppm	0.0029 ppm	0.0053 ppm	0.2593 ppm	-0.0008 ppm	0.0286 ppm
Concentration per Run 2	0.0042 ppm	2.1841 ppm	0.0011 ppm	0.0053 ppm	0.2458 ppm	-0.0012 ppm	0.0276 ppm
Concentration per Run 3	0.0016 ppm	2.1905 ppm	0.0018 ppm	0.0053 ppm	0.2465 ppm	-0.0012 ppm	0.0277 ppm
Concentration RSD	63.6 %	2.0 %	48.2 %	0.7 %	3.0 %	24.8 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0216 ppm	99.0580 %	106.5292 %	100.9825 %	98.7251 %	104.6071 %	102.2650 %
Concentration per Run 1	0.0222 ppm	97.2521 %	105.9712 %	100.1159 %	98.4400 %	104.7989 %	102.2358 %
Concentration per Run 2	0.0216 ppm	98.8807 %	106.3163 %	100.6985 %	98.1961 %	104.2291 %	101.7851 %
Concentration per Run 3	0.0211 ppm	101.0413 %	107.3002 %	102.1330 %	99.5391 %	104.7932 %	102.7742 %
Concentration RSD	2.4 %	1.9 %	0.6 %	1.0 %	0.7 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432154-01D2 WG1933863
Analysis started at: 6/14/2024 1:23:31 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	68.5149 ppm	0.0258 ppm	0.0641 ppm	0.4999 ppm	0.0030 ppm	308.7690 ppm
Concentration per Run 1	-0.0006 ppm	68.1366 ppm	0.0274 ppm	0.0656 ppm	0.4997 ppm	0.0030 ppm	309.3768 ppm
Concentration per Run 2	-0.0007 ppm	69.1596 ppm	0.0251 ppm	0.0645 ppm	0.5050 ppm	0.0028 ppm	307.9775 ppm
Concentration per Run 3	-0.0002 ppm	68.2485 ppm	0.0248 ppm	0.0622 ppm	0.4949 ppm	0.0031 ppm	308.9526 ppm
Concentration RSD	47.0 %	0.8 %	5.7 %	2.8 %	1.0 %	4.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0688 ppm	0.1440 ppm	0.3179 ppm	138.9528 ppm	8.8663 ppm	0.0720 ppm
Concentration per Run 1	0.0012 ppm	0.0703 ppm	0.1463 ppm	0.3241 ppm	139.2401 ppm	8.7243 ppm	0.0686 ppm
Concentration per Run 2	0.0014 ppm	0.0689 ppm	0.1443 ppm	0.3168 ppm	138.3763 ppm	9.0970 ppm	0.0762 ppm
Concentration per Run 3	0.0014 ppm	0.0672 ppm	0.1413 ppm	0.3128 ppm	139.2419 ppm	8.7774 ppm	0.0713 ppm
Concentration RSD	10.1 %	2.2 %	1.7 %	1.8 %	0.4 %	2.3 %	5.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.1408 ppm	3.1932 ppm	0.0086 ppm	4.4606 ppm	0.1110 ppm	0.3397 ppm	0.0053 ppm
Concentration per Run 1	64.3561 ppm	3.1842 ppm	0.0085 ppm	4.5189 ppm	0.1125 ppm	0.3412 ppm	0.0056 ppm
Concentration per Run 2	63.1117 ppm	3.2089 ppm	0.0086 ppm	4.3801 ppm	0.1120 ppm	0.3399 ppm	0.0072 ppm
Concentration per Run 3	61.9547 ppm	3.1866 ppm	0.0088 ppm	4.4829 ppm	0.1086 ppm	0.3381 ppm	0.0029 ppm
Concentration RSD	1.9 %	0.4 %	1.9 %	1.6 %	1.9 %	0.4 %	41.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	7.5367 ppm	0.0286 ppm	1.5147 ppm	3.7374 ppm	0.0011 ppm	0.3539 ppm
Concentration per Run 1	-0.0052 ppm	7.7163 ppm	0.0281 ppm	1.5255 ppm	3.8098 ppm	0.0023 ppm	0.3618 ppm
Concentration per Run 2	-0.0002 ppm	7.5329 ppm	0.0294 ppm	1.4828 ppm	3.7359 ppm	0.0006 ppm	0.3530 ppm
Concentration per Run 3	-0.0019 ppm	7.3609 ppm	0.0283 ppm	1.5360 ppm	3.6666 ppm	0.0005 ppm	0.3468 ppm
Concentration RSD	105.0 %	2.4 %	2.3 %	1.9 %	1.9 %	86.9 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4505 ppm	97.7538 %	107.1486 %	87.6546 %	109.5770 %	123.2210 %	114.4113 %
Concentration per Run 1	0.4611 ppm	95.9943 %	105.8295 %	86.9935 %	109.0166 %	122.4173 %	114.0007 %
Concentration per Run 2	0.4510 ppm	97.7420 %	107.8738 %	87.9674 %	109.3037 %	123.3072 %	115.1619 %
Concentration per Run 3	0.4394 ppm	99.5253 %	107.7424 %	88.0028 %	110.4106 %	123.9385 %	114.0714 %
Concentration RSD	2.4 %	1.8 %	1.1 %	0.7 %	0.7 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432154-02D2 WG1933863
Analysis started at: 6/14/2024 1:27:29 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	61.4080 ppm	0.0226 ppm	0.0570 ppm	0.4169 ppm	0.0027 ppm	182.1481 ppm
Concentration per Run 1	-0.0007 ppm	61.3556 ppm	0.0206 ppm	0.0591 ppm	0.4191 ppm	0.0027 ppm	181.6878 ppm
Concentration per Run 2	-0.0004 ppm	61.1137 ppm	0.0234 ppm	0.0564 ppm	0.4130 ppm	0.0027 ppm	182.0412 ppm
Concentration per Run 3	-0.0001 ppm	61.7548 ppm	0.0237 ppm	0.0554 ppm	0.4188 ppm	0.0028 ppm	182.7152 ppm
Concentration RSD	71.8 %	0.5 %	7.6 %	3.3 %	0.8 %	2.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0584 ppm	0.1422 ppm	0.3240 ppm	129.2893 ppm	8.4837 ppm	0.0628 ppm
Concentration per Run 1	0.0011 ppm	0.0592 ppm	0.1449 ppm	0.3302 ppm	129.0624 ppm	8.4004 ppm	0.0633 ppm
Concentration per Run 2	0.0011 ppm	0.0585 ppm	0.1419 ppm	0.3231 ppm	128.5453 ppm	8.4430 ppm	0.0619 ppm
Concentration per Run 3	0.0012 ppm	0.0575 ppm	0.1399 ppm	0.3186 ppm	130.2601 ppm	8.6076 ppm	0.0632 ppm
Concentration RSD	7.7 %	1.5 %	1.8 %	1.8 %	0.7 %	1.3 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.8245 ppm	2.3680 ppm	0.0047 ppm	3.7139 ppm	0.1280 ppm	0.3143 ppm	0.0051 ppm
Concentration per Run 1	49.8263 ppm	2.3687 ppm	0.0050 ppm	3.7092 ppm	0.1310 ppm	0.3155 ppm	0.0061 ppm
Concentration per Run 2	48.6699 ppm	2.3595 ppm	0.0045 ppm	3.7178 ppm	0.1279 ppm	0.3130 ppm	0.0065 ppm
Concentration per Run 3	47.9773 ppm	2.3758 ppm	0.0044 ppm	3.7148 ppm	0.1250 ppm	0.3145 ppm	0.0027 ppm
Concentration RSD	1.9 %	0.3 %	6.8 %	0.1 %	2.3 %	0.4 %	40.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	9.0484 ppm	0.0383 ppm	1.0096 ppm	3.9157 ppm	0.0025 ppm	0.2921 ppm
Concentration per Run 1	0.0020 ppm	9.2706 ppm	0.0393 ppm	1.0066 ppm	3.9900 ppm	0.0033 ppm	0.2980 ppm
Concentration per Run 2	-0.0002 ppm	9.0101 ppm	0.0384 ppm	1.0066 ppm	3.9040 ppm	0.0010 ppm	0.2913 ppm
Concentration per Run 3	-0.0047 ppm	8.8644 ppm	0.0371 ppm	1.0155 ppm	3.8531 ppm	0.0032 ppm	0.2870 ppm
Concentration RSD	350.7 %	2.3 %	2.9 %	0.5 %	1.8 %	52.2 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4297 ppm	98.8127 %	107.9137 %	89.9934 %	108.8577 %	122.0326 %	114.1760 %
Concentration per Run 1	0.4380 ppm	96.9648 %	108.0992 %	89.2219 %	108.4367 %	122.6265 %	113.8583 %
Concentration per Run 2	0.4299 ppm	98.8691 %	107.9263 %	90.4625 %	109.0184 %	122.0445 %	114.8787 %
Concentration per Run 3	0.4210 ppm	100.6043 %	107.7156 %	90.2958 %	109.1179 %	121.4266 %	113.7910 %
Concentration RSD	2.0 %	1.8 %	0.2 %	0.7 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-01D2 WG1933686
Analysis started at: 6/14/2024 1:31:26 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	133.3586 ppm	0.1879 ppm	0.0052 ppm	0.1214 ppm	0.0036 ppm	18.9159 ppm
Concentration per Run 1	-0.0010 ppm	133.3898 ppm	0.1870 ppm	0.0052 ppm	0.1216 ppm	0.0036 ppm	18.9498 ppm
Concentration per Run 2	-0.0006 ppm	133.5063 ppm	0.1886 ppm	0.0058 ppm	0.1215 ppm	0.0036 ppm	18.8806 ppm
Concentration per Run 3	-0.0004 ppm	133.1797 ppm	0.1879 ppm	0.0045 ppm	0.1210 ppm	0.0036 ppm	18.9172 ppm
Concentration RSD	51.2 %	0.1 %	0.4 %	12.3 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.1803 ppm	0.1857 ppm	0.1941 ppm	338.3358 ppm	1.7236 ppm	0.2755 ppm
Concentration per Run 1	0.0010 ppm	0.1830 ppm	0.1874 ppm	0.1962 ppm	339.5616 ppm	1.7294 ppm	0.2764 ppm
Concentration per Run 2	0.0009 ppm	0.1792 ppm	0.1852 ppm	0.1935 ppm	338.2812 ppm	1.7101 ppm	0.2760 ppm
Concentration per Run 3	0.0009 ppm	0.1787 ppm	0.1845 ppm	0.1927 ppm	337.1645 ppm	1.7313 ppm	0.2742 ppm
Concentration RSD	6.7 %	1.3 %	0.8 %	0.9 %	0.4 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	45.1670 ppm	5.4626 ppm	0.0063 ppm	0.7166 ppm	0.3013 ppm	0.1628 ppm	0.0077 ppm
Concentration per Run 1	45.7667 ppm	5.4698 ppm	0.0060 ppm	0.7240 ppm	0.3041 ppm	0.1633 ppm	0.0081 ppm
Concentration per Run 2	44.9601 ppm	5.4662 ppm	0.0062 ppm	0.7110 ppm	0.3001 ppm	0.1613 ppm	0.0059 ppm
Concentration per Run 3	44.7741 ppm	5.4517 ppm	0.0068 ppm	0.7148 ppm	0.2996 ppm	0.1638 ppm	0.0090 ppm
Concentration RSD	1.2 %	0.2 %	6.4 %	0.9 %	0.8 %	0.8 %	21.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	8.0690 ppm	0.0029 ppm	0.0901 ppm	0.8013 ppm	0.0022 ppm	0.1814 ppm
Concentration per Run 1	0.0032 ppm	8.2094 ppm	0.0031 ppm	0.0903 ppm	0.8110 ppm	0.0011 ppm	0.1832 ppm
Concentration per Run 2	0.0038 ppm	8.0408 ppm	0.0036 ppm	0.0900 ppm	0.7991 ppm	0.0025 ppm	0.1813 ppm
Concentration per Run 3	0.0035 ppm	7.9569 ppm	0.0021 ppm	0.0900 ppm	0.7937 ppm	0.0028 ppm	0.1798 ppm
Concentration RSD	9.2 %	1.6 %	25.5 %	0.2 %	1.1 %	41.9 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6409 ppm	102.6772 %	109.1396 %	94.4108 %	106.7914 %	118.2239 %	112.6362 %
Concentration per Run 1	0.6460 ppm	100.9952 %	108.1495 %	94.4837 %	106.0085 %	117.3130 %	112.7383 %
Concentration per Run 2	0.6391 ppm	103.1718 %	110.1139 %	94.4572 %	107.3016 %	119.2239 %	112.4937 %
Concentration per Run 3	0.6377 ppm	103.8647 %	109.1554 %	94.2917 %	107.0641 %	118.1348 %	112.6767 %
Concentration RSD	0.7 %	1.5 %	0.9 %	0.1 %	0.6 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933686-3D2 WG1933686
Analysis started at: 6/14/2024 1:35:23 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0482 ppm	135.5913 ppm	0.3192 ppm	0.8747 ppm	1.9969 ppm	0.0535 ppm	28.2568 ppm
Concentration per Run 1	0.0486 ppm	135.7444 ppm	0.3175 ppm	0.8883 ppm	2.0110 ppm	0.0533 ppm	28.2881 ppm
Concentration per Run 2	0.0479 ppm	135.6385 ppm	0.3200 ppm	0.8750 ppm	1.9889 ppm	0.0538 ppm	28.2743 ppm
Concentration per Run 3	0.0481 ppm	135.3911 ppm	0.3202 ppm	0.8608 ppm	1.9907 ppm	0.0532 ppm	28.2079 ppm
Concentration RSD	0.7 %	0.1 %	0.5 %	1.6 %	0.6 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0501 ppm	0.6310 ppm	0.3745 ppm	0.4474 ppm	330.4927 ppm	11.1529 ppm	0.2749 ppm
Concentration per Run 1	0.0511 ppm	0.6434 ppm	0.3810 ppm	0.4547 ppm	331.3334 ppm	11.0768 ppm	0.2711 ppm
Concentration per Run 2	0.0500 ppm	0.6298 ppm	0.3737 ppm	0.4463 ppm	331.1469 ppm	11.2711 ppm	0.2783 ppm
Concentration per Run 3	0.0493 ppm	0.6196 ppm	0.3689 ppm	0.4413 ppm	328.9977 ppm	11.1109 ppm	0.2754 ppm
Concentration RSD	1.7 %	1.9 %	1.6 %	1.5 %	0.4 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.1900 ppm	6.2839 ppm	0.9410 ppm	11.0627 ppm	0.7596 ppm	0.6802 ppm	0.4384 ppm
Concentration per Run 1	55.1508 ppm	6.2972 ppm	0.9443 ppm	11.0715 ppm	0.7723 ppm	0.6820 ppm	0.4464 ppm
Concentration per Run 2	54.0478 ppm	6.2737 ppm	0.9401 ppm	11.0580 ppm	0.7583 ppm	0.6814 ppm	0.4385 ppm
Concentration per Run 3	53.3712 ppm	6.2808 ppm	0.9387 ppm	11.0586 ppm	0.7483 ppm	0.6772 ppm	0.4305 ppm
Concentration RSD	1.7 %	0.2 %	0.3 %	0.1 %	1.6 %	0.4 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1202 ppm	8.7315 ppm	0.8682 ppm	1.0953 ppm	1.7843 ppm	0.1177 ppm	0.6662 ppm
Concentration per Run 1	0.1211 ppm	8.8693 ppm	0.8833 ppm	1.0971 ppm	1.8220 ppm	0.1169 ppm	0.6798 ppm
Concentration per Run 2	0.1197 ppm	8.7376 ppm	0.8673 ppm	1.0979 ppm	1.7726 ppm	0.1191 ppm	0.6644 ppm
Concentration per Run 3	0.1200 ppm	8.5876 ppm	0.8541 ppm	1.0907 ppm	1.7583 ppm	0.1170 ppm	0.6545 ppm
Concentration RSD	0.6 %	1.6 %	1.7 %	0.4 %	1.9 %	1.0 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1075 ppm	101.3793 %	108.1149 %	91.6517 %	103.8789 %	116.0192 %	109.6188 %
Concentration per Run 1	1.1286 ppm	99.9398 %	108.0215 %	91.5467 %	103.2540 %	116.2548 %	109.4169 %
Concentration per Run 2	1.1066 ppm	101.3715 %	108.2730 %	91.4079 %	103.6262 %	116.2181 %	109.3702 %
Concentration per Run 3	1.0874 ppm	102.8264 %	108.0502 %	92.0004 %	104.7567 %	115.5848 %	110.0692 %
Concentration RSD	1.9 %	1.4 %	0.1 %	0.3 %	0.8 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933686-4D2 WG1933686
Analysis started at: 6/14/2024 1:39:21 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	132.3018 ppm	0.1763 ppm	0.0050 ppm	0.1031 ppm	0.0037 ppm	18.0495 ppm
Concentration per Run 1	-0.0010 ppm	131.9926 ppm	0.1759 ppm	0.0065 ppm	0.1039 ppm	0.0037 ppm	18.0038 ppm
Concentration per Run 2	-0.0013 ppm	132.3495 ppm	0.1763 ppm	0.0050 ppm	0.1022 ppm	0.0037 ppm	18.0921 ppm
Concentration per Run 3	-0.0005 ppm	132.5632 ppm	0.1766 ppm	0.0034 ppm	0.1031 ppm	0.0037 ppm	18.0527 ppm
Concentration RSD	42.9 %	0.2 %	0.2 %	30.8 %	0.8 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.1547 ppm	0.1902 ppm	0.2461 ppm	367.7360 ppm	1.6058 ppm	0.2801 ppm
Concentration per Run 1	0.0014 ppm	0.1575 ppm	0.1939 ppm	0.2496 ppm	366.8124 ppm	1.6224 ppm	0.2761 ppm
Concentration per Run 2	0.0010 ppm	0.1539 ppm	0.1880 ppm	0.2442 ppm	367.6419 ppm	1.6037 ppm	0.2802 ppm
Concentration per Run 3	0.0017 ppm	0.1528 ppm	0.1887 ppm	0.2447 ppm	368.7536 ppm	1.5913 ppm	0.2841 ppm
Concentration RSD	27.8 %	1.6 %	1.7 %	1.2 %	0.3 %	1.0 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	46.9126 ppm	7.2222 ppm	0.0083 ppm	0.6050 ppm	0.3190 ppm	0.1334 ppm	0.0086 ppm
Concentration per Run 1	47.7554 ppm	7.2248 ppm	0.0083 ppm	0.6077 ppm	0.3237 ppm	0.1334 ppm	0.0097 ppm
Concentration per Run 2	46.7270 ppm	7.2146 ppm	0.0081 ppm	0.6067 ppm	0.3185 ppm	0.1337 ppm	0.0088 ppm
Concentration per Run 3	46.2556 ppm	7.2272 ppm	0.0085 ppm	0.6005 ppm	0.3148 ppm	0.1330 ppm	0.0074 ppm
Concentration RSD	1.6 %	0.1 %	2.2 %	0.7 %	1.4 %	0.3 %	13.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	8.0659 ppm	0.0038 ppm	0.0906 ppm	0.8453 ppm	0.0001 ppm	0.1845 ppm
Concentration per Run 1	0.0052 ppm	8.1905 ppm	0.0034 ppm	0.0911 ppm	0.8585 ppm	-0.0005 ppm	0.1874 ppm
Concentration per Run 2	-0.0010 ppm	8.0350 ppm	0.0041 ppm	0.0903 ppm	0.8445 ppm	0.0001 ppm	0.1848 ppm
Concentration per Run 3	-0.0004 ppm	7.9722 ppm	0.0040 ppm	0.0904 ppm	0.8329 ppm	0.0008 ppm	0.1813 ppm
Concentration RSD	264.4 %	1.4 %	9.6 %	0.5 %	1.5 %	494.6 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6976 ppm	102.9426 %	109.4252 %	94.0940 %	103.0988 %	114.5563 %	108.7767 %
Concentration per Run 1	0.7116 ppm	101.2475 %	109.5451 %	94.1632 %	102.3101 %	115.1830 %	109.0450 %
Concentration per Run 2	0.6937 ppm	103.5971 %	108.9234 %	94.4151 %	103.8202 %	113.9315 %	108.8286 %
Concentration per Run 3	0.6875 ppm	103.9833 %	109.8070 %	93.7036 %	103.1660 %	114.5544 %	108.4566 %
Concentration RSD	1.8 %	1.4 %	0.4 %	0.4 %	0.7 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933686-5D2 WG1933686
Analysis started at: 6/14/2024 1:43:19 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0456 ppm	130.6313 ppm	0.3104 ppm	0.9209 ppm	1.9850 ppm	0.0522 ppm	28.0754 ppm
Concentration per Run 1	0.0463 ppm	130.8857 ppm	0.3095 ppm	0.9378 ppm	1.9794 ppm	0.0521 ppm	28.1694 ppm
Concentration per Run 2	0.0454 ppm	130.5113 ppm	0.3151 ppm	0.9147 ppm	1.9875 ppm	0.0522 ppm	28.0860 ppm
Concentration per Run 3	0.0453 ppm	130.4969 ppm	0.3065 ppm	0.9101 ppm	1.9881 ppm	0.0522 ppm	27.9708 ppm
Concentration RSD	1.3 %	0.2 %	1.4 %	1.6 %	0.2 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0493 ppm	0.6247 ppm	0.3619 ppm	0.4285 ppm	328.0109 ppm	11.5441 ppm	0.2674 ppm
Concentration per Run 1	0.0499 ppm	0.6356 ppm	0.3685 ppm	0.4352 ppm	328.4870 ppm	11.6551 ppm	0.2692 ppm
Concentration per Run 2	0.0491 ppm	0.6227 ppm	0.3606 ppm	0.4271 ppm	328.3593 ppm	11.4633 ppm	0.2659 ppm
Concentration per Run 3	0.0489 ppm	0.6158 ppm	0.3567 ppm	0.4231 ppm	327.1863 ppm	11.5140 ppm	0.2669 ppm
Concentration RSD	1.1 %	1.6 %	1.7 %	1.4 %	0.2 %	0.9 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.2389 ppm	5.7271 ppm	0.9124 ppm	11.2018 ppm	0.7457 ppm	0.6756 ppm	0.4655 ppm
Concentration per Run 1	54.1386 ppm	5.7372 ppm	0.9086 ppm	11.1956 ppm	0.7559 ppm	0.6766 ppm	0.4744 ppm
Concentration per Run 2	52.9944 ppm	5.7278 ppm	0.9096 ppm	11.2338 ppm	0.7442 ppm	0.6809 ppm	0.4626 ppm
Concentration per Run 3	52.5836 ppm	5.7164 ppm	0.9189 ppm	11.1760 ppm	0.7369 ppm	0.6694 ppm	0.4594 ppm
Concentration RSD	1.5 %	0.2 %	0.6 %	0.3 %	1.3 %	0.9 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1210 ppm	8.9097 ppm	0.8883 ppm	1.1036 ppm	1.7443 ppm	0.1168 ppm	0.6413 ppm
Concentration per Run 1	0.1225 ppm	9.0361 ppm	0.8963 ppm	1.1019 ppm	1.7685 ppm	0.1152 ppm	0.6523 ppm
Concentration per Run 2	0.1209 ppm	8.8476 ppm	0.8878 ppm	1.1048 ppm	1.7352 ppm	0.1187 ppm	0.6388 ppm
Concentration per Run 3	0.1197 ppm	8.8456 ppm	0.8807 ppm	1.1042 ppm	1.7292 ppm	0.1165 ppm	0.6328 ppm
Concentration RSD	1.2 %	1.2 %	0.9 %	0.1 %	1.2 %	1.5 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0815 ppm	101.4327 %	109.0567 %	91.9910 %	104.9842 %	117.1553 %	110.1905 %
Concentration per Run 1	1.1009 ppm	99.6777 %	107.9821 %	92.0093 %	103.7813 %	116.1752 %	110.3632 %
Concentration per Run 2	1.0763 ppm	101.9246 %	108.9082 %	91.8918 %	105.4156 %	116.8250 %	110.1162 %
Concentration per Run 3	1.0674 ppm	102.6958 %	110.2798 %	92.0720 %	105.7556 %	118.4655 %	110.0922 %
Concentration RSD	1.6 %	1.5 %	1.1 %	0.1 %	1.0 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933686-6D10 WG1933686
Analysis started at: 6/14/2024 1:47:18 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	27.2827 ppm	0.0363 ppm	0.0023 ppm	0.0246 ppm	0.0007 ppm	3.8449 ppm
Concentration per Run 1	0.0000 ppm	27.3200 ppm	0.0353 ppm	0.0026 ppm	0.0249 ppm	0.0007 ppm	3.8565 ppm
Concentration per Run 2	0.0002 ppm	27.2941 ppm	0.0365 ppm	0.0023 ppm	0.0248 ppm	0.0007 ppm	3.8438 ppm
Concentration per Run 3	-0.0003 ppm	27.2342 ppm	0.0371 ppm	0.0019 ppm	0.0243 ppm	0.0007 ppm	3.8343 ppm
Concentration RSD	828.5 %	0.2 %	2.5 %	13.7 %	1.3 %	4.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0385 ppm	0.0384 ppm	0.0396 ppm	71.8083 ppm	0.3625 ppm	0.0552 ppm
Concentration per Run 1	0.0002 ppm	0.0391 ppm	0.0393 ppm	0.0406 ppm	71.8895 ppm	0.3794 ppm	0.0574 ppm
Concentration per Run 2	0.0003 ppm	0.0380 ppm	0.0380 ppm	0.0394 ppm	71.9904 ppm	0.3420 ppm	0.0553 ppm
Concentration per Run 3	0.0004 ppm	0.0382 ppm	0.0380 ppm	0.0387 ppm	71.5452 ppm	0.3661 ppm	0.0528 ppm
Concentration RSD	37.7 %	1.4 %	2.0 %	2.4 %	0.3 %	5.2 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5022 ppm	1.1332 ppm	0.0030 ppm	0.1317 ppm	0.0633 ppm	0.0323 ppm	0.0017 ppm
Concentration per Run 1	9.6799 ppm	1.1346 ppm	0.0029 ppm	0.1348 ppm	0.0656 ppm	0.0337 ppm	0.0033 ppm
Concentration per Run 2	9.4571 ppm	1.1351 ppm	0.0031 ppm	0.1300 ppm	0.0624 ppm	0.0330 ppm	0.0025 ppm
Concentration per Run 3	9.3696 ppm	1.1300 ppm	0.0031 ppm	0.1305 ppm	0.0619 ppm	0.0301 ppm	-0.0008 ppm
Concentration RSD	1.7 %	0.3 %	4.0 %	2.0 %	3.2 %	5.9 %	128.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	1.6561 ppm	0.0018 ppm	0.0177 ppm	0.1645 ppm	-0.0005 ppm	0.0365 ppm
Concentration per Run 1	-0.0024 ppm	1.6898 ppm	0.0014 ppm	0.0178 ppm	0.1661 ppm	-0.0012 ppm	0.0368 ppm
Concentration per Run 2	0.0014 ppm	1.6423 ppm	0.0020 ppm	0.0176 ppm	0.1636 ppm	-0.0004 ppm	0.0368 ppm
Concentration per Run 3	0.0013 ppm	1.6363 ppm	0.0020 ppm	0.0176 ppm	0.1638 ppm	0.0001 ppm	0.0360 ppm
Concentration RSD	1,723.5 %	1.8 %	18.9 %	0.5 %	0.9 %	125.0 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1332 ppm	101.3175 %	107.3489 %	99.8023 %	98.5593 %	105.6241 %	102.9988 %
Concentration per Run 1	0.1357 ppm	99.2427 %	107.3330 %	99.5140 %	97.5729 %	105.7583 %	103.0805 %
Concentration per Run 2	0.1327 ppm	101.8578 %	107.2729 %	99.6424 %	99.4640 %	105.5173 %	102.9415 %
Concentration per Run 3	0.1313 ppm	102.8520 %	107.4406 %	100.2504 %	98.6411 %	105.5968 %	102.9745 %
Concentration RSD	1.7 %	1.8 %	0.1 %	0.4 %	1.0 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 1:51:16 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5015 ppm	0.4531 ppm	0.4710 ppm	0.4939 ppm	0.4547 ppm	0.4639 ppm	0.4502 ppm
Concentration per Run 1	0.5083 ppm	0.4422 ppm	0.4742 ppm	0.4997 ppm	0.4413 ppm	0.4506 ppm	0.4385 ppm
Concentration per Run 2	0.5018 ppm	0.4590 ppm	0.4708 ppm	0.4939 ppm	0.4590 ppm	0.4658 ppm	0.4547 ppm
Concentration per Run 3	0.4944 ppm	0.4581 ppm	0.4682 ppm	0.4881 ppm	0.4638 ppm	0.4753 ppm	0.4574 ppm
Recovery Percentage 1	100.303 %	90.621 %	94.207 %	98.783 %	90.940 %	92.774 %	90.040 %
Concentration RSD	1.4 %	2.1 %	0.6 %	1.2 %	2.6 %	2.7 %	2.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4957 ppm	0.5085 ppm	0.4898 ppm	0.4922 ppm	0.4726 ppm	4.5947 ppm	0.4526 ppm
Concentration per Run 1	0.5033 ppm	0.5167 ppm	0.4984 ppm	0.5002 ppm	0.4605 ppm	4.4706 ppm	0.4415 ppm
Concentration per Run 2	0.4948 ppm	0.5067 ppm	0.4884 ppm	0.4915 ppm	0.4763 ppm	4.6431 ppm	0.4623 ppm
Concentration per Run 3	0.4889 ppm	0.5021 ppm	0.4827 ppm	0.4848 ppm	0.4810 ppm	4.6704 ppm	0.4540 ppm
Recovery Percentage 1	99.133 %	101.706 %	97.969 %	98.432 %	94.523 %	91.894 %	90.524 %
Concentration RSD	1.5 %	1.5 %	1.6 %	1.6 %	2.3 %	2.4 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4950 ppm	0.4479 ppm	0.4907 ppm	9.1783 ppm	0.5096 ppm	0.4889 ppm	0.4886 ppm
Concentration per Run 1	0.5026 ppm	0.4344 ppm	0.4917 ppm	8.9261 ppm	0.5188 ppm	0.4917 ppm	0.4946 ppm
Concentration per Run 2	0.4958 ppm	0.4511 ppm	0.4896 ppm	9.1986 ppm	0.5084 ppm	0.4891 ppm	0.4876 ppm
Concentration per Run 3	0.4866 ppm	0.4582 ppm	0.4910 ppm	9.4102 ppm	0.5015 ppm	0.4859 ppm	0.4838 ppm
Recovery Percentage 1	98.993 %	89.579 %	98.150 %	91.783 %	101.916 %	97.784 %	97.729 %
Concentration RSD	1.6 %	2.7 %	0.2 %	2.6 %	1.7 %	0.6 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4829 ppm	5.1687 ppm	0.5152 ppm	0.4677 ppm	0.4980 ppm	0.4868 ppm	0.4921 ppm
Concentration per Run 1	0.4851 ppm	5.2461 ppm	0.5216 ppm	0.4548 ppm	0.5064 ppm	0.4878 ppm	0.5003 ppm
Concentration per Run 2	0.4820 ppm	5.1598 ppm	0.5129 ppm	0.4696 ppm	0.4974 ppm	0.4883 ppm	0.4910 ppm
Concentration per Run 3	0.4818 ppm	5.1001 ppm	0.5111 ppm	0.4786 ppm	0.4904 ppm	0.4844 ppm	0.4850 ppm
Recovery Percentage 1	96.587 %	98.451 %	103.045 %	93.532 %	99.610 %	97.365 %	98.418 %
Concentration RSD	0.4 %	1.4 %	1.1 %	2.6 %	1.6 %	0.4 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5067 ppm	100.0831 %	113.9188 %	101.2117 %	95.8749 %	103.1875 %	99.5185 %
Concentration per Run 1	0.5157 ppm	98.8261 %	116.9354 %	100.6412 %	95.7697 %	105.2646 %	99.2885 %
Concentration per Run 2	0.5047 ppm	99.9270 %	112.9777 %	101.0864 %	95.7590 %	101.9611 %	99.4354 %
Concentration per Run 3	0.4997 ppm	101.4962 %	111.8434 %	101.9074 %	96.0960 %	102.3369 %	99.8317 %
Recovery Percentage 1	101.335 %						
Concentration RSD	1.6 %	1.3 %	2.3 %	0.6 %	0.2 %	1.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 1:55:15 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0114 ppm	0.0006 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 1	0.0002 ppm	-0.0097 ppm	0.0015 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	-0.0005 ppm	-0.0088 ppm	0.0003 ppm	0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	-0.0001 ppm	-0.0157 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0061 ppm
Recovery Percentage 1	-2.089 %	-11.403 %	20.424 %	3.442 %	-1.198 %	0.389 %	4.781 %
Concentration RSD	235.8 %	32.7 %	128.5 %	127.4 %	60.5 %	179.2 %	73.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0037 ppm	-0.0164 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0004 ppm	0.0005 ppm	0.0024 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0007 ppm	0.0053 ppm	-0.0346 ppm	-0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0035 ppm	-0.0149 ppm	-0.0007 ppm
Recovery Percentage 1	0.594 %	0.671 %	-0.619 %	5.240 %	7.463 %	-0.657 %	-11.149 %
Concentration RSD	100.6 %	340.1 %	915.0 %	25.2 %	39.1 %	106.2 %	115.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0017 ppm	-0.0038 ppm	-0.0007 ppm	0.0003 ppm	0.0024 ppm
Concentration per Run 1	-0.0014 ppm	0.0002 ppm	0.0018 ppm	-0.0082 ppm	-0.0002 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0003 ppm	0.0016 ppm	0.0053 ppm	-0.0005 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0008 ppm	0.0002 ppm	0.0018 ppm	-0.0085 ppm	-0.0012 ppm	0.0001 ppm	0.0062 ppm
Recovery Percentage 1	-0.269 %	2.449 %	3.437 %	-0.190 %	-2.627 %	3.395 %	4.748 %
Concentration RSD	560.9 %	26.3 %	7.7 %	208.3 %	82.1 %	87.0 %	138.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0035 ppm	0.0018 ppm	0.0000 ppm	0.0001 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0058 ppm	0.0018 ppm	0.0001 ppm	0.0003 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.0009 ppm	0.0017 ppm	0.0000 ppm	-0.0001 ppm	-0.0015 ppm	-0.0002 ppm
Concentration per Run 3	-0.0009 ppm	0.0036 ppm	0.0021 ppm	-0.0001 ppm	0.0002 ppm	-0.0014 ppm	-0.0003 ppm
Recovery Percentage 1	2.017 %	0.691 %	3.699 %	0.211 %	1.443 %	-6.877 %	-2.445 %
Concentration RSD	531.6 %	72.1 %	10.9 %	461.5 %	130.0 %	12.7 %	33.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	97.7306 %	101.9665 %	99.1005 %	97.1002 %	101.0884 %	99.5680 %
Concentration per Run 1	0.0004 ppm	96.4189 %	101.9233 %	99.0678 %	97.0209 %	101.5419 %	100.0111 %
Concentration per Run 2	0.0006 ppm	98.1340 %	102.6633 %	98.5208 %	97.5202 %	101.5353 %	99.1268 %
Concentration per Run 3	0.0007 ppm	98.6390 %	101.3129 %	99.7128 %	96.7596 %	100.1878 %	99.5661 %
Recovery Percentage 1	11.237 %						
Concentration RSD	24.4 %	1.2 %	0.7 %	0.6 %	0.4 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432155-01D2 WG1933863
Analysis started at: 6/14/2024 2:08:42 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	112.3643 ppm	0.0584 ppm	0.0056 ppm	0.2109 ppm	0.0032 ppm	9.7304 ppm
Concentration per Run 1	-0.0001 ppm	111.8819 ppm	0.0575 ppm	0.0062 ppm	0.2096 ppm	0.0032 ppm	9.7198 ppm
Concentration per Run 2	-0.0005 ppm	112.6332 ppm	0.0591 ppm	0.0049 ppm	0.2111 ppm	0.0032 ppm	9.7313 ppm
Concentration per Run 3	0.0000 ppm	112.5777 ppm	0.0585 ppm	0.0056 ppm	0.2119 ppm	0.0032 ppm	9.7403 ppm
Concentration RSD	126.3 %	0.4 %	1.4 %	12.2 %	0.5 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0208 ppm	0.1611 ppm	0.0564 ppm	192.7163 ppm	3.3423 ppm	0.0419 ppm
Concentration per Run 1	0.0003 ppm	0.0201 ppm	0.1569 ppm	0.0548 ppm	191.9733 ppm	3.3717 ppm	0.0437 ppm
Concentration per Run 2	0.0003 ppm	0.0215 ppm	0.1627 ppm	0.0569 ppm	192.9899 ppm	3.3362 ppm	0.0412 ppm
Concentration per Run 3	0.0002 ppm	0.0208 ppm	0.1638 ppm	0.0574 ppm	193.1856 ppm	3.3191 ppm	0.0410 ppm
Concentration RSD	18.3 %	3.4 %	2.3 %	2.4 %	0.3 %	0.8 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8115 ppm	0.4964 ppm	0.0035 ppm	0.2438 ppm	0.0538 ppm	0.0866 ppm	0.0047 ppm
Concentration per Run 1	4.6796 ppm	0.4964 ppm	0.0031 ppm	0.2460 ppm	0.0521 ppm	0.0869 ppm	0.0047 ppm
Concentration per Run 2	4.8580 ppm	0.4973 ppm	0.0031 ppm	0.2449 ppm	0.0543 ppm	0.0863 ppm	0.0058 ppm
Concentration per Run 3	4.8968 ppm	0.4956 ppm	0.0043 ppm	0.2404 ppm	0.0550 ppm	0.0865 ppm	0.0035 ppm
Concentration RSD	2.4 %	0.2 %	18.8 %	1.2 %	2.9 %	0.3 %	24.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	7.3038 ppm	0.0053 ppm	0.0722 ppm	0.7640 ppm	0.0021 ppm	0.2500 ppm
Concentration per Run 1	0.0000 ppm	7.1423 ppm	0.0048 ppm	0.0721 ppm	0.7445 ppm	0.0017 ppm	0.2431 ppm
Concentration per Run 2	0.0003 ppm	7.3430 ppm	0.0056 ppm	0.0720 ppm	0.7710 ppm	0.0028 ppm	0.2524 ppm
Concentration per Run 3	0.0007 ppm	7.4261 ppm	0.0056 ppm	0.0724 ppm	0.7765 ppm	0.0019 ppm	0.2546 ppm
Concentration RSD	105.1 %	2.0 %	8.3 %	0.3 %	2.2 %	27.9 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0957 ppm	115.1425 %	113.5547 %	103.1810 %	110.2561 %	115.9479 %	112.8740 %
Concentration per Run 1	0.0935 ppm	118.0055 %	113.3239 %	103.3275 %	114.9599 %	115.8808 %	112.5924 %
Concentration per Run 2	0.0967 ppm	114.0512 %	114.1105 %	103.4474 %	107.8786 %	116.7519 %	113.1242 %
Concentration per Run 3	0.0969 ppm	113.3709 %	113.2297 %	102.7682 %	107.9297 %	115.2110 %	112.9052 %
Concentration RSD	2.0 %	2.2 %	0.4 %	0.4 %	3.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-02D2 WG1933686
Analysis started at: 6/14/2024 2:12:58 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	157.8107 ppm	0.2823 ppm	0.0196 ppm	0.1303 ppm	0.0042 ppm	16.6297 ppm
Concentration per Run 1	0.0007 ppm	157.5964 ppm	0.2802 ppm	0.0195 ppm	0.1302 ppm	0.0042 ppm	16.6446 ppm
Concentration per Run 2	0.0006 ppm	157.4189 ppm	0.2834 ppm	0.0201 ppm	0.1304 ppm	0.0042 ppm	16.6071 ppm
Concentration per Run 3	0.0008 ppm	158.4167 ppm	0.2831 ppm	0.0191 ppm	0.1301 ppm	0.0042 ppm	16.6374 ppm
Concentration RSD	13.2 %	0.3 %	0.6 %	2.5 %	0.1 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.1810 ppm	0.2201 ppm	0.2302 ppm	370.7625 ppm	3.2333 ppm	0.4089 ppm
Concentration per Run 1	0.0012 ppm	0.1827 ppm	0.2224 ppm	0.2329 ppm	370.8515 ppm	3.2872 ppm	0.4142 ppm
Concentration per Run 2	0.0016 ppm	0.1806 ppm	0.2196 ppm	0.2307 ppm	370.5219 ppm	3.2075 ppm	0.4042 ppm
Concentration per Run 3	0.0013 ppm	0.1798 ppm	0.2183 ppm	0.2270 ppm	370.9142 ppm	3.2053 ppm	0.4084 ppm
Concentration RSD	14.5 %	0.8 %	0.9 %	1.3 %	0.1 %	1.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.9135 ppm	3.2654 ppm	0.0090 ppm	12.6490 ppm	0.3066 ppm	0.2356 ppm	0.0066 ppm
Concentration per Run 1	56.6155 ppm	3.2646 ppm	0.0090 ppm	12.6618 ppm	0.3096 ppm	0.2352 ppm	0.0083 ppm
Concentration per Run 2	55.8163 ppm	3.2581 ppm	0.0088 ppm	12.6329 ppm	0.3067 ppm	0.2353 ppm	0.0043 ppm
Concentration per Run 3	55.3086 ppm	3.2736 ppm	0.0092 ppm	12.6524 ppm	0.3036 ppm	0.2364 ppm	0.0072 ppm
Concentration RSD	1.2 %	0.2 %	2.4 %	0.1 %	1.0 %	0.3 %	31.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	9.3696 ppm	0.0038 ppm	0.1640 ppm	0.5543 ppm	0.0013 ppm	0.2034 ppm
Concentration per Run 1	0.0005 ppm	9.4804 ppm	0.0043 ppm	0.1640 ppm	0.5666 ppm	0.0008 ppm	0.2061 ppm
Concentration per Run 2	-0.0004 ppm	9.3567 ppm	0.0031 ppm	0.1641 ppm	0.5441 ppm	0.0008 ppm	0.2025 ppm
Concentration per Run 3	0.0038 ppm	9.2716 ppm	0.0042 ppm	0.1639 ppm	0.5521 ppm	0.0023 ppm	0.2015 ppm
Concentration RSD	169.5 %	1.1 %	17.6 %	0.1 %	2.1 %	66.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5961 ppm	102.6235 %	110.9066 %	93.4659 %	101.8691 %	113.6655 %	107.1226 %
Concentration per Run 1	0.6019 ppm	101.3451 %	111.4235 %	93.5499 %	101.3779 %	114.4003 %	107.2710 %
Concentration per Run 2	0.5972 ppm	102.5654 %	110.9202 %	93.7368 %	101.8317 %	113.6807 %	107.2025 %
Concentration per Run 3	0.5891 ppm	103.9601 %	110.3761 %	93.1109 %	102.3977 %	112.9155 %	106.8943 %
Concentration RSD	1.1 %	1.3 %	0.5 %	0.3 %	0.5 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-03D2 WG1933686
Analysis started at: 6/14/2024 2:16:55 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	121.7086 ppm	0.3672 ppm	0.0309 ppm	0.1656 ppm	0.0055 ppm	8.5927 ppm
Concentration per Run 1	0.0005 ppm	121.8704 ppm	0.3722 ppm	0.0313 ppm	0.1670 ppm	0.0056 ppm	8.6549 ppm
Concentration per Run 2	0.0005 ppm	121.0867 ppm	0.3264 ppm	0.0301 ppm	0.1647 ppm	0.0055 ppm	8.5739 ppm
Concentration per Run 3	0.0001 ppm	122.1686 ppm	0.4028 ppm	0.0313 ppm	0.1652 ppm	0.0055 ppm	8.5492 ppm
Concentration RSD	56.9 %	0.5 %	10.5 %	2.3 %	0.7 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.1935 ppm	0.1727 ppm	0.3036 ppm	316.8348 ppm	4.8959 ppm	0.2259 ppm
Concentration per Run 1	0.0013 ppm	0.1960 ppm	0.1753 ppm	0.3074 ppm	319.5833 ppm	4.9919 ppm	0.2280 ppm
Concentration per Run 2	0.0016 ppm	0.1938 ppm	0.1720 ppm	0.3046 ppm	315.8717 ppm	4.8489 ppm	0.2250 ppm
Concentration per Run 3	0.0013 ppm	0.1906 ppm	0.1707 ppm	0.2987 ppm	315.0494 ppm	4.8467 ppm	0.2248 ppm
Concentration RSD	13.3 %	1.4 %	1.4 %	1.5 %	0.8 %	1.7 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.8110 ppm	3.1673 ppm	0.0089 ppm	28.2022 ppm	0.2723 ppm	0.2502 ppm	0.0098 ppm
Concentration per Run 1	40.4945 ppm	3.1884 ppm	0.0091 ppm	28.3992 ppm	0.2759 ppm	0.2550 ppm	0.0122 ppm
Concentration per Run 2	39.7161 ppm	3.1543 ppm	0.0085 ppm	28.2115 ppm	0.2731 ppm	0.2210 ppm	0.0086 ppm
Concentration per Run 3	39.2224 ppm	3.1593 ppm	0.0092 ppm	27.9959 ppm	0.2679 ppm	0.2744 ppm	0.0087 ppm
Concentration RSD	1.6 %	0.6 %	3.8 %	0.7 %	1.5 %	10.8 %	20.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	9.5710 ppm	0.0051 ppm	0.1162 ppm	1.5678 ppm	0.0010 ppm	0.1950 ppm
Concentration per Run 1	0.0039 ppm	9.6830 ppm	0.0047 ppm	0.1173 ppm	1.5893 ppm	0.0012 ppm	0.1987 ppm
Concentration per Run 2	0.0020 ppm	9.6492 ppm	0.0061 ppm	0.1161 ppm	1.5631 ppm	-0.0002 ppm	0.1928 ppm
Concentration per Run 3	0.0026 ppm	9.3809 ppm	0.0044 ppm	0.1153 ppm	1.5512 ppm	0.0022 ppm	0.1934 ppm
Concentration RSD	33.2 %	1.7 %	17.5 %	0.9 %	1.2 %	118.1 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5616 ppm	102.5551 %	109.8668 %	96.5365 %	109.5331 %	121.3059 %	117.1548 %
Concentration per Run 1	0.5708 ppm	100.5487 %	109.5054 %	93.7009 %	108.1000 %	121.5189 %	115.6979 %
Concentration per Run 2	0.5606 ppm	102.6541 %	110.1722 %	107.3375 %	109.7419 %	121.4954 %	129.0400 %
Concentration per Run 3	0.5533 ppm	104.4626 %	109.9228 %	88.5710 %	110.7574 %	120.9034 %	106.7266 %
Concentration RSD	1.6 %	1.9 %	0.3 %	10.0 %	1.2 %	0.3 %	9.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-04D2 WG1933686
Analysis started at: 6/14/2024 2:20:52 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	117.3817 ppm	0.3118 ppm	0.0331 ppm	0.1438 ppm	0.0046 ppm	13.4708 ppm
Concentration per Run 1	-0.0002 ppm	116.8189 ppm	0.3131 ppm	0.0338 ppm	0.1433 ppm	0.0046 ppm	13.4353 ppm
Concentration per Run 2	0.0001 ppm	117.1065 ppm	0.3110 ppm	0.0336 ppm	0.1438 ppm	0.0046 ppm	13.4881 ppm
Concentration per Run 3	0.0007 ppm	118.2196 ppm	0.3112 ppm	0.0320 ppm	0.1442 ppm	0.0046 ppm	13.4890 ppm
Concentration RSD	283.4 %	0.6 %	0.4 %	3.0 %	0.3 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.1473 ppm	0.1727 ppm	0.2532 ppm	330.5212 ppm	4.7047 ppm	0.2478 ppm
Concentration per Run 1	0.0012 ppm	0.1490 ppm	0.1762 ppm	0.2559 ppm	330.0334 ppm	4.6947 ppm	0.2461 ppm
Concentration per Run 2	0.0012 ppm	0.1480 ppm	0.1715 ppm	0.2518 ppm	330.2688 ppm	4.6980 ppm	0.2486 ppm
Concentration per Run 3	0.0017 ppm	0.1449 ppm	0.1704 ppm	0.2518 ppm	331.2613 ppm	4.7214 ppm	0.2487 ppm
Concentration RSD	22.9 %	1.5 %	1.8 %	0.9 %	0.2 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.6315 ppm	6.3828 ppm	0.0062 ppm	30.5610 ppm	0.2498 ppm	0.3295 ppm	0.0083 ppm
Concentration per Run 1	43.3290 ppm	6.3713 ppm	0.0063 ppm	30.6103 ppm	0.2533 ppm	0.3288 ppm	0.0046 ppm
Concentration per Run 2	42.5146 ppm	6.3799 ppm	0.0064 ppm	30.6134 ppm	0.2489 ppm	0.3291 ppm	0.0098 ppm
Concentration per Run 3	42.0510 ppm	6.3973 ppm	0.0060 ppm	30.4594 ppm	0.2472 ppm	0.3305 ppm	0.0105 ppm
Concentration RSD	1.5 %	0.2 %	3.5 %	0.3 %	1.3 %	0.3 %	39.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	10.2854 ppm	0.0054 ppm	0.1184 ppm	1.2958 ppm	0.0019 ppm	0.1947 ppm
Concentration per Run 1	-0.0008 ppm	10.5186 ppm	0.0045 ppm	0.1186 ppm	1.3201 ppm	0.0019 ppm	0.1995 ppm
Concentration per Run 2	0.0029 ppm	10.2781 ppm	0.0061 ppm	0.1187 ppm	1.2860 ppm	0.0029 ppm	0.1945 ppm
Concentration per Run 3	0.0033 ppm	10.0595 ppm	0.0056 ppm	0.1181 ppm	1.2814 ppm	0.0010 ppm	0.1902 ppm
Concentration RSD	125.4 %	2.2 %	14.6 %	0.3 %	1.6 %	49.6 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5431 ppm	102.6237 %	109.6333 %	93.4013 %	107.4097 %	119.2027 %	112.7370 %
Concentration per Run 1	0.5530 ppm	101.0420 %	110.4873 %	93.4697 %	106.3553 %	120.3677 %	113.2396 %
Concentration per Run 2	0.5430 ppm	103.0443 %	109.5923 %	93.5571 %	107.9341 %	119.4507 %	112.7345 %
Concentration per Run 3	0.5332 ppm	103.7849 %	108.8202 %	93.1773 %	107.9396 %	117.7897 %	112.2369 %
Concentration RSD	1.8 %	1.4 %	0.8 %	0.2 %	0.9 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-05D2 WG1933686
Analysis started at: 6/14/2024 2:24:49 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	49.9778 ppm	0.0425 ppm	0.1327 ppm	0.0487 ppm	0.0018 ppm	21.6184 ppm
Concentration per Run 1	-0.0001 ppm	49.8123 ppm	0.0421 ppm	0.1339 ppm	0.0492 ppm	0.0018 ppm	21.6705 ppm
Concentration per Run 2	-0.0001 ppm	50.0935 ppm	0.0425 ppm	0.1320 ppm	0.0487 ppm	0.0018 ppm	21.6038 ppm
Concentration per Run 3	-0.0001 ppm	50.0275 ppm	0.0428 ppm	0.1323 ppm	0.0483 ppm	0.0019 ppm	21.5808 ppm
Concentration RSD	27.0 %	0.3 %	0.9 %	0.8 %	0.9 %	2.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0342 ppm	0.1040 ppm	0.0360 ppm	126.5660 ppm	7.1920 ppm	0.1460 ppm
Concentration per Run 1	0.0010 ppm	0.0343 ppm	0.1057 ppm	0.0364 ppm	127.0013 ppm	7.2046 ppm	0.1492 ppm
Concentration per Run 2	0.0009 ppm	0.0340 ppm	0.1035 ppm	0.0363 ppm	126.7292 ppm	7.2219 ppm	0.1443 ppm
Concentration per Run 3	0.0009 ppm	0.0343 ppm	0.1027 ppm	0.0354 ppm	125.9676 ppm	7.1495 ppm	0.1445 ppm
Concentration RSD	7.8 %	0.5 %	1.5 %	1.6 %	0.4 %	0.5 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.7251 ppm	0.8881 ppm	0.0310 ppm	25.2839 ppm	0.1006 ppm	0.0283 ppm	0.0033 ppm
Concentration per Run 1	28.0510 ppm	0.8881 ppm	0.0308 ppm	25.3731 ppm	0.1014 ppm	0.0288 ppm	0.0040 ppm
Concentration per Run 2	27.6716 ppm	0.8891 ppm	0.0305 ppm	25.3080 ppm	0.1017 ppm	0.0282 ppm	0.0035 ppm
Concentration per Run 3	27.4526 ppm	0.8871 ppm	0.0317 ppm	25.1705 ppm	0.0986 ppm	0.0280 ppm	0.0024 ppm
Concentration RSD	1.1 %	0.1 %	2.1 %	0.4 %	1.7 %	1.3 %	25.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	3.6885 ppm	0.0019 ppm	0.1408 ppm	1.5681 ppm	0.0010 ppm	0.1335 ppm
Concentration per Run 1	0.0025 ppm	3.7908 ppm	0.0024 ppm	0.1413 ppm	1.5873 ppm	0.0000 ppm	0.1348 ppm
Concentration per Run 2	0.0010 ppm	3.6738 ppm	0.0021 ppm	0.1410 ppm	1.5614 ppm	0.0006 ppm	0.1340 ppm
Concentration per Run 3	0.0011 ppm	3.6010 ppm	0.0012 ppm	0.1402 ppm	1.5557 ppm	0.0023 ppm	0.1318 ppm
Concentration RSD	56.3 %	2.6 %	33.8 %	0.4 %	1.1 %	128.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2388 ppm	100.7729 %	108.7545 %	95.3480 %	104.6967 %	114.9277 %	109.3965 %
Concentration per Run 1	0.2414 ppm	99.3144 %	108.1007 %	95.2457 %	104.2712 %	114.5279 %	109.8170 %
Concentration per Run 2	0.2399 ppm	100.9797 %	109.3351 %	95.0438 %	104.9473 %	115.6463 %	109.0775 %
Concentration per Run 3	0.2352 ppm	102.0247 %	108.8278 %	95.7546 %	104.8716 %	114.6089 %	109.2952 %
Concentration RSD	1.3 %	1.4 %	0.6 %	0.4 %	0.4 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-06D2 WG1933686
Analysis started at: 6/14/2024 2:28:47 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	135.9533 ppm	0.2375 ppm	0.0028 ppm	0.0747 ppm	0.0034 ppm	12.2005 ppm
Concentration per Run 1	-0.0001 ppm	136.0588 ppm	0.2385 ppm	0.0033 ppm	0.0741 ppm	0.0035 ppm	12.1849 ppm
Concentration per Run 2	-0.0002 ppm	135.6992 ppm	0.2384 ppm	0.0035 ppm	0.0750 ppm	0.0034 ppm	12.2103 ppm
Concentration per Run 3	-0.0004 ppm	136.1018 ppm	0.2357 ppm	0.0016 ppm	0.0750 ppm	0.0035 ppm	12.2062 ppm
Concentration RSD	65.6 %	0.2 %	0.7 %	36.9 %	0.7 %	1.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.1400 ppm	0.2029 ppm	0.2355 ppm	350.4940 ppm	1.4298 ppm	0.3161 ppm
Concentration per Run 1	0.0017 ppm	0.1412 ppm	0.2054 ppm	0.2381 ppm	350.0460 ppm	1.4668 ppm	0.3174 ppm
Concentration per Run 2	0.0014 ppm	0.1405 ppm	0.2030 ppm	0.2351 ppm	351.6776 ppm	1.4064 ppm	0.3162 ppm
Concentration per Run 3	0.0015 ppm	0.1384 ppm	0.2003 ppm	0.2333 ppm	349.7584 ppm	1.4161 ppm	0.3147 ppm
Concentration RSD	8.0 %	1.1 %	1.3 %	1.0 %	0.3 %	2.3 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.0533 ppm	4.1769 ppm	0.0084 ppm	0.2411 ppm	0.2656 ppm	0.1826 ppm	0.0070 ppm
Concentration per Run 1	52.6290 ppm	4.1740 ppm	0.0074 ppm	0.2427 ppm	0.2674 ppm	0.1822 ppm	0.0087 ppm
Concentration per Run 2	51.8592 ppm	4.1801 ppm	0.0088 ppm	0.2438 ppm	0.2660 ppm	0.1848 ppm	0.0053 ppm
Concentration per Run 3	51.6718 ppm	4.1764 ppm	0.0089 ppm	0.2368 ppm	0.2635 ppm	0.1808 ppm	0.0070 ppm
Concentration RSD	1.0 %	0.1 %	10.0 %	1.6 %	0.7 %	1.1 %	24.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	8.4297 ppm	0.0024 ppm	0.0649 ppm	0.4543 ppm	0.0015 ppm	0.1758 ppm
Concentration per Run 1	-0.0008 ppm	8.5607 ppm	0.0017 ppm	0.0647 ppm	0.4558 ppm	0.0015 ppm	0.1770 ppm
Concentration per Run 2	-0.0015 ppm	8.4324 ppm	0.0029 ppm	0.0654 ppm	0.4578 ppm	0.0004 ppm	0.1752 ppm
Concentration per Run 3	0.0005 ppm	8.2960 ppm	0.0026 ppm	0.0646 ppm	0.4493 ppm	0.0027 ppm	0.1752 ppm
Concentration RSD	180.1 %	1.6 %	26.2 %	0.7 %	1.0 %	76.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6394 ppm	103.1775 %	108.9842 %	94.1050 %	103.1970 %	113.5289 %	108.1018 %
Concentration per Run 1	0.6456 ppm	102.0312 %	109.1194 %	94.0179 %	102.8477 %	113.7427 %	108.5595 %
Concentration per Run 2	0.6375 ppm	103.7430 %	108.2628 %	94.3335 %	103.6234 %	112.9175 %	108.0823 %
Concentration per Run 3	0.6351 ppm	103.7582 %	109.5704 %	93.9637 %	103.1200 %	113.9267 %	107.6636 %
Concentration RSD	0.9 %	1.0 %	0.6 %	0.2 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-07D2 WG1933686
Analysis started at: 6/14/2024 2:32:44 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	138.2147 ppm	0.2975 ppm	0.0175 ppm	0.1034 ppm	0.0054 ppm	10.6187 ppm
Concentration per Run 1	-0.0009 ppm	138.5200 ppm	0.3014 ppm	0.0175 ppm	0.1037 ppm	0.0054 ppm	10.5999 ppm
Concentration per Run 2	-0.0001 ppm	137.9446 ppm	0.2976 ppm	0.0165 ppm	0.1034 ppm	0.0054 ppm	10.6065 ppm
Concentration per Run 3	-0.0007 ppm	138.1796 ppm	0.2935 ppm	0.0185 ppm	0.1031 ppm	0.0054 ppm	10.6498 ppm
Concentration RSD	68.2 %	0.2 %	1.3 %	5.7 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.2205 ppm	0.2101 ppm	0.3201 ppm	389.5803 ppm	2.9764 ppm	0.3167 ppm
Concentration per Run 1	0.0011 ppm	0.2248 ppm	0.2129 ppm	0.3247 ppm	389.6835 ppm	3.0202 ppm	0.3158 ppm
Concentration per Run 2	0.0015 ppm	0.2182 ppm	0.2092 ppm	0.3191 ppm	389.4411 ppm	2.9563 ppm	0.3215 ppm
Concentration per Run 3	0.0012 ppm	0.2185 ppm	0.2080 ppm	0.3165 ppm	389.6162 ppm	2.9528 ppm	0.3129 ppm
Concentration RSD	18.6 %	1.7 %	1.2 %	1.3 %	0.0 %	1.3 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.9143 ppm	3.9294 ppm	0.0072 ppm	9.0837 ppm	0.3453 ppm	0.1694 ppm	0.0107 ppm
Concentration per Run 1	50.6944 ppm	3.9319 ppm	0.0071 ppm	9.0360 ppm	0.3511 ppm	0.1694 ppm	0.0123 ppm
Concentration per Run 2	49.6140 ppm	3.9252 ppm	0.0071 ppm	9.1053 ppm	0.3432 ppm	0.1699 ppm	0.0120 ppm
Concentration per Run 3	49.4344 ppm	3.9310 ppm	0.0072 ppm	9.1100 ppm	0.3418 ppm	0.1689 ppm	0.0078 ppm
Concentration RSD	1.4 %	0.1 %	0.9 %	0.5 %	1.5 %	0.3 %	23.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	6.9861 ppm	0.0028 ppm	0.0778 ppm	0.9818 ppm	0.0013 ppm	0.1889 ppm
Concentration per Run 1	0.0012 ppm	7.1250 ppm	0.0027 ppm	0.0780 ppm	1.0002 ppm	0.0007 ppm	0.1923 ppm
Concentration per Run 2	-0.0012 ppm	6.9423 ppm	0.0023 ppm	0.0779 ppm	0.9736 ppm	0.0015 ppm	0.1870 ppm
Concentration per Run 3	-0.0002 ppm	6.8911 ppm	0.0033 ppm	0.0775 ppm	0.9715 ppm	0.0016 ppm	0.1873 ppm
Concentration RSD	2,062.1 %	1.8 %	19.5 %	0.3 %	1.6 %	38.1 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7223 ppm	103.2219 %	110.1033 %	93.5490 %	108.5068 %	120.5092 %	113.8917 %
Concentration per Run 1	0.7339 ppm	101.4134 %	110.4598 %	93.3693 %	107.6864 %	120.7704 %	113.7971 %
Concentration per Run 2	0.7173 ppm	103.9924 %	110.1487 %	93.1463 %	109.3817 %	120.6244 %	113.7770 %
Concentration per Run 3	0.7155 ppm	104.2599 %	109.7014 %	94.1316 %	108.4523 %	120.1329 %	114.1011 %
Concentration RSD	1.4 %	1.5 %	0.3 %	0.6 %	0.8 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-08D2 WG1933686
Analysis started at: 6/14/2024 2:36:41 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	115.6216 ppm	0.3717 ppm	0.0285 ppm	0.0475 ppm	0.0058 ppm	4.9481 ppm
Concentration per Run 1	0.0000 ppm	116.0179 ppm	0.3762 ppm	0.0293 ppm	0.0480 ppm	0.0056 ppm	4.9341 ppm
Concentration per Run 2	-0.0001 ppm	115.7600 ppm	0.3685 ppm	0.0244 ppm	0.0475 ppm	0.0058 ppm	4.9554 ppm
Concentration per Run 3	-0.0005 ppm	115.0870 ppm	0.3703 ppm	0.0316 ppm	0.0471 ppm	0.0058 ppm	4.9549 ppm
Concentration RSD	140.1 %	0.4 %	1.1 %	12.9 %	1.0 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.2413 ppm	0.1703 ppm	0.3436 ppm	384.4706 ppm	2.3777 ppm	0.3100 ppm
Concentration per Run 1	0.0018 ppm	0.2499 ppm	0.1760 ppm	0.3560 ppm	384.7322 ppm	2.4248 ppm	0.3163 ppm
Concentration per Run 2	0.0013 ppm	0.2111 ppm	0.1501 ppm	0.3027 ppm	384.0929 ppm	2.3429 ppm	0.3109 ppm
Concentration per Run 3	0.0018 ppm	0.2630 ppm	0.1847 ppm	0.3722 ppm	384.5865 ppm	2.3654 ppm	0.3026 ppm
Concentration RSD	14.9 %	11.2 %	10.6 %	10.6 %	0.1 %	1.8 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.2637 ppm	2.4351 ppm	0.0087 ppm	18.7218 ppm	0.3900 ppm	0.1576 ppm	0.0119 ppm
Concentration per Run 1	38.6958 ppm	2.4378 ppm	0.0092 ppm	18.6573 ppm	0.4032 ppm	0.1590 ppm	0.0114 ppm
Concentration per Run 2	32.7307 ppm	2.4390 ppm	0.0074 ppm	18.7000 ppm	0.3432 ppm	0.1567 ppm	0.0098 ppm
Concentration per Run 3	40.3648 ppm	2.4286 ppm	0.0096 ppm	18.8082 ppm	0.4236 ppm	0.1571 ppm	0.0146 ppm
Concentration RSD	10.8 %	0.2 %	13.8 %	0.4 %	10.7 %	0.8 %	20.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	5.3687 ppm	0.0020 ppm	0.0663 ppm	0.4430 ppm	0.0018 ppm	0.1828 ppm
Concentration per Run 1	0.0050 ppm	5.5892 ppm	0.0018 ppm	0.0658 ppm	0.4589 ppm	0.0005 ppm	0.1888 ppm
Concentration per Run 2	0.0019 ppm	4.6886 ppm	0.0019 ppm	0.0664 ppm	0.3907 ppm	0.0009 ppm	0.1603 ppm
Concentration per Run 3	0.0004 ppm	5.8282 ppm	0.0024 ppm	0.0667 ppm	0.4793 ppm	0.0039 ppm	0.1993 ppm
Concentration RSD	98.2 %	11.2 %	14.8 %	0.6 %	10.5 %	105.7 %	11.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0949 ppm	106.7208 %	109.1771 %	93.9285 %	106.4786 %	115.6537 %	110.0355 %
Concentration per Run 1	1.1327 ppm	102.0793 %	109.4082 %	93.1781 %	104.3506 %	115.8996 %	109.6318 %
Concentration per Run 2	0.9618 ppm	118.8704 %	108.8123 %	94.4679 %	118.5168 %	115.1997 %	110.6807 %
Concentration per Run 3	1.1902 ppm	99.2127 %	109.3109 %	94.1396 %	96.5684 %	115.8618 %	109.7941 %
Concentration RSD	10.9 %	10.0 %	0.3 %	0.7 %	10.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-09D2 WG1933686
Analysis started at: 6/14/2024 2:40:38 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	123.7388 ppm	0.2259 ppm	0.0115 ppm	0.0899 ppm	0.0033 ppm	10.1937 ppm
Concentration per Run 1	0.0003 ppm	123.6426 ppm	0.2253 ppm	0.0116 ppm	0.0902 ppm	0.0034 ppm	10.2070 ppm
Concentration per Run 2	0.0001 ppm	123.5751 ppm	0.2259 ppm	0.0111 ppm	0.0898 ppm	0.0033 ppm	10.2042 ppm
Concentration per Run 3	-0.0001 ppm	123.9986 ppm	0.2265 ppm	0.0119 ppm	0.0898 ppm	0.0032 ppm	10.1699 ppm
Concentration RSD	270.9 %	0.2 %	0.3 %	3.4 %	0.3 %	2.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.1327 ppm	0.1809 ppm	0.2555 ppm	322.7820 ppm	2.4618 ppm	0.2975 ppm
Concentration per Run 1	0.0014 ppm	0.1349 ppm	0.1834 ppm	0.2595 ppm	323.7985 ppm	2.4612 ppm	0.3006 ppm
Concentration per Run 2	0.0012 ppm	0.1322 ppm	0.1805 ppm	0.2550 ppm	322.4834 ppm	2.4792 ppm	0.2954 ppm
Concentration per Run 3	0.0015 ppm	0.1310 ppm	0.1789 ppm	0.2519 ppm	322.0641 ppm	2.4449 ppm	0.2965 ppm
Concentration RSD	10.7 %	1.5 %	1.3 %	1.5 %	0.3 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.8356 ppm	2.4059 ppm	0.0034 ppm	14.2079 ppm	0.2613 ppm	0.1755 ppm	0.0100 ppm
Concentration per Run 1	45.4557 ppm	2.4074 ppm	0.0034 ppm	14.2398 ppm	0.2650 ppm	0.1740 ppm	0.0079 ppm
Concentration per Run 2	44.7524 ppm	2.4054 ppm	0.0035 ppm	14.2509 ppm	0.2600 ppm	0.1746 ppm	0.0112 ppm
Concentration per Run 3	44.2986 ppm	2.4048 ppm	0.0034 ppm	14.1331 ppm	0.2590 ppm	0.1779 ppm	0.0107 ppm
Concentration RSD	1.3 %	0.1 %	2.3 %	0.5 %	1.2 %	1.2 %	17.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	7.1424 ppm	0.0028 ppm	0.0587 ppm	0.7204 ppm	0.0015 ppm	0.1659 ppm
Concentration per Run 1	0.0007 ppm	7.2733 ppm	0.0029 ppm	0.0592 ppm	0.7294 ppm	0.0004 ppm	0.1680 ppm
Concentration per Run 2	0.0019 ppm	7.1501 ppm	0.0038 ppm	0.0587 ppm	0.7208 ppm	0.0010 ppm	0.1657 ppm
Concentration per Run 3	0.0038 ppm	7.0036 ppm	0.0018 ppm	0.0582 ppm	0.7109 ppm	0.0032 ppm	0.1641 ppm
Concentration RSD	73.0 %	1.9 %	35.5 %	0.8 %	1.3 %	97.3 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5394 ppm	102.2952 %	108.0128 %	94.0157 %	103.3657 %	113.3929 %	108.3862 %
Concentration per Run 1	0.5453 ppm	100.9020 %	108.6240 %	94.3363 %	102.9279 %	114.0258 %	108.8237 %
Concentration per Run 2	0.5393 ppm	102.3031 %	108.1611 %	93.9342 %	103.5412 %	113.8553 %	108.0208 %
Concentration per Run 3	0.5336 ppm	103.6806 %	107.2532 %	93.7766 %	103.6279 %	112.2977 %	108.3142 %
Concentration RSD	1.1 %	1.4 %	0.6 %	0.3 %	0.4 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430426-10D2 WG1933686
Analysis started at: 6/14/2024 2:44:36 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	52.5734 ppm	0.0390 ppm	0.1520 ppm	0.0548 ppm	0.0020 ppm	13.9670 ppm
Concentration per Run 1	0.0000 ppm	52.6005 ppm	0.0371 ppm	0.1520 ppm	0.0552 ppm	0.0020 ppm	13.9743 ppm
Concentration per Run 2	-0.0002 ppm	52.3762 ppm	0.0387 ppm	0.1538 ppm	0.0546 ppm	0.0020 ppm	13.9266 ppm
Concentration per Run 3	0.0000 ppm	52.7435 ppm	0.0413 ppm	0.1502 ppm	0.0547 ppm	0.0019 ppm	14.0002 ppm
Concentration RSD	233.4 %	0.4 %	5.5 %	1.2 %	0.6 %	1.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0360 ppm	0.1056 ppm	0.0355 ppm	130.0405 ppm	7.6013 ppm	0.1513 ppm
Concentration per Run 1	0.0009 ppm	0.0366 ppm	0.1066 ppm	0.0358 ppm	129.8865 ppm	7.5835 ppm	0.1511 ppm
Concentration per Run 2	0.0010 ppm	0.0359 ppm	0.1060 ppm	0.0354 ppm	129.9999 ppm	7.6389 ppm	0.1510 ppm
Concentration per Run 3	0.0010 ppm	0.0356 ppm	0.1042 ppm	0.0352 ppm	130.2351 ppm	7.5817 ppm	0.1518 ppm
Concentration RSD	8.3 %	1.5 %	1.2 %	1.0 %	0.1 %	0.4 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.1339 ppm	0.9859 ppm	0.0204 ppm	27.7891 ppm	0.1042 ppm	0.0302 ppm	0.0053 ppm
Concentration per Run 1	30.5890 ppm	0.9856 ppm	0.0206 ppm	27.7824 ppm	0.1063 ppm	0.0280 ppm	0.0041 ppm
Concentration per Run 2	30.1098 ppm	0.9867 ppm	0.0204 ppm	27.8003 ppm	0.1042 ppm	0.0308 ppm	0.0065 ppm
Concentration per Run 3	29.7029 ppm	0.9855 ppm	0.0203 ppm	27.7845 ppm	0.1023 ppm	0.0316 ppm	0.0053 ppm
Concentration RSD	1.5 %	0.1 %	1.0 %	0.0 %	1.9 %	6.2 %	23.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	4.0859 ppm	0.0020 ppm	0.1033 ppm	1.6255 ppm	0.0011 ppm	0.1384 ppm
Concentration per Run 1	0.0044 ppm	4.1602 ppm	0.0032 ppm	0.1034 ppm	1.6481 ppm	-0.0006 ppm	0.1410 ppm
Concentration per Run 2	0.0052 ppm	4.0951 ppm	0.0016 ppm	0.1030 ppm	1.6237 ppm	0.0016 ppm	0.1378 ppm
Concentration per Run 3	-0.0006 ppm	4.0024 ppm	0.0013 ppm	0.1034 ppm	1.6047 ppm	0.0024 ppm	0.1363 ppm
Concentration RSD	105.3 %	1.9 %	52.2 %	0.2 %	1.3 %	136.0 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2549 ppm	100.7511 %	109.4468 %	96.0322 %	105.4026 %	116.8376 %	110.5907 %
Concentration per Run 1	0.2576 ppm	99.1225 %	109.4594 %	95.6653 %	104.7653 %	116.9697 %	110.7048 %
Concentration per Run 2	0.2551 ppm	101.1249 %	109.1596 %	96.4020 %	105.6918 %	116.8240 %	110.7907 %
Concentration per Run 3	0.2522 ppm	102.0059 %	109.7213 %	96.0291 %	105.7508 %	116.7192 %	110.2765 %
Concentration RSD	1.1 %	1.5 %	0.3 %	0.4 %	0.5 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 2:48:35 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4952 ppm	0.4666 ppm	0.4630 ppm	0.4919 ppm	0.4977 ppm	0.5016 ppm	0.4881 ppm
Concentration per Run 1	0.5021 ppm	0.4685 ppm	0.4667 ppm	0.4999 ppm	0.4965 ppm	0.4988 ppm	0.4884 ppm
Concentration per Run 2	0.4949 ppm	0.4616 ppm	0.4591 ppm	0.4904 ppm	0.4941 ppm	0.5011 ppm	0.4883 ppm
Concentration per Run 3	0.4886 ppm	0.4698 ppm	0.4632 ppm	0.4854 ppm	0.5026 ppm	0.5050 ppm	0.4874 ppm
Recovery Percentage 1	99.038 %	93.324 %	92.602 %	98.374 %	99.548 %	100.325 %	97.610 %
Concentration RSD	1.4 %	0.9 %	0.8 %	1.5 %	0.9 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4896 ppm	0.5031 ppm	0.4862 ppm	0.4889 ppm	0.5152 ppm	5.0067 ppm	0.4683 ppm
Concentration per Run 1	0.4956 ppm	0.5118 ppm	0.4929 ppm	0.4981 ppm	0.5145 ppm	5.0062 ppm	0.4677 ppm
Concentration per Run 2	0.4888 ppm	0.5010 ppm	0.4857 ppm	0.4864 ppm	0.5134 ppm	5.0027 ppm	0.4689 ppm
Concentration per Run 3	0.4846 ppm	0.4967 ppm	0.4799 ppm	0.4823 ppm	0.5176 ppm	5.0114 ppm	0.4684 ppm
Recovery Percentage 1	97.928 %	100.629 %	97.234 %	97.785 %	103.033 %	100.135 %	93.663 %
Concentration RSD	1.1 %	1.5 %	1.3 %	1.7 %	0.4 %	0.1 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4925 ppm	0.4859 ppm	0.4845 ppm	9.9460 ppm	0.5038 ppm	0.4821 ppm	0.4844 ppm
Concentration per Run 1	0.4989 ppm	0.4854 ppm	0.4858 ppm	9.9635 ppm	0.5113 ppm	0.4847 ppm	0.4958 ppm
Concentration per Run 2	0.4929 ppm	0.4873 ppm	0.4834 ppm	9.9678 ppm	0.5033 ppm	0.4812 ppm	0.4758 ppm
Concentration per Run 3	0.4858 ppm	0.4849 ppm	0.4843 ppm	9.9068 ppm	0.4968 ppm	0.4804 ppm	0.4815 ppm
Recovery Percentage 1	98.505 %	97.172 %	96.901 %	99.460 %	100.758 %	96.416 %	96.872 %
Concentration RSD	1.3 %	0.3 %	0.2 %	0.3 %	1.4 %	0.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4746 ppm	5.0906 ppm	0.5178 ppm	0.5087 ppm	0.4938 ppm	0.4759 ppm	0.4899 ppm
Concentration per Run 1	0.4784 ppm	5.1642 ppm	0.5202 ppm	0.5073 ppm	0.5011 ppm	0.4803 ppm	0.4961 ppm
Concentration per Run 2	0.4730 ppm	5.0724 ppm	0.5186 ppm	0.5087 ppm	0.4931 ppm	0.4747 ppm	0.4887 ppm
Concentration per Run 3	0.4724 ppm	5.0353 ppm	0.5146 ppm	0.5101 ppm	0.4871 ppm	0.4727 ppm	0.4849 ppm
Recovery Percentage 1	94.914 %	96.964 %	103.559 %	101.737 %	98.756 %	95.178 %	97.979 %
Concentration RSD	0.7 %	1.3 %	0.6 %	0.3 %	1.4 %	0.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4988 ppm	100.6115 %	105.3621 %	102.2945 %	95.9186 %	101.7972 %	100.2663 %
Concentration per Run 1	0.5046 ppm	99.2003 %	105.3876 %	101.2064 %	95.4447 %	101.8154 %	99.5460 %
Concentration per Run 2	0.4979 ppm	100.9327 %	105.1313 %	102.5560 %	96.0627 %	101.7205 %	100.5272 %
Concentration per Run 3	0.4940 ppm	101.7014 %	105.5674 %	103.1210 %	96.2485 %	101.8558 %	100.7257 %
Recovery Percentage 1	99.766 %						
Concentration RSD	1.1 %	1.3 %	0.2 %	1.0 %	0.4 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 2:52:33 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0025 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	-0.0004 ppm	0.0009 ppm	-0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	-0.0001 ppm	-0.0059 ppm	0.0017 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0068 ppm
Concentration per Run 3	0.0001 ppm	-0.0025 ppm	0.0019 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Recovery Percentage 1	-1.845 %	-2.504 %	34.404 %	1.026 %	-0.197 %	-0.518 %	3.348 %
Concentration RSD	214.4 %	134.2 %	129.1 %	100.9 %	345.6 %	294.4 %	88.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0046 ppm	-0.0126 ppm	-0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0006 ppm	0.0029 ppm	0.0181 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0058 ppm	-0.0045 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0003 ppm	0.0006 ppm	0.0052 ppm	-0.0515 ppm	0.0002 ppm
Recovery Percentage 1	-0.974 %	1.564 %	-0.080 %	5.390 %	9.273 %	-0.504 %	-3.156 %
Concentration RSD	57.3 %	122.6 %	3,145.2 %	16.1 %	33.1 %	281.4 %	169.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0014 ppm	-0.0195 ppm	-0.0007 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	-0.0010 ppm	0.0000 ppm	0.0017 ppm	-0.0208 ppm	-0.0009 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0011 ppm	-0.0213 ppm	-0.0008 ppm	-0.0006 ppm	0.0043 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0015 ppm	-0.0165 ppm	-0.0006 ppm	0.0000 ppm	0.0021 ppm
Recovery Percentage 1	-0.256 %	0.009 %	2.872 %	-0.976 %	-2.991 %	-0.334 %	4.700 %
Concentration RSD	270.0 %	1,793.0 %	23.5 %	13.6 %	16.1 %	1,478.9 %	80.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0052 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	0.0023 ppm	0.0072 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0043 ppm	0.0009 ppm	0.0002 ppm	0.0003 ppm	-0.0012 ppm	-0.0003 ppm
Concentration per Run 3	0.0003 ppm	0.0040 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0023 ppm	0.0002 ppm
Recovery Percentage 1	9.669 %	1.030 %	1.043 %	1.165 %	1.465 %	-8.178 %	-1.096 %
Concentration RSD	118.0 %	34.1 %	76.5 %	106.5 %	97.5 %	36.5 %	247.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	97.2373 %	101.6656 %	99.2779 %	96.9316 %	101.4067 %	99.9564 %
Concentration per Run 1	0.0005 ppm	95.7046 %	101.5136 %	98.7444 %	96.3790 %	101.9175 %	100.3612 %
Concentration per Run 2	0.0006 ppm	97.4533 %	100.4849 %	99.6162 %	97.1362 %	100.3290 %	100.1935 %
Concentration per Run 3	0.0007 ppm	98.5539 %	102.9983 %	99.4729 %	97.2795 %	101.9736 %	99.3145 %
Recovery Percentage 1	11.720 %						
Concentration RSD	16.5 %	1.5 %	1.2 %	0.5 %	0.5 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934323-1 WG1934323
Analysis started at: 6/14/2024 3:11:15 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0077 ppm	0.0021 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0100 ppm
Concentration per Run 1	-0.0001 ppm	-0.0071 ppm	0.0022 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 2	-0.0003 ppm	-0.0065 ppm	0.0018 ppm	-0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 3	-0.0001 ppm	-0.0094 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0118 ppm
Recovery Percentage 1	-2.152 %	-7.687 %	70.945 %	-2.376 %	-0.031 %	-0.111 %	10.020 %
Concentration RSD	66.3 %	19.3 %	13.0 %	112.6 %	877.2 %	408.0 %	15.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0014 ppm	0.0032 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0008 ppm	-0.0042 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0001 ppm	-0.0003 ppm	0.0015 ppm	0.0101 ppm	-0.0031 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0019 ppm	0.0037 ppm	-0.0030 ppm
Recovery Percentage 1	-0.383 %	1.224 %	0.665 %	-2.117 %	2.772 %	0.128 %	-30.160 %
Concentration RSD	262.0 %	156.8 %	257.2 %	137.7 %	39.0 %	224.6 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0003 ppm	-0.0177 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0003 ppm	0.0004 ppm	-0.0183 ppm	0.0004 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 2	0.0005 ppm	0.0000 ppm	0.0005 ppm	-0.0185 ppm	-0.0006 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0004 ppm	0.0006 ppm	-0.0001 ppm	-0.0164 ppm	-0.0003 ppm	-0.0007 ppm	0.0004 ppm
Recovery Percentage 1	0.218 %	2.595 %	0.593 %	-0.887 %	-0.644 %	0.308 %	1.120 %
Concentration RSD	184.2 %	119.7 %	103.6 %	6.5 %	319.8 %	2,349.4 %	174.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0064 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0151 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0010 ppm	0.0040 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	2.962 %	1.285 %	1.854 %	0.123 %	1.072 %	-0.208 %	0.196 %
Concentration RSD	451.0 %	120.0 %	49.7 %	419.9 %	146.3 %	1,477.9 %	256.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	109.2770 %	106.4475 %	109.5146 %	99.0238 %	101.5658 %	101.4427 %
Concentration per Run 1	0.0004 ppm	109.2700 %	106.2769 %	109.6163 %	98.8850 %	101.4299 %	101.7570 %
Concentration per Run 2	0.0004 ppm	108.8343 %	106.2548 %	109.6515 %	98.7563 %	101.3927 %	101.2826 %
Concentration per Run 3	0.0003 ppm	109.7268 %	106.8110 %	109.2762 %	99.4301 %	101.8747 %	101.2885 %
Recovery Percentage 1	7.584 %						
Concentration RSD	26.0 %	0.4 %	0.3 %	0.2 %	0.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934323-2 WG1934323
Analysis started at: 6/14/2024 3:15:31 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0536 ppm	1.9108 ppm	0.1242 ppm	1.0439 ppm	2.0651 ppm	0.0518 ppm	10.3432 ppm
Concentration per Run 1	0.0547 ppm	1.9025 ppm	0.1244 ppm	1.0624 ppm	2.0695 ppm	0.0522 ppm	10.4080 ppm
Concentration per Run 2	0.0535 ppm	1.9108 ppm	0.1243 ppm	1.0422 ppm	2.0632 ppm	0.0518 ppm	10.3467 ppm
Concentration per Run 3	0.0527 ppm	1.9191 ppm	0.1238 ppm	1.0270 ppm	2.0624 ppm	0.0515 ppm	10.2748 ppm
Concentration RSD	1.9 %	0.4 %	0.2 %	1.7 %	0.2 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0567 ppm	0.5311 ppm	0.2081 ppm	0.2672 ppm	1.0396 ppm	10.4275 ppm	-0.0020 ppm
Concentration per Run 1	0.0579 ppm	0.5441 ppm	0.2131 ppm	0.2725 ppm	1.0476 ppm	10.4816 ppm	-0.0018 ppm
Concentration per Run 2	0.0569 ppm	0.5290 ppm	0.2077 ppm	0.2671 ppm	1.0376 ppm	10.4586 ppm	-0.0007 ppm
Concentration per Run 3	0.0553 ppm	0.5203 ppm	0.2035 ppm	0.2619 ppm	1.0337 ppm	10.3423 ppm	-0.0034 ppm
Concentration RSD	2.3 %	2.3 %	2.3 %	2.0 %	0.7 %	0.7 %	68.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6209 ppm	0.5120 ppm	0.9814 ppm	10.5736 ppm	0.5329 ppm	0.5453 ppm	0.4318 ppm
Concentration per Run 1	10.8674 ppm	0.5147 ppm	0.9826 ppm	10.6580 ppm	0.5467 ppm	0.5499 ppm	0.4355 ppm
Concentration per Run 2	10.5936 ppm	0.5127 ppm	0.9836 ppm	10.5962 ppm	0.5312 ppm	0.5464 ppm	0.4351 ppm
Concentration per Run 3	10.4016 ppm	0.5085 ppm	0.9780 ppm	10.4665 ppm	0.5208 ppm	0.5394 ppm	0.4247 ppm
Concentration RSD	2.2 %	0.6 %	0.3 %	0.9 %	2.4 %	1.0 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1234 ppm	1.0662 ppm	0.9608 ppm	1.0222 ppm	1.0678 ppm	0.1231 ppm	0.5352 ppm
Concentration per Run 1	0.1268 ppm	1.0882 ppm	0.9602 ppm	1.0271 ppm	1.0898 ppm	0.1237 ppm	0.5475 ppm
Concentration per Run 2	0.1243 ppm	1.0688 ppm	0.9590 ppm	1.0222 ppm	1.0665 ppm	0.1238 ppm	0.5342 ppm
Concentration per Run 3	0.1191 ppm	1.0417 ppm	0.9631 ppm	1.0174 ppm	1.0471 ppm	0.1218 ppm	0.5241 ppm
Concentration RSD	3.2 %	2.2 %	0.2 %	0.5 %	2.0 %	0.9 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5409 ppm	93.1828 %	101.3921 %	94.5955 %	95.6612 %	102.1656 %	98.9813 %
Concentration per Run 1	0.5532 ppm	91.3831 %	100.9157 %	93.5730 %	94.9050 %	102.4187 %	99.0396 %
Concentration per Run 2	0.5402 ppm	93.3787 %	101.1941 %	94.3659 %	96.1146 %	101.9998 %	98.8367 %
Concentration per Run 3	0.5293 ppm	94.7867 %	102.0664 %	95.8475 %	95.9639 %	102.0783 %	99.0677 %
Concentration RSD	2.2 %	1.8 %	0.6 %	1.2 %	0.7 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2433209-01 WG1934323
Analysis started at: 6/14/2024 3:19:29 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0777 ppm	0.0027 ppm	0.0709 ppm	0.5654 ppm	0.0000 ppm	15.1045 ppm
Concentration per Run 1	-0.0001 ppm	0.0772 ppm	0.0031 ppm	0.0722 ppm	0.5675 ppm	0.0000 ppm	15.1929 ppm
Concentration per Run 2	0.0001 ppm	0.0764 ppm	0.0024 ppm	0.0704 ppm	0.5661 ppm	0.0000 ppm	15.0397 ppm
Concentration per Run 3	0.0000 ppm	0.0796 ppm	0.0026 ppm	0.0701 ppm	0.5627 ppm	-0.0001 ppm	15.0809 ppm
Concentration RSD	416.3 %	2.1 %	13.3 %	1.6 %	0.4 %	89.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0006 ppm	0.0023 ppm	0.1264 ppm	0.4893 ppm	4.1733 ppm	0.0020 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	0.0026 ppm	0.1297 ppm	0.4921 ppm	4.2340 ppm	0.0028 ppm
Concentration per Run 2	0.0002 ppm	0.0010 ppm	0.0024 ppm	0.1255 ppm	0.4899 ppm	4.1385 ppm	0.0008 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0017 ppm	0.1239 ppm	0.4858 ppm	4.1473 ppm	0.0024 ppm
Concentration RSD	6.9 %	66.5 %	20.4 %	2.3 %	0.7 %	1.3 %	50.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.9826 ppm	0.0877 ppm	0.0143 ppm	45.8830 ppm	0.0907 ppm	0.0048 ppm	0.0042 ppm
Concentration per Run 1	5.1107 ppm	0.0881 ppm	0.0145 ppm	46.0288 ppm	0.0938 ppm	0.0049 ppm	0.0022 ppm
Concentration per Run 2	4.9775 ppm	0.0875 ppm	0.0138 ppm	45.8055 ppm	0.0911 ppm	0.0064 ppm	0.0033 ppm
Concentration per Run 3	4.8596 ppm	0.0874 ppm	0.0147 ppm	45.8146 ppm	0.0872 ppm	0.0031 ppm	0.0070 ppm
Concentration RSD	2.5 %	0.4 %	3.0 %	0.3 %	3.7 %	35.0 %	60.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	1.1651 ppm	0.0021 ppm	0.1486 ppm	0.0236 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0014 ppm	1.1878 ppm	0.0015 ppm	0.1493 ppm	0.0227 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 2	0.0004 ppm	1.1635 ppm	0.0026 ppm	0.1487 ppm	0.0250 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 3	-0.0023 ppm	1.1439 ppm	0.0022 ppm	0.1477 ppm	0.0232 ppm	-0.0007 ppm	0.0003 ppm
Concentration RSD	1,126.0 %	1.9 %	27.4 %	0.6 %	5.2 %	145.2 %	77.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6673 ppm	90.5110 %	99.8960 %	91.9944 %	95.2565 %	103.8213 %	98.7861 %
Concentration per Run 1	0.6826 ppm	89.0607 %	99.7273 %	91.0410 %	94.6428 %	104.2894 %	98.6613 %
Concentration per Run 2	0.6633 ppm	90.5227 %	99.1105 %	92.0256 %	95.1409 %	103.0014 %	98.7495 %
Concentration per Run 3	0.6561 ppm	91.9497 %	100.8502 %	92.9167 %	95.9859 %	104.1732 %	98.9474 %
Concentration RSD	2.1 %	1.6 %	0.9 %	1.0 %	0.7 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934323-3 WG1934323
Analysis started at: 6/14/2024 3:23:52 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0497 ppm	2.0012 ppm	0.1232 ppm	1.0228 ppm	2.5450 ppm	0.0514 ppm	24.2226 ppm
Concentration per Run 1	0.0502 ppm	1.9947 ppm	0.1235 ppm	1.0273 ppm	2.5605 ppm	0.0514 ppm	24.3442 ppm
Concentration per Run 2	0.0492 ppm	2.0101 ppm	0.1224 ppm	1.0291 ppm	2.5492 ppm	0.0514 ppm	24.2465 ppm
Concentration per Run 3	0.0497 ppm	1.9988 ppm	0.1236 ppm	1.0120 ppm	2.5254 ppm	0.0514 ppm	24.0770 ppm
Concentration RSD	1.0 %	0.4 %	0.6 %	0.9 %	0.7 %	0.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0520 ppm	0.4898 ppm	0.1957 ppm	0.3606 ppm	1.5063 ppm	13.9710 ppm	0.0018 ppm
Concentration per Run 1	0.0523 ppm	0.4925 ppm	0.1966 ppm	0.3634 ppm	1.5058 ppm	14.0602 ppm	0.0022 ppm
Concentration per Run 2	0.0520 ppm	0.4901 ppm	0.1955 ppm	0.3603 ppm	1.5009 ppm	13.9929 ppm	0.0025 ppm
Concentration per Run 3	0.0515 ppm	0.4866 ppm	0.1950 ppm	0.3582 ppm	1.5121 ppm	13.8598 ppm	0.0007 ppm
Concentration RSD	0.8 %	0.6 %	0.4 %	0.7 %	0.4 %	0.7 %	55.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.9614 ppm	0.5843 ppm	0.9013 ppm	53.4863 ppm	0.5719 ppm	0.5290 ppm	0.4222 ppm
Concentration per Run 1	14.0998 ppm	0.5864 ppm	0.8881 ppm	53.6913 ppm	0.5739 ppm	0.5310 ppm	0.4203 ppm
Concentration per Run 2	13.9620 ppm	0.5847 ppm	0.9036 ppm	53.4556 ppm	0.5725 ppm	0.5284 ppm	0.4213 ppm
Concentration per Run 3	13.8222 ppm	0.5818 ppm	0.9121 ppm	53.3121 ppm	0.5693 ppm	0.5275 ppm	0.4249 ppm
Concentration RSD	1.0 %	0.4 %	1.3 %	0.4 %	0.4 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1217 ppm	2.0664 ppm	0.9326 ppm	1.1314 ppm	1.0149 ppm	0.1199 ppm	0.5013 ppm
Concentration per Run 1	0.1221 ppm	2.0770 ppm	0.9257 ppm	1.1364 ppm	1.0200 ppm	0.1186 ppm	0.5049 ppm
Concentration per Run 2	0.1200 ppm	2.0717 ppm	0.9330 ppm	1.1294 ppm	1.0143 ppm	0.1202 ppm	0.5005 ppm
Concentration per Run 3	0.1231 ppm	2.0506 ppm	0.9392 ppm	1.1284 ppm	1.0104 ppm	0.1209 ppm	0.4983 ppm
Concentration RSD	1.3 %	0.7 %	0.7 %	0.4 %	0.5 %	1.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1006 ppm	100.7937 %	105.6282 %	96.3011 %	96.4567 %	103.4996 %	99.0772 %
Concentration per Run 1	1.1058 ppm	100.1698 %	105.3750 %	95.9624 %	96.2625 %	103.8891 %	99.1417 %
Concentration per Run 2	1.1001 ppm	100.7685 %	106.2938 %	96.3935 %	96.6394 %	103.7438 %	98.9529 %
Concentration per Run 3	1.0959 ppm	101.4427 %	105.2157 %	96.5474 %	96.4680 %	102.8660 %	99.1369 %
Concentration RSD	0.5 %	0.6 %	0.6 %	0.3 %	0.2 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934323-4 WG1934323
Analysis started at: 6/14/2024 3:29:29 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0849 ppm	0.0022 ppm	0.0572 ppm	0.5140 ppm	0.0000 ppm	13.7950 ppm
Concentration per Run 1	0.0001 ppm	0.0785 ppm	0.0021 ppm	0.0569 ppm	0.5134 ppm	0.0000 ppm	13.8558 ppm
Concentration per Run 2	-0.0002 ppm	0.0872 ppm	0.0024 ppm	0.0578 ppm	0.5140 ppm	0.0000 ppm	13.7202 ppm
Concentration per Run 3	-0.0002 ppm	0.0890 ppm	0.0021 ppm	0.0569 ppm	0.5147 ppm	0.0000 ppm	13.8090 ppm
Concentration RSD	206.7 %	6.6 %	8.0 %	0.8 %	0.1 %	83.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0004 ppm	0.0020 ppm	0.1042 ppm	0.4430 ppm	3.7688 ppm	0.0025 ppm
Concentration per Run 1	0.0002 ppm	0.0008 ppm	0.0020 ppm	0.1038 ppm	0.4431 ppm	3.8088 ppm	0.0023 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0021 ppm	0.1048 ppm	0.4425 ppm	3.7644 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0021 ppm	0.1040 ppm	0.4434 ppm	3.7332 ppm	0.0037 ppm
Concentration RSD	25.6 %	84.9 %	1.5 %	0.5 %	0.1 %	1.0 %	46.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.1299 ppm	0.0798 ppm	0.0126 ppm	41.7013 ppm	0.0758 ppm	0.0032 ppm	0.0020 ppm
Concentration per Run 1	4.1303 ppm	0.0801 ppm	0.0130 ppm	41.7831 ppm	0.0762 ppm	0.0029 ppm	0.0048 ppm
Concentration per Run 2	4.1266 ppm	0.0796 ppm	0.0125 ppm	41.5862 ppm	0.0757 ppm	0.0030 ppm	0.0009 ppm
Concentration per Run 3	4.1327 ppm	0.0799 ppm	0.0121 ppm	41.7346 ppm	0.0754 ppm	0.0037 ppm	0.0004 ppm
Concentration RSD	0.1 %	0.3 %	3.5 %	0.2 %	0.5 %	13.2 %	118.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.9600 ppm	0.0029 ppm	0.1355 ppm	0.0192 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0016 ppm	0.9585 ppm	0.0035 ppm	0.1360 ppm	0.0187 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.9606 ppm	0.0019 ppm	0.1355 ppm	0.0196 ppm	0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.0033 ppm	0.9610 ppm	0.0033 ppm	0.1350 ppm	0.0193 ppm	0.0004 ppm	0.0002 ppm
Concentration RSD	42.8 %	0.1 %	29.6 %	0.3 %	2.4 %	247.7 %	24.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5531 ppm	108.4150 %	108.7418 %	104.1622 %	97.1579 %	102.8575 %	99.7769 %
Concentration per Run 1	0.5527 ppm	108.4159 %	107.9988 %	104.6599 %	96.6695 %	102.1852 %	100.2082 %
Concentration per Run 2	0.5548 ppm	108.8472 %	110.0247 %	104.0316 %	97.8176 %	103.8337 %	99.4525 %
Concentration per Run 3	0.5516 ppm	107.9819 %	108.2019 %	103.7950 %	96.9866 %	102.5536 %	99.6699 %
Concentration RSD	0.3 %	0.4 %	1.0 %	0.4 %	0.6 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934323-5 WG1934323
Analysis started at: 6/14/2024 3:35:57 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0424 ppm	2.0458 ppm	0.1167 ppm	0.9572 ppm	2.4194 ppm	0.0490 ppm	23.0199 ppm
Concentration per Run 1	0.0418 ppm	2.0451 ppm	0.1163 ppm	0.9569 ppm	2.4159 ppm	0.0489 ppm	22.8729 ppm
Concentration per Run 2	0.0426 ppm	2.0311 ppm	0.1157 ppm	0.9562 ppm	2.4108 ppm	0.0489 ppm	23.0013 ppm
Concentration per Run 3	0.0428 ppm	2.0612 ppm	0.1180 ppm	0.9585 ppm	2.4315 ppm	0.0493 ppm	23.1856 ppm
Concentration RSD	1.3 %	0.7 %	1.0 %	0.1 %	0.4 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0468 ppm	0.4373 ppm	0.1764 ppm	0.3188 ppm	1.3973 ppm	13.4889 ppm	0.0024 ppm
Concentration per Run 1	0.0469 ppm	0.4368 ppm	0.1761 ppm	0.3181 ppm	1.3946 ppm	13.4460 ppm	0.0023 ppm
Concentration per Run 2	0.0468 ppm	0.4373 ppm	0.1758 ppm	0.3188 ppm	1.3951 ppm	13.4624 ppm	0.0039 ppm
Concentration per Run 3	0.0466 ppm	0.4379 ppm	0.1773 ppm	0.3194 ppm	1.4021 ppm	13.5584 ppm	0.0010 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.2 %	0.3 %	0.5 %	61.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.8586 ppm	0.5528 ppm	0.8364 ppm	49.6342 ppm	0.5108 ppm	0.5032 ppm	0.3277 ppm
Concentration per Run 1	12.8267 ppm	0.5502 ppm	0.8229 ppm	49.4076 ppm	0.5106 ppm	0.5007 ppm	0.3189 ppm
Concentration per Run 2	12.8676 ppm	0.5510 ppm	0.8372 ppm	49.7079 ppm	0.5097 ppm	0.5036 ppm	0.3282 ppm
Concentration per Run 3	12.8815 ppm	0.5572 ppm	0.8490 ppm	49.7872 ppm	0.5120 ppm	0.5052 ppm	0.3360 ppm
Concentration RSD	0.2 %	0.7 %	1.6 %	0.4 %	0.2 %	0.5 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1168 ppm	1.9824 ppm	1.0217 ppm	1.1273 ppm	0.9656 ppm	0.1139 ppm	0.4519 ppm
Concentration per Run 1	0.1174 ppm	1.9745 ppm	1.0289 ppm	1.1274 ppm	0.9604 ppm	0.1130 ppm	0.4494 ppm
Concentration per Run 2	0.1151 ppm	1.9842 ppm	1.0210 ppm	1.1233 ppm	0.9627 ppm	0.1138 ppm	0.4522 ppm
Concentration per Run 3	0.1178 ppm	1.9885 ppm	1.0152 ppm	1.1312 ppm	0.9739 ppm	0.1150 ppm	0.4540 ppm
Concentration RSD	1.2 %	0.4 %	0.7 %	0.4 %	0.7 %	0.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9603 ppm	112.6160 %	111.3876 %	104.5059 %	95.6127 %	102.5960 %	98.5602 %
Concentration per Run 1	0.9624 ppm	112.7220 %	111.7104 %	105.3447 %	94.9816 %	102.4942 %	98.8508 %
Concentration per Run 2	0.9595 ppm	112.3999 %	111.0898 %	104.7143 %	95.4809 %	102.4356 %	98.5900 %
Concentration per Run 3	0.9591 ppm	112.7261 %	111.3625 %	103.4587 %	96.3758 %	102.8581 %	98.2399 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.9 %	0.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934323-6d5 WG1934323
Analysis started at: 6/14/2024 3:40:12 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0124 ppm	0.0008 ppm	0.0132 ppm	0.1070 ppm	0.0000 ppm	2.8556 ppm
Concentration per Run 1	-0.0001 ppm	0.0161 ppm	0.0001 ppm	0.0131 ppm	0.1072 ppm	0.0000 ppm	2.8702 ppm
Concentration per Run 2	0.0000 ppm	0.0110 ppm	0.0011 ppm	0.0142 ppm	0.1070 ppm	0.0000 ppm	2.8601 ppm
Concentration per Run 3	-0.0004 ppm	0.0100 ppm	0.0011 ppm	0.0122 ppm	0.1068 ppm	0.0000 ppm	2.8366 ppm
Concentration RSD	100.2 %	26.5 %	70.4 %	7.6 %	0.2 %	187.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0232 ppm	0.0963 ppm	0.8040 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0238 ppm	0.0953 ppm	0.8386 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0231 ppm	0.0993 ppm	0.8080 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0228 ppm	0.0943 ppm	0.7654 ppm	0.0007 ppm
Concentration RSD	230.5 %	50.4 %	32.3 %	2.1 %	2.7 %	4.6 %	468.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9205 ppm	0.0169 ppm	0.0076 ppm	8.7994 ppm	0.0160 ppm	0.0009 ppm	0.0085 ppm
Concentration per Run 1	0.9428 ppm	0.0168 ppm	0.0080 ppm	8.8229 ppm	0.0167 ppm	0.0014 ppm	0.0086 ppm
Concentration per Run 2	0.9172 ppm	0.0170 ppm	0.0075 ppm	8.8594 ppm	0.0156 ppm	0.0008 ppm	0.0065 ppm
Concentration per Run 3	0.9015 ppm	0.0167 ppm	0.0072 ppm	8.7159 ppm	0.0158 ppm	0.0005 ppm	0.0105 ppm
Concentration RSD	2.3 %	1.0 %	5.8 %	0.8 %	3.6 %	50.5 %	23.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.2153 ppm	0.0061 ppm	0.0280 ppm	0.0094 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.2177 ppm	0.0061 ppm	0.0282 ppm	0.0089 ppm	-0.0027 ppm	0.0001 ppm
Concentration per Run 2	0.0019 ppm	0.2161 ppm	0.0057 ppm	0.0280 ppm	0.0101 ppm	-0.0023 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.2122 ppm	0.0065 ppm	0.0278 ppm	0.0093 ppm	-0.0011 ppm	-0.0002 ppm
Concentration RSD	86.0 %	1.3 %	6.8 %	0.7 %	6.9 %	40.4 %	241.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1200 ppm	97.8003 %	103.6235 %	99.0840 %	96.0426 %	101.4523 %	99.4294 %
Concentration per Run 1	0.1222 ppm	96.0713 %	103.5380 %	98.4891 %	95.5560 %	101.8530 %	99.4896 %
Concentration per Run 2	0.1208 ppm	97.5211 %	103.5838 %	99.1474 %	95.7864 %	101.2820 %	99.6056 %
Concentration per Run 3	0.1171 ppm	99.8087 %	103.7486 %	99.6156 %	96.7854 %	101.2219 %	99.1929 %
Concentration RSD	2.2 %	1.9 %	0.1 %	0.6 %	0.7 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 3:44:10 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5008 ppm	0.4720 ppm	0.4732 ppm	0.4931 ppm	0.5061 ppm	0.5054 ppm	0.4887 ppm
Concentration per Run 1	0.5063 ppm	0.4784 ppm	0.4755 ppm	0.5008 ppm	0.5097 ppm	0.5054 ppm	0.4935 ppm
Concentration per Run 2	0.5017 ppm	0.4714 ppm	0.4744 ppm	0.4945 ppm	0.5039 ppm	0.5069 ppm	0.4886 ppm
Concentration per Run 3	0.4945 ppm	0.4663 ppm	0.4697 ppm	0.4840 ppm	0.5048 ppm	0.5039 ppm	0.4841 ppm
Recovery Percentage 1	100.162 %	94.406 %	94.633 %	98.614 %	101.228 %	101.082 %	97.744 %
Concentration RSD	1.2 %	1.3 %	0.7 %	1.7 %	0.6 %	0.3 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4928 ppm	0.5093 ppm	0.4900 ppm	0.4934 ppm	0.5095 ppm	5.0096 ppm	0.4684 ppm
Concentration per Run 1	0.5018 ppm	0.5182 ppm	0.4989 ppm	0.4996 ppm	0.5122 ppm	5.0250 ppm	0.4682 ppm
Concentration per Run 2	0.4921 ppm	0.5085 ppm	0.4900 ppm	0.4934 ppm	0.5099 ppm	5.0215 ppm	0.4685 ppm
Concentration per Run 3	0.4845 ppm	0.5013 ppm	0.4811 ppm	0.4871 ppm	0.5066 ppm	4.9824 ppm	0.4686 ppm
Recovery Percentage 1	98.555 %	101.869 %	97.997 %	98.677 %	101.906 %	100.192 %	93.686 %
Concentration RSD	1.8 %	1.7 %	1.8 %	1.3 %	0.6 %	0.5 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4930 ppm	0.4873 ppm	0.4914 ppm	10.0278 ppm	0.5092 ppm	0.4881 ppm	0.4913 ppm
Concentration per Run 1	0.4999 ppm	0.4889 ppm	0.4962 ppm	10.0687 ppm	0.5183 ppm	0.4935 ppm	0.4958 ppm
Concentration per Run 2	0.4943 ppm	0.4869 ppm	0.4899 ppm	10.0521 ppm	0.5089 ppm	0.4836 ppm	0.4922 ppm
Concentration per Run 3	0.4849 ppm	0.4861 ppm	0.4882 ppm	9.9625 ppm	0.5003 ppm	0.4871 ppm	0.4861 ppm
Recovery Percentage 1	98.608 %	97.464 %	98.286 %	100.278 %	101.831 %	97.613 %	98.267 %
Concentration RSD	1.5 %	0.3 %	0.8 %	0.6 %	1.8 %	1.0 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4807 ppm	5.1390 ppm	0.5198 ppm	0.5112 ppm	0.4995 ppm	0.4844 ppm	0.4954 ppm
Concentration per Run 1	0.4839 ppm	5.2207 ppm	0.5176 ppm	0.5105 ppm	0.5084 ppm	0.4906 ppm	0.5028 ppm
Concentration per Run 2	0.4821 ppm	5.1272 ppm	0.5214 ppm	0.5129 ppm	0.4994 ppm	0.4822 ppm	0.4956 ppm
Concentration per Run 3	0.4762 ppm	5.0691 ppm	0.5203 ppm	0.5102 ppm	0.4905 ppm	0.4803 ppm	0.4879 ppm
Recovery Percentage 1	96.143 %	97.886 %	103.958 %	102.235 %	99.890 %	96.871 %	99.083 %
Concentration RSD	0.8 %	1.5 %	0.4 %	0.3 %	1.8 %	1.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5036 ppm	99.4031 %	105.1119 %	100.6738 %	95.5101 %	101.4478 %	98.9374 %
Concentration per Run 1	0.5127 ppm	97.9143 %	104.0828 %	99.8552 %	95.3732 %	100.8993 %	98.9676 %
Concentration per Run 2	0.5045 ppm	99.0226 %	104.9747 %	100.7232 %	95.0903 %	101.2675 %	98.7916 %
Concentration per Run 3	0.4937 ppm	101.2724 %	106.2781 %	101.4430 %	96.0666 %	102.1764 %	99.0530 %
Recovery Percentage 1	100.723 %						
Concentration RSD	1.9 %	1.7 %	1.1 %	0.8 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 3:48:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0137 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	-0.0001 ppm	-0.0142 ppm	0.0009 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 2	0.0001 ppm	-0.0155 ppm	-0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 3	-0.0003 ppm	-0.0115 ppm	-0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Recovery Percentage 1	-0.933 %	-13.724 %	2.670 %	2.613 %	1.053 %	-0.371 %	4.300 %
Concentration RSD	301.0 %	14.7 %	928.3 %	51.6 %	96.9 %	250.1 %	66.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0045 ppm	-0.0142 ppm	-0.0036 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0029 ppm	-0.0034 ppm	-0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0003 ppm	0.0063 ppm	-0.0320 ppm	-0.0033 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0042 ppm	-0.0072 ppm	-0.0054 ppm
Recovery Percentage 1	1.289 %	1.138 %	-1.503 %	4.254 %	8.983 %	-0.569 %	-36.138 %
Concentration RSD	19.9 %	62.8 %	43.8 %	24.0 %	38.2 %	109.3 %	45.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0020 ppm	-0.0123 ppm	-0.0003 ppm	0.0003 ppm	0.0017 ppm
Concentration per Run 1	-0.0010 ppm	-0.0001 ppm	0.0019 ppm	-0.0102 ppm	-0.0009 ppm	-0.0001 ppm	0.0029 ppm
Concentration per Run 2	-0.0003 ppm	0.0002 ppm	0.0019 ppm	-0.0126 ppm	0.0000 ppm	0.0007 ppm	0.0012 ppm
Concentration per Run 3	0.0011 ppm	0.0002 ppm	0.0023 ppm	-0.0140 ppm	0.0001 ppm	0.0004 ppm	0.0008 ppm
Recovery Percentage 1	-0.064 %	0.991 %	4.078 %	-0.613 %	-1.067 %	3.265 %	3.346 %
Concentration RSD	1,653.2 %	176.9 %	9.9 %	15.9 %	205.4 %	113.4 %	67.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0029 ppm	0.0016 ppm	0.0000 ppm	0.0001 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0017 ppm	0.0020 ppm	0.0000 ppm	0.0002 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0031 ppm	0.0013 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 3	0.0003 ppm	-0.0039 ppm	0.0016 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	-0.0004 ppm
Recovery Percentage 1	-1.914 %	-0.576 %	3.261 %	0.485 %	1.337 %	-5.774 %	-2.407 %
Concentration RSD	325.7 %	39.0 %	19.7 %	28.8 %	123.5 %	70.6 %	112.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	95.6425 %	100.6392 %	97.9776 %	96.4409 %	100.8076 %	99.2078 %
Concentration per Run 1	0.0004 ppm	93.4474 %	100.4672 %	96.9337 %	95.6437 %	100.8026 %	98.9565 %
Concentration per Run 2	0.0004 ppm	96.1469 %	100.0334 %	98.1557 %	96.9683 %	100.3331 %	99.3194 %
Concentration per Run 3	0.0007 ppm	97.3333 %	101.4171 %	98.8434 %	96.7107 %	101.2870 %	99.3476 %
Recovery Percentage 1	10.599 %						
Concentration RSD	34.7 %	2.1 %	0.7 %	1.0 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431874-01D2 WG1933686
Analysis started at: 6/14/2024 3:54:08 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	52.9154 ppm	0.0289 ppm	0.0087 ppm	0.2545 ppm	0.0053 ppm	22.1174 ppm
Concentration per Run 1	-0.0005 ppm	52.9526 ppm	0.0262 ppm	0.0083 ppm	0.2530 ppm	0.0052 ppm	22.0215 ppm
Concentration per Run 2	-0.0001 ppm	52.7697 ppm	0.0290 ppm	0.0079 ppm	0.2543 ppm	0.0053 ppm	22.0526 ppm
Concentration per Run 3	-0.0005 ppm	53.0239 ppm	0.0317 ppm	0.0100 ppm	0.2562 ppm	0.0054 ppm	22.2782 ppm
Concentration RSD	70.7 %	0.2 %	9.5 %	12.6 %	0.6 %	1.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.3077 ppm	0.1176 ppm	0.5677 ppm	239.4099 ppm	7.1719 ppm	0.0316 ppm
Concentration per Run 1	0.0031 ppm	0.2960 ppm	0.1134 ppm	0.5476 ppm	238.1397 ppm	7.1809 ppm	0.0322 ppm
Concentration per Run 2	0.0033 ppm	0.3089 ppm	0.1183 ppm	0.5684 ppm	238.8163 ppm	7.1769 ppm	0.0315 ppm
Concentration per Run 3	0.0034 ppm	0.3181 ppm	0.1211 ppm	0.5872 ppm	241.2737 ppm	7.1579 ppm	0.0311 ppm
Concentration RSD	3.5 %	3.6 %	3.3 %	3.5 %	0.7 %	0.2 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.0852 ppm	2.1326 ppm	0.0158 ppm	1.3071 ppm	0.0950 ppm	1.3499 ppm	0.0033 ppm
Concentration per Run 1	10.7156 ppm	2.1254 ppm	0.0151 ppm	1.3009 ppm	0.0916 ppm	1.3370 ppm	0.0023 ppm
Concentration per Run 2	11.1257 ppm	2.1254 ppm	0.0157 ppm	1.3011 ppm	0.0951 ppm	1.3501 ppm	0.0052 ppm
Concentration per Run 3	11.4142 ppm	2.1470 ppm	0.0167 ppm	1.3194 ppm	0.0982 ppm	1.3627 ppm	0.0024 ppm
Concentration RSD	3.2 %	0.6 %	5.1 %	0.8 %	3.5 %	1.0 %	49.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	3.2564 ppm	0.1732 ppm	0.1816 ppm	2.8063 ppm	0.0035 ppm	0.2289 ppm
Concentration per Run 1	0.0012 ppm	3.1487 ppm	0.1713 ppm	0.1802 ppm	2.7081 ppm	0.0039 ppm	0.2218 ppm
Concentration per Run 2	0.0029 ppm	3.2386 ppm	0.1739 ppm	0.1814 ppm	2.8200 ppm	0.0032 ppm	0.2298 ppm
Concentration per Run 3	0.0002 ppm	3.3820 ppm	0.1745 ppm	0.1832 ppm	2.8909 ppm	0.0035 ppm	0.2352 ppm
Concentration RSD	92.9 %	3.6 %	1.0 %	0.8 %	3.3 %	10.2 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2981 ppm	129.1738 %	120.6335 %	106.2233 %	138.8561 %	**152.2452 %**	143.6434 %
Concentration per Run 1	0.2862 ppm	133.3960 %	120.7657 %	107.4919 %	138.4278 %	**151.7176 %**	143.3096 %
Concentration per Run 2	0.3003 ppm	128.6439 %	121.4700 %	105.7759 %	138.7115 %	**153.2969 %**	143.0636 %
Concentration per Run 3	0.3078 ppm	125.4816 %	119.6648 %	105.4021 %	139.4291 %	**151.7211 %**	144.5568 %
Concentration RSD	3.7 %	3.1 %	0.8 %	1.0 %	0.4 %	**0.6 %**	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: eL2431874-02D2 WG1933686
Analysis started at: 6/14/2024 3:58:23 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	46.8647 ppm	0.3098 ppm	0.0375 ppm	0.5639 ppm	0.0042 ppm	44.0228 ppm
Concentration per Run 1	-0.0002 ppm	46.9600 ppm	0.3094 ppm	0.0381 ppm	0.5646 ppm	0.0042 ppm	43.9252 ppm
Concentration per Run 2	-0.0008 ppm	46.9564 ppm	0.3104 ppm	0.0382 ppm	0.5646 ppm	0.0042 ppm	44.1196 ppm
Concentration per Run 3	0.0002 ppm	46.6776 ppm	0.3096 ppm	0.0361 ppm	0.5626 ppm	0.0041 ppm	44.0235 ppm
Concentration RSD	184.3 %	0.3 %	0.2 %	3.1 %	0.2 %	1.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0136 ppm	0.1593 ppm	0.2920 ppm	5.2507 ppm	850.6380 ppm	6.5327 ppm	0.0503 ppm
Concentration per Run 1	0.0134 ppm	0.1600 ppm	0.2949 ppm	5.2912 ppm	850.3926 ppm	6.5984 ppm	0.0514 ppm
Concentration per Run 2	0.0135 ppm	0.1591 ppm	0.2914 ppm	5.2279 ppm	850.4882 ppm	6.5346 ppm	0.0493 ppm
Concentration per Run 3	0.0138 ppm	0.1589 ppm	0.2897 ppm	5.2332 ppm	851.0331 ppm	6.4652 ppm	0.0502 ppm
Concentration RSD	1.2 %	0.4 %	0.9 %	0.7 %	0.0 %	1.0 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3255 ppm	4.5074 ppm	0.0269 ppm	1.8405 ppm	0.2789 ppm	3.1393 ppm	0.0502 ppm
Concentration per Run 1	15.4251 ppm	4.5045 ppm	0.0263 ppm	1.8325 ppm	0.2825 ppm	3.1415 ppm	0.0510 ppm
Concentration per Run 2	15.3300 ppm	4.5173 ppm	0.0274 ppm	1.8444 ppm	0.2777 ppm	3.1484 ppm	0.0497 ppm
Concentration per Run 3	15.2214 ppm	4.5006 ppm	0.0270 ppm	1.8446 ppm	0.2766 ppm	3.1280 ppm	0.0498 ppm
Concentration RSD	0.7 %	0.2 %	2.0 %	0.4 %	1.1 %	0.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0137 ppm	3.8859 ppm	0.1574 ppm	0.4561 ppm	2.8665 ppm	0.0085 ppm	0.3077 ppm
Concentration per Run 1	0.0132 ppm	3.9241 ppm	0.1569 ppm	0.4554 ppm	2.8897 ppm	0.0086 ppm	0.3108 ppm
Concentration per Run 2	0.0148 ppm	3.8855 ppm	0.1597 ppm	0.4565 ppm	2.8577 ppm	0.0076 ppm	0.3071 ppm
Concentration per Run 3	0.0131 ppm	3.8481 ppm	0.1555 ppm	0.4563 ppm	2.8521 ppm	0.0092 ppm	0.3052 ppm
Concentration RSD	7.0 %	1.0 %	1.3 %	0.1 %	0.7 %	9.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.9610 ppm	103.7230 %	113.5515 %	85.6543 %	130.0748 %	149.6657 %	134.5844 %
Concentration per Run 1	5.0093 ppm	103.1998 %	113.9980 %	85.4913 %	130.1435 %	149.9014 %	134.7271 %
Concentration per Run 2	4.9537 ppm	103.2464 %	113.2226 %	85.2691 %	129.1515 %	149.1837 %	134.3323 %
Concentration per Run 3	4.9200 ppm	104.7228 %	113.4340 %	86.2024 %	130.9294 %	149.9121 %	134.6939 %
Concentration RSD	0.9 %	0.8 %	0.4 %	0.6 %	0.7 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 4:02:22 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4981 ppm	0.4670 ppm	0.4682 ppm	0.4896 ppm	0.4994 ppm	0.5037 ppm	0.4861 ppm
Concentration per Run 1	0.5043 ppm	0.4674 ppm	0.4665 ppm	0.4944 ppm	0.4970 ppm	0.5028 ppm	0.4875 ppm
Concentration per Run 2	0.4970 ppm	0.4632 ppm	0.4728 ppm	0.4916 ppm	0.5014 ppm	0.5045 ppm	0.4842 ppm
Concentration per Run 3	0.4930 ppm	0.4705 ppm	0.4652 ppm	0.4830 ppm	0.4998 ppm	0.5037 ppm	0.4865 ppm
Recovery Percentage 1	99.622 %	93.406 %	93.637 %	97.926 %	99.875 %	100.735 %	97.214 %
Concentration RSD	1.1 %	0.8 %	0.9 %	1.2 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4882 ppm	0.5063 ppm	0.4858 ppm	0.4909 ppm	0.5462 ppm	4.9756 ppm	0.4646 ppm
Concentration per Run 1	0.4954 ppm	0.5141 ppm	0.4945 ppm	0.4973 ppm	0.5487 ppm	5.0355 ppm	0.4649 ppm
Concentration per Run 2	0.4877 ppm	0.5047 ppm	0.4838 ppm	0.4903 ppm	0.5492 ppm	4.9502 ppm	0.4623 ppm
Concentration per Run 3	0.4814 ppm	0.5000 ppm	0.4792 ppm	0.4852 ppm	0.5407 ppm	4.9409 ppm	0.4665 ppm
Recovery Percentage 1	97.632 %	101.256 %	97.168 %	98.186 %	109.238 %	99.511 %	92.920 %
Concentration RSD	1.4 %	1.4 %	1.6 %	1.2 %	0.9 %	1.0 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4889 ppm	0.4859 ppm	0.4865 ppm	9.9755 ppm	0.5067 ppm	0.4852 ppm	0.4841 ppm
Concentration per Run 1	0.4960 ppm	0.4872 ppm	0.4894 ppm	9.9733 ppm	0.5142 ppm	0.4845 ppm	0.4896 ppm
Concentration per Run 2	0.4904 ppm	0.4854 ppm	0.4862 ppm	10.0185 ppm	0.5047 ppm	0.4861 ppm	0.4828 ppm
Concentration per Run 3	0.4802 ppm	0.4851 ppm	0.4837 ppm	9.9348 ppm	0.5012 ppm	0.4850 ppm	0.4798 ppm
Recovery Percentage 1	97.772 %	97.178 %	97.290 %	99.755 %	101.336 %	97.040 %	96.816 %
Concentration RSD	1.6 %	0.2 %	0.6 %	0.4 %	1.3 %	0.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4772 ppm	5.0951 ppm	0.5109 ppm	0.5096 ppm	0.4973 ppm	0.4797 ppm	0.4911 ppm
Concentration per Run 1	0.4776 ppm	5.1810 ppm	0.5178 ppm	0.5090 ppm	0.5047 ppm	0.4773 ppm	0.4963 ppm
Concentration per Run 2	0.4801 ppm	5.0725 ppm	0.5091 ppm	0.5109 ppm	0.4968 ppm	0.4829 ppm	0.4918 ppm
Concentration per Run 3	0.4740 ppm	5.0318 ppm	0.5057 ppm	0.5089 ppm	0.4905 ppm	0.4788 ppm	0.4851 ppm
Recovery Percentage 1	95.447 %	97.050 %	102.170 %	101.919 %	99.464 %	95.930 %	98.215 %
Concentration RSD	0.6 %	1.5 %	1.2 %	0.2 %	1.4 %	0.6 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5015 ppm	99.9776 %	105.1813 %	100.9837 %	96.2506 %	101.6265 %	99.1798 %
Concentration per Run 1	0.5107 ppm	98.6910 %	105.5491 %	101.2523 %	95.9116 %	102.3632 %	99.6674 %
Concentration per Run 2	0.5002 ppm	100.2188 %	103.9899 %	100.9376 %	96.5183 %	100.5453 %	99.5102 %
Concentration per Run 3	0.4936 ppm	101.0231 %	106.0050 %	100.7612 %	96.3218 %	101.9710 %	98.3619 %
Recovery Percentage 1	100.300 %						
Concentration RSD	1.7 %	1.2 %	1.0 %	0.2 %	0.3 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 4:06:21 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0123 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	0.0004 ppm	-0.0175 ppm	0.0010 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 2	-0.0001 ppm	-0.0063 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	-0.0133 ppm	0.0011 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0048 ppm
Recovery Percentage 1	2.112 %	-12.346 %	25.593 %	0.629 %	-0.729 %	0.301 %	4.251 %
Concentration RSD	171.5 %	45.7 %	61.7 %	576.2 %	83.3 %	322.8 %	59.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0056 ppm	-0.0065 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0051 ppm	-0.0253 ppm	-0.0043 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0065 ppm	-0.0045 ppm	-0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0052 ppm	0.0103 ppm	-0.0032 ppm
Recovery Percentage 1	0.629 %	1.105 %	1.053 %	4.362 %	11.226 %	-0.261 %	-31.617 %
Concentration RSD	209.8 %	92.1 %	60.4 %	19.3 %	13.4 %	274.1 %	36.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0001 ppm	0.0017 ppm	-0.0230 ppm	-0.0006 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 1	-0.0016 ppm	-0.0002 ppm	0.0019 ppm	-0.0251 ppm	-0.0006 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 2	0.0007 ppm	0.0000 ppm	0.0019 ppm	-0.0239 ppm	-0.0004 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	0.0013 ppm	-0.0200 ppm	-0.0008 ppm	0.0018 ppm	-0.0006 ppm
Recovery Percentage 1	-0.250 %	-0.922 %	3.397 %	-1.150 %	-2.476 %	9.451 %	0.985 %
Concentration RSD	465.7 %	80.7 %	20.2 %	11.5 %	37.5 %	80.4 %	199.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0008 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm	-0.0001 ppm
Concentration per Run 1	0.0012 ppm	0.0028 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0024 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0028 ppm	0.0011 ppm	-0.0001 ppm	0.0001 ppm	-0.0021 ppm	-0.0003 ppm
Concentration per Run 3	0.0023 ppm	-0.0024 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	-0.0023 ppm	0.0001 ppm
Recovery Percentage 1	11.591 %	-0.155 %	2.149 %	0.322 %	0.358 %	-11.335 %	-0.649 %
Concentration RSD	95.3 %	399.4 %	30.2 %	329.5 %	430.0 %	6.0 %	263.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	97.3987 %	101.5692 %	98.6828 %	97.1814 %	101.5568 %	99.5945 %
Concentration per Run 1	0.0007 ppm	95.4512 %	102.1404 %	98.3408 %	96.6704 %	102.6265 %	99.9687 %
Concentration per Run 2	0.0005 ppm	97.8181 %	101.4358 %	98.7503 %	97.6073 %	101.5690 %	99.5434 %
Concentration per Run 3	0.0007 ppm	98.9266 %	101.1314 %	98.9573 %	97.2666 %	100.4749 %	99.2716 %
Recovery Percentage 1	12.567 %						
Concentration RSD	14.0 %	1.8 %	0.5 %	0.3 %	0.5 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431874-02D4 WG1933686
Analysis started at: 6/14/2024 4:10:37 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	28.0034 ppm	0.1478 ppm	0.0193 ppm	0.2897 ppm	0.0021 ppm	23.0674 ppm
Concentration per Run 1	0.0003 ppm	27.8819 ppm	0.1481 ppm	0.0186 ppm	0.2882 ppm	0.0021 ppm	23.0672 ppm
Concentration per Run 2	0.0003 ppm	28.0901 ppm	0.1467 ppm	0.0201 ppm	0.2901 ppm	0.0021 ppm	23.1169 ppm
Concentration per Run 3	0.0008 ppm	28.0382 ppm	0.1484 ppm	0.0193 ppm	0.2907 ppm	0.0021 ppm	23.0180 ppm
Concentration RSD	64.5 %	0.4 %	0.6 %	4.0 %	0.4 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0070 ppm	0.0841 ppm	0.1513 ppm	2.6858 ppm	476.5482 ppm	3.3193 ppm	0.0300 ppm
Concentration per Run 1	0.0070 ppm	0.0858 ppm	0.1535 ppm	2.7215 ppm	475.7407 ppm	3.3368 ppm	0.0297 ppm
Concentration per Run 2	0.0069 ppm	0.0828 ppm	0.1499 ppm	2.6775 ppm	477.3485 ppm	3.3164 ppm	0.0298 ppm
Concentration per Run 3	0.0071 ppm	0.0837 ppm	0.1504 ppm	2.6585 ppm	476.5553 ppm	3.3047 ppm	0.0305 ppm
Concentration RSD	1.6 %	1.8 %	1.3 %	1.2 %	0.2 %	0.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.1430 ppm	2.3629 ppm	0.0136 ppm	0.9268 ppm	0.1476 ppm	1.5606 ppm	0.0232 ppm
Concentration per Run 1	8.2453 ppm	2.3586 ppm	0.0132 ppm	0.9258 ppm	0.1500 ppm	1.5603 ppm	0.0239 ppm
Concentration per Run 2	8.1101 ppm	2.3704 ppm	0.0137 ppm	0.9301 ppm	0.1460 ppm	1.5637 ppm	0.0224 ppm
Concentration per Run 3	8.0737 ppm	2.3596 ppm	0.0139 ppm	0.9246 ppm	0.1468 ppm	1.5579 ppm	0.0233 ppm
Concentration RSD	1.1 %	0.3 %	2.7 %	0.3 %	1.4 %	0.2 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0077 ppm	1.9852 ppm	0.0959 ppm	0.2336 ppm	1.4762 ppm	0.0016 ppm	0.1566 ppm
Concentration per Run 1	0.0059 ppm	2.0229 ppm	0.0959 ppm	0.2337 ppm	1.4944 ppm	0.0023 ppm	0.1594 ppm
Concentration per Run 2	0.0105 ppm	1.9595 ppm	0.0960 ppm	0.2337 ppm	1.4710 ppm	0.0018 ppm	0.1559 ppm
Concentration per Run 3	0.0067 ppm	1.9734 ppm	0.0957 ppm	0.2336 ppm	1.4632 ppm	0.0008 ppm	0.1544 ppm
Concentration RSD	31.5 %	1.7 %	0.2 %	0.0 %	1.1 %	44.3 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6335 ppm	104.5516 %	110.9305 %	92.7729 %	113.4006 %	125.8032 %	117.8398 %
Concentration per Run 1	2.6631 ppm	103.1326 %	111.0546 %	92.8683 %	112.4024 %	126.1262 %	118.0986 %
Concentration per Run 2	2.6022 ppm	105.1993 %	110.6534 %	92.6201 %	113.7255 %	125.4099 %	117.5149 %
Concentration per Run 3	2.6351 ppm	105.3230 %	111.0835 %	92.8303 %	114.0737 %	125.8736 %	117.9060 %
Concentration RSD	1.2 %	1.2 %	0.2 %	0.1 %	0.8 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 4:14:35 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4966 ppm	0.4657 ppm	0.4661 ppm	0.4890 ppm	0.5000 ppm	0.5031 ppm	0.4870 ppm
Concentration per Run 1	0.5025 ppm	0.4602 ppm	0.4645 ppm	0.4956 ppm	0.5015 ppm	0.5037 ppm	0.4874 ppm
Concentration per Run 2	0.4963 ppm	0.4730 ppm	0.4676 ppm	0.4866 ppm	0.4981 ppm	0.5031 ppm	0.4888 ppm
Concentration per Run 3	0.4911 ppm	0.4639 ppm	0.4661 ppm	0.4847 ppm	0.5005 ppm	0.5025 ppm	0.4849 ppm
Recovery Percentage 1	99.328 %	93.132 %	93.215 %	97.792 %	100.005 %	100.622 %	97.405 %
Concentration RSD	1.1 %	1.4 %	0.3 %	1.2 %	0.3 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4875 ppm	0.5044 ppm	0.4856 ppm	0.4872 ppm	0.5434 ppm	4.9466 ppm	0.4617 ppm
Concentration per Run 1	0.4959 ppm	0.5126 ppm	0.4927 ppm	0.4954 ppm	0.5439 ppm	4.9840 ppm	0.4650 ppm
Concentration per Run 2	0.4850 ppm	0.5029 ppm	0.4850 ppm	0.4871 ppm	0.5441 ppm	4.9397 ppm	0.4602 ppm
Concentration per Run 3	0.4817 ppm	0.4977 ppm	0.4789 ppm	0.4790 ppm	0.5422 ppm	4.9161 ppm	0.4600 ppm
Recovery Percentage 1	97.504 %	100.882 %	97.112 %	97.437 %	108.681 %	98.932 %	92.347 %
Concentration RSD	1.5 %	1.5 %	1.4 %	1.7 %	0.2 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4911 ppm	0.4858 ppm	0.4867 ppm	9.9431 ppm	0.5033 ppm	0.4840 ppm	0.4835 ppm
Concentration per Run 1	0.5003 ppm	0.4872 ppm	0.4886 ppm	9.9355 ppm	0.5125 ppm	0.4858 ppm	0.4880 ppm
Concentration per Run 2	0.4884 ppm	0.4858 ppm	0.4864 ppm	9.9459 ppm	0.5019 ppm	0.4829 ppm	0.4821 ppm
Concentration per Run 3	0.4845 ppm	0.4844 ppm	0.4850 ppm	9.9480 ppm	0.4957 ppm	0.4834 ppm	0.4803 ppm
Recovery Percentage 1	98.218 %	97.156 %	97.331 %	99.431 %	100.667 %	96.808 %	96.695 %
Concentration RSD	1.7 %	0.3 %	0.4 %	0.1 %	1.7 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4800 ppm	5.0736 ppm	0.5157 ppm	0.5085 ppm	0.4941 ppm	0.4782 ppm	0.4899 ppm
Concentration per Run 1	0.4805 ppm	5.1347 ppm	0.5161 ppm	0.5079 ppm	0.5030 ppm	0.4808 ppm	0.4986 ppm
Concentration per Run 2	0.4816 ppm	5.0665 ppm	0.5163 ppm	0.5076 ppm	0.4940 ppm	0.4801 ppm	0.4888 ppm
Concentration per Run 3	0.4779 ppm	5.0195 ppm	0.5147 ppm	0.5099 ppm	0.4855 ppm	0.4738 ppm	0.4824 ppm
Recovery Percentage 1	96.001 %	96.640 %	103.133 %	101.691 %	98.828 %	95.643 %	97.980 %
Concentration RSD	0.4 %	1.1 %	0.2 %	0.3 %	1.8 %	0.8 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4999 ppm	100.5900 %	105.6612 %	101.1917 %	95.9446 %	101.9558 %	99.3798 %
Concentration per Run 1	0.5093 ppm	98.7611 %	105.9510 %	100.3754 %	95.4215 %	102.7496 %	99.1398 %
Concentration per Run 2	0.4988 ppm	101.0582 %	105.6618 %	101.4390 %	96.6676 %	101.8763 %	99.5085 %
Concentration per Run 3	0.4917 ppm	101.9507 %	105.3710 %	101.7607 %	95.7448 %	101.2416 %	99.4912 %
Recovery Percentage 1	99.988 %						
Concentration RSD	1.8 %	1.6 %	0.3 %	0.7 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 4:18:32 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0042 ppm	0.0012 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	-0.0004 ppm	-0.0045 ppm	0.0018 ppm	0.0011 ppm	0.0000 ppm	-0.0001 ppm	0.0075 ppm
Concentration per Run 2	-0.0002 ppm	-0.0083 ppm	0.0019 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Recovery Percentage 1	-4.280 %	-4.245 %	41.021 %	2.058 %	-0.643 %	-0.338 %	3.835 %
Concentration RSD	28.2 %	99.1 %	85.3 %	91.2 %	149.2 %	431.0 %	83.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0066 ppm	-0.0083 ppm	-0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0058 ppm	-0.0102 ppm	-0.0039 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0070 ppm	0.0112 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0003 ppm	0.0005 ppm	0.0068 ppm	-0.0260 ppm	-0.0024 ppm
Recovery Percentage 1	0.353 %	1.306 %	0.287 %	3.597 %	13.133 %	-0.333 %	-29.326 %
Concentration RSD	562.3 %	182.1 %	1,134.0 %	55.2 %	9.8 %	224.6 %	29.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0019 ppm	-0.0193 ppm	0.0001 ppm	-0.0005 ppm	0.0020 ppm
Concentration per Run 1	-0.0007 ppm	0.0000 ppm	0.0018 ppm	-0.0209 ppm	0.0004 ppm	-0.0021 ppm	0.0039 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	0.0021 ppm	-0.0212 ppm	0.0002 ppm	0.0013 ppm	-0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0018 ppm	-0.0157 ppm	-0.0003 ppm	-0.0006 ppm	0.0029 ppm
Recovery Percentage 1	-0.080 %	2.514 %	3.753 %	-0.963 %	0.522 %	-4.775 %	4.045 %
Concentration RSD	656.5 %	74.1 %	8.6 %	16.0 %	280.5 %	360.2 %	121.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	-0.0030 ppm	0.0011 ppm	0.0002 ppm	-0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	0.0019 ppm	-0.0023 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0012 ppm	-0.0032 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0022 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0035 ppm	0.0019 ppm	0.0003 ppm	-0.0001 ppm	-0.0018 ppm	-0.0002 ppm
Recovery Percentage 1	11.154 %	-0.598 %	2.215 %	1.919 %	-0.594 %	-7.959 %	-0.989 %
Concentration RSD	77.0 %	20.4 %	66.6 %	39.4 %	36.7 %	46.7 %	125.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	97.1250 %	101.2410 %	98.4784 %	96.6750 %	100.7947 %	99.3166 %
Concentration per Run 1	0.0003 ppm	95.3457 %	100.9345 %	97.7508 %	96.5910 %	100.8595 %	99.3460 %
Concentration per Run 2	0.0008 ppm	97.4150 %	101.4995 %	97.9132 %	96.7067 %	101.2458 %	98.9614 %
Concentration per Run 3	0.0010 ppm	98.6143 %	101.2890 %	99.7712 %	96.7274 %	100.2789 %	99.6425 %
Recovery Percentage 1	14.426 %						
Concentration RSD	51.7 %	1.7 %	0.3 %	1.1 %	0.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432150-01D2 WG1933686
Analysis started at: 6/14/2024 4:25:19 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	60.3090 ppm	0.0739 ppm	0.0071 ppm	1.0642 ppm	0.0104 ppm	53.3887 ppm
Concentration per Run 1	0.0009 ppm	60.2226 ppm	0.0725 ppm	0.0066 ppm	1.0558 ppm	0.0103 ppm	53.1073 ppm
Concentration per Run 2	0.0012 ppm	60.2379 ppm	0.0723 ppm	0.0075 ppm	1.0627 ppm	0.0104 ppm	53.3354 ppm
Concentration per Run 3	0.0009 ppm	60.4665 ppm	0.0768 ppm	0.0073 ppm	1.0739 ppm	0.0105 ppm	53.7234 ppm
Concentration RSD	19.5 %	0.2 %	3.4 %	6.9 %	0.9 %	0.6 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0818 ppm	0.1128 ppm	0.1993 ppm	282.0195 ppm	4.6692 ppm	0.0234 ppm
Concentration per Run 1	0.0020 ppm	0.0786 ppm	0.1086 ppm	0.1917 ppm	280.0805 ppm	4.6768 ppm	0.0239 ppm
Concentration per Run 2	0.0024 ppm	0.0823 ppm	0.1133 ppm	0.2007 ppm	281.3080 ppm	4.6680 ppm	0.0229 ppm
Concentration per Run 3	0.0021 ppm	0.0846 ppm	0.1165 ppm	0.2055 ppm	284.6700 ppm	4.6628 ppm	0.0233 ppm
Concentration RSD	9.1 %	3.7 %	3.6 %	3.5 %	0.8 %	0.2 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.2770 ppm	8.4722 ppm	0.0077 ppm	2.0472 ppm	0.0844 ppm	0.2289 ppm	0.0055 ppm
Concentration per Run 1	30.1124 ppm	8.4131 ppm	0.0071 ppm	2.0412 ppm	0.0821 ppm	0.2265 ppm	0.0041 ppm
Concentration per Run 2	31.4159 ppm	8.4776 ppm	0.0081 ppm	2.0446 ppm	0.0845 ppm	0.2276 ppm	0.0048 ppm
Concentration per Run 3	32.3027 ppm	8.5258 ppm	0.0079 ppm	2.0559 ppm	0.0868 ppm	0.2325 ppm	0.0076 ppm
Concentration RSD	3.5 %	0.7 %	6.7 %	0.4 %	2.8 %	1.4 %	33.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	3.2093 ppm	0.0035 ppm	0.1178 ppm	2.7772 ppm	0.0045 ppm	0.1946 ppm
Concentration per Run 1	0.0025 ppm	3.1052 ppm	0.0031 ppm	0.1173 ppm	2.6727 ppm	0.0043 ppm	0.1866 ppm
Concentration per Run 2	0.0005 ppm	3.2154 ppm	0.0040 ppm	0.1174 ppm	2.7829 ppm	0.0039 ppm	0.1949 ppm
Concentration per Run 3	0.0022 ppm	3.3072 ppm	0.0034 ppm	0.1186 ppm	2.8758 ppm	0.0053 ppm	0.2025 ppm
Concentration RSD	60.4 %	3.2 %	11.7 %	0.6 %	3.7 %	15.9 %	4.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5841 ppm	126.9935 %	119.1249 %	102.0111 %	**265.4639 %**	**296.1890 %**	**279.7177 %**
Concentration per Run 1	0.5610 ppm	131.3169 %	119.0961 %	103.5559 %	**264.3627 %**	**294.4527 %**	**279.7782 %**
Concentration per Run 2	0.5846 ppm	126.3680 %	120.3334 %	101.9392 %	**265.4731 %**	**299.7754 %**	**279.2209 %**
Concentration per Run 3	0.6067 ppm	123.2956 %	117.9452 %	100.5383 %	**266.5559 %**	**294.3390 %**	**280.1540 %**
Concentration RSD	3.9 %	3.2 %	1.0 %	1.5 %	**0.4 %**	**1.0 %**	**0.2 %**

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432167-01D2 WG1933686
Analysis started at: 6/14/2024 4:29:37 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	2.7140 ppm	0.0019 ppm	0.0034 ppm	0.0095 ppm	0.0001 ppm	0.4643 ppm
Concentration per Run 1	0.0003 ppm	2.7218 ppm	0.0013 ppm	0.0043 ppm	0.0095 ppm	0.0001 ppm	0.4624 ppm
Concentration per Run 2	-0.0002 ppm	2.7115 ppm	0.0004 ppm	0.0031 ppm	0.0094 ppm	0.0000 ppm	0.4675 ppm
Concentration per Run 3	0.0002 ppm	2.7088 ppm	0.0041 ppm	0.0027 ppm	0.0095 ppm	0.0001 ppm	0.4630 ppm
Concentration RSD	286.9 %	0.3 %	99.4 %	24.6 %	0.8 %	27.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0014 ppm	0.0143 ppm	0.0392 ppm	6.0596 ppm	0.6358 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0015 ppm	0.0141 ppm	0.0400 ppm	6.1126 ppm	0.6566 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0013 ppm	0.0145 ppm	0.0389 ppm	6.0442 ppm	0.6272 ppm	0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	0.0141 ppm	0.0387 ppm	6.0221 ppm	0.6237 ppm	-0.0003 ppm
Concentration RSD	13.4 %	9.6 %	1.6 %	1.9 %	0.8 %	2.8 %	130.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7578 ppm	0.0291 ppm	0.0002 ppm	0.1450 ppm	0.0020 ppm	0.0157 ppm	0.0016 ppm
Concentration per Run 1	0.7768 ppm	0.0295 ppm	0.0004 ppm	0.1458 ppm	0.0022 ppm	0.0163 ppm	0.0025 ppm
Concentration per Run 2	0.7547 ppm	0.0291 ppm	0.0000 ppm	0.1444 ppm	0.0018 ppm	0.0148 ppm	0.0024 ppm
Concentration per Run 3	0.7420 ppm	0.0287 ppm	0.0002 ppm	0.1449 ppm	0.0021 ppm	0.0160 ppm	-0.0001 ppm
Concentration RSD	2.3 %	1.3 %	117.4 %	0.5 %	10.7 %	5.0 %	91.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.4555 ppm	0.0050 ppm	0.0042 ppm	0.3689 ppm	-0.0001 ppm	0.0099 ppm
Concentration per Run 1	0.0007 ppm	1.4780 ppm	0.0047 ppm	0.0041 ppm	0.3767 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 2	0.0005 ppm	1.4751 ppm	0.0046 ppm	0.0043 ppm	0.3675 ppm	-0.0007 ppm	0.0098 ppm
Concentration per Run 3	0.0014 ppm	1.4133 ppm	0.0055 ppm	0.0042 ppm	0.3624 ppm	0.0003 ppm	0.0095 ppm
Concentration RSD	59.0 %	2.5 %	9.9 %	2.0 %	2.0 %	508.4 %	4.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0099 ppm	97.9442 %	105.2561 %	100.4223 %	99.1139 %	105.0709 %	102.6065 %
Concentration per Run 1	0.0100 ppm	95.1774 %	103.2553 %	99.3411 %	97.8413 %	103.5261 %	102.7325 %
Concentration per Run 2	0.0100 ppm	98.7018 %	105.2908 %	100.6406 %	99.9589 %	105.2688 %	102.6472 %
Concentration per Run 3	0.0097 ppm	99.9535 %	107.2221 %	101.2851 %	99.5416 %	106.4178 %	102.4397 %
Concentration RSD	1.8 %	2.5 %	1.9 %	1.0 %	1.1 %	1.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432167-02D2 WG1933686
Analysis started at: 6/14/2024 4:33:36 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	15.4860 ppm	0.0044 ppm	0.0017 ppm	0.0821 ppm	0.0005 ppm	2.3290 ppm
Concentration per Run 1	0.0009 ppm	15.4636 ppm	0.0049 ppm	0.0007 ppm	0.0823 ppm	0.0005 ppm	2.3343 ppm
Concentration per Run 2	0.0011 ppm	15.5022 ppm	0.0036 ppm	0.0016 ppm	0.0821 ppm	0.0005 ppm	2.3233 ppm
Concentration per Run 3	0.0006 ppm	15.4924 ppm	0.0048 ppm	0.0027 ppm	0.0818 ppm	0.0005 ppm	2.3294 ppm
Concentration RSD	24.7 %	0.1 %	16.3 %	58.4 %	0.3 %	4.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0038 ppm	0.0524 ppm	0.1854 ppm	30.4106 ppm	1.1776 ppm	0.0122 ppm
Concentration per Run 1	0.0002 ppm	0.0043 ppm	0.0529 ppm	0.1886 ppm	30.5164 ppm	1.1893 ppm	0.0139 ppm
Concentration per Run 2	0.0000 ppm	0.0033 ppm	0.0523 ppm	0.1847 ppm	30.3852 ppm	1.1761 ppm	0.0102 ppm
Concentration per Run 3	0.0001 ppm	0.0038 ppm	0.0521 ppm	0.1829 ppm	30.3301 ppm	1.1673 ppm	0.0125 ppm
Concentration RSD	93.8 %	12.5 %	0.8 %	1.6 %	0.3 %	0.9 %	15.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.7485 ppm	0.1001 ppm	0.0020 ppm	0.2090 ppm	0.0132 ppm	0.1396 ppm	-0.0009 ppm
Concentration per Run 1	2.7888 ppm	0.0999 ppm	0.0025 ppm	0.2074 ppm	0.0136 ppm	0.1397 ppm	0.0005 ppm
Concentration per Run 2	2.7482 ppm	0.1001 ppm	0.0019 ppm	0.2115 ppm	0.0130 ppm	0.1398 ppm	-0.0006 ppm
Concentration per Run 3	2.7084 ppm	0.1004 ppm	0.0015 ppm	0.2079 ppm	0.0129 ppm	0.1394 ppm	-0.0026 ppm
Concentration RSD	1.5 %	0.2 %	25.2 %	1.1 %	2.9 %	0.2 %	177.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	2.2836 ppm	0.0184 ppm	0.0218 ppm	0.5940 ppm	-0.0006 ppm	0.0456 ppm
Concentration per Run 1	0.0031 ppm	2.3281 ppm	0.0179 ppm	0.0218 ppm	0.6031 ppm	-0.0007 ppm	0.0457 ppm
Concentration per Run 2	0.0020 ppm	2.2971 ppm	0.0190 ppm	0.0218 ppm	0.5938 ppm	-0.0002 ppm	0.0458 ppm
Concentration per Run 3	0.0007 ppm	2.2257 ppm	0.0184 ppm	0.0217 ppm	0.5852 ppm	-0.0010 ppm	0.0453 ppm
Concentration RSD	61.2 %	2.3 %	3.2 %	0.4 %	1.5 %	66.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0805 ppm	101.2325 %	107.3394 %	100.7928 %	101.0313 %	107.4911 %	103.8018 %
Concentration per Run 1	0.0821 ppm	99.5025 %	107.3702 %	100.4584 %	100.6956 %	107.9640 %	104.0048 %
Concentration per Run 2	0.0804 ppm	101.2976 %	107.1209 %	100.7424 %	101.0527 %	107.0495 %	103.7024 %
Concentration per Run 3	0.0790 ppm	102.8973 %	107.5270 %	101.1774 %	101.3456 %	107.4597 %	103.6984 %
Concentration RSD	1.9 %	1.7 %	0.2 %	0.4 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432167-03D2 WG1933686
Analysis started at: 6/14/2024 4:37:34 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	3.9866 ppm	0.0022 ppm	0.0010 ppm	0.0381 ppm	0.0002 ppm	1.2676 ppm
Concentration per Run 1	-0.0002 ppm	3.9745 ppm	0.0020 ppm	0.0007 ppm	0.0380 ppm	0.0002 ppm	1.2797 ppm
Concentration per Run 2	0.0007 ppm	3.9826 ppm	0.0027 ppm	0.0015 ppm	0.0379 ppm	0.0002 ppm	1.2604 ppm
Concentration per Run 3	0.0008 ppm	4.0026 ppm	0.0018 ppm	0.0007 ppm	0.0383 ppm	0.0002 ppm	1.2628 ppm
Concentration RSD	126.1 %	0.4 %	22.1 %	45.3 %	0.6 %	3.0 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0232 ppm	0.0232 ppm	0.7210 ppm	8.8443 ppm	0.4034 ppm	0.0027 ppm
Concentration per Run 1	0.0029 ppm	0.0234 ppm	0.0234 ppm	0.7342 ppm	8.9022 ppm	0.4222 ppm	0.0026 ppm
Concentration per Run 2	0.0028 ppm	0.0233 ppm	0.0233 ppm	0.7176 ppm	8.8002 ppm	0.4051 ppm	0.0014 ppm
Concentration per Run 3	0.0029 ppm	0.0229 ppm	0.0228 ppm	0.7111 ppm	8.8305 ppm	0.3829 ppm	0.0043 ppm
Concentration RSD	1.6 %	1.1 %	1.3 %	1.7 %	0.6 %	4.9 %	52.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1397 ppm	0.0514 ppm	0.0062 ppm	0.1315 ppm	0.0081 ppm	0.0532 ppm	0.0019 ppm
Concentration per Run 1	1.1567 ppm	0.0515 ppm	0.0065 ppm	0.1352 ppm	0.0088 ppm	0.0530 ppm	0.0002 ppm
Concentration per Run 2	1.1376 ppm	0.0513 ppm	0.0060 ppm	0.1308 ppm	0.0079 ppm	0.0536 ppm	0.0011 ppm
Concentration per Run 3	1.1246 ppm	0.0514 ppm	0.0062 ppm	0.1284 ppm	0.0077 ppm	0.0529 ppm	0.0044 ppm
Concentration RSD	1.4 %	0.1 %	4.0 %	2.6 %	7.5 %	0.7 %	116.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	1.6168 ppm	0.0121 ppm	0.0104 ppm	0.2561 ppm	-0.0009 ppm	0.0109 ppm
Concentration per Run 1	0.0031 ppm	1.6595 ppm	0.0117 ppm	0.0107 ppm	0.2590 ppm	-0.0013 ppm	0.0108 ppm
Concentration per Run 2	0.0026 ppm	1.6136 ppm	0.0133 ppm	0.0102 ppm	0.2563 ppm	-0.0003 ppm	0.0111 ppm
Concentration per Run 3	0.0026 ppm	1.5774 ppm	0.0113 ppm	0.0103 ppm	0.2530 ppm	-0.0012 ppm	0.0107 ppm
Concentration RSD	11.1 %	2.5 %	8.8 %	2.2 %	1.2 %	62.0 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2803 ppm	99.0412 %	106.6183 %	100.4081 %	99.9475 %	106.1930 %	102.1345 %
Concentration per Run 1	0.2839 ppm	97.7169 %	105.6235 %	99.9543 %	100.1213 %	106.1253 %	102.3862 %
Concentration per Run 2	0.2793 ppm	99.1126 %	107.2894 %	100.3644 %	100.0141 %	106.6715 %	102.0474 %
Concentration per Run 3	0.2779 ppm	100.2939 %	106.9420 %	100.9056 %	99.7073 %	105.7822 %	101.9698 %
Concentration RSD	1.1 %	1.3 %	0.8 %	0.5 %	0.2 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432167-04D2 WG1933686
Analysis started at: 6/14/2024 4:41:32 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0096 ppm	4.8894 ppm	0.0070 ppm	0.0017 ppm	0.0369 ppm	0.0003 ppm	1.9411 ppm
Concentration per Run 1	0.0097 ppm	4.8842 ppm	0.0074 ppm	0.0020 ppm	0.0373 ppm	0.0003 ppm	1.9484 ppm
Concentration per Run 2	0.0095 ppm	4.8974 ppm	0.0063 ppm	0.0021 ppm	0.0370 ppm	0.0003 ppm	1.9380 ppm
Concentration per Run 3	0.0095 ppm	4.8866 ppm	0.0075 ppm	0.0010 ppm	0.0366 ppm	0.0003 ppm	1.9370 ppm
Concentration RSD	1.5 %	0.1 %	9.3 %	37.2 %	1.0 %	10.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0050 ppm	0.0273 ppm	0.2362 ppm	20.4633 ppm	0.3933 ppm	0.0016 ppm
Concentration per Run 1	0.0006 ppm	0.0052 ppm	0.0279 ppm	0.2415 ppm	20.5635 ppm	0.4101 ppm	0.0018 ppm
Concentration per Run 2	0.0005 ppm	0.0045 ppm	0.0273 ppm	0.2355 ppm	20.4627 ppm	0.3582 ppm	0.0009 ppm
Concentration per Run 3	0.0006 ppm	0.0052 ppm	0.0268 ppm	0.2317 ppm	20.3635 ppm	0.4116 ppm	0.0019 ppm
Concentration RSD	10.3 %	7.8 %	1.9 %	2.1 %	0.5 %	7.7 %	33.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0815 ppm	0.0890 ppm	0.0020 ppm	0.0293 ppm	0.0121 ppm	0.0204 ppm	0.0009 ppm
Concentration per Run 1	1.1068 ppm	0.0892 ppm	0.0020 ppm	0.0315 ppm	0.0117 ppm	0.0205 ppm	0.0034 ppm
Concentration per Run 2	1.0728 ppm	0.0890 ppm	0.0019 ppm	0.0307 ppm	0.0119 ppm	0.0206 ppm	-0.0010 ppm
Concentration per Run 3	1.0649 ppm	0.0889 ppm	0.0022 ppm	0.0256 ppm	0.0128 ppm	0.0199 ppm	0.0003 ppm
Concentration RSD	2.1 %	0.2 %	9.2 %	10.9 %	4.7 %	1.9 %	253.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	1.2402 ppm	0.0138 ppm	0.0139 ppm	0.2198 ppm	-0.0015 ppm	0.0196 ppm
Concentration per Run 1	0.0019 ppm	1.2681 ppm	0.0140 ppm	0.0139 ppm	0.2242 ppm	-0.0010 ppm	0.0201 ppm
Concentration per Run 2	0.0010 ppm	1.2366 ppm	0.0138 ppm	0.0140 ppm	0.2185 ppm	-0.0020 ppm	0.0197 ppm
Concentration per Run 3	0.0021 ppm	1.2158 ppm	0.0135 ppm	0.0137 ppm	0.2166 ppm	-0.0014 ppm	0.0192 ppm
Concentration RSD	36.3 %	2.1 %	1.7 %	1.1 %	1.8 %	31.9 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3323 ppm	99.9921 %	108.2876 %	101.0207 %	99.9770 %	107.3462 %	102.5015 %
Concentration per Run 1	0.3389 ppm	97.4730 %	107.7064 %	100.2282 %	98.9212 %	107.0853 %	102.6132 %
Concentration per Run 2	0.3309 ppm	100.6695 %	108.7250 %	101.3503 %	100.5382 %	107.7738 %	102.8273 %
Concentration per Run 3	0.3270 ppm	101.8338 %	108.4314 %	101.4834 %	100.4716 %	107.1794 %	102.0641 %
Concentration RSD	1.8 %	2.3 %	0.5 %	0.7 %	0.9 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432178-01D2 WG1933686
Analysis started at: 6/14/2024 4:45:30 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	8.8881 ppm	0.0039 ppm	0.0010 ppm	0.0941 ppm	0.0004 ppm	1.9142 ppm
Concentration per Run 1	0.0001 ppm	8.8871 ppm	0.0048 ppm	-0.0001 ppm	0.0947 ppm	0.0005 ppm	1.9211 ppm
Concentration per Run 2	-0.0001 ppm	8.9112 ppm	0.0022 ppm	0.0017 ppm	0.0940 ppm	0.0004 ppm	1.9123 ppm
Concentration per Run 3	0.0003 ppm	8.8660 ppm	0.0047 ppm	0.0014 ppm	0.0937 ppm	0.0004 ppm	1.9093 ppm
Concentration RSD	268.0 %	0.3 %	37.2 %	98.0 %	0.5 %	1.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0039 ppm	0.0192 ppm	0.1146 ppm	12.9969 ppm	1.2233 ppm	0.0083 ppm
Concentration per Run 1	0.0002 ppm	0.0038 ppm	0.0196 ppm	0.1161 ppm	13.0524 ppm	1.2439 ppm	0.0103 ppm
Concentration per Run 2	0.0001 ppm	0.0036 ppm	0.0191 ppm	0.1140 ppm	12.9562 ppm	1.2224 ppm	0.0068 ppm
Concentration per Run 3	0.0001 ppm	0.0042 ppm	0.0190 ppm	0.1135 ppm	12.9822 ppm	1.2036 ppm	0.0079 ppm
Concentration RSD	34.0 %	8.4 %	1.9 %	1.2 %	0.4 %	1.6 %	21.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.2965 ppm	0.0693 ppm	0.0018 ppm	0.7020 ppm	0.0144 ppm	0.0259 ppm	0.0010 ppm
Concentration per Run 1	2.3271 ppm	0.0693 ppm	0.0017 ppm	0.7020 ppm	0.0146 ppm	0.0262 ppm	0.0012 ppm
Concentration per Run 2	2.2984 ppm	0.0696 ppm	0.0022 ppm	0.6955 ppm	0.0146 ppm	0.0252 ppm	0.0016 ppm
Concentration per Run 3	2.2638 ppm	0.0690 ppm	0.0015 ppm	0.7085 ppm	0.0140 ppm	0.0263 ppm	0.0002 ppm
Concentration RSD	1.4 %	0.4 %	18.0 %	0.9 %	2.6 %	2.2 %	73.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	1.5606 ppm	0.0044 ppm	0.0110 ppm	0.3993 ppm	0.0000 ppm	0.0234 ppm
Concentration per Run 1	0.0016 ppm	1.5848 ppm	0.0042 ppm	0.0110 ppm	0.4041 ppm	0.0005 ppm	0.0238 ppm
Concentration per Run 2	0.0027 ppm	1.5656 ppm	0.0052 ppm	0.0109 ppm	0.3984 ppm	-0.0014 ppm	0.0232 ppm
Concentration per Run 3	0.0003 ppm	1.5314 ppm	0.0038 ppm	0.0110 ppm	0.3955 ppm	0.0011 ppm	0.0231 ppm
Concentration RSD	76.0 %	1.7 %	16.2 %	0.7 %	1.1 %	3,863.2 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1085 ppm	99.1841 %	107.6963 %	99.6836 %	99.2676 %	107.2968 %	102.0465 %
Concentration per Run 1	0.1101 ppm	97.4983 %	107.7275 %	98.9731 %	99.1112 %	107.8454 %	102.1956 %
Concentration per Run 2	0.1089 ppm	99.4373 %	107.2994 %	99.7094 %	99.4714 %	106.6265 %	101.5504 %
Concentration per Run 3	0.1066 ppm	100.6167 %	108.0619 %	100.3683 %	99.2203 %	107.4184 %	102.3935 %
Concentration RSD	1.7 %	1.6 %	0.4 %	0.7 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432178-02D2 WG1933686
Analysis started at: 6/14/2024 4:49:27 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	41.1944 ppm	0.0137 ppm	0.0036 ppm	0.0722 ppm	0.0009 ppm	3.0536 ppm
Concentration per Run 1	0.0002 ppm	41.1595 ppm	0.0135 ppm	0.0035 ppm	0.0725 ppm	0.0009 ppm	3.0660 ppm
Concentration per Run 2	0.0004 ppm	41.2981 ppm	0.0146 ppm	0.0044 ppm	0.0722 ppm	0.0009 ppm	3.0483 ppm
Concentration per Run 3	0.0002 ppm	41.1256 ppm	0.0131 ppm	0.0029 ppm	0.0720 ppm	0.0008 ppm	3.0466 ppm
Concentration RSD	48.0 %	0.2 %	5.6 %	21.2 %	0.3 %	5.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0110 ppm	0.0441 ppm	0.0229 ppm	47.0087 ppm	1.1494 ppm	0.0231 ppm
Concentration per Run 1	0.0001 ppm	0.0110 ppm	0.0448 ppm	0.0235 ppm	47.1034 ppm	1.1926 ppm	0.0245 ppm
Concentration per Run 2	0.0001 ppm	0.0111 ppm	0.0438 ppm	0.0227 ppm	46.9175 ppm	1.1528 ppm	0.0226 ppm
Concentration per Run 3	0.0002 ppm	0.0110 ppm	0.0437 ppm	0.0225 ppm	47.0051 ppm	1.1028 ppm	0.0223 ppm
Concentration RSD	68.9 %	0.2 %	1.4 %	2.3 %	0.2 %	3.9 %	5.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.0048 ppm	0.3150 ppm	0.0022 ppm	0.3079 ppm	0.0227 ppm	0.0316 ppm	0.0005 ppm
Concentration per Run 1	4.0505 ppm	0.3157 ppm	0.0022 ppm	0.3125 ppm	0.0230 ppm	0.0316 ppm	-0.0006 ppm
Concentration per Run 2	4.0101 ppm	0.3147 ppm	0.0019 ppm	0.3045 ppm	0.0225 ppm	0.0320 ppm	-0.0011 ppm
Concentration per Run 3	3.9539 ppm	0.3147 ppm	0.0024 ppm	0.3067 ppm	0.0225 ppm	0.0311 ppm	0.0032 ppm
Concentration RSD	1.2 %	0.2 %	10.0 %	1.3 %	1.2 %	1.4 %	462.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	4.0550 ppm	0.0023 ppm	0.0183 ppm	0.8220 ppm	0.0000 ppm	0.0733 ppm
Concentration per Run 1	0.0011 ppm	4.1313 ppm	0.0032 ppm	0.0184 ppm	0.8338 ppm	0.0005 ppm	0.0739 ppm
Concentration per Run 2	0.0024 ppm	4.0788 ppm	0.0024 ppm	0.0181 ppm	0.8210 ppm	-0.0005 ppm	0.0732 ppm
Concentration per Run 3	0.0038 ppm	3.9550 ppm	0.0013 ppm	0.0184 ppm	0.8111 ppm	-0.0001 ppm	0.0728 ppm
Concentration RSD	54.4 %	2.2 %	41.1 %	1.0 %	1.4 %	1,293.2 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0647 ppm	100.4461 %	107.7371 %	99.7921 %	99.8442 %	106.7045 %	103.9227 %
Concentration per Run 1	0.0655 ppm	99.3287 %	107.3044 %	99.1367 %	100.0478 %	106.6178 %	104.1109 %
Concentration per Run 2	0.0646 ppm	100.1708 %	108.4074 %	99.5790 %	99.6681 %	107.2539 %	103.6816 %
Concentration per Run 3	0.0640 ppm	101.8387 %	107.4997 %	100.6606 %	99.8166 %	106.2419 %	103.9755 %
Concentration RSD	1.2 %	1.3 %	0.5 %	0.8 %	0.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432178-03D2 WG1933686
Analysis started at: 6/14/2024 4:53:26 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	13.8834 ppm	0.0228 ppm	0.0017 ppm	0.0677 ppm	0.0014 ppm	2.8832 ppm
Concentration per Run 1	-0.0001 ppm	13.8276 ppm	0.0229 ppm	0.0017 ppm	0.0682 ppm	0.0014 ppm	2.8823 ppm
Concentration per Run 2	-0.0001 ppm	13.9153 ppm	0.0228 ppm	0.0016 ppm	0.0676 ppm	0.0014 ppm	2.8875 ppm
Concentration per Run 3	-0.0001 ppm	13.9072 ppm	0.0227 ppm	0.0017 ppm	0.0674 ppm	0.0014 ppm	2.8797 ppm
Concentration RSD	24.1 %	0.3 %	0.3 %	3.2 %	0.6 %	1.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0114 ppm	0.0371 ppm	0.0409 ppm	56.2865 ppm	2.1537 ppm	0.0153 ppm
Concentration per Run 1	0.0003 ppm	0.0117 ppm	0.0376 ppm	0.0414 ppm	56.6275 ppm	2.1839 ppm	0.0154 ppm
Concentration per Run 2	0.0001 ppm	0.0116 ppm	0.0373 ppm	0.0409 ppm	56.2240 ppm	2.1131 ppm	0.0149 ppm
Concentration per Run 3	0.0003 ppm	0.0110 ppm	0.0363 ppm	0.0404 ppm	56.0079 ppm	2.1640 ppm	0.0155 ppm
Concentration RSD	41.1 %	3.3 %	1.9 %	1.2 %	0.6 %	1.7 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.4294 ppm	0.4721 ppm	0.0018 ppm	0.3640 ppm	0.0311 ppm	0.0231 ppm	0.0000 ppm
Concentration per Run 1	4.5285 ppm	0.4730 ppm	0.0021 ppm	0.3649 ppm	0.0321 ppm	0.0234 ppm	-0.0007 ppm
Concentration per Run 2	4.4155 ppm	0.4713 ppm	0.0017 ppm	0.3659 ppm	0.0312 ppm	0.0232 ppm	0.0005 ppm
Concentration per Run 3	4.3442 ppm	0.4721 ppm	0.0017 ppm	0.3612 ppm	0.0301 ppm	0.0228 ppm	0.0001 ppm
Concentration RSD	2.1 %	0.2 %	13.9 %	0.7 %	3.2 %	1.3 %	3,243.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	1.9741 ppm	0.0014 ppm	0.0152 ppm	0.6696 ppm	0.0002 ppm	0.0497 ppm
Concentration per Run 1	-0.0010 ppm	2.0314 ppm	0.0012 ppm	0.0154 ppm	0.6847 ppm	0.0007 ppm	0.0502 ppm
Concentration per Run 2	0.0048 ppm	1.9681 ppm	0.0017 ppm	0.0152 ppm	0.6659 ppm	0.0015 ppm	0.0499 ppm
Concentration per Run 3	0.0009 ppm	1.9226 ppm	0.0012 ppm	0.0150 ppm	0.6583 ppm	-0.0017 ppm	0.0489 ppm
Concentration RSD	193.7 %	2.8 %	22.7 %	1.3 %	2.0 %	1,059.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0794 ppm	99.4453 %	107.2840 %	99.2411 %	101.5008 %	108.6743 %	104.5645 %
Concentration per Run 1	0.0809 ppm	97.2418 %	107.1411 %	98.3461 %	100.8228 %	109.1138 %	104.5153 %
Concentration per Run 2	0.0792 ppm	99.4360 %	107.5395 %	99.3181 %	101.4249 %	108.6950 %	104.5164 %
Concentration per Run 3	0.0782 ppm	101.6581 %	107.1715 %	100.0589 %	102.2546 %	108.2142 %	104.6619 %
Concentration RSD	1.7 %	2.2 %	0.2 %	0.9 %	0.7 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: zL2432178-01D2 WG1933686
Analysis started at: 6/14/2024 4:57:48 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	9.0459 ppm	0.0031 ppm	0.0011 ppm	0.0957 ppm	0.0005 ppm	1.9446 ppm
Concentration per Run 1	0.0002 ppm	9.0585 ppm	0.0048 ppm	0.0011 ppm	0.0958 ppm	0.0005 ppm	1.9507 ppm
Concentration per Run 2	0.0004 ppm	9.0285 ppm	0.0013 ppm	0.0010 ppm	0.0960 ppm	0.0005 ppm	1.9481 ppm
Concentration per Run 3	0.0002 ppm	9.0506 ppm	0.0030 ppm	0.0012 ppm	0.0954 ppm	0.0005 ppm	1.9350 ppm
Concentration RSD	44.2 %	0.2 %	56.6 %	8.9 %	0.3 %	1.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0040 ppm	0.0200 ppm	0.1189 ppm	13.1563 ppm	1.2274 ppm	0.0073 ppm
Concentration per Run 1	0.0002 ppm	0.0040 ppm	0.0204 ppm	0.1217 ppm	13.1878 ppm	1.2430 ppm	0.0071 ppm
Concentration per Run 2	0.0001 ppm	0.0043 ppm	0.0201 ppm	0.1187 ppm	13.1661 ppm	1.2229 ppm	0.0079 ppm
Concentration per Run 3	0.0002 ppm	0.0037 ppm	0.0196 ppm	0.1161 ppm	13.1150 ppm	1.2163 ppm	0.0070 ppm
Concentration RSD	24.1 %	8.3 %	2.2 %	2.3 %	0.3 %	1.1 %	7.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.3866 ppm	0.0703 ppm	0.0019 ppm	0.7152 ppm	0.0148 ppm	0.0260 ppm	0.0022 ppm
Concentration per Run 1	2.4405 ppm	0.0709 ppm	0.0018 ppm	0.7205 ppm	0.0144 ppm	0.0266 ppm	0.0020 ppm
Concentration per Run 2	2.3820 ppm	0.0702 ppm	0.0022 ppm	0.7113 ppm	0.0152 ppm	0.0266 ppm	0.0039 ppm
Concentration per Run 3	2.3373 ppm	0.0699 ppm	0.0017 ppm	0.7139 ppm	0.0148 ppm	0.0247 ppm	0.0008 ppm
Concentration RSD	2.2 %	0.8 %	14.3 %	0.7 %	2.7 %	4.1 %	71.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	1.6562 ppm	0.0047 ppm	0.0110 ppm	0.4144 ppm	-0.0014 ppm	0.0241 ppm
Concentration per Run 1	0.0007 ppm	1.6792 ppm	0.0039 ppm	0.0110 ppm	0.4233 ppm	-0.0009 ppm	0.0245 ppm
Concentration per Run 2	0.0038 ppm	1.6718 ppm	0.0050 ppm	0.0112 ppm	0.4140 ppm	-0.0016 ppm	0.0240 ppm
Concentration per Run 3	0.0013 ppm	1.6175 ppm	0.0050 ppm	0.0109 ppm	0.4060 ppm	-0.0016 ppm	0.0237 ppm
Concentration RSD	85.8 %	2.0 %	13.3 %	1.2 %	2.1 %	31.3 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1130 ppm	99.6951 %	108.4087 %	100.3518 %	99.9446 %	107.7449 %	102.9017 %
Concentration per Run 1	0.1156 ppm	97.1722 %	107.5273 %	99.8631 %	98.8330 %	107.2571 %	103.2179 %
Concentration per Run 2	0.1132 ppm	100.0219 %	108.9722 %	100.3756 %	100.3522 %	108.2010 %	102.7721 %
Concentration per Run 3	0.1103 ppm	101.8910 %	108.7268 %	100.8166 %	100.6487 %	107.7765 %	102.7152 %
Concentration RSD	2.3 %	2.4 %	0.7 %	0.5 %	1.0 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 5:01:47 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4951 ppm	0.4660 ppm	0.4649 ppm	0.4860 ppm	0.5019 ppm	0.5009 ppm	0.4870 ppm
Concentration per Run 1	0.5015 ppm	0.4712 ppm	0.4675 ppm	0.4962 ppm	0.5036 ppm	0.5029 ppm	0.4889 ppm
Concentration per Run 2	0.4949 ppm	0.4610 ppm	0.4634 ppm	0.4836 ppm	0.5052 ppm	0.4995 ppm	0.4877 ppm
Concentration per Run 3	0.4888 ppm	0.4658 ppm	0.4637 ppm	0.4782 ppm	0.4970 ppm	0.5002 ppm	0.4844 ppm
Recovery Percentage 1	99.011 %	93.194 %	92.977 %	97.195 %	100.383 %	100.174 %	97.394 %
Concentration RSD	1.3 %	1.1 %	0.5 %	1.9 %	0.9 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4842 ppm	0.5022 ppm	0.4835 ppm	0.4869 ppm	0.5171 ppm	4.9513 ppm	0.4627 ppm
Concentration per Run 1	0.4915 ppm	0.5112 ppm	0.4910 ppm	0.4941 ppm	0.5215 ppm	4.9851 ppm	0.4608 ppm
Concentration per Run 2	0.4843 ppm	0.5023 ppm	0.4836 ppm	0.4872 ppm	0.5134 ppm	4.9770 ppm	0.4647 ppm
Concentration per Run 3	0.4769 ppm	0.4929 ppm	0.4758 ppm	0.4794 ppm	0.5165 ppm	4.8917 ppm	0.4624 ppm
Recovery Percentage 1	96.841 %	100.430 %	96.693 %	97.381 %	103.423 %	99.026 %	92.530 %
Concentration RSD	1.5 %	1.8 %	1.6 %	1.5 %	0.8 %	1.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4872 ppm	0.4849 ppm	0.4811 ppm	9.9365 ppm	0.5021 ppm	0.4822 ppm	0.4794 ppm
Concentration per Run 1	0.4944 ppm	0.4859 ppm	0.4830 ppm	9.9577 ppm	0.5085 ppm	0.4866 ppm	0.4845 ppm
Concentration per Run 2	0.4880 ppm	0.4846 ppm	0.4802 ppm	9.9253 ppm	0.5015 ppm	0.4800 ppm	0.4774 ppm
Concentration per Run 3	0.4791 ppm	0.4842 ppm	0.4800 ppm	9.9265 ppm	0.4963 ppm	0.4801 ppm	0.4763 ppm
Recovery Percentage 1	97.438 %	96.981 %	96.213 %	99.365 %	100.417 %	96.450 %	95.874 %
Concentration RSD	1.6 %	0.2 %	0.4 %	0.2 %	1.2 %	0.8 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4739 ppm	5.0624 ppm	0.5102 ppm	0.5055 ppm	0.4927 ppm	0.4771 ppm	0.4872 ppm
Concentration per Run 1	0.4786 ppm	5.1458 ppm	0.5114 ppm	0.5077 ppm	0.4992 ppm	0.4803 ppm	0.4943 ppm
Concentration per Run 2	0.4735 ppm	5.0537 ppm	0.5087 ppm	0.5040 ppm	0.4924 ppm	0.4757 ppm	0.4872 ppm
Concentration per Run 3	0.4698 ppm	4.9877 ppm	0.5105 ppm	0.5048 ppm	0.4865 ppm	0.4753 ppm	0.4800 ppm
Recovery Percentage 1	94.789 %	96.427 %	102.040 %	101.104 %	98.541 %	95.425 %	97.439 %
Concentration RSD	0.9 %	1.6 %	0.3 %	0.4 %	1.3 %	0.6 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4960 ppm	100.4139 %	105.0412 %	101.0369 %	96.2151 %	101.4236 %	99.0744 %
Concentration per Run 1	0.5026 ppm	98.4399 %	105.2919 %	100.1152 %	95.4028 %	102.2051 %	99.1702 %
Concentration per Run 2	0.4969 ppm	100.3101 %	105.1719 %	101.3751 %	96.1927 %	101.5656 %	99.1497 %
Concentration per Run 3	0.4885 ppm	102.4916 %	104.6597 %	101.6204 %	97.0499 %	100.5001 %	98.9032 %
Recovery Percentage 1	99.203 %						
Concentration RSD	1.4 %	2.0 %	0.3 %	0.8 %	0.9 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 5:05:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0066 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	0.0000 ppm	-0.0047 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	-0.0001 ppm	-0.0052 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 3	-0.0003 ppm	-0.0098 ppm	0.0021 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0041 ppm
Recovery Percentage 1	-1.852 %	-6.564 %	23.442 %	-0.760 %	0.014 %	0.413 %	5.578 %
Concentration RSD	110.3 %	42.6 %	174.4 %	197.1 %	10,292.3 %	49.7 %	44.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0071 ppm	-0.0075 ppm	-0.0036 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0008 ppm	0.0081 ppm	-0.0241 ppm	-0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0058 ppm	-0.0061 ppm	-0.0040 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0073 ppm	0.0077 ppm	-0.0033 ppm
Recovery Percentage 1	0.758 %	0.745 %	-1.916 %	4.184 %	14.174 %	-0.301 %	-35.941 %
Concentration RSD	85.3 %	236.0 %	54.5 %	81.2 %	16.3 %	211.8 %	10.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0002 ppm	0.0019 ppm	-0.0245 ppm	-0.0002 ppm	-0.0003 ppm	0.0023 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0021 ppm	-0.0307 ppm	-0.0005 ppm	0.0005 ppm	0.0045 ppm
Concentration per Run 2	-0.0019 ppm	0.0004 ppm	0.0019 ppm	-0.0231 ppm	0.0000 ppm	-0.0011 ppm	0.0053 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0017 ppm	-0.0195 ppm	-0.0002 ppm	-0.0002 ppm	-0.0027 ppm
Recovery Percentage 1	-0.484 %	2.157 %	3.774 %	-1.223 %	-0.950 %	-2.540 %	4.694 %
Concentration RSD	257.7 %	56.7 %	11.7 %	23.5 %	96.2 %	321.7 %	188.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0051 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	-0.0039 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0009 ppm	-0.0042 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0071 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0008 ppm	0.0000 ppm
Recovery Percentage 1	0.403 %	-1.011 %	1.613 %	0.710 %	-0.330 %	-4.240 %	1.220 %
Concentration RSD	2,322.4 %	34.9 %	16.9 %	32.2 %	272.6 %	10.9 %	73.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	96.6388 %	101.6406 %	98.4092 %	97.2523 %	101.4831 %	99.2434 %
Concentration per Run 1	0.0009 ppm	95.0011 %	101.5458 %	98.0527 %	96.6884 %	101.8439 %	99.4907 %
Concentration per Run 2	0.0007 ppm	96.9360 %	102.2895 %	97.9310 %	98.0241 %	102.3200 %	98.8040 %
Concentration per Run 3	0.0010 ppm	97.9791 %	101.0866 %	99.2440 %	97.0442 %	100.2855 %	99.4356 %
Recovery Percentage 1	17.139 %						
Concentration RSD	13.2 %	1.6 %	0.6 %	0.7 %	0.7 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933988-1 WG1933988
Analysis started at: 6/14/2024 5:13:13 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0046 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0311 ppm
Concentration per Run 1	-0.0002 ppm	0.0037 ppm	0.0016 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0291 ppm
Concentration per Run 2	-0.0002 ppm	0.0045 ppm	-0.0003 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0319 ppm
Concentration per Run 3	-0.0004 ppm	0.0056 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0324 ppm
Recovery Percentage 1	-3.880 %	4.590 %	22.090 %	-0.428 %	1.185 %	0.388 %	31.147 %
Concentration RSD	30.3 %	20.4 %	146.1 %	1,212.5 %	123.7 %	148.0 %	5.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0374 ppm	-0.0335 ppm	-0.0029 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0005 ppm	0.0368 ppm	-0.0119 ppm	-0.0033 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0371 ppm	-0.0409 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0384 ppm	-0.0476 ppm	-0.0029 ppm
Recovery Percentage 1	-1.058 %	-0.415 %	4.168 %	-1.635 %	74.892 %	-1.338 %	-28.818 %
Concentration RSD	81.3 %	296.3 %	25.3 %	200.2 %	2.3 %	56.7 %	13.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0054 ppm	0.0009 ppm	0.0004 ppm	-0.0147 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 1	0.0044 ppm	0.0008 ppm	0.0004 ppm	-0.0120 ppm	0.0003 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 2	0.0048 ppm	0.0010 ppm	0.0000 ppm	-0.0114 ppm	-0.0002 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 3	0.0068 ppm	0.0009 ppm	0.0006 ppm	-0.0206 ppm	0.0005 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	5.365 %	8.995 %	0.703 %	-0.733 %	0.837 %	-2.033 %	1.915 %
Concentration RSD	23.6 %	8.9 %	100.1 %	35.0 %	155.9 %	107.0 %	116.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.0100 ppm	0.0013 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0009 ppm	0.0100 ppm	0.0007 ppm	0.0001 ppm	0.0011 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 2	0.0016 ppm	0.0061 ppm	0.0011 ppm	0.0003 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0009 ppm	0.0138 ppm	0.0021 ppm	0.0001 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	5.300 %	1.993 %	2.569 %	1.582 %	10.374 %	-1.214 %	-0.311 %
Concentration RSD	238.0 %	38.8 %	59.3 %	60.8 %	13.5 %	187.6 %	567.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	121.8860 %	109.4467 %	112.7478 %	99.0451 %	101.8626 %	100.9881 %
Concentration per Run 1	0.0026 ppm	124.9962 %	109.7896 %	113.9669 %	98.3820 %	101.9321 %	100.8994 %
Concentration per Run 2	0.0026 ppm	122.1459 %	110.2446 %	112.7523 %	99.6483 %	102.3836 %	101.2601 %
Concentration per Run 3	0.0025 ppm	118.5157 %	108.3058 %	111.5242 %	99.1048 %	101.2723 %	100.8049 %
Recovery Percentage 1	51.008 %						
Concentration RSD	1.1 %	2.7 %	0.9 %	1.1 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933988-2d2 WG1933988
Analysis started at: 6/14/2024 5:17:31 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3227 ppm	16.5210 ppm	1.1742 ppm	0.8874 ppm	1.1387 ppm	0.6469 ppm	19.1473 ppm
Concentration per Run 1	0.3291 ppm	16.4113 ppm	1.1779 ppm	0.9028 ppm	1.1426 ppm	0.6512 ppm	19.2609 ppm
Concentration per Run 2	0.3225 ppm	16.6030 ppm	1.1791 ppm	0.8850 ppm	1.1421 ppm	0.6467 ppm	19.1544 ppm
Concentration per Run 3	0.3165 ppm	16.5488 ppm	1.1657 ppm	0.8746 ppm	1.1314 ppm	0.6428 ppm	19.0266 ppm
Concentration RSD	2.0 %	0.6 %	0.6 %	1.6 %	0.6 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8524 ppm	0.3214 ppm	0.6885 ppm	0.8116 ppm	22.0964 ppm	4.1521 ppm	0.4589 ppm
Concentration per Run 1	0.8699 ppm	0.3279 ppm	0.7016 ppm	0.8300 ppm	22.1791 ppm	4.1732 ppm	0.4541 ppm
Concentration per Run 2	0.8507 ppm	0.3205 ppm	0.6881 ppm	0.8080 ppm	22.1197 ppm	4.1440 ppm	0.4602 ppm
Concentration per Run 3	0.8364 ppm	0.3158 ppm	0.6760 ppm	0.7968 ppm	21.9906 ppm	4.1392 ppm	0.4625 ppm
Concentration RSD	2.0 %	1.9 %	1.9 %	2.1 %	0.4 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6372 ppm	2.0557 ppm	0.5250 ppm	7.0115 ppm	1.2270 ppm	0.3609 ppm	0.7286 ppm
Concentration per Run 1	5.7364 ppm	2.0613 ppm	0.5266 ppm	7.0875 ppm	1.2524 ppm	0.3623 ppm	0.7441 ppm
Concentration per Run 2	5.6233 ppm	2.0580 ppm	0.5248 ppm	7.0039 ppm	1.2285 ppm	0.3611 ppm	0.7319 ppm
Concentration per Run 3	5.5520 ppm	2.0479 ppm	0.5235 ppm	6.9430 ppm	1.2001 ppm	0.3593 ppm	0.7098 ppm
Concentration RSD	1.6 %	0.3 %	0.3 %	1.0 %	2.1 %	0.4 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6185 ppm	5.8557 ppm	0.2814 ppm	0.5237 ppm	1.1842 ppm	0.8660 ppm	0.3962 ppm
Concentration per Run 1	0.6193 ppm	6.0223 ppm	0.2837 ppm	0.5289 ppm	1.2065 ppm	0.8654 ppm	0.4032 ppm
Concentration per Run 2	0.6193 ppm	5.8648 ppm	0.2820 ppm	0.5245 ppm	1.1843 ppm	0.8679 ppm	0.3960 ppm
Concentration per Run 3	0.6169 ppm	5.6801 ppm	0.2783 ppm	0.5178 ppm	1.1619 ppm	0.8646 ppm	0.3895 ppm
Concentration RSD	0.2 %	2.9 %	1.0 %	1.1 %	1.9 %	0.2 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6424 ppm	99.1053 %	105.3304 %	96.8186 %	100.6254 %	107.5890 %	103.6708 %
Concentration per Run 1	0.6560 ppm	97.2333 %	104.5188 %	96.4691 %	100.2846 %	107.5983 %	103.9323 %
Concentration per Run 2	0.6416 ppm	99.4695 %	105.2007 %	96.8624 %	100.7119 %	107.2852 %	103.5252 %
Concentration per Run 3	0.6294 ppm	100.6131 %	106.2718 %	97.1243 %	100.8797 %	107.8835 %	103.5550 %
Concentration RSD	2.1 %	1.7 %	0.8 %	0.3 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1933988-3d2 WG1933988
Analysis started at: 6/14/2024 5:21:29 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3232 ppm	16.5595 ppm	1.2376 ppm	0.9051 ppm	1.2457 ppm	0.6931 ppm	19.6135 ppm
Concentration per Run 1	0.3401 ppm	16.5134 ppm	1.2725 ppm	0.9536 ppm	1.2470 ppm	0.6980 ppm	19.7067 ppm
Concentration per Run 2	0.3272 ppm	16.5989 ppm	1.2282 ppm	0.9158 ppm	1.2496 ppm	0.6901 ppm	19.5848 ppm
Concentration per Run 3	0.3022 ppm	16.5662 ppm	1.2122 ppm	0.8459 ppm	1.2405 ppm	0.6912 ppm	19.5490 ppm
Concentration RSD	6.0 %	0.3 %	2.5 %	6.0 %	0.4 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8399 ppm	0.3246 ppm	0.7192 ppm	0.8363 ppm	22.4761 ppm	4.1682 ppm	0.4666 ppm
Concentration per Run 1	0.8871 ppm	0.3435 ppm	0.7613 ppm	0.8834 ppm	22.6158 ppm	4.2249 ppm	0.4711 ppm
Concentration per Run 2	0.8534 ppm	0.3283 ppm	0.7257 ppm	0.8479 ppm	22.4389 ppm	4.1600 ppm	0.4627 ppm
Concentration per Run 3	0.7792 ppm	0.3022 ppm	0.6707 ppm	0.7778 ppm	22.3737 ppm	4.1197 ppm	0.4659 ppm
Concentration RSD	6.6 %	6.4 %	6.3 %	6.4 %	0.6 %	1.3 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5941 ppm	2.1130 ppm	0.5479 ppm	6.9245 ppm	1.2702 ppm	0.3723 ppm	0.7776 ppm
Concentration per Run 1	5.9175 ppm	2.1232 ppm	0.5727 ppm	6.9539 ppm	1.3456 ppm	0.3822 ppm	0.8235 ppm
Concentration per Run 2	5.6695 ppm	2.1105 ppm	0.5560 ppm	6.9257 ppm	1.2831 ppm	0.3691 ppm	0.7847 ppm
Concentration per Run 3	5.1952 ppm	2.1054 ppm	0.5149 ppm	6.8938 ppm	1.1818 ppm	0.3657 ppm	0.7245 ppm
Concentration RSD	6.6 %	0.4 %	5.4 %	0.4 %	6.5 %	2.3 %	6.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6651 ppm	4.9038 ppm	0.2791 ppm	0.5506 ppm	1.1538 ppm	0.8602 ppm	0.4095 ppm
Concentration per Run 1	0.6793 ppm	5.2258 ppm	0.2921 ppm	0.5546 ppm	1.2209 ppm	0.8833 ppm	0.4326 ppm
Concentration per Run 2	0.6644 ppm	4.9708 ppm	0.2821 ppm	0.5491 ppm	1.1685 ppm	0.8554 ppm	0.4139 ppm
Concentration per Run 3	0.6517 ppm	4.5149 ppm	0.2632 ppm	0.5480 ppm	1.0721 ppm	0.8419 ppm	0.3819 ppm
Concentration RSD	2.1 %	7.3 %	5.3 %	0.6 %	6.5 %	2.5 %	6.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6548 ppm	101.1218 %	105.1991 %	95.0935 %	103.0058 %	107.4630 %	101.8950 %
Concentration per Run 1	0.6935 ppm	95.6589 %	104.8889 %	93.0823 %	98.6699 %	107.6242 %	100.1116 %
Concentration per Run 2	0.6606 ppm	99.5853 %	104.7517 %	95.5709 %	100.5986 %	106.7848 %	102.4613 %
Concentration per Run 3	0.6102 ppm	108.1212 %	105.9568 %	96.6271 %	109.7488 %	107.9800 %	103.1121 %
Concentration RSD	6.4 %	6.3 %	0.6 %	1.9 %	5.7 %	0.6 %	1.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432274-01d2 WG1933988
Analysis started at: 6/14/2024 5:25:28 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	41.3851 ppm	0.0395 ppm	0.0178 ppm	0.3780 ppm	0.0025 ppm	96.3042 ppm
Concentration per Run 1	0.0017 ppm	41.4923 ppm	0.0378 ppm	0.0178 ppm	0.3808 ppm	0.0024 ppm	96.5617 ppm
Concentration per Run 2	0.0016 ppm	41.3599 ppm	0.0422 ppm	0.0174 ppm	0.3785 ppm	0.0025 ppm	96.3888 ppm
Concentration per Run 3	0.0017 ppm	41.3031 ppm	0.0384 ppm	0.0180 ppm	0.3746 ppm	0.0025 ppm	95.9620 ppm
Concentration RSD	4.6 %	0.2 %	6.1 %	1.7 %	0.8 %	2.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0413 ppm	0.1068 ppm	2.7057 ppm	121.9077 ppm	5.1428 ppm	0.0651 ppm
Concentration per Run 1	0.0015 ppm	0.0421 ppm	0.1094 ppm	2.7530 ppm	122.4663 ppm	5.2306 ppm	0.0669 ppm
Concentration per Run 2	0.0013 ppm	0.0408 ppm	0.1058 ppm	2.7039 ppm	122.2404 ppm	5.1514 ppm	0.0636 ppm
Concentration per Run 3	0.0015 ppm	0.0410 ppm	0.1053 ppm	2.6603 ppm	121.0163 ppm	5.0464 ppm	0.0648 ppm
Concentration RSD	6.9 %	1.6 %	2.1 %	1.7 %	0.6 %	1.8 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.2959 ppm	2.2446 ppm	0.0113 ppm	4.4360 ppm	0.0966 ppm	0.6135 ppm	0.0107 ppm
Concentration per Run 1	28.8996 ppm	2.2554 ppm	0.0116 ppm	4.4438 ppm	0.0991 ppm	0.6159 ppm	0.0108 ppm
Concentration per Run 2	28.1210 ppm	2.2487 ppm	0.0109 ppm	4.4473 ppm	0.0962 ppm	0.6146 ppm	0.0091 ppm
Concentration per Run 3	27.8672 ppm	2.2296 ppm	0.0115 ppm	4.4169 ppm	0.0947 ppm	0.6100 ppm	0.0123 ppm
Concentration RSD	1.9 %	0.6 %	3.2 %	0.4 %	2.3 %	0.5 %	15.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	7.7119 ppm	0.0513 ppm	0.3482 ppm	2.1912 ppm	0.0012 ppm	0.1551 ppm
Concentration per Run 1	-0.0019 ppm	7.9317 ppm	0.0524 ppm	0.3506 ppm	2.2300 ppm	-0.0008 ppm	0.1584 ppm
Concentration per Run 2	0.0018 ppm	7.6676 ppm	0.0507 ppm	0.3491 ppm	2.1863 ppm	0.0016 ppm	0.1542 ppm
Concentration per Run 3	-0.0014 ppm	7.5363 ppm	0.0507 ppm	0.3449 ppm	2.1575 ppm	0.0028 ppm	0.1526 ppm
Concentration RSD	414.3 %	2.6 %	1.9 %	0.8 %	1.7 %	149.4 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9160 ppm	98.6593 %	107.3777 %	92.4642 %	104.6543 %	115.4809 %	108.8612 %
Concentration per Run 1	0.9369 ppm	96.2877 %	106.6909 %	91.7344 %	103.2466 %	115.1136 %	108.4351 %
Concentration per Run 2	0.9077 ppm	99.4534 %	107.4966 %	92.5902 %	105.5044 %	115.5933 %	109.0218 %
Concentration per Run 3	0.9033 ppm	100.2370 %	107.9457 %	93.0680 %	105.2119 %	115.7359 %	109.1266 %
Concentration RSD	2.0 %	2.1 %	0.6 %	0.7 %	1.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432274-02d2 WG1933988
Analysis started at: 6/14/2024 5:29:27 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	38.0164 ppm	0.0273 ppm	0.0074 ppm	0.2282 ppm	0.0022 ppm	40.6489 ppm
Concentration per Run 1	-0.0007 ppm	38.0200 ppm	0.0270 ppm	0.0079 ppm	0.2284 ppm	0.0023 ppm	40.9218 ppm
Concentration per Run 2	-0.0007 ppm	37.8753 ppm	0.0278 ppm	0.0069 ppm	0.2288 ppm	0.0021 ppm	40.5233 ppm
Concentration per Run 3	-0.0008 ppm	38.1539 ppm	0.0272 ppm	0.0076 ppm	0.2273 ppm	0.0021 ppm	40.5017 ppm
Concentration RSD	8.6 %	0.4 %	1.5 %	6.8 %	0.3 %	4.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0389 ppm	0.1245 ppm	0.1679 ppm	93.8184 ppm	3.9962 ppm	0.0508 ppm
Concentration per Run 1	0.0011 ppm	0.0399 ppm	0.1264 ppm	0.1714 ppm	94.1930 ppm	4.0412 ppm	0.0517 ppm
Concentration per Run 2	0.0011 ppm	0.0388 ppm	0.1246 ppm	0.1674 ppm	94.0307 ppm	4.0033 ppm	0.0490 ppm
Concentration per Run 3	0.0011 ppm	0.0380 ppm	0.1224 ppm	0.1649 ppm	93.2316 ppm	3.9441 ppm	0.0516 ppm
Concentration RSD	1.7 %	2.5 %	1.6 %	1.9 %	0.5 %	1.2 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.3716 ppm	1.9313 ppm	0.0045 ppm	2.6033 ppm	0.0645 ppm	1.1474 ppm	0.0055 ppm
Concentration per Run 1	21.7600 ppm	1.9406 ppm	0.0043 ppm	2.6125 ppm	0.0657 ppm	1.1577 ppm	0.0052 ppm
Concentration per Run 2	21.3479 ppm	1.9287 ppm	0.0052 ppm	2.6054 ppm	0.0642 ppm	1.1437 ppm	0.0061 ppm
Concentration per Run 3	21.0069 ppm	1.9245 ppm	0.0040 ppm	2.5920 ppm	0.0635 ppm	1.1407 ppm	0.0052 ppm
Concentration RSD	1.8 %	0.4 %	13.3 %	0.4 %	1.7 %	0.8 %	9.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	6.2882 ppm	0.0181 ppm	0.2223 ppm	2.6694 ppm	0.0003 ppm	0.1310 ppm
Concentration per Run 1	0.0002 ppm	6.4473 ppm	0.0191 ppm	0.2238 ppm	2.7261 ppm	-0.0002 ppm	0.1327 ppm
Concentration per Run 2	0.0014 ppm	6.3178 ppm	0.0182 ppm	0.2228 ppm	2.6539 ppm	0.0011 ppm	0.1315 ppm
Concentration per Run 3	0.0009 ppm	6.0993 ppm	0.0171 ppm	0.2202 ppm	2.6284 ppm	0.0001 ppm	0.1289 ppm
Concentration RSD	70.8 %	2.8 %	5.4 %	0.8 %	1.9 %	212.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4306 ppm	99.8194 %	106.8111 %	94.3178 %	110.0054 %	119.1622 %	113.8464 %
Concentration per Run 1	0.4389 ppm	97.9766 %	107.0134 %	93.8010 %	109.3183 %	119.8677 %	113.7479 %
Concentration per Run 2	0.4302 ppm	100.0729 %	106.8653 %	94.7424 %	109.9739 %	119.2949 %	114.3059 %
Concentration per Run 3	0.4228 ppm	101.4086 %	106.5546 %	94.4101 %	110.7239 %	118.3241 %	113.4854 %
Concentration RSD	1.9 %	1.7 %	0.2 %	0.5 %	0.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432274-03d2 WG1933988
Analysis started at: 6/14/2024 5:33:26 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	46.0905 ppm	0.0220 ppm	0.0027 ppm	0.1700 ppm	0.0020 ppm	18.2269 ppm
Concentration per Run 1	0.0003 ppm	45.9898 ppm	0.0212 ppm	0.0045 ppm	0.1700 ppm	0.0021 ppm	18.2387 ppm
Concentration per Run 2	-0.0002 ppm	46.1131 ppm	0.0218 ppm	0.0023 ppm	0.1697 ppm	0.0020 ppm	18.2304 ppm
Concentration per Run 3	0.0004 ppm	46.1686 ppm	0.0229 ppm	0.0014 ppm	0.1704 ppm	0.0020 ppm	18.2115 ppm
Concentration RSD	203.3 %	0.2 %	4.0 %	58.1 %	0.2 %	1.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0438 ppm	0.1149 ppm	0.1019 ppm	105.3988 ppm	3.3326 ppm	0.0615 ppm
Concentration per Run 1	0.0007 ppm	0.0446 ppm	0.1168 ppm	0.1037 ppm	105.5998 ppm	3.3717 ppm	0.0625 ppm
Concentration per Run 2	0.0006 ppm	0.0438 ppm	0.1147 ppm	0.1013 ppm	105.1141 ppm	3.3330 ppm	0.0607 ppm
Concentration per Run 3	0.0007 ppm	0.0431 ppm	0.1133 ppm	0.1008 ppm	105.4824 ppm	3.2930 ppm	0.0611 ppm
Concentration RSD	4.6 %	1.6 %	1.5 %	1.5 %	0.2 %	1.2 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.8327 ppm	2.1045 ppm	0.0041 ppm	2.0061 ppm	0.0826 ppm	0.0526 ppm	0.0012 ppm
Concentration per Run 1	30.2896 ppm	2.1034 ppm	0.0037 ppm	2.0146 ppm	0.0844 ppm	0.0522 ppm	0.0017 ppm
Concentration per Run 2	29.7468 ppm	2.1028 ppm	0.0047 ppm	2.0072 ppm	0.0824 ppm	0.0525 ppm	0.0033 ppm
Concentration per Run 3	29.4618 ppm	2.1071 ppm	0.0040 ppm	1.9964 ppm	0.0812 ppm	0.0531 ppm	-0.0015 ppm
Concentration RSD	1.4 %	0.1 %	12.2 %	0.5 %	2.0 %	0.9 %	203.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	3.6817 ppm	0.0022 ppm	0.1232 ppm	2.3278 ppm	-0.0002 ppm	0.1472 ppm
Concentration per Run 1	-0.0011 ppm	3.7873 ppm	0.0020 ppm	0.1241 ppm	2.3652 ppm	0.0001 ppm	0.1495 ppm
Concentration per Run 2	-0.0019 ppm	3.6634 ppm	0.0020 ppm	0.1223 ppm	2.3211 ppm	0.0000 ppm	0.1470 ppm
Concentration per Run 3	-0.0009 ppm	3.5943 ppm	0.0024 ppm	0.1231 ppm	2.2970 ppm	-0.0006 ppm	0.1452 ppm
Concentration RSD	42.4 %	2.7 %	9.8 %	0.7 %	1.5 %	221.4 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2412 ppm	100.9211 %	108.5443 %	95.4166 %	105.9126 %	115.9248 %	109.2736 %
Concentration per Run 1	0.2449 ppm	99.2994 %	108.4465 %	95.0943 %	105.2064 %	115.9925 %	109.0298 %
Concentration per Run 2	0.2415 ppm	101.3182 %	108.6411 %	95.6904 %	106.4628 %	116.0111 %	109.4946 %
Concentration per Run 3	0.2372 ppm	102.1458 %	108.5452 %	95.4651 %	106.0685 %	115.7707 %	109.2963 %
Concentration RSD	1.6 %	1.5 %	0.1 %	0.3 %	0.6 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432274-04d2 WG1933988
Analysis started at: 6/14/2024 5:37:25 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	60.3518 ppm	0.0307 ppm	0.0049 ppm	0.2636 ppm	0.0028 ppm	19.0528 ppm
Concentration per Run 1	0.0006 ppm	60.3340 ppm	0.0306 ppm	0.0055 ppm	0.2647 ppm	0.0027 ppm	19.0938 ppm
Concentration per Run 2	0.0006 ppm	60.4254 ppm	0.0311 ppm	0.0041 ppm	0.2633 ppm	0.0028 ppm	19.0458 ppm
Concentration per Run 3	0.0000 ppm	60.2961 ppm	0.0305 ppm	0.0049 ppm	0.2630 ppm	0.0028 ppm	19.0190 ppm
Concentration RSD	78.2 %	0.1 %	1.0 %	14.1 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0671 ppm	0.1555 ppm	0.1916 ppm	147.0839 ppm	6.4064 ppm	0.0912 ppm
Concentration per Run 1	0.0012 ppm	0.0682 ppm	0.1568 ppm	0.1955 ppm	147.7122 ppm	6.4547 ppm	0.0923 ppm
Concentration per Run 2	0.0013 ppm	0.0668 ppm	0.1558 ppm	0.1910 ppm	146.6572 ppm	6.3955 ppm	0.0909 ppm
Concentration per Run 3	0.0012 ppm	0.0663 ppm	0.1538 ppm	0.1883 ppm	146.8823 ppm	6.3690 ppm	0.0904 ppm
Concentration RSD	1.9 %	1.5 %	1.0 %	1.9 %	0.4 %	0.7 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.8551 ppm	1.8971 ppm	0.0055 ppm	1.9161 ppm	0.1140 ppm	0.0705 ppm	0.0036 ppm
Concentration per Run 1	35.4298 ppm	1.9013 ppm	0.0059 ppm	1.9111 ppm	0.1156 ppm	0.0717 ppm	0.0027 ppm
Concentration per Run 2	34.7419 ppm	1.8981 ppm	0.0050 ppm	1.9191 ppm	0.1140 ppm	0.0707 ppm	0.0046 ppm
Concentration per Run 3	34.3938 ppm	1.8920 ppm	0.0055 ppm	1.9182 ppm	0.1125 ppm	0.0692 ppm	0.0035 ppm
Concentration RSD	1.5 %	0.2 %	7.9 %	0.2 %	1.4 %	1.7 %	26.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	4.8451 ppm	0.0026 ppm	0.0954 ppm	3.2258 ppm	0.0018 ppm	0.1967 ppm
Concentration per Run 1	0.0021 ppm	4.9691 ppm	0.0031 ppm	0.0958 ppm	3.2760 ppm	0.0024 ppm	0.1998 ppm
Concentration per Run 2	0.0015 ppm	4.8849 ppm	0.0023 ppm	0.0954 ppm	3.2175 ppm	0.0031 ppm	0.1959 ppm
Concentration per Run 3	-0.0012 ppm	4.6812 ppm	0.0024 ppm	0.0949 ppm	3.1838 ppm	0.0000 ppm	0.1943 ppm
Concentration RSD	218.6 %	3.1 %	15.1 %	0.5 %	1.4 %	88.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3286 ppm	101.6964 %	108.8522 %	94.0470 %	109.1198 %	119.1253 %	112.1847 %
Concentration per Run 1	0.3348 ppm	99.8035 %	108.2623 %	93.8420 %	108.3502 %	118.7407 %	112.2720 %
Concentration per Run 2	0.3283 ppm	102.2086 %	108.5170 %	94.3162 %	109.6494 %	118.5579 %	112.3293 %
Concentration per Run 3	0.3227 ppm	103.0772 %	109.7773 %	93.9827 %	109.3598 %	120.0772 %	111.9527 %
Concentration RSD	1.8 %	1.7 %	0.7 %	0.3 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432308-01d2 WG1933988
Analysis started at: 6/14/2024 5:41:24 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	68.8004 ppm	0.1005 ppm	0.0022 ppm	0.1511 ppm	0.0034 ppm	13.2361 ppm
Concentration per Run 1	-0.0001 ppm	68.9717 ppm	0.1004 ppm	0.0024 ppm	0.1518 ppm	0.0034 ppm	13.2988 ppm
Concentration per Run 2	0.0002 ppm	68.9688 ppm	0.0984 ppm	0.0012 ppm	0.1510 ppm	0.0034 ppm	13.2135 ppm
Concentration per Run 3	-0.0002 ppm	68.4606 ppm	0.1027 ppm	0.0029 ppm	0.1504 ppm	0.0035 ppm	13.1960 ppm
Concentration RSD	470.3 %	0.4 %	2.2 %	38.7 %	0.5 %	1.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0301 ppm	0.1249 ppm	0.1642 ppm	72.8753 ppm	4.6803 ppm	0.0810 ppm
Concentration per Run 1	0.0006 ppm	0.0309 ppm	0.1268 ppm	0.1669 ppm	73.0043 ppm	4.7106 ppm	0.0828 ppm
Concentration per Run 2	0.0004 ppm	0.0299 ppm	0.1247 ppm	0.1642 ppm	72.7066 ppm	4.6806 ppm	0.0805 ppm
Concentration per Run 3	0.0005 ppm	0.0294 ppm	0.1231 ppm	0.1616 ppm	72.9150 ppm	4.6497 ppm	0.0798 ppm
Concentration RSD	21.4 %	2.5 %	1.5 %	1.6 %	0.2 %	0.7 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.7317 ppm	1.0275 ppm	0.0017 ppm	0.3313 ppm	0.0974 ppm	0.4462 ppm	0.0040 ppm
Concentration per Run 1	22.0508 ppm	1.0295 ppm	0.0017 ppm	0.3295 ppm	0.0985 ppm	0.4455 ppm	0.0033 ppm
Concentration per Run 2	21.7099 ppm	1.0282 ppm	0.0019 ppm	0.3320 ppm	0.0973 ppm	0.4479 ppm	0.0037 ppm
Concentration per Run 3	21.4345 ppm	1.0249 ppm	0.0014 ppm	0.3325 ppm	0.0963 ppm	0.4453 ppm	0.0052 ppm
Concentration RSD	1.4 %	0.2 %	12.3 %	0.5 %	1.2 %	0.3 %	24.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.5087 ppm	0.0055 ppm	0.0353 ppm	2.7977 ppm	0.0005 ppm	0.1077 ppm
Concentration per Run 1	0.0000 ppm	3.5641 ppm	0.0052 ppm	0.0355 ppm	2.8488 ppm	0.0000 ppm	0.1099 ppm
Concentration per Run 2	0.0007 ppm	3.5265 ppm	0.0056 ppm	0.0348 ppm	2.7873 ppm	-0.0001 ppm	0.1071 ppm
Concentration per Run 3	0.0000 ppm	3.4357 ppm	0.0056 ppm	0.0355 ppm	2.7568 ppm	0.0014 ppm	0.1061 ppm
Concentration RSD	182.8 %	1.9 %	4.7 %	1.3 %	1.7 %	178.4 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2332 ppm	99.9452 %	107.5508 %	95.0772 %	104.4615 %	113.6009 %	108.4918 %
Concentration per Run 1	0.2376 ppm	98.8003 %	106.4240 %	94.9025 %	104.5284 %	112.5581 %	108.6491 %
Concentration per Run 2	0.2310 ppm	99.9023 %	108.2702 %	94.9599 %	104.3194 %	114.2691 %	108.4476 %
Concentration per Run 3	0.2310 ppm	101.1330 %	107.9584 %	95.3693 %	104.5366 %	113.9753 %	108.3788 %
Concentration RSD	1.6 %	1.2 %	0.9 %	0.3 %	0.1 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432308-02d2 WG1933988
Analysis started at: 6/14/2024 5:45:24 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	41.9197 ppm	0.1660 ppm	0.0019 ppm	0.1040 ppm	0.0024 ppm	6.6877 ppm
Concentration per Run 1	0.0000 ppm	41.9138 ppm	0.1690 ppm	0.0020 ppm	0.1043 ppm	0.0024 ppm	6.7133 ppm
Concentration per Run 2	-0.0001 ppm	41.9533 ppm	0.1644 ppm	0.0008 ppm	0.1034 ppm	0.0024 ppm	6.6664 ppm
Concentration per Run 3	0.0000 ppm	41.8919 ppm	0.1647 ppm	0.0028 ppm	0.1044 ppm	0.0024 ppm	6.6835 ppm
Concentration RSD	205.9 %	0.1 %	1.6 %	52.8 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0239 ppm	0.0853 ppm	0.0478 ppm	55.5143 ppm	4.2758 ppm	0.0532 ppm
Concentration per Run 1	0.0003 ppm	0.0245 ppm	0.0861 ppm	0.0489 ppm	55.6113 ppm	4.3029 ppm	0.0557 ppm
Concentration per Run 2	0.0004 ppm	0.0237 ppm	0.0857 ppm	0.0475 ppm	55.3940 ppm	4.2663 ppm	0.0531 ppm
Concentration per Run 3	0.0003 ppm	0.0236 ppm	0.0840 ppm	0.0470 ppm	55.5374 ppm	4.2583 ppm	0.0507 ppm
Concentration RSD	16.1 %	2.2 %	1.3 %	2.1 %	0.2 %	0.6 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.9472 ppm	0.7124 ppm	0.0011 ppm	0.2922 ppm	0.0739 ppm	0.0711 ppm	0.0007 ppm
Concentration per Run 1	14.1902 ppm	0.7126 ppm	0.0009 ppm	0.2905 ppm	0.0755 ppm	0.0715 ppm	-0.0008 ppm
Concentration per Run 2	13.8926 ppm	0.7114 ppm	0.0015 ppm	0.2944 ppm	0.0737 ppm	0.0714 ppm	0.0003 ppm
Concentration per Run 3	13.7589 ppm	0.7132 ppm	0.0008 ppm	0.2917 ppm	0.0725 ppm	0.0702 ppm	0.0026 ppm
Concentration RSD	1.6 %	0.1 %	35.0 %	0.7 %	2.0 %	1.0 %	249.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	2.6714 ppm	0.0044 ppm	0.0266 ppm	1.8753 ppm	0.0013 ppm	0.0751 ppm
Concentration per Run 1	0.0002 ppm	2.7242 ppm	0.0038 ppm	0.0266 ppm	1.9030 ppm	0.0014 ppm	0.0763 ppm
Concentration per Run 2	-0.0016 ppm	2.7142 ppm	0.0050 ppm	0.0264 ppm	1.8714 ppm	0.0016 ppm	0.0751 ppm
Concentration per Run 3	0.0021 ppm	2.5757 ppm	0.0044 ppm	0.0268 ppm	1.8515 ppm	0.0009 ppm	0.0738 ppm
Concentration RSD	807.7 %	3.1 %	14.7 %	0.9 %	1.4 %	30.1 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1821 ppm	100.4739 %	106.8103 %	96.5505 %	108.7342 %	116.6101 %	111.6535 %
Concentration per Run 1	0.1852 ppm	98.6607 %	105.8591 %	96.1650 %	107.5903 %	115.9953 %	111.7953 %
Concentration per Run 2	0.1820 ppm	101.0789 %	107.8291 %	96.5047 %	109.6466 %	117.6002 %	111.3608 %
Concentration per Run 3	0.1791 ppm	101.6821 %	106.7426 %	96.9817 %	108.9657 %	116.2347 %	111.8043 %
Concentration RSD	1.7 %	1.6 %	0.9 %	0.4 %	1.0 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432308-03d2 WG1933988
Analysis started at: 6/14/2024 5:49:23 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	52.3696 ppm	0.0858 ppm	0.0064 ppm	0.2578 ppm	0.0029 ppm	38.9879 ppm
Concentration per Run 1	-0.0001 ppm	52.2013 ppm	0.0860 ppm	0.0060 ppm	0.2589 ppm	0.0029 ppm	38.9780 ppm
Concentration per Run 2	0.0002 ppm	52.2639 ppm	0.0857 ppm	0.0059 ppm	0.2569 ppm	0.0029 ppm	38.9457 ppm
Concentration per Run 3	0.0003 ppm	52.6434 ppm	0.0858 ppm	0.0074 ppm	0.2577 ppm	0.0029 ppm	39.0401 ppm
Concentration RSD	161.5 %	0.5 %	0.2 %	12.6 %	0.4 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0218 ppm	0.0968 ppm	0.1144 ppm	62.7533 ppm	5.6941 ppm	0.0727 ppm
Concentration per Run 1	0.0007 ppm	0.0223 ppm	0.0983 ppm	0.1163 ppm	62.8204 ppm	5.7510 ppm	0.0747 ppm
Concentration per Run 2	0.0006 ppm	0.0217 ppm	0.0963 ppm	0.1143 ppm	62.6516 ppm	5.6601 ppm	0.0718 ppm
Concentration per Run 3	0.0006 ppm	0.0214 ppm	0.0958 ppm	0.1125 ppm	62.7878 ppm	5.6711 ppm	0.0717 ppm
Concentration RSD	8.5 %	2.1 %	1.4 %	1.7 %	0.1 %	0.9 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.6409 ppm	1.2306 ppm	0.0017 ppm	0.5745 ppm	0.0725 ppm	0.4108 ppm	0.0006 ppm
Concentration per Run 1	27.0773 ppm	1.2295 ppm	0.0020 ppm	0.5751 ppm	0.0730 ppm	0.4148 ppm	0.0001 ppm
Concentration per Run 2	26.5091 ppm	1.2281 ppm	0.0018 ppm	0.5708 ppm	0.0716 ppm	0.4076 ppm	0.0016 ppm
Concentration per Run 3	26.3364 ppm	1.2342 ppm	0.0014 ppm	0.5778 ppm	0.0727 ppm	0.4099 ppm	0.0002 ppm
Concentration RSD	1.5 %	0.3 %	18.3 %	0.6 %	1.0 %	0.9 %	127.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	2.7793 ppm	0.0122 ppm	0.0757 ppm	2.2426 ppm	0.0001 ppm	0.0899 ppm
Concentration per Run 1	0.0008 ppm	2.8295 ppm	0.0119 ppm	0.0761 ppm	2.2716 ppm	0.0006 ppm	0.0911 ppm
Concentration per Run 2	0.0046 ppm	2.7996 ppm	0.0122 ppm	0.0757 ppm	2.2373 ppm	-0.0007 ppm	0.0893 ppm
Concentration per Run 3	-0.0016 ppm	2.7089 ppm	0.0126 ppm	0.0754 ppm	2.2188 ppm	0.0005 ppm	0.0893 ppm
Concentration RSD	240.3 %	2.3 %	2.8 %	0.5 %	1.2 %	563.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3118 ppm	100.7752 %	108.1132 %	95.0529 %	104.1540 %	113.2339 %	106.7631 %
Concentration per Run 1	0.3180 ppm	98.6554 %	108.4071 %	94.6409 %	103.0182 %	113.9386 %	106.6949 %
Concentration per Run 2	0.3085 ppm	101.6371 %	108.8453 %	95.4773 %	105.0445 %	113.9317 %	107.1889 %
Concentration per Run 3	0.3090 ppm	102.0332 %	107.0873 %	95.0404 %	104.3992 %	111.8313 %	106.4055 %
Concentration RSD	1.7 %	1.8 %	0.8 %	0.4 %	1.0 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 5:53:22 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4975 ppm	0.4756 ppm	0.4641 ppm	0.4912 ppm	0.5015 ppm	0.5017 ppm	0.4877 ppm
Concentration per Run 1	0.5052 ppm	0.4703 ppm	0.4636 ppm	0.4970 ppm	0.5040 ppm	0.5048 ppm	0.4888 ppm
Concentration per Run 2	0.4965 ppm	0.4739 ppm	0.4663 ppm	0.4903 ppm	0.4997 ppm	0.5037 ppm	0.4855 ppm
Concentration per Run 3	0.4907 ppm	0.4827 ppm	0.4624 ppm	0.4863 ppm	0.5009 ppm	0.4965 ppm	0.4889 ppm
Recovery Percentage 1	99.494 %	95.130 %	92.821 %	98.240 %	100.306 %	100.332 %	97.547 %
Concentration RSD	1.5 %	1.3 %	0.4 %	1.1 %	0.4 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4914 ppm	0.5042 ppm	0.4879 ppm	0.4920 ppm	0.5205 ppm	4.9956 ppm	0.4687 ppm
Concentration per Run 1	0.4985 ppm	0.5115 ppm	0.4964 ppm	0.5000 ppm	0.5262 ppm	5.0181 ppm	0.4639 ppm
Concentration per Run 2	0.4908 ppm	0.5051 ppm	0.4859 ppm	0.4905 ppm	0.5173 ppm	4.9703 ppm	0.4665 ppm
Concentration per Run 3	0.4848 ppm	0.4962 ppm	0.4816 ppm	0.4855 ppm	0.5179 ppm	4.9984 ppm	0.4758 ppm
Recovery Percentage 1	98.277 %	100.849 %	97.588 %	98.393 %	104.094 %	99.912 %	93.744 %
Concentration RSD	1.4 %	1.5 %	1.6 %	1.5 %	1.0 %	0.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4947 ppm	0.4868 ppm	0.4847 ppm	9.8912 ppm	0.5037 ppm	0.4858 ppm	0.4825 ppm
Concentration per Run 1	0.5060 ppm	0.4880 ppm	0.4841 ppm	9.9549 ppm	0.5134 ppm	0.4885 ppm	0.4895 ppm
Concentration per Run 2	0.4910 ppm	0.4853 ppm	0.4853 ppm	9.9021 ppm	0.5028 ppm	0.4840 ppm	0.4821 ppm
Concentration per Run 3	0.4872 ppm	0.4870 ppm	0.4846 ppm	9.8165 ppm	0.4951 ppm	0.4847 ppm	0.4759 ppm
Recovery Percentage 1	98.947 %	97.354 %	96.930 %	98.912 %	100.748 %	97.151 %	96.499 %
Concentration RSD	2.0 %	0.3 %	0.1 %	0.7 %	1.8 %	0.5 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4746 ppm	5.1150 ppm	0.5109 ppm	0.5042 ppm	0.4977 ppm	0.4817 ppm	0.4919 ppm
Concentration per Run 1	0.4793 ppm	5.1787 ppm	0.5130 ppm	0.5089 ppm	0.5067 ppm	0.4828 ppm	0.5003 ppm
Concentration per Run 2	0.4700 ppm	5.1074 ppm	0.5111 ppm	0.5057 ppm	0.4958 ppm	0.4836 ppm	0.4914 ppm
Concentration per Run 3	0.4745 ppm	5.0590 ppm	0.5086 ppm	0.4981 ppm	0.4907 ppm	0.4787 ppm	0.4840 ppm
Recovery Percentage 1	94.917 %	97.429 %	102.177 %	100.849 %	99.545 %	96.340 %	98.371 %
Concentration RSD	1.0 %	1.2 %	0.4 %	1.1 %	1.7 %	0.6 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4991 ppm	99.1912 %	105.0442 %	101.1944 %	95.3869 %	101.4216 %	98.9618 %
Concentration per Run 1	0.5067 ppm	97.8471 %	104.8378 %	100.7323 %	95.2084 %	101.7661 %	98.9887 %
Concentration per Run 2	0.4982 ppm	99.0672 %	105.8759 %	101.4653 %	95.1343 %	102.1381 %	99.1832 %
Concentration per Run 3	0.4925 ppm	100.6594 %	104.4188 %	101.3856 %	95.8179 %	100.3605 %	98.7135 %
Recovery Percentage 1	99.822 %						
Concentration RSD	1.4 %	1.4 %	0.7 %	0.4 %	0.4 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 5:57:20 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0075 ppm	0.0007 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	0.0001 ppm	-0.0127 ppm	0.0009 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 3	-0.0003 ppm	-0.0097 ppm	0.0014 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0018 ppm
Recovery Percentage 1	-1.277 %	-7.484 %	24.167 %	3.296 %	0.905 %	0.635 %	3.572 %
Concentration RSD	241.1 %	89.2 %	106.3 %	112.7 %	176.9 %	125.9 %	61.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0006 ppm	0.0120 ppm	-0.0019 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0104 ppm	0.0258 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0133 ppm	-0.0102 ppm	-0.0006 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	-0.0005 ppm	0.0004 ppm	0.0123 ppm	-0.0212 ppm	-0.0009 ppm
Recovery Percentage 1	-0.191 %	2.207 %	-1.578 %	5.776 %	24.035 %	-0.074 %	-7.424 %
Concentration RSD	1,405.2 %	52.8 %	177.7 %	27.1 %	12.0 %	1,328.2 %	18.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0002 ppm	0.0015 ppm	-0.0275 ppm	-0.0003 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 1	0.0010 ppm	0.0000 ppm	0.0019 ppm	-0.0336 ppm	-0.0009 ppm	-0.0008 ppm	0.0024 ppm
Concentration per Run 2	0.0008 ppm	0.0003 ppm	0.0015 ppm	-0.0242 ppm	0.0005 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	-0.0013 ppm	0.0003 ppm	0.0010 ppm	-0.0247 ppm	-0.0004 ppm	0.0006 ppm	0.0014 ppm
Recovery Percentage 1	0.170 %	2.035 %	2.940 %	-1.375 %	-1.033 %	-0.602 %	2.020 %
Concentration RSD	762.5 %	74.0 %	31.4 %	19.3 %	266.6 %	1,106.8 %	160.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.0052 ppm	0.0015 ppm	0.0000 ppm	0.0002 ppm	-0.0026 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	-0.0002 ppm	0.0022 ppm	0.0001 ppm	0.0006 ppm	-0.0026 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0090 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 3	0.0033 ppm	0.0068 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0028 ppm	0.0001 ppm
Recovery Percentage 1	6.401 %	1.045 %	2.989 %	0.099 %	2.270 %	-12.971 %	0.218 %
Concentration RSD	360.5 %	91.6 %	46.8 %	611.2 %	152.2 %	7.0 %	505.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	95.5484 %	100.6456 %	98.3174 %	96.8022 %	100.3600 %	99.1174 %
Concentration per Run 1	0.0012 ppm	93.7347 %	101.0259 %	97.6905 %	96.3307 %	101.1479 %	99.5232 %
Concentration per Run 2	0.0011 ppm	95.2205 %	100.6006 %	98.7654 %	96.4416 %	100.4752 %	99.2421 %
Concentration per Run 3	0.0011 ppm	97.6902 %	100.3103 %	98.4964 %	97.6342 %	99.4569 %	98.5869 %
Recovery Percentage 1	22.447 %						
Concentration RSD	3.4 %	2.1 %	0.4 %	0.6 %	0.7 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432308-04d2 WG1933988
Analysis started at: 6/14/2024 6:04:11 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	50.6586 ppm	0.0826 ppm	0.0015 ppm	0.1669 ppm	0.0027 ppm	4.8473 ppm
Concentration per Run 1	0.0003 ppm	50.6437 ppm	0.0832 ppm	0.0028 ppm	0.1678 ppm	0.0027 ppm	4.8573 ppm
Concentration per Run 2	0.0003 ppm	50.4658 ppm	0.0831 ppm	0.0012 ppm	0.1662 ppm	0.0027 ppm	4.8534 ppm
Concentration per Run 3	-0.0003 ppm	50.8663 ppm	0.0815 ppm	0.0005 ppm	0.1667 ppm	0.0026 ppm	4.8312 ppm
Concentration RSD	255.9 %	0.4 %	1.1 %	77.4 %	0.5 %	1.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0218 ppm	0.0823 ppm	0.0456 ppm	51.6352 ppm	4.0176 ppm	0.0564 ppm
Concentration per Run 1	0.0005 ppm	0.0216 ppm	0.0835 ppm	0.0461 ppm	52.0051 ppm	4.0434 ppm	0.0569 ppm
Concentration per Run 2	0.0005 ppm	0.0221 ppm	0.0819 ppm	0.0458 ppm	51.4010 ppm	3.9919 ppm	0.0549 ppm
Concentration per Run 3	0.0004 ppm	0.0217 ppm	0.0814 ppm	0.0449 ppm	51.4996 ppm	4.0174 ppm	0.0573 ppm
Concentration RSD	17.4 %	1.3 %	1.4 %	1.4 %	0.6 %	0.6 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.4227 ppm	0.6190 ppm	0.0011 ppm	0.2519 ppm	0.0666 ppm	0.0678 ppm	0.0023 ppm
Concentration per Run 1	14.6575 ppm	0.6217 ppm	0.0013 ppm	0.2576 ppm	0.0678 ppm	0.0679 ppm	-0.0006 ppm
Concentration per Run 2	14.3803 ppm	0.6187 ppm	0.0007 ppm	0.2479 ppm	0.0664 ppm	0.0668 ppm	0.0016 ppm
Concentration per Run 3	14.2302 ppm	0.6165 ppm	0.0014 ppm	0.2504 ppm	0.0656 ppm	0.0687 ppm	0.0060 ppm
Concentration RSD	1.5 %	0.4 %	36.5 %	2.0 %	1.7 %	1.4 %	144.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	2.5145 ppm	0.0043 ppm	0.0237 ppm	1.9697 ppm	0.0012 ppm	0.0733 ppm
Concentration per Run 1	-0.0007 ppm	2.5352 ppm	0.0048 ppm	0.0239 ppm	1.9983 ppm	0.0012 ppm	0.0742 ppm
Concentration per Run 2	0.0014 ppm	2.5062 ppm	0.0040 ppm	0.0236 ppm	1.9618 ppm	0.0009 ppm	0.0734 ppm
Concentration per Run 3	0.0003 ppm	2.5023 ppm	0.0040 ppm	0.0236 ppm	1.9489 ppm	0.0017 ppm	0.0723 ppm
Concentration RSD	325.3 %	0.7 %	11.0 %	0.6 %	1.3 %	32.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1507 ppm	100.1992 %	105.7411 %	96.4621 %	104.7629 %	111.7388 %	108.0049 %
Concentration per Run 1	0.1534 ppm	98.5937 %	105.6798 %	96.3083 %	104.6108 %	112.1087 %	108.4860 %
Concentration per Run 2	0.1504 ppm	100.5571 %	106.0421 %	96.1971 %	105.1724 %	112.1802 %	107.6398 %
Concentration per Run 3	0.1482 ppm	101.4467 %	105.5014 %	96.8810 %	104.5054 %	110.9274 %	107.8887 %
Concentration RSD	1.7 %	1.5 %	0.3 %	0.4 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432308-05d2 WG1933988
Analysis started at: 6/14/2024 6:08:16 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	49.6279 ppm	0.0990 ppm	0.0008 ppm	0.1558 ppm	0.0028 ppm	5.1408 ppm
Concentration per Run 1	-0.0001 ppm	49.7703 ppm	0.1006 ppm	0.0015 ppm	0.1562 ppm	0.0027 ppm	5.1638 ppm
Concentration per Run 2	0.0001 ppm	49.6591 ppm	0.0968 ppm	0.0000 ppm	0.1554 ppm	0.0028 ppm	5.1376 ppm
Concentration per Run 3	0.0002 ppm	49.4544 ppm	0.0997 ppm	0.0009 ppm	0.1559 ppm	0.0028 ppm	5.1209 ppm
Concentration RSD	186.7 %	0.3 %	2.0 %	90.3 %	0.3 %	2.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0241 ppm	0.0996 ppm	0.0531 ppm	63.7578 ppm	4.9725 ppm	0.0664 ppm
Concentration per Run 1	0.0002 ppm	0.0245 ppm	0.1011 ppm	0.0533 ppm	63.9711 ppm	5.0239 ppm	0.0686 ppm
Concentration per Run 2	0.0004 ppm	0.0241 ppm	0.0995 ppm	0.0536 ppm	63.5247 ppm	4.9217 ppm	0.0670 ppm
Concentration per Run 3	0.0005 ppm	0.0238 ppm	0.0983 ppm	0.0523 ppm	63.7777 ppm	4.9718 ppm	0.0635 ppm
Concentration RSD	31.9 %	1.5 %	1.4 %	1.2 %	0.4 %	1.0 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.2299 ppm	0.9103 ppm	0.0008 ppm	0.2223 ppm	0.0788 ppm	0.0625 ppm	0.0012 ppm
Concentration per Run 1	18.4627 ppm	0.9135 ppm	0.0007 ppm	0.2244 ppm	0.0793 ppm	0.0634 ppm	-0.0002 ppm
Concentration per Run 2	18.1992 ppm	0.9077 ppm	0.0014 ppm	0.2174 ppm	0.0794 ppm	0.0623 ppm	0.0006 ppm
Concentration per Run 3	18.0278 ppm	0.9098 ppm	0.0004 ppm	0.2253 ppm	0.0777 ppm	0.0619 ppm	0.0032 ppm
Concentration RSD	1.2 %	0.3 %	59.7 %	1.9 %	1.2 %	1.2 %	149.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	3.2203 ppm	0.0043 ppm	0.0258 ppm	2.1432 ppm	0.0009 ppm	0.0854 ppm
Concentration per Run 1	-0.0015 ppm	3.2642 ppm	0.0044 ppm	0.0260 ppm	2.1747 ppm	0.0008 ppm	0.0868 ppm
Concentration per Run 2	0.0010 ppm	3.2037 ppm	0.0043 ppm	0.0257 ppm	2.1397 ppm	0.0006 ppm	0.0852 ppm
Concentration per Run 3	0.0026 ppm	3.1930 ppm	0.0041 ppm	0.0258 ppm	2.1151 ppm	0.0013 ppm	0.0841 ppm
Concentration RSD	299.7 %	1.2 %	3.7 %	0.6 %	1.4 %	35.2 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1552 ppm	99.0803 %	105.3587 %	95.8039 %	104.3235 %	112.4473 %	108.6271 %
Concentration per Run 1	0.1575 ppm	97.7438 %	104.1855 %	95.4103 %	103.9671 %	111.4401 %	108.9411 %
Concentration per Run 2	0.1555 ppm	99.4120 %	105.2788 %	96.0429 %	104.7943 %	112.0041 %	108.4646 %
Concentration per Run 3	0.1527 ppm	100.0850 %	106.6119 %	95.9585 %	104.2090 %	113.8978 %	108.4756 %
Concentration RSD	1.6 %	1.2 %	1.2 %	0.4 %	0.4 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432348-01d2 WG1933988
Analysis started at: 6/14/2024 6:12:17 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	61.9964 ppm	0.0831 ppm	0.0058 ppm	0.2352 ppm	0.0033 ppm	35.8800 ppm
Concentration per Run 1	0.0004 ppm	62.0182 ppm	0.0840 ppm	0.0054 ppm	0.2357 ppm	0.0033 ppm	35.8963 ppm
Concentration per Run 2	0.0001 ppm	61.9727 ppm	0.0817 ppm	0.0063 ppm	0.2356 ppm	0.0033 ppm	35.8383 ppm
Concentration per Run 3	0.0002 ppm	61.9983 ppm	0.0836 ppm	0.0057 ppm	0.2344 ppm	0.0033 ppm	35.9052 ppm
Concentration RSD	59.5 %	0.0 %	1.5 %	7.7 %	0.3 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0316 ppm	0.1621 ppm	0.1101 ppm	77.7745 ppm	10.0813 ppm	0.1071 ppm
Concentration per Run 1	0.0008 ppm	0.0318 ppm	0.1646 ppm	0.1123 ppm	77.8385 ppm	10.1273 ppm	0.1085 ppm
Concentration per Run 2	0.0006 ppm	0.0316 ppm	0.1616 ppm	0.1099 ppm	77.8549 ppm	10.0854 ppm	0.1067 ppm
Concentration per Run 3	0.0007 ppm	0.0313 ppm	0.1601 ppm	0.1081 ppm	77.6301 ppm	10.0313 ppm	0.1061 ppm
Concentration RSD	11.5 %	0.8 %	1.4 %	1.9 %	0.2 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.9612 ppm	0.9282 ppm	0.0020 ppm	1.3274 ppm	0.1092 ppm	0.1736 ppm	0.0036 ppm
Concentration per Run 1	24.2819 ppm	0.9297 ppm	0.0019 ppm	1.3331 ppm	0.1108 ppm	0.1729 ppm	0.0030 ppm
Concentration per Run 2	23.9310 ppm	0.9270 ppm	0.0023 ppm	1.3230 ppm	0.1084 ppm	0.1738 ppm	0.0053 ppm
Concentration per Run 3	23.6707 ppm	0.9279 ppm	0.0019 ppm	1.3262 ppm	0.1084 ppm	0.1742 ppm	0.0026 ppm
Concentration RSD	1.3 %	0.1 %	9.9 %	0.4 %	1.3 %	0.4 %	40.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	6.4453 ppm	0.0098 ppm	0.1119 ppm	3.4886 ppm	0.0014 ppm	0.1207 ppm
Concentration per Run 1	-0.0017 ppm	6.6306 ppm	0.0098 ppm	0.1123 ppm	3.5412 ppm	0.0010 ppm	0.1216 ppm
Concentration per Run 2	0.0016 ppm	6.4109 ppm	0.0098 ppm	0.1120 ppm	3.4762 ppm	0.0001 ppm	0.1212 ppm
Concentration per Run 3	-0.0042 ppm	6.2943 ppm	0.0097 ppm	0.1115 ppm	3.4484 ppm	0.0030 ppm	0.1194 ppm
Concentration RSD	201.6 %	2.6 %	0.8 %	0.4 %	1.4 %	108.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2747 ppm	99.1753 %	106.5485 %	92.6323 %	103.6391 %	113.3708 %	107.4603 %
Concentration per Run 1	0.2784 ppm	97.5532 %	106.8363 %	92.3116 %	103.1130 %	113.7517 %	107.5618 %
Concentration per Run 2	0.2731 ppm	99.7690 %	106.8964 %	92.6462 %	104.0609 %	113.7541 %	107.1795 %
Concentration per Run 3	0.2725 ppm	100.2037 %	105.9129 %	92.9392 %	103.7434 %	112.6066 %	107.6397 %
Concentration RSD	1.2 %	1.4 %	0.5 %	0.3 %	0.5 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432348-02d2 WG1933988
Analysis started at: 6/14/2024 6:16:16 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	58.1074 ppm	0.0802 ppm	0.0063 ppm	0.2117 ppm	0.0029 ppm	38.7667 ppm
Concentration per Run 1	-0.0001 ppm	57.8806 ppm	0.0787 ppm	0.0068 ppm	0.2123 ppm	0.0029 ppm	38.9152 ppm
Concentration per Run 2	-0.0001 ppm	58.2403 ppm	0.0815 ppm	0.0069 ppm	0.2116 ppm	0.0030 ppm	38.7501 ppm
Concentration per Run 3	0.0003 ppm	58.2013 ppm	0.0803 ppm	0.0053 ppm	0.2114 ppm	0.0030 ppm	38.6350 ppm
Concentration RSD	4,572.5 %	0.3 %	1.8 %	14.6 %	0.2 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0302 ppm	0.1498 ppm	0.0809 ppm	76.7496 ppm	9.3448 ppm	0.1014 ppm
Concentration per Run 1	0.0005 ppm	0.0309 ppm	0.1519 ppm	0.0823 ppm	76.9321 ppm	9.3715 ppm	0.1004 ppm
Concentration per Run 2	0.0005 ppm	0.0299 ppm	0.1496 ppm	0.0799 ppm	76.6114 ppm	9.3585 ppm	0.1011 ppm
Concentration per Run 3	0.0006 ppm	0.0300 ppm	0.1479 ppm	0.0805 ppm	76.7054 ppm	9.3045 ppm	0.1026 ppm
Concentration RSD	14.0 %	1.8 %	1.3 %	1.5 %	0.2 %	0.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.3670 ppm	0.9376 ppm	0.0018 ppm	1.2381 ppm	0.1041 ppm	0.1197 ppm	0.0034 ppm
Concentration per Run 1	23.7595 ppm	0.9410 ppm	0.0021 ppm	1.2420 ppm	0.1074 ppm	0.1215 ppm	0.0023 ppm
Concentration per Run 2	23.3366 ppm	0.9364 ppm	0.0018 ppm	1.2388 ppm	0.1024 ppm	0.1197 ppm	0.0023 ppm
Concentration per Run 3	23.0048 ppm	0.9356 ppm	0.0016 ppm	1.2334 ppm	0.1027 ppm	0.1178 ppm	0.0055 ppm
Concentration RSD	1.6 %	0.3 %	14.6 %	0.3 %	2.7 %	1.5 %	56.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	6.7294 ppm	0.0085 ppm	0.1133 ppm	3.2114 ppm	0.0014 ppm	0.1226 ppm
Concentration per Run 1	-0.0023 ppm	6.8529 ppm	0.0092 ppm	0.1136 ppm	3.2596 ppm	0.0004 ppm	0.1243 ppm
Concentration per Run 2	0.0013 ppm	6.7199 ppm	0.0079 ppm	0.1130 ppm	3.2038 ppm	0.0016 ppm	0.1229 ppm
Concentration per Run 3	0.0031 ppm	6.6153 ppm	0.0085 ppm	0.1133 ppm	3.1708 ppm	0.0023 ppm	0.1205 ppm
Concentration RSD	393.5 %	1.8 %	7.6 %	0.3 %	1.4 %	64.1 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2653 ppm	99.3169 %	106.7749 %	92.8492 %	103.6224 %	113.5140 %	107.0286 %
Concentration per Run 1	0.2693 ppm	97.3986 %	106.0507 %	92.3010 %	102.1875 %	113.5399 %	106.6949 %
Concentration per Run 2	0.2644 ppm	99.6326 %	106.9333 %	92.7968 %	104.2816 %	113.3992 %	107.2833 %
Concentration per Run 3	0.2621 ppm	100.9195 %	107.3406 %	93.4497 %	104.3981 %	113.6029 %	107.1077 %
Concentration RSD	1.4 %	1.8 %	0.6 %	0.6 %	1.2 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432354-01d2 WG1933988
Analysis started at: 6/14/2024 6:20:15 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0099 ppm	59.6677 ppm	0.1098 ppm	0.0201 ppm	0.9846 ppm	0.0031 ppm	25.6065 ppm
Concentration per Run 1	0.0100 ppm	59.3033 ppm	0.1093 ppm	0.0200 ppm	0.9811 ppm	0.0031 ppm	25.6172 ppm
Concentration per Run 2	0.0099 ppm	59.9320 ppm	0.1105 ppm	0.0194 ppm	0.9855 ppm	0.0031 ppm	25.5609 ppm
Concentration per Run 3	0.0098 ppm	59.7680 ppm	0.1097 ppm	0.0211 ppm	0.9873 ppm	0.0032 ppm	25.6413 ppm
Concentration RSD	1.0 %	0.5 %	0.5 %	4.3 %	0.3 %	1.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0235 ppm	0.0856 ppm	0.1899 ppm	**27.8123 ppm**	386.5330 ppm	4.1633 ppm	0.0797 ppm
Concentration per Run 1	0.0236 ppm	0.0860 ppm	0.1916 ppm	28.0855 ppm	385.9899 ppm	4.1746 ppm	0.0795 ppm
Concentration per Run 2	0.0234 ppm	0.0852 ppm	0.1893 ppm	27.7253 ppm	386.4953 ppm	4.1393 ppm	0.0806 ppm
Concentration per Run 3	0.0235 ppm	0.0856 ppm	0.1887 ppm	27.6260 ppm	387.1138 ppm	4.1761 ppm	0.0789 ppm
Concentration RSD	0.5 %	0.4 %	0.8 %	0.9 %	0.1 %	0.5 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.8942 ppm	4.5551 ppm	0.0080 ppm	0.8738 ppm	0.3483 ppm	8.0216 ppm	0.0719 ppm
Concentration per Run 1	21.0643 ppm	4.5521 ppm	0.0077 ppm	0.8746 ppm	0.3514 ppm	8.0651 ppm	0.0714 ppm
Concentration per Run 2	20.8438 ppm	4.5555 ppm	0.0078 ppm	0.8724 ppm	0.3472 ppm	8.0393 ppm	0.0757 ppm
Concentration per Run 3	20.7746 ppm	4.5576 ppm	0.0084 ppm	0.8743 ppm	0.3464 ppm	7.9603 ppm	0.0684 ppm
Concentration RSD	0.7 %	0.1 %	4.9 %	0.1 %	0.8 %	0.7 %	5.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	5.5401 ppm	**1.2905 ppm**	0.1915 ppm	2.5267 ppm	0.0010 ppm	0.2571 ppm
Concentration per Run 1	0.0053 ppm	5.6624 ppm	1.3045 ppm	0.1908 ppm	2.5450 ppm	0.0017 ppm	0.2589 ppm
Concentration per Run 2	0.0051 ppm	5.4714 ppm	1.2870 ppm	0.1925 ppm	2.5192 ppm	0.0003 ppm	0.2575 ppm
Concentration per Run 3	0.0052 ppm	5.4864 ppm	1.2799 ppm	0.1912 ppm	2.5160 ppm	0.0012 ppm	0.2550 ppm
Concentration RSD	1.6 %	1.9 %	1.0 %	0.4 %	0.6 %	71.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	9.7694 ppm	102.8569 %	109.7756 %	92.1989 %	109.2699 %	120.1314 %	111.0240 %
Concentration per Run 1	9.8882 ppm	101.9558 %	110.4053 %	92.0743 %	108.6649 %	121.2493 %	111.3097 %
Concentration per Run 2	9.7458 ppm	103.0470 %	109.4125 %	92.1024 %	109.6715 %	119.3133 %	110.8299 %
Concentration per Run 3	9.6743 ppm	103.5679 %	109.5090 %	92.4199 %	109.4734 %	119.8317 %	110.9324 %
Concentration RSD	1.1 %	0.8 %	0.5 %	0.2 %	0.5 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2433004-01d2 WG1933988
Analysis started at: 6/14/2024 6:24:13 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	49.6629 ppm	0.1080 ppm	0.0216 ppm	0.5426 ppm	0.0049 ppm	88.2821 ppm
Concentration per Run 1	0.0009 ppm	50.0889 ppm	0.1104 ppm	0.0218 ppm	0.5427 ppm	0.0047 ppm	88.3986 ppm
Concentration per Run 2	0.0013 ppm	49.3214 ppm	0.1061 ppm	0.0216 ppm	0.5418 ppm	0.0050 ppm	88.1997 ppm
Concentration per Run 3	0.0008 ppm	49.5785 ppm	0.1073 ppm	0.0214 ppm	0.5433 ppm	0.0050 ppm	88.2480 ppm
Concentration RSD	27.1 %	0.8 %	2.0 %	0.8 %	0.1 %	2.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0634 ppm	0.2024 ppm	0.4228 ppm	288.8125 ppm	6.3684 ppm	0.0625 ppm
Concentration per Run 1	0.0034 ppm	0.0638 ppm	0.2065 ppm	0.4281 ppm	289.5568 ppm	6.5427 ppm	0.0654 ppm
Concentration per Run 2	0.0032 ppm	0.0637 ppm	0.2014 ppm	0.4236 ppm	288.4557 ppm	6.2818 ppm	0.0607 ppm
Concentration per Run 3	0.0033 ppm	0.0627 ppm	0.1994 ppm	0.4168 ppm	288.4250 ppm	6.2809 ppm	0.0614 ppm
Concentration RSD	2.0 %	0.9 %	1.8 %	1.3 %	0.2 %	2.4 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.5011 ppm	3.5666 ppm	0.0090 ppm	1.8991 ppm	0.1869 ppm	1.0868 ppm	0.0155 ppm
Concentration per Run 1	28.9266 ppm	3.5835 ppm	0.0095 ppm	1.8793 ppm	0.1887 ppm	1.0925 ppm	0.0169 ppm
Concentration per Run 2	28.4159 ppm	3.5545 ppm	0.0090 ppm	1.9119 ppm	0.1871 ppm	1.0923 ppm	0.0152 ppm
Concentration per Run 3	28.1608 ppm	3.5619 ppm	0.0085 ppm	1.9062 ppm	0.1848 ppm	1.0756 ppm	0.0144 ppm
Concentration RSD	1.4 %	0.4 %	5.9 %	0.9 %	1.1 %	0.9 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	8.7767 ppm	0.0448 ppm	0.3329 ppm	3.5689 ppm	0.0051 ppm	0.6993 ppm
Concentration per Run 1	-0.0001 ppm	9.0180 ppm	0.0452 ppm	0.3305 ppm	3.6215 ppm	0.0039 ppm	0.7051 ppm
Concentration per Run 2	0.0021 ppm	8.6923 ppm	0.0449 ppm	0.3360 ppm	3.5672 ppm	0.0067 ppm	0.6999 ppm
Concentration per Run 3	-0.0021 ppm	8.6197 ppm	0.0443 ppm	0.3322 ppm	3.5180 ppm	0.0049 ppm	0.6930 ppm
Concentration RSD	10,929.9 %	2.4 %	1.0 %	0.8 %	1.5 %	27.2 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9071 ppm	100.2597 %	107.1500 %	89.6092 %	131.8671 %	146.2216 %	137.4366 %
Concentration per Run 1	0.9211 ppm	98.6237 %	106.7405 %	89.6167 %	130.8933 %	145.4364 %	136.9848 %
Concentration per Run 2	0.9057 ppm	101.0174 %	107.9051 %	89.0425 %	133.0118 %	147.3356 %	136.6388 %
Concentration per Run 3	0.8946 ppm	101.1379 %	106.8044 %	90.1683 %	131.6964 %	145.8928 %	138.6861 %
Concentration RSD	1.5 %	1.4 %	0.6 %	0.6 %	0.8 %	0.7 %	0.8 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2433004-02d2 WG1933988
Analysis started at: 6/14/2024 6:28:12 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	47.7876 ppm	0.1088 ppm	0.0301 ppm	0.6080 ppm	0.0055 ppm	117.5620 ppm
Concentration per Run 1	0.0011 ppm	48.0400 ppm	0.1122 ppm	0.0311 ppm	0.6090 ppm	0.0055 ppm	117.9602 ppm
Concentration per Run 2	0.0011 ppm	47.3315 ppm	0.1066 ppm	0.0291 ppm	0.6037 ppm	0.0057 ppm	117.6062 ppm
Concentration per Run 3	0.0014 ppm	47.9913 ppm	0.1075 ppm	0.0303 ppm	0.6114 ppm	0.0055 ppm	117.1196 ppm
Concentration RSD	14.1 %	0.8 %	2.7 %	3.3 %	0.6 %	1.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0038 ppm	0.0704 ppm	0.1883 ppm	0.5929 ppm	336.6772 ppm	7.1496 ppm	0.0620 ppm
Concentration per Run 1	0.0038 ppm	0.0712 ppm	0.1895 ppm	0.5987 ppm	338.6464 ppm	7.3613 ppm	0.0648 ppm
Concentration per Run 2	0.0038 ppm	0.0703 ppm	0.1888 ppm	0.5915 ppm	334.7540 ppm	6.9818 ppm	0.0598 ppm
Concentration per Run 3	0.0038 ppm	0.0696 ppm	0.1865 ppm	0.5884 ppm	336.6312 ppm	7.1058 ppm	0.0613 ppm
Concentration RSD	0.4 %	1.1 %	0.8 %	0.9 %	0.6 %	2.7 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.5437 ppm	3.7539 ppm	0.0169 ppm	2.4575 ppm	0.2491 ppm	1.3174 ppm	0.0150 ppm
Concentration per Run 1	26.8198 ppm	3.7738 ppm	0.0170 ppm	2.4520 ppm	0.2517 ppm	1.3394 ppm	0.0162 ppm
Concentration per Run 2	26.5162 ppm	3.7275 ppm	0.0168 ppm	2.4784 ppm	0.2482 ppm	1.3047 ppm	0.0165 ppm
Concentration per Run 3	26.2952 ppm	3.7604 ppm	0.0170 ppm	2.4421 ppm	0.2474 ppm	1.3082 ppm	0.0125 ppm
Concentration RSD	1.0 %	0.6 %	0.7 %	0.8 %	0.9 %	1.5 %	14.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	12.5611 ppm	0.0623 ppm	0.3479 ppm	3.7840 ppm	0.0061 ppm	0.7740 ppm
Concentration per Run 1	-0.0018 ppm	12.7021 ppm	0.0634 ppm	0.3458 ppm	3.8181 ppm	0.0080 ppm	0.7789 ppm
Concentration per Run 2	0.0004 ppm	12.5471 ppm	0.0616 ppm	0.3481 ppm	3.7763 ppm	0.0064 ppm	0.7754 ppm
Concentration per Run 3	0.0017 ppm	12.4341 ppm	0.0619 ppm	0.3498 ppm	3.7576 ppm	0.0039 ppm	0.7677 ppm
Concentration RSD	1,471.7 %	1.1 %	1.6 %	0.6 %	0.8 %	33.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3596 ppm	100.8060 %	107.9904 %	88.1592 %	140.7524 %	158.1547 %	146.3911 %
Concentration per Run 1	1.3715 ppm	99.5412 %	108.1618 %	87.2834 %	139.8095 %	158.6383 %	145.2259 %
Concentration per Run 2	1.3594 ppm	100.9394 %	107.6935 %	88.6747 %	140.9618 %	158.1371 %	146.7257 %
Concentration per Run 3	1.3480 ppm	101.9375 %	108.1159 %	88.5194 %	141.4861 %	157.6887 %	147.2218 %
Concentration RSD	0.9 %	1.2 %	0.2 %	0.9 %	0.6 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ 1511 JTS
Analysis started at: 6/14/2024 6:32:11 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0073 ppm	0.1001 ppm	0.0070 ppm	0.0299 ppm	0.0103 ppm	0.0049 ppm	0.1005 ppm
Concentration per Run 1	0.0075 ppm	0.1015 ppm	0.0060 ppm	0.0310 ppm	0.0103 ppm	0.0049 ppm	0.1000 ppm
Concentration per Run 2	0.0072 ppm	0.1002 ppm	0.0078 ppm	0.0297 ppm	0.0103 ppm	0.0050 ppm	0.1001 ppm
Concentration per Run 3	0.0072 ppm	0.0986 ppm	0.0072 ppm	0.0291 ppm	0.0102 ppm	0.0048 ppm	0.1013 ppm
Concentration RSD	1.8 %	1.4 %	12.8 %	3.1 %	0.6 %	1.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0211 ppm	0.0099 ppm	0.0115 ppm	0.0680 ppm	2.6882 ppm	0.0093 ppm
Concentration per Run 1	0.0041 ppm	0.0215 ppm	0.0103 ppm	0.0118 ppm	0.0708 ppm	2.7174 ppm	0.0114 ppm
Concentration per Run 2	0.0040 ppm	0.0209 ppm	0.0099 ppm	0.0116 ppm	0.0666 ppm	2.6746 ppm	0.0059 ppm
Concentration per Run 3	0.0039 ppm	0.0210 ppm	0.0095 ppm	0.0112 ppm	0.0665 ppm	2.6728 ppm	0.0105 ppm
Concentration RSD	2.4 %	1.6 %	4.4 %	2.9 %	3.6 %	0.9 %	31.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1059 ppm	0.0106 ppm	0.0507 ppm	2.0480 ppm	0.0265 ppm	0.0099 ppm	0.0529 ppm
Concentration per Run 1	0.1071 ppm	0.0107 ppm	0.0509 ppm	2.0567 ppm	0.0270 ppm	0.0106 ppm	0.0529 ppm
Concentration per Run 2	0.1051 ppm	0.0105 ppm	0.0505 ppm	2.0444 ppm	0.0265 ppm	0.0098 ppm	0.0556 ppm
Concentration per Run 3	0.1055 ppm	0.0105 ppm	0.0505 ppm	2.0429 ppm	0.0261 ppm	0.0093 ppm	0.0501 ppm
Concentration RSD	1.0 %	1.5 %	0.4 %	0.4 %	1.7 %	6.9 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0090 ppm	0.5466 ppm	0.0517 ppm	0.0100 ppm	0.0515 ppm	0.0191 ppm	0.0099 ppm
Concentration per Run 1	0.0089 ppm	0.5656 ppm	0.0519 ppm	0.0102 ppm	0.0523 ppm	0.0189 ppm	0.0103 ppm
Concentration per Run 2	0.0092 ppm	0.5392 ppm	0.0513 ppm	0.0099 ppm	0.0513 ppm	0.0193 ppm	0.0099 ppm
Concentration per Run 3	0.0088 ppm	0.5351 ppm	0.0519 ppm	0.0100 ppm	0.0508 ppm	0.0190 ppm	0.0096 ppm
Concentration RSD	2.6 %	3.0 %	0.6 %	1.2 %	1.5 %	1.1 %	3.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	96.3522 %	102.6020 %	100.2239 %	95.9837 %	101.1380 %	99.0207 %
Concentration per Run 1	0.0053 ppm	94.4069 %	102.0063 %	99.7364 %	95.2577 %	101.0504 %	99.4030 %
Concentration per Run 2	0.0049 ppm	96.9244 %	102.9919 %	100.0797 %	96.5758 %	101.3433 %	98.7471 %
Concentration per Run 3	0.0049 ppm	97.7252 %	102.8078 %	100.8555 %	96.1175 %	101.0203 %	98.9121 %
Concentration RSD	4.6 %	1.8 %	0.5 %	0.6 %	0.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LDR 1805 CEY
Analysis started at: 6/14/2024 6:36:10 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	0.0442 ppm	20.9986 ppm	18.2747 ppm	18.5557 ppm	4.7726 ppm	0.0140 ppm
Concentration per Run 1	0.0014 ppm	0.0500 ppm	20.9615 ppm	18.5159 ppm	18.5542 ppm	4.7626 ppm	0.0155 ppm
Concentration per Run 2	0.0012 ppm	0.0427 ppm	21.0539 ppm	18.1588 ppm	18.5164 ppm	4.7752 ppm	0.0120 ppm
Concentration per Run 3	0.0010 ppm	0.0401 ppm	20.9804 ppm	18.1494 ppm	18.5964 ppm	4.7800 ppm	0.0146 ppm
Concentration RSD	17.6 %	11.6 %	0.2 %	1.1 %	0.2 %	0.2 %	13.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.6763 ppm	4.7173 ppm	-0.0002 ppm	17.9662 ppm	0.0093 ppm	495.3211 ppm	18.0601 ppm
Concentration per Run 1	4.7599 ppm	4.7954 ppm	-0.0002 ppm	18.2324 ppm	0.0082 ppm	493.2665 ppm	17.9988 ppm
Concentration per Run 2	4.6443 ppm	4.6873 ppm	-0.0003 ppm	17.8580 ppm	0.0101 ppm	496.5650 ppm	18.0430 ppm
Concentration per Run 3	4.6249 ppm	4.6692 ppm	-0.0002 ppm	17.8082 ppm	0.0096 ppm	496.1318 ppm	18.1385 ppm
Concentration RSD	1.6 %	1.4 %	37.1 %	1.3 %	10.7 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0037 ppm	0.0009 ppm	4.6349 ppm	437.4148 ppm	9.2511 ppm	52.6540 ppm	4.5366 ppm
Concentration per Run 1	-0.0031 ppm	0.0011 ppm	4.6180 ppm	437.8684 ppm	9.3812 ppm	52.5655 ppm	4.5193 ppm
Concentration per Run 2	-0.0038 ppm	0.0010 ppm	4.6112 ppm	438.0230 ppm	9.2129 ppm	52.6619 ppm	4.5285 ppm
Concentration per Run 3	-0.0041 ppm	0.0007 ppm	4.6753 ppm	436.3532 ppm	9.1592 ppm	52.7345 ppm	4.5619 ppm
Concentration RSD	13.4 %	21.0 %	0.8 %	0.2 %	1.3 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.0071 ppm	20.4167 ppm	10.0239 ppm	4.6673 ppm	0.0031 ppm	4.5353 ppm	-0.0020 ppm
Concentration per Run 1	4.9870 ppm	20.6576 ppm	10.1191 ppm	4.6559 ppm	0.0032 ppm	4.5266 ppm	-0.0024 ppm
Concentration per Run 2	5.0177 ppm	20.3154 ppm	9.9694 ppm	4.6655 ppm	0.0031 ppm	4.5472 ppm	-0.0019 ppm
Concentration per Run 3	5.0165 ppm	20.2771 ppm	9.9834 ppm	4.6803 ppm	0.0031 ppm	4.5321 ppm	-0.0016 ppm
Concentration RSD	0.3 %	1.0 %	0.8 %	0.3 %	1.2 %	0.2 %	19.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.8259 ppm	91.6648 %	101.9004 %	86.4675 %	82.9576 %	96.1385 %	85.8800 %
Concentration per Run 1	19.1310 ppm	89.7550 %	102.3315 %	86.7366 %	81.6961 %	96.7492 %	86.0138 %
Concentration per Run 2	18.7203 ppm	92.1611 %	101.3472 %	86.7593 %	83.2738 %	95.7554 %	86.2527 %
Concentration per Run 3	18.6265 ppm	93.0783 %	102.0225 %	85.9066 %	83.9027 %	95.9110 %	85.3735 %
Concentration RSD	1.4 %	1.9 %	0.5 %	0.6 %	1.4 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 6:44:36 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5000 ppm	0.4880 ppm	0.4653 ppm	0.4935 ppm	0.4948 ppm	0.4996 ppm	0.4851 ppm
Concentration per Run 1	0.5066 ppm	0.4826 ppm	0.4691 ppm	0.4994 ppm	0.4949 ppm	0.4998 ppm	0.4852 ppm
Concentration per Run 2	0.5002 ppm	0.4932 ppm	0.4627 ppm	0.4926 ppm	0.4970 ppm	0.5007 ppm	0.4826 ppm
Concentration per Run 3	0.4932 ppm	0.4883 ppm	0.4641 ppm	0.4887 ppm	0.4924 ppm	0.4983 ppm	0.4874 ppm
Recovery Percentage 1	99.995 %	97.609 %	93.060 %	98.708 %	98.954 %	99.924 %	97.012 %
Concentration RSD	1.3 %	1.1 %	0.7 %	1.1 %	0.5 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4928 ppm	0.5059 ppm	0.4870 ppm	0.4917 ppm	0.5151 ppm	5.1148 ppm	0.4844 ppm
Concentration per Run 1	0.4984 ppm	0.5130 ppm	0.4930 ppm	0.5000 ppm	0.5159 ppm	5.1354 ppm	0.4845 ppm
Concentration per Run 2	0.4937 ppm	0.5058 ppm	0.4887 ppm	0.4905 ppm	0.5172 ppm	5.1069 ppm	0.4877 ppm
Concentration per Run 3	0.4863 ppm	0.4989 ppm	0.4792 ppm	0.4846 ppm	0.5123 ppm	5.1023 ppm	0.4808 ppm
Recovery Percentage 1	98.563 %	101.178 %	97.394 %	98.338 %	103.025 %	102.297 %	96.874 %
Concentration RSD	1.2 %	1.4 %	1.4 %	1.6 %	0.5 %	0.4 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4921 ppm	0.4820 ppm	0.4928 ppm	9.7514 ppm	0.5088 ppm	0.4830 ppm	0.4968 ppm
Concentration per Run 1	0.4991 ppm	0.4822 ppm	0.4926 ppm	9.7634 ppm	0.5162 ppm	0.4847 ppm	0.4997 ppm
Concentration per Run 2	0.4947 ppm	0.4818 ppm	0.4934 ppm	9.7418 ppm	0.5102 ppm	0.4842 ppm	0.5008 ppm
Concentration per Run 3	0.4824 ppm	0.4819 ppm	0.4924 ppm	9.7489 ppm	0.4999 ppm	0.4800 ppm	0.4901 ppm
Recovery Percentage 1	98.410 %	96.394 %	98.564 %	97.514 %	101.751 %	96.591 %	99.368 %
Concentration RSD	1.8 %	0.0 %	0.1 %	0.1 %	1.6 %	0.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4724 ppm	5.1400 ppm	0.5098 ppm	0.4970 ppm	0.4985 ppm	0.4832 ppm	0.4893 ppm
Concentration per Run 1	0.4743 ppm	5.1926 ppm	0.5071 ppm	0.4977 ppm	0.5050 ppm	0.4852 ppm	0.4968 ppm
Concentration per Run 2	0.4701 ppm	5.1529 ppm	0.5101 ppm	0.4976 ppm	0.4995 ppm	0.4812 ppm	0.4884 ppm
Concentration per Run 3	0.4728 ppm	5.0747 ppm	0.5121 ppm	0.4956 ppm	0.4910 ppm	0.4832 ppm	0.4829 ppm
Recovery Percentage 1	94.479 %	97.906 %	101.957 %	99.396 %	99.699 %	96.642 %	97.869 %
Concentration RSD	0.4 %	1.2 %	0.5 %	0.2 %	1.4 %	0.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5010 ppm	99.4532 %	106.4193 %	101.8862 %	95.6510 %	101.0562 %	99.0304 %
Concentration per Run 1	0.5070 ppm	98.1095 %	106.7943 %	101.0828 %	95.5336 %	101.4705 %	98.8175 %
Concentration per Run 2	0.5026 ppm	99.4411 %	106.3530 %	102.1220 %	95.6347 %	100.8074 %	99.1303 %
Concentration per Run 3	0.4935 ppm	100.8090 %	106.1105 %	102.4537 %	95.7849 %	100.8907 %	99.1434 %
Recovery Percentage 1	100.203 %						
Concentration RSD	1.4 %	1.4 %	0.3 %	0.7 %	0.1 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 6:48:42 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0038 ppm	0.0006 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run 1	0.0000 ppm	-0.0039 ppm	0.0020 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	-0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	-0.0082 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Recovery Percentage 1	-0.542 %	-3.796 %	18.753 %	3.145 %	-0.101 %	1.048 %	4.733 %
Concentration RSD	550.4 %	116.5 %	219.8 %	87.5 %	1,066.1 %	21.2 %	55.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0009 ppm	0.0136 ppm	0.0339 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0013 ppm	0.0153 ppm	0.0296 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0008 ppm	0.0136 ppm	0.0408 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0119 ppm	0.0313 ppm	-0.0017 ppm
Recovery Percentage 1	0.331 %	2.022 %	-3.012 %	9.313 %	27.220 %	1.357 %	-8.317 %
Concentration RSD	219.5 %	112.3 %	38.2 %	30.9 %	12.5 %	17.9 %	91.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0027 ppm	-0.0081 ppm	0.0000 ppm	-0.0004 ppm	0.0032 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0026 ppm	-0.0030 ppm	-0.0006 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0027 ppm	-0.0122 ppm	0.0000 ppm	-0.0009 ppm	0.0051 ppm
Concentration per Run 3	-0.0007 ppm	0.0002 ppm	0.0029 ppm	-0.0091 ppm	0.0004 ppm	-0.0004 ppm	0.0032 ppm
Recovery Percentage 1	-0.190 %	1.320 %	5.497 %	-0.403 %	-0.163 %	-3.988 %	6.413 %
Concentration RSD	243.5 %	127.9 %	6.0 %	58.1 %	1,255.0 %	123.6 %	57.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.0025 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0109 ppm	0.0008 ppm	-0.0001 ppm	0.0003 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 2	-0.0006 ppm	-0.0034 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0026 ppm	-0.0002 ppm
Concentration per Run 3	0.0022 ppm	-0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0011 ppm	-0.0003 ppm
Recovery Percentage 1	5.704 %	0.491 %	1.028 %	0.034 %	2.779 %	-8.925 %	-2.025 %
Concentration RSD	258.9 %	305.5 %	74.1 %	3,714.8 %	76.6 %	42.5 %	67.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	94.4308 %	100.1237 %	97.7175 %	96.0401 %	100.0907 %	98.6879 %
Concentration per Run 1	0.0010 ppm	91.9081 %	100.0899 %	97.3164 %	95.2377 %	100.3361 %	98.8685 %
Concentration per Run 2	0.0012 ppm	95.1785 %	99.6847 %	97.6195 %	96.6132 %	99.8306 %	98.5138 %
Concentration per Run 3	0.0011 ppm	96.2058 %	100.5966 %	98.2166 %	96.2693 %	100.1056 %	98.6814 %
Recovery Percentage 1	22.554 %						
Concentration RSD	10.3 %	2.4 %	0.5 %	0.5 %	0.7 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934051-1 WG1934051
Analysis started at: 6/14/2024 6:58:08 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0071 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0197 ppm
Concentration per Run 1	-0.0006 ppm	0.0118 ppm	0.0008 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0219 ppm
Concentration per Run 2	0.0002 ppm	0.0034 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0182 ppm
Concentration per Run 3	-0.0001 ppm	0.0063 ppm	0.0022 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0191 ppm
Recovery Percentage 1	-2.118 %	7.136 %	31.100 %	0.976 %	3.355 %	-0.443 %	19.719 %
Concentration RSD	260.3 %	59.6 %	123.5 %	127.5 %	65.7 %	239.4 %	9.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0243 ppm	0.0208 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0251 ppm	0.0273 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0230 ppm	0.0134 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0249 ppm	0.0218 ppm	0.0007 ppm
Recovery Percentage 1	-1.270 %	0.281 %	4.961 %	0.845 %	48.657 %	0.834 %	12.029 %
Concentration RSD	62.8 %	557.7 %	8.6 %	58.6 %	4.7 %	33.4 %	67.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0035 ppm	0.0007 ppm	0.0010 ppm	-0.0090 ppm	0.0001 ppm	-0.0002 ppm	0.0030 ppm
Concentration per Run 1	0.0037 ppm	0.0008 ppm	0.0010 ppm	-0.0032 ppm	0.0004 ppm	-0.0002 ppm	0.0040 ppm
Concentration per Run 2	0.0050 ppm	0.0006 ppm	0.0010 ppm	-0.0105 ppm	-0.0001 ppm	-0.0003 ppm	0.0039 ppm
Concentration per Run 3	0.0019 ppm	0.0007 ppm	0.0009 ppm	-0.0133 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm
Recovery Percentage 1	3.544 %	7.266 %	1.964 %	-0.450 %	0.560 %	-1.807 %	6.096 %
Concentration RSD	44.8 %	17.5 %	7.2 %	58.4 %	192.6 %	78.4 %	50.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0047 ppm	0.0014 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0009 ppm	0.0115 ppm	0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	0.0028 ppm	0.0015 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	-0.0003 ppm	0.0017 ppm	0.0002 ppm	0.0005 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	2.585 %	0.933 %	2.701 %	1.587 %	5.854 %	0.264 %	-0.646 %
Concentration RSD	224.0 %	131.0 %	34.0 %	20.1 %	19.7 %	1,806.2 %	202.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	122.9374 %	108.1216 %	112.7065 %	97.9801 %	100.2599 %	100.4637 %
Concentration per Run 1	0.0022 ppm	126.2145 %	108.9656 %	114.4533 %	97.1910 %	100.6007 %	100.7482 %
Concentration per Run 2	0.0021 ppm	123.0817 %	108.0540 %	112.0913 %	98.3050 %	100.1253 %	100.1977 %
Concentration per Run 3	0.0021 ppm	119.5161 %	107.3453 %	111.5748 %	98.4442 %	100.0537 %	100.4454 %
Recovery Percentage 1	42.001 %						
Concentration RSD	2.4 %	2.7 %	0.8 %	1.4 %	0.7 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934051-2d2 WG1934051
Analysis started at: 6/14/2024 7:02:30 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0493 ppm	1.9514 ppm	0.1183 ppm	0.9698 ppm	1.9956 ppm	0.0502 ppm	10.1722 ppm
Concentration per Run 1	0.0498 ppm	1.9589 ppm	0.1201 ppm	0.9824 ppm	2.0053 ppm	0.0504 ppm	10.1714 ppm
Concentration per Run 2	0.0493 ppm	1.9458 ppm	0.1185 ppm	0.9683 ppm	1.9918 ppm	0.0500 ppm	10.1764 ppm
Concentration per Run 3	0.0488 ppm	1.9496 ppm	0.1163 ppm	0.9587 ppm	1.9898 ppm	0.0502 ppm	10.1688 ppm
Concentration RSD	1.0 %	0.3 %	1.6 %	1.2 %	0.4 %	0.4 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.4887 ppm	0.1934 ppm	0.2483 ppm	1.0323 ppm	10.4841 ppm	0.0030 ppm
Concentration per Run 1	0.0530 ppm	0.4948 ppm	0.1955 ppm	0.2519 ppm	1.0301 ppm	10.5027 ppm	0.0021 ppm
Concentration per Run 2	0.0519 ppm	0.4874 ppm	0.1938 ppm	0.2473 ppm	1.0367 ppm	10.4622 ppm	0.0033 ppm
Concentration per Run 3	0.0514 ppm	0.4838 ppm	0.1908 ppm	0.2458 ppm	1.0301 ppm	10.4873 ppm	0.0035 ppm
Concentration RSD	1.6 %	1.1 %	1.2 %	1.3 %	0.4 %	0.2 %	25.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9086 ppm	0.4980 ppm	1.0104 ppm	10.2232 ppm	0.4956 ppm	0.5373 ppm	0.4975 ppm
Concentration per Run 1	10.0469 ppm	0.4997 ppm	1.0142 ppm	10.2241 ppm	0.5026 ppm	0.5392 ppm	0.5025 ppm
Concentration per Run 2	9.8747 ppm	0.4978 ppm	1.0087 ppm	10.2372 ppm	0.4942 ppm	0.5388 ppm	0.4959 ppm
Concentration per Run 3	9.8042 ppm	0.4966 ppm	1.0081 ppm	10.2081 ppm	0.4901 ppm	0.5340 ppm	0.4942 ppm
Concentration RSD	1.3 %	0.3 %	0.3 %	0.1 %	1.3 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1180 ppm	0.9831 ppm	1.0092 ppm	0.9983 ppm	1.0136 ppm	0.1180 ppm	0.4944 ppm
Concentration per Run 1	0.1180 ppm	1.0274 ppm	1.0107 ppm	0.9993 ppm	1.0262 ppm	0.1186 ppm	0.4997 ppm
Concentration per Run 2	0.1197 ppm	0.9698 ppm	1.0109 ppm	0.9940 ppm	1.0132 ppm	0.1174 ppm	0.4955 ppm
Concentration per Run 3	0.1161 ppm	0.9522 ppm	1.0060 ppm	1.0016 ppm	1.0015 ppm	0.1181 ppm	0.4880 ppm
Concentration RSD	1.5 %	4.0 %	0.3 %	0.4 %	1.2 %	0.5 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4920 ppm	99.3456 %	102.7881 %	97.9063 %	94.0755 %	98.8542 %	97.0053 %
Concentration per Run 1	0.4997 ppm	97.5042 %	103.0397 %	97.7709 %	93.4503 %	99.3013 %	97.5533 %
Concentration per Run 2	0.4910 ppm	99.8388 %	103.1555 %	97.9822 %	94.4011 %	99.1963 %	96.8528 %
Concentration per Run 3	0.4852 ppm	100.6939 %	102.1691 %	97.9659 %	94.3751 %	98.0650 %	96.6098 %
Concentration RSD	1.5 %	1.7 %	0.5 %	0.1 %	0.6 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430310-04d2 WG1934051
Analysis started at: 6/14/2024 7:06:30 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	41.5821 ppm	0.2155 ppm	0.0273 ppm	0.2429 ppm	0.0026 ppm	14.1594 ppm
Concentration per Run 1	-0.0004 ppm	41.6447 ppm	0.2151 ppm	0.0277 ppm	0.2435 ppm	0.0025 ppm	14.1196 ppm
Concentration per Run 2	-0.0001 ppm	41.8117 ppm	0.2166 ppm	0.0270 ppm	0.2412 ppm	0.0026 ppm	14.1914 ppm
Concentration per Run 3	-0.0008 ppm	41.2898 ppm	0.2147 ppm	0.0272 ppm	0.2440 ppm	0.0028 ppm	14.1670 ppm
Concentration RSD	76.9 %	0.6 %	0.5 %	1.4 %	0.6 %	5.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0122 ppm	0.1775 ppm	0.0819 ppm	246.4343 ppm	11.0629 ppm	0.0532 ppm
Concentration per Run 1	0.0008 ppm	0.0125 ppm	0.1794 ppm	0.0833 ppm	247.1783 ppm	11.2976 ppm	0.0558 ppm
Concentration per Run 2	0.0009 ppm	0.0122 ppm	0.1772 ppm	0.0821 ppm	246.8927 ppm	11.1819 ppm	0.0545 ppm
Concentration per Run 3	0.0007 ppm	0.0120 ppm	0.1757 ppm	0.0804 ppm	245.2320 ppm	10.7093 ppm	0.0494 ppm
Concentration RSD	12.7 %	2.0 %	1.1 %	1.8 %	0.4 %	2.8 %	6.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.4621 ppm	0.5048 ppm	0.0047 ppm	0.6111 ppm	0.0279 ppm	0.1051 ppm	0.0071 ppm
Concentration per Run 1	8.5509 ppm	0.5062 ppm	0.0046 ppm	0.6086 ppm	0.0282 ppm	0.1055 ppm	0.0082 ppm
Concentration per Run 2	8.4445 ppm	0.5052 ppm	0.0052 ppm	0.6000 ppm	0.0282 ppm	0.1047 ppm	0.0055 ppm
Concentration per Run 3	8.3910 ppm	0.5032 ppm	0.0044 ppm	0.6246 ppm	0.0272 ppm	0.1052 ppm	0.0076 ppm
Concentration RSD	1.0 %	0.3 %	9.7 %	2.0 %	2.1 %	0.4 %	20.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	5.6593 ppm	0.0071 ppm	0.1149 ppm	1.2291 ppm	0.0017 ppm	0.5596 ppm
Concentration per Run 1	0.0031 ppm	5.7584 ppm	0.0068 ppm	0.1145 ppm	1.2409 ppm	0.0005 ppm	0.5665 ppm
Concentration per Run 2	0.0019 ppm	5.6330 ppm	0.0076 ppm	0.1140 ppm	1.2302 ppm	0.0031 ppm	0.5565 ppm
Concentration per Run 3	0.0035 ppm	5.5865 ppm	0.0068 ppm	0.1160 ppm	1.2161 ppm	0.0014 ppm	0.5557 ppm
Concentration RSD	29.1 %	1.6 %	7.0 %	0.9 %	1.0 %	77.6 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2135 ppm	106.6401 %	112.3526 %	100.7367 %	102.4184 %	111.5673 %	107.6602 %
Concentration per Run 1	0.2152 ppm	105.5519 %	113.0980 %	100.7213 %	102.1580 %	112.0756 %	107.9267 %
Concentration per Run 2	0.2143 ppm	106.7640 %	112.4610 %	100.8026 %	102.2260 %	111.6126 %	107.8002 %
Concentration per Run 3	0.2110 ppm	107.6043 %	111.4988 %	100.6862 %	102.8714 %	111.0137 %	107.2538 %
Concentration RSD	1.0 %	1.0 %	0.7 %	0.1 %	0.4 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: eL2430310-05d2 WG1934051
Analysis started at: 6/14/2024 7:10:29 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0073 ppm	33.0220 ppm	0.0479 ppm	0.0533 ppm	2.0774 ppm	0.0034 ppm	340.7655 ppm
Concentration per Run 1	0.0076 ppm	33.0453 ppm	0.0494 ppm	0.0523 ppm	2.0909 ppm	0.0034 ppm	341.2292 ppm
Concentration per Run 2	0.0074 ppm	33.1454 ppm	0.0468 ppm	0.0556 ppm	2.0724 ppm	0.0034 ppm	340.4422 ppm
Concentration per Run 3	0.0069 ppm	32.8751 ppm	0.0474 ppm	0.0521 ppm	2.0687 ppm	0.0034 ppm	340.6250 ppm
Concentration RSD	5.3 %	0.4 %	2.8 %	3.6 %	0.6 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0067 ppm	0.0283 ppm	0.1059 ppm	**47.7265 ppm**	171.9647 ppm	4.1159 ppm	0.0554 ppm
Concentration per Run 1	0.0069 ppm	0.0292 ppm	0.1082 ppm	48.4835 ppm	173.0408 ppm	4.1731 ppm	0.0579 ppm
Concentration per Run 2	0.0068 ppm	0.0280 ppm	0.1054 ppm	47.5256 ppm	171.3733 ppm	4.1198 ppm	0.0548 ppm
Concentration per Run 3	0.0064 ppm	0.0279 ppm	0.1042 ppm	47.1704 ppm	171.4801 ppm	4.0547 ppm	0.0533 ppm
Concentration RSD	3.6 %	2.5 %	1.9 %	1.4 %	0.5 %	1.4 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.0659 ppm	2.1313 ppm	0.0130 ppm	1.7390 ppm	0.1037 ppm	3.3926 ppm	0.0210 ppm
Concentration per Run 1	86.3811 ppm	2.1390 ppm	0.0134 ppm	1.7398 ppm	0.1060 ppm	3.3933 ppm	0.0208 ppm
Concentration per Run 2	85.0271 ppm	2.1285 ppm	0.0131 ppm	1.7325 ppm	0.1035 ppm	3.3823 ppm	0.0177 ppm
Concentration per Run 3	83.7893 ppm	2.1265 ppm	0.0127 ppm	1.7447 ppm	0.1015 ppm	3.4022 ppm	0.0244 ppm
Concentration RSD	1.5 %	0.3 %	2.9 %	0.4 %	2.2 %	0.3 %	16.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	10.3481 ppm	0.0419 ppm	1.3048 ppm	2.0920 ppm	-0.0003 ppm	0.1194 ppm
Concentration per Run 1	0.0011 ppm	10.5862 ppm	0.0428 ppm	1.3102 ppm	2.1209 ppm	-0.0007 ppm	0.1209 ppm
Concentration per Run 2	-0.0007 ppm	10.3325 ppm	0.0420 ppm	1.2993 ppm	2.0888 ppm	-0.0013 ppm	0.1195 ppm
Concentration per Run 3	-0.0026 ppm	10.1255 ppm	0.0410 ppm	1.3050 ppm	2.0664 ppm	0.0010 ppm	0.1177 ppm
Concentration RSD	262.1 %	2.2 %	2.1 %	0.4 %	1.3 %	346.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	16.5573 ppm	95.8825 %	105.4924 %	86.4824 %	111.4766 %	126.2471 %	111.0532 %
Concentration per Run 1	16.7841 ppm	94.4726 %	105.7984 %	86.2224 %	110.7719 %	126.7235 %	111.1417 %
Concentration per Run 2	16.6139 ppm	95.8911 %	104.9966 %	86.5161 %	111.5099 %	125.1362 %	110.8689 %
Concentration per Run 3	16.2740 ppm	97.2838 %	105.6824 %	86.7086 %	112.1479 %	126.8815 %	111.1491 %
Concentration RSD	1.6 %	1.5 %	0.4 %	0.3 %	0.6 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430310-16d2 WG1934051
Analysis started at: 6/14/2024 7:14:29 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	45.9557 ppm	0.2313 ppm	0.0359 ppm	0.2990 ppm	0.0028 ppm	12.6387 ppm
Concentration per Run 1	0.0001 ppm	46.0511 ppm	0.2316 ppm	0.0356 ppm	0.3004 ppm	0.0028 ppm	12.6857 ppm
Concentration per Run 2	0.0005 ppm	46.2423 ppm	0.2314 ppm	0.0364 ppm	0.2998 ppm	0.0028 ppm	12.6558 ppm
Concentration per Run 3	0.0000 ppm	45.5738 ppm	0.2310 ppm	0.0356 ppm	0.2970 ppm	0.0029 ppm	12.5745 ppm
Concentration RSD	129.2 %	0.7 %	0.1 %	1.3 %	0.6 %	1.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0101 ppm	0.2220 ppm	0.1081 ppm	239.0023 ppm	14.2965 ppm	0.0573 ppm
Concentration per Run 1	0.0021 ppm	0.0103 ppm	0.2249 ppm	0.1105 ppm	240.1561 ppm	14.5932 ppm	0.0593 ppm
Concentration per Run 2	0.0021 ppm	0.0099 ppm	0.2214 ppm	0.1078 ppm	239.8193 ppm	14.5266 ppm	0.0591 ppm
Concentration per Run 3	0.0021 ppm	0.0101 ppm	0.2196 ppm	0.1061 ppm	237.0316 ppm	13.7696 ppm	0.0535 ppm
Concentration RSD	0.9 %	2.2 %	1.2 %	2.0 %	0.7 %	3.2 %	5.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2627 ppm	0.3894 ppm	0.0081 ppm	0.5788 ppm	0.0315 ppm	0.3839 ppm	0.0060 ppm
Concentration per Run 1	11.4274 ppm	0.3913 ppm	0.0081 ppm	0.5732 ppm	0.0308 ppm	0.3856 ppm	0.0044 ppm
Concentration per Run 2	11.2386 ppm	0.3895 ppm	0.0085 ppm	0.5798 ppm	0.0316 ppm	0.3847 ppm	0.0081 ppm
Concentration per Run 3	11.1220 ppm	0.3873 ppm	0.0075 ppm	0.5833 ppm	0.0320 ppm	0.3815 ppm	0.0055 ppm
Concentration RSD	1.4 %	0.5 %	6.1 %	0.9 %	2.0 %	0.6 %	31.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	3.9361 ppm	0.0116 ppm	0.1189 ppm	1.2549 ppm	0.0026 ppm	0.7092 ppm
Concentration per Run 1	0.0022 ppm	4.0285 ppm	0.0127 ppm	0.1187 ppm	1.2790 ppm	0.0004 ppm	0.7171 ppm
Concentration per Run 2	0.0022 ppm	3.8979 ppm	0.0112 ppm	0.1185 ppm	1.2452 ppm	0.0040 ppm	0.7080 ppm
Concentration per Run 3	0.0064 ppm	3.8819 ppm	0.0110 ppm	0.1196 ppm	1.2404 ppm	0.0035 ppm	0.7025 ppm
Concentration RSD	67.9 %	2.0 %	8.0 %	0.5 %	1.7 %	75.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3921 ppm	106.4698 %	112.7726 %	100.2745 %	102.3530 %	111.6654 %	107.0750 %
Concentration per Run 1	0.3991 ppm	104.5322 %	113.3075 %	100.2867 %	101.3652 %	112.3563 %	107.1474 %
Concentration per Run 2	0.3907 ppm	106.9524 %	112.2725 %	100.2089 %	102.9986 %	110.9572 %	107.2172 %
Concentration per Run 3	0.3864 ppm	107.9249 %	112.7377 %	100.3277 %	102.6952 %	111.6826 %	106.8605 %
Concentration RSD	1.7 %	1.6 %	0.5 %	0.1 %	0.8 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432281-01d2 WG1934051
Analysis started at: 6/14/2024 7:18:28 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	144.5591 ppm	0.0559 ppm	0.0135 ppm	0.6490 ppm	0.0072 ppm	6.1281 ppm
Concentration per Run 1	0.0000 ppm	144.7778 ppm	0.0557 ppm	0.0122 ppm	0.6504 ppm	0.0072 ppm	6.1407 ppm
Concentration per Run 2	-0.0003 ppm	144.6680 ppm	0.0560 ppm	0.0149 ppm	0.6444 ppm	0.0073 ppm	6.1153 ppm
Concentration per Run 3	-0.0006 ppm	144.2314 ppm	0.0559 ppm	0.0134 ppm	0.6521 ppm	0.0072 ppm	6.1282 ppm
Concentration RSD	90.5 %	0.2 %	0.2 %	9.9 %	0.6 %	1.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.2173 ppm	0.3571 ppm	0.2609 ppm	282.9176 ppm	1.9602 ppm	0.0314 ppm
Concentration per Run 1	0.0008 ppm	0.2206 ppm	0.3599 ppm	0.2646 ppm	283.3021 ppm	2.0024 ppm	0.0318 ppm
Concentration per Run 2	0.0008 ppm	0.2165 ppm	0.3574 ppm	0.2604 ppm	282.1784 ppm	1.9321 ppm	0.0316 ppm
Concentration per Run 3	0.0008 ppm	0.2149 ppm	0.3540 ppm	0.2576 ppm	283.2723 ppm	1.9460 ppm	0.0309 ppm
Concentration RSD	4.5 %	1.4 %	0.8 %	1.3 %	0.2 %	1.9 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.6895 ppm	5.4111 ppm	0.0057 ppm	3.8738 ppm	0.2500 ppm	0.1634 ppm	0.0063 ppm
Concentration per Run 1	6.7798 ppm	5.4273 ppm	0.0061 ppm	3.8724 ppm	0.2534 ppm	0.1642 ppm	0.0047 ppm
Concentration per Run 2	6.6665 ppm	5.3962 ppm	0.0054 ppm	3.8738 ppm	0.2485 ppm	0.1632 ppm	0.0063 ppm
Concentration per Run 3	6.6221 ppm	5.4098 ppm	0.0055 ppm	3.8751 ppm	0.2480 ppm	0.1629 ppm	0.0080 ppm
Concentration RSD	1.2 %	0.3 %	7.1 %	0.0 %	1.2 %	0.4 %	26.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	2.6544 ppm	0.0090 ppm	0.0788 ppm	4.2451 ppm	0.0046 ppm	0.4877 ppm
Concentration per Run 1	0.0009 ppm	2.6765 ppm	0.0083 ppm	0.0786 ppm	4.2914 ppm	0.0045 ppm	0.4917 ppm
Concentration per Run 2	-0.0012 ppm	2.6525 ppm	0.0087 ppm	0.0788 ppm	4.2365 ppm	0.0053 ppm	0.4867 ppm
Concentration per Run 3	-0.0016 ppm	2.6340 ppm	0.0100 ppm	0.0790 ppm	4.2075 ppm	0.0040 ppm	0.4848 ppm
Concentration RSD	220.8 %	0.8 %	9.7 %	0.2 %	1.0 %	14.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2203 ppm	123.4987 %	130.9903 %	110.7978 %	132.7285 %	147.0135 %	140.1298 %
Concentration per Run 1	0.2238 ppm	121.7309 %	130.8426 %	110.9090 %	131.8883 %	147.0315 %	140.5291 %
Concentration per Run 2	0.2197 ppm	124.0082 %	131.6212 %	110.7951 %	133.3930 %	147.3251 %	139.7385 %
Concentration per Run 3	0.2173 ppm	124.7570 %	130.5072 %	110.6893 %	132.9041 %	146.6841 %	140.1217 %
Concentration RSD	1.5 %	1.3 %	0.4 %	0.1 %	0.6 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934051-3d2 WG1934051
Analysis started at: 6/14/2024 7:22:28 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0380 ppm	149.7620 ppm	0.1662 ppm	0.5993 ppm	2.0199 ppm	0.0481 ppm	12.1020 ppm
Concentration per Run 1	0.0385 ppm	149.7076 ppm	0.1678 ppm	0.6011 ppm	2.0102 ppm	0.0480 ppm	12.0721 ppm
Concentration per Run 2	0.0380 ppm	149.8719 ppm	0.1660 ppm	0.5992 ppm	2.0262 ppm	0.0479 ppm	12.1151 ppm
Concentration per Run 3	0.0376 ppm	149.7065 ppm	0.1647 ppm	0.5978 ppm	2.0232 ppm	0.0483 ppm	12.1187 ppm
Concentration RSD	1.1 %	0.1 %	0.9 %	0.3 %	0.4 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0395 ppm	0.4853 ppm	0.4750 ppm	0.5094 ppm	283.8532 ppm	10.0603 ppm	0.0427 ppm
Concentration per Run 1	0.0397 ppm	0.4867 ppm	0.4772 ppm	0.5136 ppm	283.2961 ppm	10.0924 ppm	0.0436 ppm
Concentration per Run 2	0.0394 ppm	0.4848 ppm	0.4756 ppm	0.5069 ppm	283.3433 ppm	9.9618 ppm	0.0426 ppm
Concentration per Run 3	0.0393 ppm	0.4844 ppm	0.4723 ppm	0.5078 ppm	284.9203 ppm	10.1266 ppm	0.0419 ppm
Concentration RSD	0.5 %	0.3 %	0.5 %	0.7 %	0.3 %	0.9 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.2514 ppm	4.4725 ppm	0.7113 ppm	11.8085 ppm	0.4961 ppm	0.5850 ppm	0.3142 ppm
Concentration per Run 1	16.3296 ppm	4.4680 ppm	0.7038 ppm	11.8036 ppm	0.4963 ppm	0.5910 ppm	0.3086 ppm
Concentration per Run 2	16.2202 ppm	4.4724 ppm	0.7115 ppm	11.8057 ppm	0.4958 ppm	0.5838 ppm	0.3180 ppm
Concentration per Run 3	16.2044 ppm	4.4772 ppm	0.7187 ppm	11.8161 ppm	0.4962 ppm	0.5803 ppm	0.3161 ppm
Concentration RSD	0.4 %	0.1 %	1.0 %	0.1 %	0.1 %	0.9 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0815 ppm	3.1883 ppm	0.5964 ppm	0.8467 ppm	4.0294 ppm	0.1045 ppm	0.8568 ppm
Concentration per Run 1	0.0823 ppm	3.2079 ppm	0.5922 ppm	0.8493 ppm	4.0460 ppm	0.1052 ppm	0.8567 ppm
Concentration per Run 2	0.0840 ppm	3.1872 ppm	0.5991 ppm	0.8418 ppm	4.0228 ppm	0.1048 ppm	0.8570 ppm
Concentration per Run 3	0.0783 ppm	3.1699 ppm	0.5979 ppm	0.8489 ppm	4.0196 ppm	0.1034 ppm	0.8566 ppm
Concentration RSD	3.6 %	0.6 %	0.6 %	0.5 %	0.4 %	0.9 %	0.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6267 ppm	121.6409 %	129.3686 %	108.0421 %	142.3842 %	160.4727 %	150.4634 %
Concentration per Run 1	0.6265 ppm	120.6620 %	129.6666 %	107.1974 %	141.7478 %	160.7362 %	149.3849 %
Concentration per Run 2	0.6265 ppm	121.9871 %	128.1374 %	108.3323 %	142.7711 %	158.7390 %	151.0795 %
Concentration per Run 3	0.6272 ppm	122.2736 %	130.3016 %	108.5965 %	142.6336 %	161.9428 %	150.9259 %
Concentration RSD	0.1 %	0.7 %	0.9 %	0.7 %	0.4 %	1.0 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934051-4d2 WG1934051
Analysis started at: 6/14/2024 7:26:27 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	148.0014 ppm	0.0652 ppm	0.0144 ppm	0.5878 ppm	0.0076 ppm	7.5735 ppm
Concentration per Run 1	-0.0005 ppm	148.2507 ppm	0.0642 ppm	0.0146 ppm	0.5904 ppm	0.0074 ppm	7.5699 ppm
Concentration per Run 2	0.0001 ppm	148.3290 ppm	0.0661 ppm	0.0145 ppm	0.5867 ppm	0.0075 ppm	7.5570 ppm
Concentration per Run 3	-0.0004 ppm	147.4245 ppm	0.0653 ppm	0.0142 ppm	0.5864 ppm	0.0077 ppm	7.5936 ppm
Concentration RSD	126.1 %	0.3 %	1.5 %	1.5 %	0.4 %	1.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.1604 ppm	0.3666 ppm	0.2448 ppm	294.5298 ppm	2.2609 ppm	0.0359 ppm
Concentration per Run 1	0.0009 ppm	0.1611 ppm	0.3683 ppm	0.2461 ppm	294.3685 ppm	2.2618 ppm	0.0372 ppm
Concentration per Run 2	0.0011 ppm	0.1600 ppm	0.3670 ppm	0.2438 ppm	292.9335 ppm	2.2459 ppm	0.0345 ppm
Concentration per Run 3	0.0006 ppm	0.1602 ppm	0.3645 ppm	0.2444 ppm	296.2874 ppm	2.2751 ppm	0.0359 ppm
Concentration RSD	27.7 %	0.4 %	0.5 %	0.5 %	0.6 %	0.6 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.0193 ppm	4.2885 ppm	0.0125 ppm	3.9112 ppm	0.1774 ppm	0.1492 ppm	0.0061 ppm
Concentration per Run 1	8.0492 ppm	4.2878 ppm	0.0119 ppm	3.9085 ppm	0.1782 ppm	0.1504 ppm	0.0067 ppm
Concentration per Run 2	8.0185 ppm	4.2809 ppm	0.0132 ppm	3.8954 ppm	0.1777 ppm	0.1497 ppm	0.0046 ppm
Concentration per Run 3	7.9902 ppm	4.2968 ppm	0.0125 ppm	3.9298 ppm	0.1764 ppm	0.1475 ppm	0.0069 ppm
Concentration RSD	0.4 %	0.2 %	5.4 %	0.4 %	0.5 %	1.0 %	20.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	2.3690 ppm	0.0092 ppm	0.0894 ppm	3.9745 ppm	0.0052 ppm	0.5214 ppm
Concentration per Run 1	-0.0012 ppm	2.3913 ppm	0.0091 ppm	0.0891 ppm	3.9917 ppm	0.0057 ppm	0.5253 ppm
Concentration per Run 2	-0.0003 ppm	2.3697 ppm	0.0094 ppm	0.0891 ppm	3.9683 ppm	0.0045 ppm	0.5183 ppm
Concentration per Run 3	-0.0001 ppm	2.3460 ppm	0.0092 ppm	0.0898 ppm	3.9637 ppm	0.0053 ppm	0.5205 ppm
Concentration RSD	111.2 %	1.0 %	1.5 %	0.5 %	0.4 %	11.9 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2418 ppm	124.2101 %	130.9247 %	110.5285 %	135.0280 %	**151.1456 %**	142.8205 %
Concentration per Run 1	0.2434 ppm	123.7419 %	130.5007 %	110.4312 %	135.4287 %	**150.4296 %**	142.7259 %
Concentration per Run 2	0.2406 ppm	124.1564 %	131.0258 %	110.6623 %	134.8500 %	**150.6438 %**	143.3719 %
Concentration per Run 3	0.2414 ppm	124.7320 %	131.2475 %	110.4919 %	134.8052 %	**152.3634 %**	142.3637 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.1 %	0.3 %	**0.7 %**	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934051-5d2 WG1934051
Analysis started at: 6/14/2024 7:30:26 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0363 ppm	143.3495 ppm	0.1583 ppm	0.7382 ppm	2.2069 ppm	0.0467 ppm	14.0391 ppm
Concentration per Run 1	0.0362 ppm	142.6999 ppm	0.1600 ppm	0.7429 ppm	2.2001 ppm	0.0469 ppm	14.0333 ppm
Concentration per Run 2	0.0366 ppm	143.5371 ppm	0.1574 ppm	0.7440 ppm	2.2089 ppm	0.0465 ppm	14.0371 ppm
Concentration per Run 3	0.0361 ppm	143.8117 ppm	0.1576 ppm	0.7277 ppm	2.2117 ppm	0.0466 ppm	14.0469 ppm
Concentration RSD	0.7 %	0.4 %	0.9 %	1.2 %	0.3 %	0.5 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0398 ppm	0.5750 ppm	0.4969 ppm	0.4504 ppm	280.0758 ppm	9.9385 ppm	0.0300 ppm
Concentration per Run 1	0.0399 ppm	0.5778 ppm	0.5009 ppm	0.4526 ppm	279.5863 ppm	9.9184 ppm	0.0307 ppm
Concentration per Run 2	0.0404 ppm	0.5783 ppm	0.4975 ppm	0.4525 ppm	279.5790 ppm	9.8871 ppm	0.0301 ppm
Concentration per Run 3	0.0392 ppm	0.5689 ppm	0.4924 ppm	0.4460 ppm	281.0621 ppm	10.0100 ppm	0.0293 ppm
Concentration RSD	1.6 %	0.9 %	0.9 %	0.8 %	0.3 %	0.6 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.0889 ppm	5.6937 ppm	0.7487 ppm	12.1779 ppm	0.6085 ppm	0.5999 ppm	0.3683 ppm
Concentration per Run 1	14.1930 ppm	5.6859 ppm	0.7408 ppm	12.1598 ppm	0.6117 ppm	0.6063 ppm	0.3687 ppm
Concentration per Run 2	14.1054 ppm	5.6843 ppm	0.7546 ppm	12.2004 ppm	0.6125 ppm	0.5996 ppm	0.3736 ppm
Concentration per Run 3	13.9682 ppm	5.7110 ppm	0.7508 ppm	12.1735 ppm	0.6013 ppm	0.5939 ppm	0.3626 ppm
Concentration RSD	0.8 %	0.3 %	1.0 %	0.2 %	1.0 %	1.0 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0985 ppm	3.5269 ppm	0.6914 ppm	0.8948 ppm	4.9375 ppm	0.1062 ppm	0.8477 ppm
Concentration per Run 1	0.0998 ppm	3.5338 ppm	0.6916 ppm	0.8959 ppm	4.9704 ppm	0.1082 ppm	0.8549 ppm
Concentration per Run 2	0.0973 ppm	3.5458 ppm	0.6936 ppm	0.8929 ppm	4.9519 ppm	0.1067 ppm	0.8456 ppm
Concentration per Run 3	0.0983 ppm	3.5012 ppm	0.6891 ppm	0.8956 ppm	4.8902 ppm	0.1036 ppm	0.8427 ppm
Concentration RSD	1.3 %	0.7 %	0.3 %	0.2 %	0.9 %	2.2 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5815 ppm	122.2433 %	129.2419 %	107.7344 %	130.5520 %	145.0278 %	136.8724 %
Concentration per Run 1	0.5858 ppm	121.4045 %	129.6754 %	107.1455 %	130.4265 %	145.9887 %	136.2878 %
Concentration per Run 2	0.5867 ppm	121.8999 %	128.5937 %	107.4948 %	130.4638 %	143.7554 %	136.8565 %
Concentration per Run 3	0.5721 ppm	123.4256 %	129.4565 %	108.5629 %	130.7658 %	145.3393 %	137.4729 %
Concentration RSD	1.4 %	0.9 %	0.4 %	0.7 %	0.1 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934051-6d10 WG1934051
Analysis started at: 6/14/2024 7:34:26 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	39.9678 ppm	0.0133 ppm	0.0039 ppm	0.1580 ppm	0.0018 ppm	1.4998 ppm
Concentration per Run 1	-0.0001 ppm	39.9631 ppm	0.0130 ppm	0.0032 ppm	0.1587 ppm	0.0018 ppm	1.5013 ppm
Concentration per Run 2	0.0000 ppm	40.0609 ppm	0.0130 ppm	0.0044 ppm	0.1574 ppm	0.0018 ppm	1.4994 ppm
Concentration per Run 3	0.0001 ppm	39.8793 ppm	0.0140 ppm	0.0042 ppm	0.1578 ppm	0.0018 ppm	1.4987 ppm
Concentration RSD	297.0 %	0.2 %	4.6 %	17.3 %	0.4 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0541 ppm	0.0860 ppm	0.0634 ppm	73.3698 ppm	0.5072 ppm	0.0097 ppm
Concentration per Run 1	0.0003 ppm	0.0525 ppm	0.0838 ppm	0.0618 ppm	73.3952 ppm	0.5165 ppm	0.0118 ppm
Concentration per Run 2	0.0002 ppm	0.0554 ppm	0.0874 ppm	0.0646 ppm	73.2467 ppm	0.5185 ppm	0.0091 ppm
Concentration per Run 3	0.0002 ppm	0.0545 ppm	0.0869 ppm	0.0637 ppm	73.4675 ppm	0.4867 ppm	0.0081 ppm
Concentration RSD	34.6 %	2.8 %	2.2 %	2.3 %	0.2 %	3.5 %	19.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6736 ppm	1.3545 ppm	0.0031 ppm	0.9140 ppm	0.0618 ppm	0.0380 ppm	0.0004 ppm
Concentration per Run 1	1.6342 ppm	1.3606 ppm	0.0028 ppm	0.9186 ppm	0.0604 ppm	0.0377 ppm	0.0001 ppm
Concentration per Run 2	1.6962 ppm	1.3514 ppm	0.0032 ppm	0.9100 ppm	0.0633 ppm	0.0382 ppm	-0.0009 ppm
Concentration per Run 3	1.6905 ppm	1.3515 ppm	0.0035 ppm	0.9133 ppm	0.0615 ppm	0.0380 ppm	0.0020 ppm
Concentration RSD	2.0 %	0.4 %	11.0 %	0.5 %	2.4 %	0.6 %	391.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.6372 ppm	0.0034 ppm	0.0191 ppm	1.0280 ppm	-0.0005 ppm	0.1162 ppm
Concentration per Run 1	0.0012 ppm	0.6226 ppm	0.0027 ppm	0.0193 ppm	1.0016 ppm	-0.0003 ppm	0.1130 ppm
Concentration per Run 2	0.0003 ppm	0.6510 ppm	0.0038 ppm	0.0191 ppm	1.0448 ppm	-0.0009 ppm	0.1183 ppm
Concentration per Run 3	0.0002 ppm	0.6381 ppm	0.0036 ppm	0.0190 ppm	1.0375 ppm	-0.0004 ppm	0.1173 ppm
Concentration RSD	95.0 %	2.2 %	16.7 %	0.8 %	2.3 %	59.2 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0539 ppm	108.2426 %	110.9749 %	103.3072 %	106.2614 %	110.9821 %	107.3023 %
Concentration per Run 1	0.0528 ppm	110.1603 %	110.4277 %	102.9991 %	109.5549 %	110.5906 %	107.7014 %
Concentration per Run 2	0.0547 ppm	106.9644 %	111.5677 %	103.6915 %	104.9991 %	111.4051 %	107.7631 %
Concentration per Run 3	0.0542 ppm	107.6032 %	110.9292 %	103.2311 %	104.2301 %	110.9507 %	106.4425 %
Concentration RSD	1.8 %	1.6 %	0.5 %	0.3 %	2.7 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 7:38:25 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4982 ppm	0.4846 ppm	0.4632 ppm	0.4929 ppm	0.4997 ppm	0.5056 ppm	0.4917 ppm
Concentration per Run 1	0.5037 ppm	0.4867 ppm	0.4649 ppm	0.4986 ppm	0.5014 ppm	0.5065 ppm	0.4900 ppm
Concentration per Run 2	0.4981 ppm	0.4803 ppm	0.4651 ppm	0.4925 ppm	0.4996 ppm	0.5052 ppm	0.4947 ppm
Concentration per Run 3	0.4927 ppm	0.4867 ppm	0.4597 ppm	0.4877 ppm	0.4980 ppm	0.5051 ppm	0.4906 ppm
Recovery Percentage 1	99.640 %	96.920 %	92.646 %	98.582 %	99.932 %	101.125 %	98.349 %
Concentration RSD	1.1 %	0.8 %	0.7 %	1.1 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4936 ppm	0.5069 ppm	0.4873 ppm	0.4921 ppm	0.5296 ppm	5.1261 ppm	0.4848 ppm
Concentration per Run 1	0.5007 ppm	0.5140 ppm	0.4933 ppm	0.4994 ppm	0.5287 ppm	5.1906 ppm	0.4838 ppm
Concentration per Run 2	0.4918 ppm	0.5056 ppm	0.4867 ppm	0.4896 ppm	0.5313 ppm	5.0730 ppm	0.4840 ppm
Concentration per Run 3	0.4884 ppm	0.5010 ppm	0.4820 ppm	0.4873 ppm	0.5289 ppm	5.1148 ppm	0.4865 ppm
Recovery Percentage 1	98.728 %	101.379 %	97.470 %	98.418 %	105.926 %	102.522 %	96.956 %
Concentration RSD	1.3 %	1.3 %	1.2 %	1.3 %	0.3 %	1.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4944 ppm	0.4894 ppm	0.4876 ppm	9.8722 ppm	0.5080 ppm	0.4860 ppm	0.4846 ppm
Concentration per Run 1	0.5002 ppm	0.4907 ppm	0.4867 ppm	9.8925 ppm	0.5150 ppm	0.4874 ppm	0.4908 ppm
Concentration per Run 2	0.4922 ppm	0.4891 ppm	0.4877 ppm	9.8697 ppm	0.5049 ppm	0.4872 ppm	0.4805 ppm
Concentration per Run 3	0.4907 ppm	0.4886 ppm	0.4885 ppm	9.8544 ppm	0.5040 ppm	0.4833 ppm	0.4826 ppm
Recovery Percentage 1	98.870 %	97.889 %	97.524 %	98.722 %	101.596 %	97.195 %	96.926 %
Concentration RSD	1.0 %	0.2 %	0.2 %	0.2 %	1.2 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4737 ppm	5.1150 ppm	0.5137 ppm	0.5035 ppm	0.4998 ppm	0.4826 ppm	0.4891 ppm
Concentration per Run 1	0.4742 ppm	5.1679 ppm	0.5139 ppm	0.5044 ppm	0.5056 ppm	0.4839 ppm	0.4968 ppm
Concentration per Run 2	0.4805 ppm	5.0986 ppm	0.5100 ppm	0.5027 ppm	0.4994 ppm	0.4844 ppm	0.4882 ppm
Concentration per Run 3	0.4663 ppm	5.0785 ppm	0.5171 ppm	0.5036 ppm	0.4942 ppm	0.4794 ppm	0.4824 ppm
Recovery Percentage 1	94.731 %	97.428 %	102.734 %	100.709 %	99.950 %	96.520 %	97.829 %
Concentration RSD	1.5 %	0.9 %	0.7 %	0.2 %	1.1 %	0.6 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5022 ppm	99.5892 %	104.7934 %	101.3550 %	95.4659 %	101.2335 %	98.9200 %
Concentration per Run 1	0.5097 ppm	98.2124 %	104.2955 %	100.5789 %	95.1826 %	101.2818 %	98.6009 %
Concentration per Run 2	0.4990 ppm	100.5371 %	104.8181 %	101.5426 %	96.4009 %	101.0013 %	99.3621 %
Concentration per Run 3	0.4979 ppm	100.0180 %	105.2667 %	101.9436 %	94.8141 %	101.4172 %	98.7970 %
Recovery Percentage 1	100.440 %						
Concentration RSD	1.3 %	1.2 %	0.5 %	0.7 %	0.9 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 7:42:24 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0027 ppm	0.0019 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0025 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	-0.0002 ppm	-0.0019 ppm	0.0004 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 3	-0.0005 ppm	-0.0067 ppm	0.0029 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0105 ppm
Recovery Percentage 1	-3.450 %	-2.735 %	64.219 %	4.814 %	0.476 %	-0.542 %	8.130 %
Concentration RSD	101.6 %	131.8 %	70.4 %	20.2 %	230.6 %	50.3 %	25.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0132 ppm	0.0132 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	-0.0004 ppm	0.0009 ppm	0.0128 ppm	0.0175 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0114 ppm	0.0381 ppm	-0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0154 ppm	-0.0161 ppm	0.0010 ppm
Recovery Percentage 1	-0.403 %	1.930 %	-0.427 %	6.195 %	26.360 %	0.526 %	-2.435 %
Concentration RSD	248.6 %	79.3 %	707.6 %	54.0 %	15.6 %	207.9 %	542.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0016 ppm	0.0001 ppm	0.0018 ppm	-0.0284 ppm	-0.0005 ppm	0.0003 ppm	0.0028 ppm
Concentration per Run 1	0.0011 ppm	0.0001 ppm	0.0016 ppm	-0.0307 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0019 ppm	-0.0304 ppm	-0.0004 ppm	0.0010 ppm	0.0021 ppm
Concentration per Run 3	0.0032 ppm	0.0002 ppm	0.0018 ppm	-0.0240 ppm	-0.0005 ppm	0.0000 ppm	0.0060 ppm
Recovery Percentage 1	1.598 %	1.439 %	3.586 %	-1.419 %	-2.076 %	2.981 %	5.538 %
Concentration RSD	90.4 %	15.9 %	9.8 %	13.2 %	20.4 %	200.6 %	107.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	-0.0004 ppm	0.0014 ppm	-0.0001 ppm	0.0002 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	-0.0011 ppm	0.0014 ppm	0.0000 ppm	0.0003 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	-0.0014 ppm	0.0021 ppm	-0.0001 ppm	0.0001 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 3	0.0023 ppm	0.0013 ppm	0.0005 ppm	-0.0002 ppm	0.0003 ppm	-0.0030 ppm	0.0000 ppm
Recovery Percentage 1	17.292 %	-0.081 %	2.722 %	-0.905 %	2.316 %	-10.485 %	-0.242 %
Concentration RSD	27.7 %	370.9 %	57.8 %	78.8 %	54.9 %	38.3 %	84.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	96.6156 %	101.1137 %	99.0599 %	96.8330 %	100.6755 %	98.9697 %
Concentration per Run 1	0.0013 ppm	94.8160 %	101.1972 %	98.9788 %	96.4452 %	101.0677 %	99.3980 %
Concentration per Run 2	0.0011 ppm	97.0012 %	100.6811 %	98.5313 %	97.0308 %	100.2598 %	98.4790 %
Concentration per Run 3	0.0012 ppm	98.0296 %	101.4628 %	99.6697 %	97.0231 %	100.6989 %	99.0322 %
Recovery Percentage 1	24.477 %						
Concentration RSD	10.3 %	1.7 %	0.4 %	0.6 %	0.3 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430310-17d2 WG1934051
Analysis started at: 6/14/2024 7:50:23 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0117 ppm	33.7429 ppm	0.1425 ppm	0.0254 ppm	2.3151 ppm	0.0023 ppm	32.5161 ppm
Concentration per Run 1	0.0121 ppm	33.6638 ppm	0.1432 ppm	0.0246 ppm	2.3235 ppm	0.0024 ppm	32.5484 ppm
Concentration per Run 2	0.0117 ppm	33.7365 ppm	0.1440 ppm	0.0244 ppm	2.3149 ppm	0.0024 ppm	32.4672 ppm
Concentration per Run 3	0.0113 ppm	33.8284 ppm	0.1403 ppm	0.0270 ppm	2.3069 ppm	0.0023 ppm	32.5326 ppm
Concentration RSD	3.4 %	0.2 %	1.4 %	5.8 %	0.4 %	1.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1476 ppm	0.0406 ppm	0.2002 ppm	1.1506 ppm	241.5201 ppm	3.8112 ppm	0.0688 ppm
Concentration per Run 1	0.1488 ppm	0.0411 ppm	0.2026 ppm	1.1523 ppm	242.2578 ppm	3.8171 ppm	0.0673 ppm
Concentration per Run 2	0.1478 ppm	0.0409 ppm	0.1994 ppm	1.1532 ppm	242.0363 ppm	3.7924 ppm	0.0697 ppm
Concentration per Run 3	0.1462 ppm	0.0399 ppm	0.1984 ppm	1.1463 ppm	240.2662 ppm	3.8242 ppm	0.0694 ppm
Concentration RSD	0.9 %	1.6 %	1.1 %	0.3 %	0.5 %	0.4 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5279 ppm	1.5034 ppm	0.0356 ppm	0.2799 ppm	0.1446 ppm	6.0606 ppm	0.2100 ppm
Concentration per Run 1	9.6374 ppm	1.5094 ppm	0.0346 ppm	0.2812 ppm	0.1470 ppm	6.0527 ppm	0.2101 ppm
Concentration per Run 2	9.5341 ppm	1.4980 ppm	0.0359 ppm	0.2789 ppm	0.1430 ppm	6.0583 ppm	0.2091 ppm
Concentration per Run 3	9.4124 ppm	1.5028 ppm	0.0362 ppm	0.2796 ppm	0.1437 ppm	6.0708 ppm	0.2107 ppm
Concentration RSD	1.2 %	0.4 %	2.4 %	0.4 %	1.5 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	3.4254 ppm	0.1820 ppm	0.2235 ppm	0.7712 ppm	-0.0001 ppm	0.1380 ppm
Concentration per Run 1	0.0051 ppm	3.4872 ppm	0.1840 ppm	0.2251 ppm	0.7813 ppm	-0.0007 ppm	0.1391 ppm
Concentration per Run 2	0.0027 ppm	3.3991 ppm	0.1809 ppm	0.2243 ppm	0.7667 ppm	-0.0010 ppm	0.1384 ppm
Concentration per Run 3	0.0010 ppm	3.3899 ppm	0.1810 ppm	0.2211 ppm	0.7655 ppm	0.0013 ppm	0.1365 ppm
Concentration RSD	68.8 %	1.6 %	1.0 %	1.0 %	1.1 %	1,256.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.8785 ppm	102.0794 %	108.3643 %	95.4808 %	100.9536 %	110.8207 %	104.8354 %
Concentration per Run 1	2.9251 ppm	100.7978 %	107.7473 %	95.6897 %	100.1186 %	110.4479 %	105.2497 %
Concentration per Run 2	2.8688 ppm	101.7743 %	109.2034 %	95.5690 %	100.7169 %	111.7865 %	104.7227 %
Concentration per Run 3	2.8416 ppm	103.6660 %	108.1421 %	95.1838 %	102.0252 %	110.2276 %	104.5338 %
Concentration RSD	1.5 %	1.4 %	0.7 %	0.3 %	1.0 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432275-01d2 WG1934051
Analysis started at: 6/14/2024 7:54:29 PM
Rack 2
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	49.3090 ppm	0.0582 ppm	0.0011 ppm	0.1858 ppm	0.0023 ppm	1.8656 ppm
Concentration per Run 1	-0.0001 ppm	49.5304 ppm	0.0589 ppm	0.0015 ppm	0.1866 ppm	0.0022 ppm	1.8712 ppm
Concentration per Run 2	-0.0003 ppm	49.2018 ppm	0.0582 ppm	0.0000 ppm	0.1853 ppm	0.0023 ppm	1.8660 ppm
Concentration per Run 3	-0.0003 ppm	49.1949 ppm	0.0576 ppm	0.0017 ppm	0.1855 ppm	0.0023 ppm	1.8597 ppm
Concentration RSD	44.8 %	0.4 %	1.2 %	86.9 %	0.4 %	3.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0257 ppm	0.0682 ppm	0.0619 ppm	95.4951 ppm	9.9655 ppm	0.0637 ppm
Concentration per Run 1	0.0005 ppm	0.0259 ppm	0.0694 ppm	0.0634 ppm	95.6467 ppm	10.2114 ppm	0.0665 ppm
Concentration per Run 2	0.0004 ppm	0.0254 ppm	0.0683 ppm	0.0616 ppm	95.5297 ppm	9.8811 ppm	0.0639 ppm
Concentration per Run 3	0.0004 ppm	0.0257 ppm	0.0668 ppm	0.0606 ppm	95.3088 ppm	9.8040 ppm	0.0607 ppm
Concentration RSD	17.8 %	0.9 %	1.9 %	2.3 %	0.2 %	2.2 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.1924 ppm	0.7627 ppm	0.0056 ppm	2.0492 ppm	0.0536 ppm	0.0675 ppm	0.0030 ppm
Concentration per Run 1	14.4687 ppm	0.7670 ppm	0.0056 ppm	2.0388 ppm	0.0540 ppm	0.0685 ppm	0.0049 ppm
Concentration per Run 2	14.1571 ppm	0.7611 ppm	0.0057 ppm	2.0557 ppm	0.0537 ppm	0.0675 ppm	0.0022 ppm
Concentration per Run 3	13.9515 ppm	0.7599 ppm	0.0053 ppm	2.0531 ppm	0.0531 ppm	0.0666 ppm	0.0017 ppm
Concentration RSD	1.8 %	0.5 %	4.0 %	0.4 %	0.8 %	1.4 %	57.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	2.5570 ppm	0.0016 ppm	0.0131 ppm	2.9562 ppm	0.0014 ppm	0.1164 ppm
Concentration per Run 1	0.0009 ppm	2.5880 ppm	0.0011 ppm	0.0132 ppm	2.9887 ppm	0.0009 ppm	0.1172 ppm
Concentration per Run 2	0.0037 ppm	2.5628 ppm	0.0017 ppm	0.0133 ppm	2.9580 ppm	0.0013 ppm	0.1169 ppm
Concentration per Run 3	0.0014 ppm	2.5203 ppm	0.0019 ppm	0.0130 ppm	2.9219 ppm	0.0019 ppm	0.1151 ppm
Concentration RSD	74.7 %	1.3 %	29.1 %	1.2 %	1.1 %	36.1 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1800 ppm	100.7745 %	107.1284 %	95.9608 %	98.2590 %	106.8084 %	101.7820 %
Concentration per Run 1	0.1825 ppm	98.0277 %	107.5571 %	95.7864 %	96.5963 %	107.1737 %	102.0744 %
Concentration per Run 2	0.1804 ppm	101.2594 %	107.5966 %	95.9610 %	98.5688 %	107.4379 %	101.3201 %
Concentration per Run 3	0.1770 ppm	103.0365 %	106.2314 %	96.1350 %	99.6119 %	105.8136 %	101.9515 %
Concentration RSD	1.6 %	2.5 %	0.7 %	0.2 %	1.6 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432275-02d2 WG1934051
Analysis started at: 6/14/2024 7:58:29 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	42.3571 ppm	0.0508 ppm	0.0009 ppm	0.1786 ppm	0.0019 ppm	2.9801 ppm
Concentration per Run 1	-0.0002 ppm	42.2657 ppm	0.0519 ppm	0.0011 ppm	0.1778 ppm	0.0019 ppm	2.9890 ppm
Concentration per Run 2	0.0001 ppm	42.3929 ppm	0.0498 ppm	0.0008 ppm	0.1793 ppm	0.0019 ppm	2.9674 ppm
Concentration per Run 3	0.0000 ppm	42.4126 ppm	0.0508 ppm	0.0010 ppm	0.1786 ppm	0.0018 ppm	2.9838 ppm
Concentration RSD	762.6 %	0.2 %	2.1 %	14.1 %	0.4 %	2.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0244 ppm	0.0885 ppm	0.0596 ppm	104.4572 ppm	11.3128 ppm	0.0611 ppm
Concentration per Run 1	0.0005 ppm	0.0249 ppm	0.0890 ppm	0.0606 ppm	104.5619 ppm	11.2923 ppm	0.0603 ppm
Concentration per Run 2	0.0005 ppm	0.0243 ppm	0.0888 ppm	0.0592 ppm	104.6850 ppm	11.3413 ppm	0.0619 ppm
Concentration per Run 3	0.0004 ppm	0.0242 ppm	0.0878 ppm	0.0590 ppm	104.1248 ppm	11.3049 ppm	0.0610 ppm
Concentration RSD	6.4 %	1.6 %	0.7 %	1.5 %	0.3 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.0540 ppm	0.7557 ppm	0.0106 ppm	1.8066 ppm	0.0508 ppm	0.0347 ppm	0.0035 ppm
Concentration per Run 1	15.3149 ppm	0.7568 ppm	0.0109 ppm	1.8202 ppm	0.0527 ppm	0.0345 ppm	0.0044 ppm
Concentration per Run 2	14.9895 ppm	0.7550 ppm	0.0105 ppm	1.7985 ppm	0.0497 ppm	0.0345 ppm	0.0030 ppm
Concentration per Run 3	14.8575 ppm	0.7552 ppm	0.0105 ppm	1.8012 ppm	0.0499 ppm	0.0350 ppm	0.0031 ppm
Concentration RSD	1.6 %	0.1 %	2.4 %	0.7 %	3.3 %	0.9 %	23.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	2.1994 ppm	0.0028 ppm	0.0179 ppm	2.9600 ppm	0.0009 ppm	0.1127 ppm
Concentration per Run 1	-0.0018 ppm	2.2278 ppm	0.0032 ppm	0.0179 ppm	3.0100 ppm	0.0010 ppm	0.1143 ppm
Concentration per Run 2	0.0009 ppm	2.2096 ppm	0.0030 ppm	0.0180 ppm	2.9449 ppm	0.0013 ppm	0.1131 ppm
Concentration per Run 3	0.0012 ppm	2.1607 ppm	0.0021 ppm	0.0179 ppm	2.9251 ppm	0.0004 ppm	0.1109 ppm
Concentration RSD	1,633.0 %	1.6 %	21.1 %	0.4 %	1.5 %	54.7 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1591 ppm	101.3626 %	107.2886 %	96.4703 %	98.0641 %	106.2204 %	102.0860 %
Concentration per Run 1	0.1633 ppm	99.9058 %	107.1106 %	96.4605 %	97.5422 %	106.3580 %	103.0665 %
Concentration per Run 2	0.1573 ppm	101.6730 %	107.3225 %	97.0086 %	98.5215 %	105.9815 %	102.4554 %
Concentration per Run 3	0.1566 ppm	102.5088 %	107.4327 %	95.9417 %	98.1286 %	106.3218 %	100.7362 %
Concentration RSD	2.3 %	1.3 %	0.2 %	0.6 %	0.5 %	0.2 %	1.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432275-03d2 WG1934051
Analysis started at: 6/14/2024 8:02:29 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	83.0873 ppm	0.0487 ppm	0.0023 ppm	0.2338 ppm	0.0034 ppm	4.8543 ppm
Concentration per Run 1	0.0000 ppm	79.0791 ppm	0.0463 ppm	0.0029 ppm	0.2237 ppm	0.0032 ppm	4.6302 ppm
Concentration per Run 2	-0.0006 ppm	84.6620 ppm	0.0483 ppm	0.0008 ppm	0.2381 ppm	0.0035 ppm	4.9475 ppm
Concentration per Run 3	0.0000 ppm	85.5207 ppm	0.0514 ppm	0.0033 ppm	0.2395 ppm	0.0036 ppm	4.9853 ppm
Concentration RSD	175.5 %	4.2 %	5.2 %	56.4 %	3.7 %	5.7 %	4.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0318 ppm	0.0959 ppm	0.0780 ppm	116.5086 ppm	7.8081 ppm	0.0829 ppm
Concentration per Run 1	0.0006 ppm	0.0317 ppm	0.0968 ppm	0.0793 ppm	111.4120 ppm	7.4702 ppm	0.0812 ppm
Concentration per Run 2	0.0007 ppm	0.0313 ppm	0.0960 ppm	0.0777 ppm	118.6117 ppm	7.9788 ppm	0.0832 ppm
Concentration per Run 3	0.0005 ppm	0.0322 ppm	0.0949 ppm	0.0772 ppm	119.5019 ppm	7.9754 ppm	0.0842 ppm
Concentration RSD	16.4 %	1.4 %	1.0 %	1.4 %	3.8 %	3.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.9296 ppm	1.0961 ppm	0.0072 ppm	1.9474 ppm	0.0699 ppm	0.0891 ppm	0.0031 ppm
Concentration per Run 1	17.1434 ppm	1.0457 ppm	0.0074 ppm	1.8505 ppm	0.0714 ppm	0.0893 ppm	0.0043 ppm
Concentration per Run 2	16.8732 ppm	1.1160 ppm	0.0073 ppm	1.9872 ppm	0.0700 ppm	0.0893 ppm	0.0001 ppm
Concentration per Run 3	16.7723 ppm	1.1267 ppm	0.0069 ppm	2.0043 ppm	0.0683 ppm	0.0888 ppm	0.0048 ppm
Concentration RSD	1.1 %	4.0 %	3.5 %	4.3 %	2.3 %	0.3 %	83.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	4.5677 ppm	0.0062 ppm	0.0219 ppm	3.4780 ppm	0.0025 ppm	0.1552 ppm
Concentration per Run 1	-0.0003 ppm	4.6185 ppm	0.0051 ppm	0.0208 ppm	3.5189 ppm	0.0023 ppm	0.1579 ppm
Concentration per Run 2	0.0034 ppm	4.5671 ppm	0.0068 ppm	0.0224 ppm	3.4734 ppm	0.0016 ppm	0.1544 ppm
Concentration per Run 3	0.0009 ppm	4.5175 ppm	0.0067 ppm	0.0225 ppm	3.4418 ppm	0.0036 ppm	0.1531 ppm
Concentration RSD	140.8 %	1.1 %	15.0 %	4.4 %	1.1 %	41.3 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2220 ppm	101.6063 %	112.6304 %	94.4336 %	100.1911 %	113.3759 %	104.0817 %
Concentration per Run 1	0.2246 ppm	100.3418 %	117.7489 %	93.9372 %	100.0216 %	118.9187 %	103.6439 %
Concentration per Run 2	0.2209 ppm	101.6882 %	110.3266 %	94.7697 %	100.2422 %	110.8780 %	104.3277 %
Concentration per Run 3	0.2204 ppm	102.7887 %	109.8156 %	94.5938 %	100.3094 %	110.3310 %	104.2734 %
Concentration RSD	1.0 %	1.2 %	3.9 %	0.5 %	0.2 %	4.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432281-06d2 WG1934051
Analysis started at: 6/14/2024 8:06:30 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	124.9656 ppm	0.0753 ppm	0.0152 ppm	0.4104 ppm	0.0058 ppm	25.0886 ppm
Concentration per Run 1	0.0000 ppm	124.8424 ppm	0.0719 ppm	0.0141 ppm	0.4120 ppm	0.0058 ppm	25.0889 ppm
Concentration per Run 2	0.0000 ppm	124.6064 ppm	0.0785 ppm	0.0160 ppm	0.4108 ppm	0.0059 ppm	25.1272 ppm
Concentration per Run 3	-0.0002 ppm	125.4479 ppm	0.0754 ppm	0.0155 ppm	0.4082 ppm	0.0058 ppm	25.0496 ppm
Concentration RSD	91.3 %	0.3 %	4.4 %	6.5 %	0.5 %	1.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0729 ppm	0.2801 ppm	0.1540 ppm	282.9245 ppm	4.8134 ppm	0.0852 ppm
Concentration per Run 1	0.0013 ppm	0.0736 ppm	0.2833 ppm	0.1558 ppm	282.0519 ppm	4.8014 ppm	0.0857 ppm
Concentration per Run 2	0.0009 ppm	0.0727 ppm	0.2797 ppm	0.1534 ppm	283.6679 ppm	4.8079 ppm	0.0842 ppm
Concentration per Run 3	0.0009 ppm	0.0722 ppm	0.2775 ppm	0.1528 ppm	283.0537 ppm	4.8311 ppm	0.0856 ppm
Concentration RSD	22.5 %	1.0 %	1.0 %	1.0 %	0.3 %	0.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.8296 ppm	2.0080 ppm	0.0060 ppm	4.1767 ppm	0.1197 ppm	0.1165 ppm	0.0067 ppm
Concentration per Run 1	20.0690 ppm	2.0091 ppm	0.0061 ppm	4.1670 ppm	0.1211 ppm	0.1167 ppm	0.0093 ppm
Concentration per Run 2	19.7598 ppm	2.0072 ppm	0.0061 ppm	4.2033 ppm	0.1198 ppm	0.1165 ppm	0.0052 ppm
Concentration per Run 3	19.6601 ppm	2.0077 ppm	0.0057 ppm	4.1597 ppm	0.1183 ppm	0.1163 ppm	0.0057 ppm
Concentration RSD	1.1 %	0.0 %	3.6 %	0.6 %	1.1 %	0.2 %	32.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	4.4967 ppm	0.0072 ppm	0.1605 ppm	3.8502 ppm	0.0048 ppm	0.4581 ppm
Concentration per Run 1	-0.0035 ppm	4.5663 ppm	0.0069 ppm	0.1601 ppm	3.8937 ppm	0.0036 ppm	0.4595 ppm
Concentration per Run 2	-0.0022 ppm	4.5012 ppm	0.0076 ppm	0.1613 ppm	3.8293 ppm	0.0067 ppm	0.4589 ppm
Concentration per Run 3	0.0000 ppm	4.4225 ppm	0.0072 ppm	0.1601 ppm	3.8278 ppm	0.0042 ppm	0.4557 ppm
Concentration RSD	94.3 %	1.6 %	5.5 %	0.4 %	1.0 %	34.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3034 ppm	109.9719 %	116.1854 %	97.7759 %	115.8003 %	127.9520 %	120.3893 %
Concentration per Run 1	0.3084 ppm	108.5931 %	115.9206 %	97.3144 %	114.6628 %	127.7262 %	119.6138 %
Concentration per Run 2	0.3018 ppm	110.3892 %	116.6729 %	98.0379 %	116.1160 %	128.9331 %	120.5143 %
Concentration per Run 3	0.3001 ppm	110.9334 %	115.9626 %	97.9754 %	116.6222 %	127.1965 %	121.0396 %
Concentration RSD	1.4 %	1.1 %	0.4 %	0.4 %	0.9 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432297-01d2 WG1934051
Analysis started at: 6/14/2024 8:10:31 PM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	113.1716 ppm	0.0292 ppm	0.0123 ppm	0.6292 ppm	0.0060 ppm	10.9580 ppm
Concentration per Run 1	-0.0007 ppm	113.0210 ppm	0.0293 ppm	0.0135 ppm	0.6325 ppm	0.0060 ppm	10.9699 ppm
Concentration per Run 2	0.0000 ppm	112.7479 ppm	0.0273 ppm	0.0117 ppm	0.6291 ppm	0.0060 ppm	10.9400 ppm
Concentration per Run 3	-0.0004 ppm	113.7457 ppm	0.0310 ppm	0.0118 ppm	0.6260 ppm	0.0059 ppm	10.9639 ppm
Concentration RSD	88.7 %	0.5 %	6.3 %	8.2 %	0.5 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0967 ppm	0.2587 ppm	0.2201 ppm	237.0616 ppm	21.3566 ppm	0.0953 ppm
Concentration per Run 1	0.0011 ppm	0.0982 ppm	0.2619 ppm	0.2232 ppm	237.5554 ppm	21.4462 ppm	0.0970 ppm
Concentration per Run 2	0.0009 ppm	0.0967 ppm	0.2581 ppm	0.2200 ppm	236.9162 ppm	21.0706 ppm	0.0932 ppm
Concentration per Run 3	0.0010 ppm	0.0952 ppm	0.2561 ppm	0.2171 ppm	236.7133 ppm	21.5529 ppm	0.0958 ppm
Concentration RSD	9.0 %	1.5 %	1.2 %	1.4 %	0.2 %	1.2 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.0303 ppm	4.0342 ppm	0.0020 ppm	0.6383 ppm	0.2192 ppm	0.0982 ppm	0.0056 ppm
Concentration per Run 1	43.6386 ppm	4.0431 ppm	0.0021 ppm	0.6324 ppm	0.2244 ppm	0.0985 ppm	0.0069 ppm
Concentration per Run 2	42.9648 ppm	4.0267 ppm	0.0018 ppm	0.6442 ppm	0.2160 ppm	0.0980 ppm	0.0055 ppm
Concentration per Run 3	42.4874 ppm	4.0329 ppm	0.0022 ppm	0.6383 ppm	0.2171 ppm	0.0980 ppm	0.0045 ppm
Concentration RSD	1.3 %	0.2 %	10.3 %	0.9 %	2.1 %	0.3 %	21.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	4.3200 ppm	0.0069 ppm	0.1116 ppm	8.1235 ppm	0.0061 ppm	0.3793 ppm
Concentration per Run 1	0.0006 ppm	4.4378 ppm	0.0076 ppm	0.1117 ppm	8.2436 ppm	0.0050 ppm	0.3830 ppm
Concentration per Run 2	-0.0005 ppm	4.2901 ppm	0.0058 ppm	0.1116 ppm	8.0822 ppm	0.0080 ppm	0.3789 ppm
Concentration per Run 3	-0.0021 ppm	4.2320 ppm	0.0072 ppm	0.1114 ppm	8.0447 ppm	0.0054 ppm	0.3761 ppm
Concentration RSD	202.4 %	2.5 %	13.3 %	0.2 %	1.3 %	26.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5412 ppm	108.9668 %	115.5237 %	94.0712 %	118.8990 %	131.9132 %	124.3097 %
Concentration per Run 1	0.5534 ppm	107.4371 %	115.5445 %	94.4388 %	118.0720 %	132.3474 %	124.8954 %
Concentration per Run 2	0.5350 ppm	108.9587 %	115.2869 %	93.9312 %	118.8404 %	131.8246 %	124.0418 %
Concentration per Run 3	0.5353 ppm	110.5047 %	115.7397 %	93.8434 %	119.7846 %	131.5675 %	123.9921 %
Concentration RSD	1.9 %	1.4 %	0.2 %	0.3 %	0.7 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432305-01d2 WG1934051
Analysis started at: 6/14/2024 8:14:31 PM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	89.8653 ppm	0.0300 ppm	0.0105 ppm	0.7711 ppm	0.0048 ppm	12.9234 ppm
Concentration per Run 1	0.0007 ppm	89.8071 ppm	0.0313 ppm	0.0085 ppm	0.7656 ppm	0.0047 ppm	12.9625 ppm
Concentration per Run 2	0.0003 ppm	89.7844 ppm	0.0293 ppm	0.0113 ppm	0.7704 ppm	0.0048 ppm	12.8586 ppm
Concentration per Run 3	0.0004 ppm	90.0044 ppm	0.0294 ppm	0.0118 ppm	0.7772 ppm	0.0048 ppm	12.9491 ppm
Concentration RSD	55.8 %	0.1 %	3.8 %	16.9 %	0.8 %	1.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0536 ppm	0.3890 ppm	0.0833 ppm	170.2879 ppm	4.9075 ppm	0.0875 ppm
Concentration per Run 1	0.0011 ppm	0.0535 ppm	0.3926 ppm	0.0833 ppm	169.7368 ppm	4.9143 ppm	0.0892 ppm
Concentration per Run 2	0.0011 ppm	0.0541 ppm	0.3895 ppm	0.0842 ppm	170.4305 ppm	4.8989 ppm	0.0858 ppm
Concentration per Run 3	0.0012 ppm	0.0533 ppm	0.3849 ppm	0.0824 ppm	170.6962 ppm	4.9093 ppm	0.0876 ppm
Concentration RSD	2.8 %	0.8 %	1.0 %	1.1 %	0.3 %	0.2 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.3812 ppm	1.4156 ppm	0.0225 ppm	1.5895 ppm	0.1225 ppm	0.0822 ppm	0.0016 ppm
Concentration per Run 1	24.7129 ppm	1.4166 ppm	0.0223 ppm	1.5925 ppm	0.1220 ppm	0.0813 ppm	0.0043 ppm
Concentration per Run 2	24.3571 ppm	1.4092 ppm	0.0229 ppm	1.5874 ppm	0.1230 ppm	0.0831 ppm	-0.0010 ppm
Concentration per Run 3	24.0738 ppm	1.4211 ppm	0.0222 ppm	1.5886 ppm	0.1225 ppm	0.0823 ppm	0.0016 ppm
Concentration RSD	1.3 %	0.4 %	1.6 %	0.2 %	0.4 %	1.1 %	165.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	2.0814 ppm	0.0062 ppm	0.0656 ppm	3.9744 ppm	0.0020 ppm	0.2969 ppm
Concentration per Run 1	0.0015 ppm	2.1320 ppm	0.0065 ppm	0.0652 ppm	4.0001 ppm	0.0020 ppm	0.3012 ppm
Concentration per Run 2	0.0035 ppm	2.0633 ppm	0.0060 ppm	0.0657 ppm	3.9815 ppm	0.0023 ppm	0.2940 ppm
Concentration per Run 3	0.0003 ppm	2.0490 ppm	0.0061 ppm	0.0659 ppm	3.9416 ppm	0.0018 ppm	0.2955 ppm
Concentration RSD	93.2 %	2.1 %	4.2 %	0.6 %	0.8 %	10.7 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3545 ppm	105.0860 %	112.8452 %	96.3186 %	137.6492 %	153.3181 %	145.1195 %
Concentration per Run 1	0.3559 ppm	103.3308 %	111.9907 %	96.1579 %	136.2603 %	152.5401 %	145.4279 %
Concentration per Run 2	0.3559 ppm	105.0468 %	113.6563 %	96.4307 %	137.5181 %	154.2804 %	145.2461 %
Concentration per Run 3	0.3516 ppm	106.8804 %	112.8884 %	96.3672 %	139.1693 %	153.1339 %	144.6844 %
Concentration RSD	0.7 %	1.7 %	0.7 %	0.1 %	1.1 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432305-03d2 WG1934051
Analysis started at: 6/14/2024 8:18:32 PM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	74.3621 ppm	0.0434 ppm	0.0087 ppm	0.8960 ppm	0.0045 ppm	41.9268 ppm
Concentration per Run 1	0.0006 ppm	74.0686 ppm	0.0457 ppm	0.0098 ppm	0.8969 ppm	0.0045 ppm	41.9705 ppm
Concentration per Run 2	0.0010 ppm	74.4514 ppm	0.0424 ppm	0.0088 ppm	0.8968 ppm	0.0044 ppm	41.9773 ppm
Concentration per Run 3	0.0010 ppm	74.5663 ppm	0.0421 ppm	0.0076 ppm	0.8945 ppm	0.0044 ppm	41.8328 ppm
Concentration RSD	26.3 %	0.4 %	4.7 %	12.5 %	0.2 %	1.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0469 ppm	0.7850 ppm	0.4756 ppm	146.0000 ppm	9.0575 ppm	0.0931 ppm
Concentration per Run 1	0.0023 ppm	0.0479 ppm	0.7979 ppm	0.4823 ppm	146.6154 ppm	9.0886 ppm	0.0925 ppm
Concentration per Run 2	0.0022 ppm	0.0461 ppm	0.7822 ppm	0.4737 ppm	145.9794 ppm	9.0406 ppm	0.0928 ppm
Concentration per Run 3	0.0023 ppm	0.0467 ppm	0.7750 ppm	0.4707 ppm	145.4051 ppm	9.0434 ppm	0.0939 ppm
Concentration RSD	3.1 %	2.0 %	1.5 %	1.3 %	0.4 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.9927 ppm	1.6477 ppm	0.0165 ppm	2.5566 ppm	0.1430 ppm	0.3825 ppm	0.0036 ppm
Concentration per Run 1	31.5513 ppm	1.6480 ppm	0.0168 ppm	2.5696 ppm	0.1452 ppm	0.3846 ppm	0.0054 ppm
Concentration per Run 2	30.8412 ppm	1.6499 ppm	0.0165 ppm	2.5572 ppm	0.1424 ppm	0.3827 ppm	0.0005 ppm
Concentration per Run 3	30.5857 ppm	1.6451 ppm	0.0161 ppm	2.5431 ppm	0.1414 ppm	0.3803 ppm	0.0049 ppm
Concentration RSD	1.6 %	0.1 %	2.1 %	0.5 %	1.4 %	0.6 %	75.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	1.9235 ppm	0.0252 ppm	0.1288 ppm	3.9453 ppm	0.0023 ppm	0.2827 ppm
Concentration per Run 1	0.0040 ppm	1.9756 ppm	0.0262 ppm	0.1301 ppm	4.0074 ppm	0.0019 ppm	0.2870 ppm
Concentration per Run 2	0.0059 ppm	1.8943 ppm	0.0250 ppm	0.1286 ppm	3.9260 ppm	0.0029 ppm	0.2818 ppm
Concentration per Run 3	0.0059 ppm	1.9006 ppm	0.0243 ppm	0.1278 ppm	3.9026 ppm	0.0021 ppm	0.2793 ppm
Concentration RSD	21.3 %	2.4 %	3.8 %	0.9 %	1.4 %	25.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5579 ppm	103.9124 %	111.9399 %	94.3617 %	134.1845 %	149.1743 %	139.8346 %
Concentration per Run 1	0.5689 ppm	101.8191 %	111.4398 %	94.1019 %	133.1598 %	149.0320 %	140.0879 %
Concentration per Run 2	0.5550 ppm	104.2650 %	112.5115 %	94.1331 %	134.3908 %	149.9383 %	139.5607 %
Concentration per Run 3	0.5499 ppm	105.6530 %	111.8686 %	94.8502 %	135.0028 %	148.5526 %	139.8551 %
Concentration RSD	1.8 %	1.9 %	0.5 %	0.4 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432305-05d2 WG1934051
Analysis started at: 6/14/2024 8:22:33 PM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	76.6361 ppm	0.1797 ppm	0.0228 ppm	0.9685 ppm	0.0037 ppm	40.9522 ppm
Concentration per Run 1	0.0011 ppm	76.5430 ppm	0.1803 ppm	0.0244 ppm	0.9713 ppm	0.0038 ppm	40.8805 ppm
Concentration per Run 2	0.0009 ppm	76.7293 ppm	0.1782 ppm	0.0226 ppm	0.9671 ppm	0.0038 ppm	40.9651 ppm
Concentration per Run 3	0.0010 ppm	76.6361 ppm	0.1805 ppm	0.0215 ppm	0.9672 ppm	0.0037 ppm	41.0110 ppm
Concentration RSD	10.3 %	0.1 %	0.7 %	6.4 %	0.2 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0119 ppm	0.0767 ppm	0.2224 ppm	1.7372 ppm	219.3890 ppm	15.7766 ppm	0.1032 ppm
Concentration per Run 1	0.0123 ppm	0.0793 ppm	0.2311 ppm	1.8088 ppm	219.3636 ppm	15.8125 ppm	0.1048 ppm
Concentration per Run 2	0.0121 ppm	0.0791 ppm	0.2276 ppm	1.7718 ppm	219.5770 ppm	15.8192 ppm	0.1032 ppm
Concentration per Run 3	0.0114 ppm	0.0717 ppm	0.2085 ppm	1.6312 ppm	219.2264 ppm	15.6981 ppm	0.1017 ppm
Concentration RSD	4.2 %	5.6 %	5.5 %	5.4 %	0.1 %	0.4 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.5020 ppm	2.6813 ppm	0.0103 ppm	4.2203 ppm	0.1809 ppm	3.8707 ppm	0.0273 ppm
Concentration per Run 1	34.7182 ppm	2.6803 ppm	0.0109 ppm	4.2116 ppm	0.1886 ppm	3.8988 ppm	0.0321 ppm
Concentration per Run 2	34.3817 ppm	2.6847 ppm	0.0105 ppm	4.2303 ppm	0.1843 ppm	3.8595 ppm	0.0270 ppm
Concentration per Run 3	31.4061 ppm	2.6789 ppm	0.0095 ppm	4.2189 ppm	0.1697 ppm	3.8537 ppm	0.0227 ppm
Concentration RSD	5.4 %	0.1 %	6.7 %	0.2 %	5.5 %	0.6 %	17.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0076 ppm	2.7129 ppm	0.1495 ppm	0.2967 ppm	6.1320 ppm	0.0032 ppm	0.3107 ppm
Concentration per Run 1	0.0081 ppm	2.8374 ppm	0.1525 ppm	0.2988 ppm	6.3554 ppm	0.0049 ppm	0.3219 ppm
Concentration per Run 2	0.0069 ppm	2.7578 ppm	0.1510 ppm	0.2964 ppm	6.2818 ppm	0.0018 ppm	0.3182 ppm
Concentration per Run 3	0.0078 ppm	2.5436 ppm	0.1450 ppm	0.2948 ppm	5.7589 ppm	0.0030 ppm	0.2920 ppm
Concentration RSD	8.1 %	5.6 %	2.7 %	0.7 %	5.3 %	48.3 %	5.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.0844 ppm	106.4753 %	111.0124 %	91.9168 %	115.4513 %	124.9493 %	117.8431 %
Concentration per Run 1	3.1988 ppm	102.5913 %	111.4201 %	90.9817 %	112.6850 %	125.4350 %	117.1594 %
Concentration per Run 2	3.1631 ppm	103.7988 %	110.7208 %	92.3589 %	113.4161 %	124.6361 %	117.9723 %
Concentration per Run 3	2.8914 ppm	113.0359 %	110.8964 %	92.4098 %	120.2527 %	124.7769 %	118.3977 %
Concentration RSD	5.5 %	5.4 %	0.3 %	0.9 %	3.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432305-07d2 WG1934051
Analysis started at: 6/14/2024 8:26:34 PM
Rack 3
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	98.5759 ppm	0.1143 ppm	0.0163 ppm	0.9680 ppm	0.0038 ppm	25.4807 ppm
Concentration per Run 1	0.0003 ppm	98.7993 ppm	0.1143 ppm	0.0168 ppm	0.9676 ppm	0.0037 ppm	25.4637 ppm
Concentration per Run 2	0.0012 ppm	98.3588 ppm	0.1150 ppm	0.0156 ppm	0.9686 ppm	0.0038 ppm	25.4880 ppm
Concentration per Run 3	0.0013 ppm	98.5696 ppm	0.1136 ppm	0.0165 ppm	0.9677 ppm	0.0037 ppm	25.4905 ppm
Concentration RSD	55.7 %	0.2 %	0.6 %	3.7 %	0.1 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0101 ppm	0.0866 ppm	0.3491 ppm	0.7463 ppm	243.0553 ppm	14.4688 ppm	0.0925 ppm
Concentration per Run 1	0.0102 ppm	0.0872 ppm	0.3527 ppm	0.7514 ppm	242.7525 ppm	14.5613 ppm	0.0945 ppm
Concentration per Run 2	0.0100 ppm	0.0867 ppm	0.3483 ppm	0.7467 ppm	243.5836 ppm	14.4347 ppm	0.0914 ppm
Concentration per Run 3	0.0101 ppm	0.0860 ppm	0.3463 ppm	0.7408 ppm	242.8299 ppm	14.4103 ppm	0.0916 ppm
Concentration RSD	0.8 %	0.7 %	0.9 %	0.7 %	0.2 %	0.6 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	47.5399 ppm	3.3812 ppm	0.0065 ppm	2.7823 ppm	0.2002 ppm	7.4019 ppm	0.0196 ppm
Concentration per Run 1	47.9503 ppm	3.3863 ppm	0.0061 ppm	2.7814 ppm	0.2020 ppm	7.4366 ppm	0.0157 ppm
Concentration per Run 2	47.4199 ppm	3.3831 ppm	0.0064 ppm	2.7932 ppm	0.1992 ppm	7.3731 ppm	0.0227 ppm
Concentration per Run 3	47.2496 ppm	3.3742 ppm	0.0068 ppm	2.7724 ppm	0.1994 ppm	7.3960 ppm	0.0205 ppm
Concentration RSD	0.8 %	0.2 %	5.6 %	0.4 %	0.8 %	0.4 %	18.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	3.0993 ppm	0.1089 ppm	0.1749 ppm	8.3211 ppm	0.0074 ppm	0.4167 ppm
Concentration per Run 1	0.0007 ppm	3.1647 ppm	0.1080 ppm	0.1741 ppm	8.4250 ppm	0.0074 ppm	0.4200 ppm
Concentration per Run 2	0.0021 ppm	3.0743 ppm	0.1087 ppm	0.1755 ppm	8.2958 ppm	0.0071 ppm	0.4167 ppm
Concentration per Run 3	0.0028 ppm	3.0588 ppm	0.1099 ppm	0.1751 ppm	8.2425 ppm	0.0077 ppm	0.4134 ppm
Concentration RSD	57.9 %	1.8 %	0.9 %	0.4 %	1.1 %	4.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.8837 ppm	104.9415 %	111.6878 %	89.7619 %	111.2196 %	122.8888 %	115.2167 %
Concentration per Run 1	3.9326 ppm	104.1581 %	111.6169 %	89.1619 %	111.3260 %	122.6156 %	115.0701 %
Concentration per Run 2	3.8615 ppm	105.4783 %	110.9480 %	90.4582 %	111.6648 %	122.4470 %	115.5939 %
Concentration per Run 3	3.8569 ppm	105.1882 %	112.4984 %	89.6655 %	110.6681 %	123.6038 %	114.9862 %
Concentration RSD	1.1 %	0.7 %	0.7 %	0.7 %	0.5 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 8:30:35 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4742 ppm	0.4782 ppm	0.4732 ppm	0.4670 ppm	0.5035 ppm	0.5067 ppm	0.4878 ppm
Concentration per Run 1	0.5098 ppm	0.4785 ppm	0.4814 ppm	0.4997 ppm	0.5015 ppm	0.5052 ppm	0.4911 ppm
Concentration per Run 2	0.4995 ppm	0.4867 ppm	0.4740 ppm	0.4943 ppm	0.5060 ppm	0.5067 ppm	0.4902 ppm
Concentration per Run 3	0.4132 ppm	0.4694 ppm	0.4641 ppm	0.4070 ppm	0.5030 ppm	0.5081 ppm	0.4819 ppm
Recovery Percentage 1	94.839 %	95.636 %	94.631 %	93.403 %	100.703 %	101.336 %	97.552 %
Concentration RSD	11.2 %	1.8 %	1.8 %	11.1 %	0.5 %	0.3 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4674 ppm	0.4804 ppm	0.4616 ppm	0.4671 ppm	0.5263 ppm	5.1654 ppm	0.4836 ppm
Concentration per Run 1	0.5019 ppm	0.5161 ppm	0.4977 ppm	0.5047 ppm	0.5288 ppm	5.1921 ppm	0.4769 ppm
Concentration per Run 2	0.4937 ppm	0.5082 ppm	0.4878 ppm	0.4932 ppm	0.5255 ppm	5.1932 ppm	0.4911 ppm
Concentration per Run 3	0.4065 ppm	0.4168 ppm	0.3994 ppm	0.4034 ppm	0.5247 ppm	5.1109 ppm	0.4829 ppm
Recovery Percentage 1	93.476 %	96.072 %	92.325 %	93.421 %	105.269 %	103.308 %	96.728 %
Concentration RSD	11.3 %	11.5 %	11.7 %	11.9 %	0.4 %	0.9 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4687 ppm	0.4912 ppm	0.4615 ppm	9.8624 ppm	0.4825 ppm	0.4977 ppm	0.4582 ppm
Concentration per Run 1	0.5044 ppm	0.4916 ppm	0.4912 ppm	9.8766 ppm	0.5211 ppm	0.5108 ppm	0.4914 ppm
Concentration per Run 2	0.4954 ppm	0.4925 ppm	0.4900 ppm	9.8716 ppm	0.5101 ppm	0.4932 ppm	0.4823 ppm
Concentration per Run 3	0.4064 ppm	0.4894 ppm	0.4035 ppm	9.8389 ppm	0.4164 ppm	0.4891 ppm	0.4010 ppm
Recovery Percentage 1	93.742 %	98.240 %	92.308 %	98.624 %	96.507 %	99.539 %	91.649 %
Concentration RSD	11.6 %	0.3 %	10.9 %	0.2 %	11.9 %	2.3 %	10.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4887 ppm	4.8524 ppm	0.4755 ppm	0.5047 ppm	0.4745 ppm	0.4943 ppm	0.4644 ppm
Concentration per Run 1	0.4995 ppm	5.2073 ppm	0.5116 ppm	0.5025 ppm	0.5126 ppm	0.5047 ppm	0.5010 ppm
Concentration per Run 2	0.4869 ppm	5.1196 ppm	0.5088 ppm	0.5053 ppm	0.5005 ppm	0.4935 ppm	0.4912 ppm
Concentration per Run 3	0.4796 ppm	4.2302 ppm	0.4062 ppm	0.5063 ppm	0.4105 ppm	0.4846 ppm	0.4010 ppm
Recovery Percentage 1	97.735 %	92.426 %	95.109 %	100.944 %	94.907 %	98.850 %	92.881 %
Concentration RSD	2.1 %	11.1 %	12.6 %	0.4 %	11.8 %	2.0 %	11.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4750 ppm	105.0252 %	103.9183 %	98.8125 %	102.7266 %	100.6635 %	95.8991 %
Concentration per Run 1	0.5126 ppm	97.5947 %	103.3847 %	96.6144 %	95.3396 %	100.7687 %	92.5318 %
Concentration per Run 2	0.5020 ppm	99.2718 %	103.6598 %	99.4031 %	95.7629 %	100.0140 %	97.1437 %
Concentration per Run 3	0.4105 ppm	118.2091 %	104.7104 %	100.4200 %	117.0774 %	101.2078 %	98.0218 %
Recovery Percentage 1	95.008 %						
Concentration RSD	11.8 %	10.9 %	0.7 %	2.0 %	12.1 %	0.6 %	3.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 8:34:35 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0023 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	-0.0003 ppm	-0.0028 ppm	0.0001 ppm	-0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	-0.0005 ppm	-0.0012 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 3	-0.0003 ppm	-0.0030 ppm	-0.0010 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0063 ppm
Recovery Percentage 1	-5.142 %	-2.346 %	5.087 %	-1.262 %	0.254 %	-0.182 %	5.850 %
Concentration RSD	28.9 %	42.2 %	750.4 %	220.5 %	836.0 %	379.2 %	36.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0008 ppm	0.0083 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0013 ppm	0.0098 ppm	0.0120 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0007 ppm	0.0005 ppm	0.0071 ppm	0.0102 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0008 ppm	0.0079 ppm	-0.0234 ppm	-0.0010 ppm
Recovery Percentage 1	0.726 %	1.470 %	-3.099 %	8.376 %	16.505 %	-0.015 %	-1.290 %
Concentration RSD	223.4 %	53.4 %	160.5 %	49.8 %	17.3 %	5,220.1 %	943.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0002 ppm	0.0014 ppm	-0.0379 ppm	-0.0007 ppm	-0.0003 ppm	0.0014 ppm
Concentration per Run 1	0.0022 ppm	0.0002 ppm	0.0015 ppm	-0.0342 ppm	-0.0003 ppm	-0.0005 ppm	0.0015 ppm
Concentration per Run 2	0.0004 ppm	0.0002 ppm	0.0012 ppm	-0.0406 ppm	-0.0009 ppm	-0.0006 ppm	0.0024 ppm
Concentration per Run 3	-0.0005 ppm	0.0003 ppm	0.0015 ppm	-0.0390 ppm	-0.0009 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	0.723 %	2.209 %	2.783 %	-1.896 %	-2.770 %	-3.295 %	2.769 %
Concentration RSD	191.2 %	19.1 %	13.5 %	8.7 %	47.5 %	121.7 %	75.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	-0.0011 ppm	0.0012 ppm	0.0001 ppm	0.0003 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0017 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	0.0006 ppm	-0.0028 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 3	0.0026 ppm	0.0013 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm
Recovery Percentage 1	10.304 %	-0.218 %	2.314 %	0.757 %	2.580 %	-6.322 %	-0.673 %
Concentration RSD	130.7 %	194.6 %	62.9 %	116.9 %	53.6 %	33.3 %	288.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	93.7472 %	99.2545 %	97.4561 %	96.9027 %	100.5752 %	99.5757 %
Concentration per Run 1	0.0012 ppm	91.8995 %	98.4945 %	96.7375 %	96.2747 %	100.3221 %	99.7283 %
Concentration per Run 2	0.0011 ppm	93.6913 %	99.2613 %	97.5048 %	97.0219 %	100.5736 %	99.6553 %
Concentration per Run 3	0.0013 ppm	95.6509 %	100.0077 %	98.1261 %	97.4114 %	100.8299 %	99.3436 %
Recovery Percentage 1	24.177 %						
Concentration RSD	7.0 %	2.0 %	0.8 %	0.7 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432305-09d2 WG1934051
Analysis started at: 6/14/2024 8:38:38 PM
Rack 3
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	94.8821 ppm	0.0477 ppm	0.0192 ppm	0.7380 ppm	0.0035 ppm	84.7425 ppm
Concentration per Run 1	-0.0003 ppm	95.0275 ppm	0.0481 ppm	0.0185 ppm	0.7384 ppm	0.0035 ppm	84.8265 ppm
Concentration per Run 2	-0.0002 ppm	94.5032 ppm	0.0482 ppm	0.0195 ppm	0.7394 ppm	0.0036 ppm	84.6827 ppm
Concentration per Run 3	0.0003 ppm	95.1155 ppm	0.0468 ppm	0.0196 ppm	0.7361 ppm	0.0034 ppm	84.7182 ppm
Concentration RSD	440.7 %	0.3 %	1.6 %	3.1 %	0.2 %	2.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.0746 ppm	0.2466 ppm	0.2678 ppm	199.3380 ppm	19.5326 ppm	0.0960 ppm
Concentration per Run 1	0.0030 ppm	0.0757 ppm	0.2484 ppm	0.2713 ppm	199.4720 ppm	19.6064 ppm	0.0986 ppm
Concentration per Run 2	0.0031 ppm	0.0750 ppm	0.2470 ppm	0.2684 ppm	200.0555 ppm	19.4827 ppm	0.0951 ppm
Concentration per Run 3	0.0030 ppm	0.0730 ppm	0.2444 ppm	0.2638 ppm	198.4867 ppm	19.5088 ppm	0.0944 ppm
Concentration RSD	3.2 %	1.9 %	0.8 %	1.4 %	0.4 %	0.3 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	46.3298 ppm	4.5133 ppm	0.0066 ppm	3.1772 ppm	0.1787 ppm	0.6621 ppm	0.0060 ppm
Concentration per Run 1	46.8837 ppm	4.5258 ppm	0.0067 ppm	3.1766 ppm	0.1822 ppm	0.6660 ppm	0.0038 ppm
Concentration per Run 2	46.3039 ppm	4.4984 ppm	0.0065 ppm	3.1862 ppm	0.1791 ppm	0.6579 ppm	0.0065 ppm
Concentration per Run 3	45.8017 ppm	4.5158 ppm	0.0066 ppm	3.1689 ppm	0.1748 ppm	0.6625 ppm	0.0076 ppm
Concentration RSD	1.2 %	0.3 %	1.9 %	0.3 %	2.1 %	0.6 %	32.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	6.4897 ppm	0.0097 ppm	0.6406 ppm	6.8748 ppm	0.0057 ppm	0.3305 ppm
Concentration per Run 1	-0.0017 ppm	6.6088 ppm	0.0094 ppm	0.6406 ppm	6.9850 ppm	0.0067 ppm	0.3345 ppm
Concentration per Run 2	-0.0011 ppm	6.5302 ppm	0.0098 ppm	0.6427 ppm	6.8559 ppm	0.0057 ppm	0.3304 ppm
Concentration per Run 3	-0.0018 ppm	6.3303 ppm	0.0099 ppm	0.6383 ppm	6.7833 ppm	0.0046 ppm	0.3266 ppm
Concentration RSD	23.6 %	2.2 %	2.7 %	0.3 %	1.5 %	19.0 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5921 ppm	104.0402 %	110.7381 %	90.0176 %	109.6487 %	121.5296 %	113.7248 %
Concentration per Run 1	0.6040 ppm	103.0859 %	109.8178 %	89.5950 %	109.8892 %	120.6024 %	113.6902 %
Concentration per Run 2	0.5938 ppm	103.5146 %	110.9258 %	90.6208 %	108.9522 %	121.7161 %	114.4169 %
Concentration per Run 3	0.5785 ppm	105.5200 %	111.4707 %	89.8368 %	110.1047 %	122.2702 %	113.0673 %
Concentration RSD	2.2 %	1.2 %	0.8 %	0.6 %	0.6 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432305-10d2 WG1934051
Analysis started at: 6/14/2024 8:42:39 PM
Rack 3
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	177.4769 ppm	0.0483 ppm	0.0155 ppm	0.5975 ppm	0.0049 ppm	11.8219 ppm
Concentration per Run 1	0.0000 ppm	176.4253 ppm	0.0489 ppm	0.0159 ppm	0.5958 ppm	0.0050 ppm	11.8520 ppm
Concentration per Run 2	0.0001 ppm	176.6770 ppm	0.0480 ppm	0.0157 ppm	0.5991 ppm	0.0051 ppm	11.7757 ppm
Concentration per Run 3	0.0000 ppm	179.3284 ppm	0.0478 ppm	0.0149 ppm	0.5977 ppm	0.0048 ppm	11.8380 ppm
Concentration RSD	254.5 %	0.9 %	1.2 %	3.3 %	0.3 %	3.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0871 ppm	0.2905 ppm	0.1427 ppm	278.9534 ppm	9.0142 ppm	0.1237 ppm
Concentration per Run 1	0.0011 ppm	0.0885 ppm	0.2933 ppm	0.1443 ppm	278.2766 ppm	8.9104 ppm	0.1233 ppm
Concentration per Run 2	0.0014 ppm	0.0869 ppm	0.2893 ppm	0.1429 ppm	279.8916 ppm	8.9665 ppm	0.1222 ppm
Concentration per Run 3	0.0009 ppm	0.0860 ppm	0.2888 ppm	0.1409 ppm	278.6921 ppm	9.1658 ppm	0.1256 ppm
Concentration RSD	20.1 %	1.5 %	0.9 %	1.2 %	0.3 %	1.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.8667 ppm	1.4881 ppm	0.0059 ppm	2.4816 ppm	0.1639 ppm	0.1052 ppm	0.0024 ppm
Concentration per Run 1	39.4540 ppm	1.4883 ppm	0.0055 ppm	2.4989 ppm	0.1665 ppm	0.1059 ppm	0.0016 ppm
Concentration per Run 2	38.6370 ppm	1.4830 ppm	0.0064 ppm	2.4847 ppm	0.1637 ppm	0.1046 ppm	0.0044 ppm
Concentration per Run 3	38.5090 ppm	1.4929 ppm	0.0057 ppm	2.4614 ppm	0.1613 ppm	0.1051 ppm	0.0011 ppm
Concentration RSD	1.3 %	0.3 %	8.1 %	0.8 %	1.6 %	0.6 %	74.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	2.6678 ppm	0.0083 ppm	0.1239 ppm	6.4980 ppm	0.0065 ppm	0.3899 ppm
Concentration per Run 1	0.0023 ppm	2.7292 ppm	0.0081 ppm	0.1241 ppm	6.5942 ppm	0.0056 ppm	0.3956 ppm
Concentration per Run 2	-0.0001 ppm	2.6459 ppm	0.0085 ppm	0.1249 ppm	6.4774 ppm	0.0072 ppm	0.3867 ppm
Concentration per Run 3	0.0059 ppm	2.6282 ppm	0.0084 ppm	0.1227 ppm	6.4223 ppm	0.0067 ppm	0.3876 ppm
Concentration RSD	112.5 %	2.0 %	2.0 %	0.9 %	1.4 %	12.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3928 ppm	109.9810 %	116.8488 %	95.1615 %	108.4918 %	120.6281 %	113.4843 %
Concentration per Run 1	0.4006 ppm	108.3887 %	116.7842 %	95.1435 %	107.7384 %	120.8029 %	113.9009 %
Concentration per Run 2	0.3914 ppm	110.6409 %	116.4157 %	94.8765 %	109.0098 %	120.2338 %	112.7798 %
Concentration per Run 3	0.3865 ppm	110.9133 %	117.3466 %	95.4644 %	108.7273 %	120.8477 %	113.7721 %
Concentration RSD	1.8 %	1.3 %	0.4 %	0.3 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432330-03d2 WG1934051
Analysis started at: 6/14/2024 8:46:40 PM
Rack 3
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	120.0456 ppm	0.0528 ppm	0.0402 ppm	1.3790 ppm	0.0071 ppm	222.0976 ppm
Concentration per Run 1	-0.0001 ppm	119.2855 ppm	0.0551 ppm	0.0425 ppm	1.3665 ppm	0.0071 ppm	222.5589 ppm
Concentration per Run 2	-0.0003 ppm	120.2993 ppm	0.0511 ppm	0.0408 ppm	1.3841 ppm	0.0071 ppm	221.8175 ppm
Concentration per Run 3	0.0001 ppm	120.5519 ppm	0.0524 ppm	0.0373 ppm	1.3866 ppm	0.0070 ppm	221.9165 ppm
Concentration RSD	204.4 %	0.6 %	3.9 %	6.7 %	0.8 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1186 ppm	0.2794 ppm	0.2081 ppm	266.6737 ppm	24.1004 ppm	0.1846 ppm
Concentration per Run 1	0.0017 ppm	0.1191 ppm	0.2809 ppm	0.2095 ppm	266.1556 ppm	24.1084 ppm	0.1862 ppm
Concentration per Run 2	0.0016 ppm	0.1188 ppm	0.2797 ppm	0.2078 ppm	266.5568 ppm	24.0405 ppm	0.1819 ppm
Concentration per Run 3	0.0016 ppm	0.1178 ppm	0.2777 ppm	0.2071 ppm	267.3088 ppm	24.1524 ppm	0.1857 ppm
Concentration RSD	3.3 %	0.6 %	0.6 %	0.6 %	0.2 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	82.2800 ppm	4.7323 ppm	0.0031 ppm	2.0935 ppm	0.2778 ppm	0.1368 ppm	0.0066 ppm
Concentration per Run 1	82.9019 ppm	4.7126 ppm	0.0032 ppm	2.1001 ppm	0.2782 ppm	0.1368 ppm	0.0043 ppm
Concentration per Run 2	82.3214 ppm	4.7381 ppm	0.0029 ppm	2.0874 ppm	0.2793 ppm	0.1373 ppm	0.0094 ppm
Concentration per Run 3	81.6166 ppm	4.7460 ppm	0.0033 ppm	2.0930 ppm	0.2758 ppm	0.1363 ppm	0.0061 ppm
Concentration RSD	0.8 %	0.4 %	5.8 %	0.3 %	0.6 %	0.4 %	38.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	9.2623 ppm	0.0077 ppm	1.2211 ppm	6.2529 ppm	0.0053 ppm	0.3335 ppm
Concentration per Run 1	-0.0029 ppm	9.4108 ppm	0.0084 ppm	1.2208 ppm	6.2750 ppm	0.0034 ppm	0.3342 ppm
Concentration per Run 2	-0.0051 ppm	9.2784 ppm	0.0066 ppm	1.2264 ppm	6.2672 ppm	0.0070 ppm	0.3338 ppm
Concentration per Run 3	-0.0010 ppm	9.0979 ppm	0.0082 ppm	1.2161 ppm	6.2165 ppm	0.0055 ppm	0.3326 ppm
Concentration RSD	68.4 %	1.7 %	13.1 %	0.4 %	0.5 %	33.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6403 ppm	103.7972 %	112.0871 %	87.4096 %	122.5285 %	139.4208 %	127.2433 %
Concentration per Run 1	0.6397 ppm	102.4504 %	111.9014 %	87.7556 %	121.6550 %	139.8777 %	128.1696 %
Concentration per Run 2	0.6454 ppm	103.9864 %	112.4410 %	87.3002 %	122.4328 %	139.4627 %	126.6292 %
Concentration per Run 3	0.6359 ppm	104.9548 %	111.9189 %	87.1728 %	123.4977 %	138.9220 %	126.9311 %
Concentration RSD	0.7 %	1.2 %	0.3 %	0.4 %	0.8 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430310-05d4 WG1934051
Analysis started at: 6/14/2024 8:50:40 PM
Rack 3
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0038 ppm	18.5567 ppm	0.0234 ppm	0.0266 ppm	1.0510 ppm	0.0018 ppm	176.6140 ppm
Concentration per Run 1	0.0042 ppm	18.4860 ppm	0.0233 ppm	0.0272 ppm	1.0471 ppm	0.0017 ppm	176.7204 ppm
Concentration per Run 2	0.0036 ppm	18.6217 ppm	0.0238 ppm	0.0250 ppm	1.0562 ppm	0.0018 ppm	176.8236 ppm
Concentration per Run 3	0.0036 ppm	18.5624 ppm	0.0232 ppm	0.0275 ppm	1.0498 ppm	0.0018 ppm	176.2979 ppm
Concentration RSD	9.2 %	0.4 %	1.4 %	5.1 %	0.4 %	2.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0035 ppm	0.0148 ppm	0.0543 ppm	**24.8280 ppm**	89.8484 ppm	2.0513 ppm	0.0305 ppm
Concentration per Run 1	0.0036 ppm	0.0153 ppm	0.0551 ppm	25.1835 ppm	89.7560 ppm	2.0663 ppm	0.0323 ppm
Concentration per Run 2	0.0035 ppm	0.0149 ppm	0.0542 ppm	24.7181 ppm	90.1105 ppm	2.0563 ppm	0.0300 ppm
Concentration per Run 3	0.0033 ppm	0.0143 ppm	0.0537 ppm	24.5823 ppm	89.6787 ppm	2.0313 ppm	0.0293 ppm
Concentration RSD	3.5 %	3.3 %	1.4 %	1.3 %	0.3 %	0.9 %	5.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.1180 ppm	1.1004 ppm	0.0071 ppm	0.8457 ppm	0.0541 ppm	1.7135 ppm	0.0119 ppm
Concentration per Run 1	44.7620 ppm	1.1005 ppm	0.0070 ppm	0.8486 ppm	0.0567 ppm	1.7146 ppm	0.0131 ppm
Concentration per Run 2	44.0760 ppm	1.1026 ppm	0.0068 ppm	0.8447 ppm	0.0532 ppm	1.7197 ppm	0.0116 ppm
Concentration per Run 3	43.5161 ppm	1.0983 ppm	0.0074 ppm	0.8439 ppm	0.0523 ppm	1.7062 ppm	0.0109 ppm
Concentration RSD	1.4 %	0.2 %	4.8 %	0.3 %	4.3 %	0.4 %	9.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	5.1975 ppm	0.0234 ppm	0.6626 ppm	1.0742 ppm	-0.0007 ppm	0.0604 ppm
Concentration per Run 1	-0.0026 ppm	5.2915 ppm	0.0236 ppm	0.6639 ppm	1.0849 ppm	-0.0010 ppm	0.0610 ppm
Concentration per Run 2	-0.0019 ppm	5.1848 ppm	0.0230 ppm	0.6627 ppm	1.0755 ppm	-0.0010 ppm	0.0602 ppm
Concentration per Run 3	0.0007 ppm	5.1162 ppm	0.0236 ppm	0.6612 ppm	1.0622 ppm	-0.0002 ppm	0.0599 ppm
Concentration RSD	140.1 %	1.7 %	1.6 %	0.2 %	1.1 %	62.0 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.9422 ppm	96.5235 %	104.5158 %	91.0530 %	102.0446 %	112.9080 %	103.8614 %
Concentration per Run 1	9.0907 ppm	95.0251 %	104.8275 %	91.1220 %	101.6899 %	113.4598 %	104.3549 %
Concentration per Run 2	8.9200 ppm	96.7235 %	104.3814 %	90.9653 %	101.8545 %	112.9098 %	103.7986 %
Concentration per Run 3	8.8158 ppm	97.8219 %	104.3384 %	91.0717 %	102.5895 %	112.3542 %	103.4308 %
Concentration RSD	1.6 %	1.5 %	0.3 %	0.1 %	0.5 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: zWG1934051-6d10 WG1934051
Analysis started at: 6/14/2024 8:54:53 PM
Rack 4
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	38.8395 ppm	0.0135 ppm	0.0030 ppm	0.1543 ppm	0.0017 ppm	1.4745 ppm
Concentration per Run 1	-0.0004 ppm	39.0031 ppm	0.0127 ppm	0.0031 ppm	0.1541 ppm	0.0018 ppm	1.4758 ppm
Concentration per Run 2	0.0002 ppm	38.7456 ppm	0.0133 ppm	0.0042 ppm	0.1548 ppm	0.0017 ppm	1.4718 ppm
Concentration per Run 3	-0.0003 ppm	38.7699 ppm	0.0145 ppm	0.0018 ppm	0.1540 ppm	0.0018 ppm	1.4758 ppm
Concentration RSD	234.9 %	0.4 %	6.4 %	39.2 %	0.3 %	3.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0555 ppm	0.0867 ppm	0.0650 ppm	72.1060 ppm	0.5060 ppm	0.0095 ppm
Concentration per Run 1	0.0002 ppm	0.0561 ppm	0.0880 ppm	0.0664 ppm	72.0133 ppm	0.5224 ppm	0.0114 ppm
Concentration per Run 2	0.0002 ppm	0.0559 ppm	0.0861 ppm	0.0650 ppm	72.1880 ppm	0.4856 ppm	0.0084 ppm
Concentration per Run 3	0.0001 ppm	0.0545 ppm	0.0860 ppm	0.0638 ppm	72.1166 ppm	0.5100 ppm	0.0086 ppm
Concentration RSD	17.8 %	1.5 %	1.3 %	2.0 %	0.1 %	3.7 %	17.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6898 ppm	1.3246 ppm	0.0017 ppm	0.8857 ppm	0.0635 ppm	0.0384 ppm	-0.0006 ppm
Concentration per Run 1	1.7171 ppm	1.3253 ppm	0.0018 ppm	0.8852 ppm	0.0650 ppm	0.0386 ppm	-0.0028 ppm
Concentration per Run 2	1.6864 ppm	1.3274 ppm	0.0013 ppm	0.8853 ppm	0.0635 ppm	0.0383 ppm	-0.0003 ppm
Concentration per Run 3	1.6660 ppm	1.3210 ppm	0.0019 ppm	0.8865 ppm	0.0620 ppm	0.0383 ppm	0.0013 ppm
Concentration RSD	1.5 %	0.2 %	20.9 %	0.1 %	2.3 %	0.4 %	349.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.6290 ppm	0.0023 ppm	0.0187 ppm	1.0449 ppm	-0.0011 ppm	0.1169 ppm
Concentration per Run 1	-0.0027 ppm	0.6427 ppm	0.0025 ppm	0.0186 ppm	1.0624 ppm	-0.0006 ppm	0.1185 ppm
Concentration per Run 2	0.0013 ppm	0.6278 ppm	0.0018 ppm	0.0187 ppm	1.0419 ppm	-0.0008 ppm	0.1156 ppm
Concentration per Run 3	-0.0010 ppm	0.6166 ppm	0.0028 ppm	0.0188 ppm	1.0305 ppm	-0.0019 ppm	0.1166 ppm
Concentration RSD	252.3 %	2.1 %	21.3 %	0.7 %	1.5 %	59.3 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0556 ppm	104.3285 %	110.2668 %	101.8831 %	102.6144 %	110.8815 %	105.9825 %
Concentration per Run 1	0.0567 ppm	102.5015 %	109.5502 %	101.8636 %	102.3745 %	110.0307 %	106.4474 %
Concentration per Run 2	0.0555 ppm	104.3217 %	111.0105 %	101.4724 %	102.3149 %	111.8795 %	105.7136 %
Concentration per Run 3	0.0546 ppm	106.1624 %	110.2396 %	102.3133 %	103.1536 %	110.7345 %	105.7864 %
Concentration RSD	1.9 %	1.8 %	0.7 %	0.4 %	0.5 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 8:59:00 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4986 ppm	0.4792 ppm	0.4622 ppm	0.4880 ppm	0.4995 ppm	0.5023 ppm	0.4861 ppm
Concentration per Run 1	0.5048 ppm	0.4850 ppm	0.4642 ppm	0.4930 ppm	0.5027 ppm	0.5024 ppm	0.4839 ppm
Concentration per Run 2	0.4981 ppm	0.4854 ppm	0.4606 ppm	0.4885 ppm	0.4984 ppm	0.5029 ppm	0.4872 ppm
Concentration per Run 3	0.4928 ppm	0.4671 ppm	0.4617 ppm	0.4824 ppm	0.4975 ppm	0.5016 ppm	0.4872 ppm
Recovery Percentage 1	99.718 %	95.835 %	92.435 %	97.592 %	99.909 %	100.467 %	97.218 %
Concentration RSD	1.2 %	2.2 %	0.4 %	1.1 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4930 ppm	0.5060 ppm	0.4861 ppm	0.4911 ppm	0.5123 ppm	5.0814 ppm	0.4799 ppm
Concentration per Run 1	0.4994 ppm	0.5134 ppm	0.4914 ppm	0.5001 ppm	0.5156 ppm	5.1097 ppm	0.4836 ppm
Concentration per Run 2	0.4926 ppm	0.5061 ppm	0.4860 ppm	0.4902 ppm	0.5084 ppm	5.0958 ppm	0.4822 ppm
Concentration per Run 3	0.4869 ppm	0.4985 ppm	0.4809 ppm	0.4831 ppm	0.5127 ppm	5.0386 ppm	0.4739 ppm
Recovery Percentage 1	98.594 %	101.195 %	97.217 %	98.224 %	102.452 %	101.628 %	95.978 %
Concentration RSD	1.3 %	1.5 %	1.1 %	1.7 %	0.7 %	0.7 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4936 ppm	0.4877 ppm	0.4857 ppm	9.7866 ppm	0.5079 ppm	0.4845 ppm	0.4840 ppm
Concentration per Run 1	0.5010 ppm	0.4890 ppm	0.4832 ppm	9.7925 ppm	0.5143 ppm	0.4858 ppm	0.4883 ppm
Concentration per Run 2	0.4933 ppm	0.4871 ppm	0.4877 ppm	9.7720 ppm	0.5066 ppm	0.4839 ppm	0.4833 ppm
Concentration per Run 3	0.4864 ppm	0.4871 ppm	0.4863 ppm	9.7952 ppm	0.5028 ppm	0.4839 ppm	0.4804 ppm
Recovery Percentage 1	98.715 %	97.548 %	97.147 %	97.866 %	101.581 %	96.907 %	96.802 %
Concentration RSD	1.5 %	0.2 %	0.5 %	0.1 %	1.1 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4762 ppm	5.1159 ppm	0.5101 ppm	0.5023 ppm	0.4986 ppm	0.4808 ppm	0.4877 ppm
Concentration per Run 1	0.4769 ppm	5.1704 ppm	0.5053 ppm	0.5044 ppm	0.5055 ppm	0.4842 ppm	0.4949 ppm
Concentration per Run 2	0.4763 ppm	5.1153 ppm	0.5103 ppm	0.5016 ppm	0.4974 ppm	0.4798 ppm	0.4868 ppm
Concentration per Run 3	0.4754 ppm	5.0619 ppm	0.5146 ppm	0.5010 ppm	0.4928 ppm	0.4785 ppm	0.4815 ppm
Recovery Percentage 1	95.243 %	97.445 %	102.012 %	100.464 %	99.713 %	96.166 %	97.546 %
Concentration RSD	0.2 %	1.1 %	0.9 %	0.4 %	1.3 %	0.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5002 ppm	99.2873 %	103.8849 %	101.4034 %	95.2339 %	100.3159 %	98.5470 %
Concentration per Run 1	0.5043 ppm	98.3279 %	103.9438 %	100.8521 %	95.6249 %	100.4582 %	98.5818 %
Concentration per Run 2	0.4991 ppm	99.0628 %	103.5665 %	101.3719 %	94.9814 %	100.0489 %	98.5969 %
Concentration per Run 3	0.4970 ppm	100.4710 %	104.1445 %	101.9863 %	95.0953 %	100.4407 %	98.4621 %
Recovery Percentage 1	100.030 %						
Concentration RSD	0.8 %	1.1 %	0.3 %	0.6 %	0.4 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 9:02:59 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0008 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 1	-0.0002 ppm	0.0067 ppm	0.0022 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 2	-0.0004 ppm	-0.0041 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 3	-0.0001 ppm	-0.0023 ppm	0.0000 ppm	-0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0022 ppm
Recovery Percentage 1	-3.073 %	0.094 %	25.209 %	-1.134 %	1.603 %	0.777 %	5.740 %
Concentration RSD	84.6 %	6,216.5 %	168.6 %	288.1 %	25.2 %	206.3 %	52.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0085 ppm	-0.0106 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0083 ppm	-0.0165 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0102 ppm	-0.0285 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0069 ppm	0.0133 ppm	-0.0004 ppm
Recovery Percentage 1	0.007 %	0.611 %	2.144 %	8.187 %	16.936 %	-0.424 %	4.504 %
Concentration RSD	11,757.2 %	188.8 %	18.7 %	26.4 %	19.3 %	203.0 %	173.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	0.0002 ppm	0.0017 ppm	-0.0362 ppm	-0.0001 ppm	-0.0009 ppm	0.0017 ppm
Concentration per Run 1	0.0034 ppm	0.0001 ppm	0.0016 ppm	-0.0423 ppm	-0.0005 ppm	-0.0006 ppm	0.0013 ppm
Concentration per Run 2	0.0010 ppm	0.0003 ppm	0.0017 ppm	-0.0353 ppm	0.0006 ppm	-0.0010 ppm	0.0033 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0017 ppm	-0.0309 ppm	-0.0003 ppm	-0.0012 ppm	0.0006 ppm
Recovery Percentage 1	1.696 %	2.041 %	3.302 %	-1.809 %	-0.208 %	-9.259 %	3.470 %
Concentration RSD	87.4 %	57.2 %	3.6 %	15.9 %	1,160.6 %	31.9 %	79.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0018 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.0012 ppm	-0.0014 ppm	0.0005 ppm	-0.0001 ppm	0.0004 ppm	-0.0017 ppm	0.0002 ppm
Concentration per Run 2	0.0005 ppm	-0.0023 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	-0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	8.402 %	-0.360 %	1.261 %	-0.121 %	2.011 %	-6.302 %	0.068 %
Concentration RSD	46.2 %	26.9 %	19.0 %	577.8 %	128.6 %	43.9 %	3,051.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	94.0467 %	99.3057 %	97.9845 %	96.7594 %	100.6713 %	99.6760 %
Concentration per Run 1	0.0012 ppm	92.3134 %	99.1167 %	97.0880 %	96.4425 %	100.7098 %	99.7025 %
Concentration per Run 2	0.0013 ppm	94.2041 %	99.1652 %	97.8420 %	96.6796 %	100.4602 %	99.4266 %
Concentration per Run 3	0.0010 ppm	95.6226 %	99.6351 %	99.0235 %	97.1561 %	100.8439 %	99.8988 %
Recovery Percentage 1	22.743 %						
Concentration RSD	14.1 %	1.8 %	0.3 %	1.0 %	0.4 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934242-1 WG1934242
Analysis started at: 6/14/2024 9:11:25 PM
Rack 3
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0031 ppm	0.0022 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0197 ppm
Concentration per Run 1	0.0000 ppm	0.0052 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0210 ppm
Concentration per Run 2	0.0002 ppm	0.0038 ppm	0.0029 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0190 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0023 ppm	-0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0191 ppm
Recovery Percentage 1	-0.303 %	3.076 %	73.187 %	-2.757 %	0.068 %	-0.785 %	19.721 %
Concentration RSD	858.3 %	83.6 %	37.0 %	92.1 %	1,656.7 %	53.2 %	5.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0253 ppm	-0.0051 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0251 ppm	0.0029 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0002 ppm	-0.0002 ppm	0.0259 ppm	-0.0098 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0250 ppm	-0.0085 ppm	0.0012 ppm
Recovery Percentage 1	-0.958 %	0.644 %	2.287 %	0.495 %	50.681 %	-0.204 %	6.382 %
Concentration RSD	75.3 %	215.9 %	165.8 %	377.2 %	2.1 %	136.3 %	78.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0063 ppm	0.0006 ppm	0.0004 ppm	-0.0293 ppm	0.0000 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 1	0.0068 ppm	0.0009 ppm	0.0003 ppm	-0.0281 ppm	-0.0001 ppm	-0.0001 ppm	-0.0013 ppm
Concentration per Run 2	0.0062 ppm	0.0005 ppm	0.0003 ppm	-0.0289 ppm	-0.0002 ppm	-0.0006 ppm	0.0033 ppm
Concentration per Run 3	0.0059 ppm	0.0004 ppm	0.0005 ppm	-0.0309 ppm	0.0004 ppm	-0.0002 ppm	0.0030 ppm
Recovery Percentage 1	6.302 %	6.126 %	0.750 %	-1.465 %	0.169 %	-3.018 %	3.326 %
Concentration RSD	7.8 %	37.0 %	38.2 %	4.9 %	769.2 %	84.9 %	156.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0038 ppm	0.0021 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0019 ppm	0.0056 ppm	0.0030 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	0.0036 ppm	0.0020 ppm	0.0000 ppm	0.0006 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0022 ppm	0.0015 ppm	-0.0001 ppm	0.0003 ppm	-0.0016 ppm	-0.0001 ppm
Recovery Percentage 1	10.413 %	0.763 %	4.294 %	-0.064 %	5.382 %	0.521 %	-1.051 %
Concentration RSD	82.9 %	45.1 %	34.7 %	895.1 %	36.1 %	1,392.6 %	13.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	121.6714 %	107.0749 %	110.9037 %	98.1557 %	100.1899 %	100.0397 %
Concentration per Run 1	0.0008 ppm	125.4843 %	107.6581 %	112.5299 %	97.5893 %	100.3330 %	99.8974 %
Concentration per Run 2	0.0008 ppm	121.4055 %	107.3197 %	110.6282 %	98.3675 %	100.5533 %	100.0409 %
Concentration per Run 3	0.0009 ppm	118.1245 %	106.2470 %	109.5530 %	98.5102 %	99.6833 %	100.1806 %
Recovery Percentage 1	16.760 %						
Concentration RSD	8.5 %	3.0 %	0.7 %	1.4 %	0.5 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934242-2d2 WG1934242
Analysis started at: 6/14/2024 9:15:47 PM
Rack 3
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0475 ppm	1.9369 ppm	0.1145 ppm	0.9232 ppm	1.9785 ppm	0.0492 ppm	9.8864 ppm
Concentration per Run 1	0.0477 ppm	1.9465 ppm	0.1160 ppm	0.9332 ppm	1.9785 ppm	0.0492 ppm	9.9202 ppm
Concentration per Run 2	0.0474 ppm	1.9307 ppm	0.1133 ppm	0.9196 ppm	1.9845 ppm	0.0494 ppm	9.8949 ppm
Concentration per Run 3	0.0474 ppm	1.9335 ppm	0.1143 ppm	0.9169 ppm	1.9726 ppm	0.0490 ppm	9.8441 ppm
Concentration RSD	0.4 %	0.4 %	1.2 %	0.9 %	0.3 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.4759 ppm	0.1877 ppm	0.2416 ppm	1.0094 ppm	10.0939 ppm	0.0008 ppm
Concentration per Run 1	0.0513 ppm	0.4802 ppm	0.1886 ppm	0.2436 ppm	1.0149 ppm	10.1541 ppm	-0.0012 ppm
Concentration per Run 2	0.0502 ppm	0.4734 ppm	0.1876 ppm	0.2406 ppm	1.0096 ppm	10.0791 ppm	0.0018 ppm
Concentration per Run 3	0.0505 ppm	0.4742 ppm	0.1868 ppm	0.2405 ppm	1.0036 ppm	10.0483 ppm	0.0018 ppm
Concentration RSD	1.1 %	0.8 %	0.5 %	0.7 %	0.6 %	0.5 %	225.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5005 ppm	0.4905 ppm	0.9812 ppm	9.8870 ppm	0.4814 ppm	0.5191 ppm	0.4793 ppm
Concentration per Run 1	9.5843 ppm	0.4919 ppm	0.9766 ppm	9.9154 ppm	0.4840 ppm	0.5189 ppm	0.4783 ppm
Concentration per Run 2	9.4966 ppm	0.4905 ppm	0.9797 ppm	9.9276 ppm	0.4816 ppm	0.5196 ppm	0.4766 ppm
Concentration per Run 3	9.4205 ppm	0.4892 ppm	0.9872 ppm	9.8181 ppm	0.4787 ppm	0.5188 ppm	0.4830 ppm
Concentration RSD	0.9 %	0.3 %	0.6 %	0.6 %	0.6 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1119 ppm	0.9335 ppm	0.9848 ppm	0.9677 ppm	0.9734 ppm	0.1149 ppm	0.4809 ppm
Concentration per Run 1	0.1135 ppm	0.9389 ppm	0.9818 ppm	0.9639 ppm	0.9802 ppm	0.1153 ppm	0.4860 ppm
Concentration per Run 2	0.1117 ppm	0.9285 ppm	0.9860 ppm	0.9759 ppm	0.9722 ppm	0.1152 ppm	0.4783 ppm
Concentration per Run 3	0.1104 ppm	0.9331 ppm	0.9867 ppm	0.9632 ppm	0.9679 ppm	0.1143 ppm	0.4785 ppm
Concentration RSD	1.4 %	0.6 %	0.3 %	0.7 %	0.6 %	0.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4777 ppm	100.0576 %	103.1885 %	97.9624 %	93.0884 %	98.5264 %	96.1218 %
Concentration per Run 1	0.4809 ppm	98.9947 %	103.1163 %	97.6623 %	92.8584 %	98.6188 %	96.0175 %
Concentration per Run 2	0.4774 ppm	99.8816 %	102.6384 %	98.1005 %	92.7477 %	98.2618 %	96.3071 %
Concentration per Run 3	0.4747 ppm	101.2964 %	103.8107 %	98.1245 %	93.6592 %	98.6985 %	96.0409 %
Concentration RSD	0.7 %	1.2 %	0.6 %	0.3 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-02d2 WG1934242
Analysis started at: 6/14/2024 9:19:52 PM
Rack 3
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	116.2776 ppm	0.0597 ppm	0.0175 ppm	0.2677 ppm	0.0021 ppm	4.6871 ppm
Concentration per Run 1	0.0003 ppm	117.1457 ppm	0.0597 ppm	0.0180 ppm	0.2684 ppm	0.0021 ppm	4.7040 ppm
Concentration per Run 2	0.0003 ppm	116.8221 ppm	0.0611 ppm	0.0178 ppm	0.2683 ppm	0.0021 ppm	4.6823 ppm
Concentration per Run 3	-0.0003 ppm	114.8650 ppm	0.0582 ppm	0.0168 ppm	0.2664 ppm	0.0022 ppm	4.6750 ppm
Concentration RSD	281.3 %	1.1 %	2.5 %	3.6 %	0.4 %	2.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0094 ppm	0.2420 ppm	0.0349 ppm	100.0061 ppm	7.2477 ppm	0.0529 ppm
Concentration per Run 1	0.0007 ppm	0.0097 ppm	0.2436 ppm	0.0359 ppm	100.4159 ppm	7.3420 ppm	0.0567 ppm
Concentration per Run 2	0.0005 ppm	0.0092 ppm	0.2416 ppm	0.0343 ppm	99.9149 ppm	7.3411 ppm	0.0536 ppm
Concentration per Run 3	0.0006 ppm	0.0093 ppm	0.2409 ppm	0.0344 ppm	99.6876 ppm	7.0601 ppm	0.0485 ppm
Concentration RSD	13.4 %	3.0 %	0.6 %	2.7 %	0.4 %	2.2 %	7.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8847 ppm	0.2316 ppm	0.0059 ppm	0.8481 ppm	0.0899 ppm	0.0879 ppm	0.0032 ppm
Concentration per Run 1	6.9780 ppm	0.2327 ppm	0.0059 ppm	0.8435 ppm	0.0911 ppm	0.0875 ppm	0.0038 ppm
Concentration per Run 2	6.8619 ppm	0.2315 ppm	0.0058 ppm	0.8448 ppm	0.0888 ppm	0.0884 ppm	0.0030 ppm
Concentration per Run 3	6.8144 ppm	0.2306 ppm	0.0058 ppm	0.8562 ppm	0.0898 ppm	0.0877 ppm	0.0029 ppm
Concentration RSD	1.2 %	0.5 %	1.4 %	0.8 %	1.3 %	0.5 %	14.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0043 ppm	2.1044 ppm	0.0045 ppm	0.0448 ppm	0.1887 ppm	0.0017 ppm	0.3625 ppm
Concentration per Run 1	0.0047 ppm	2.1584 ppm	0.0046 ppm	0.0446 ppm	0.1894 ppm	0.0001 ppm	0.3670 ppm
Concentration per Run 2	0.0018 ppm	2.0440 ppm	0.0055 ppm	0.0449 ppm	0.1864 ppm	0.0037 ppm	0.3625 ppm
Concentration per Run 3	0.0063 ppm	2.1107 ppm	0.0034 ppm	0.0449 ppm	0.1902 ppm	0.0013 ppm	0.3581 ppm
Concentration RSD	52.7 %	2.7 %	24.1 %	0.4 %	1.1 %	107.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0273 ppm	101.4342 %	108.8619 %	98.1443 %	96.3829 %	106.7025 %	101.2616 %
Concentration per Run 1	1.0468 ppm	99.7251 %	108.1658 %	97.9181 %	95.7522 %	105.9137 %	101.1560 %
Concentration per Run 2	1.0132 ppm	101.9970 %	108.3926 %	98.2085 %	96.9587 %	105.9139 %	101.1662 %
Concentration per Run 3	1.0218 ppm	102.5805 %	110.0274 %	98.3064 %	96.4378 %	108.2800 %	101.4626 %
Concentration RSD	1.7 %	1.5 %	0.9 %	0.2 %	0.6 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-03d2 WG1934242
Analysis started at: 6/14/2024 9:23:53 PM
Rack 3
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	28.8597 ppm	0.0667 ppm	0.0566 ppm	0.2335 ppm	0.0034 ppm	28.6599 ppm
Concentration per Run 1	0.0018 ppm	28.8373 ppm	0.0675 ppm	0.0574 ppm	0.2330 ppm	0.0034 ppm	28.6947 ppm
Concentration per Run 2	0.0024 ppm	28.8052 ppm	0.0676 ppm	0.0572 ppm	0.2339 ppm	0.0034 ppm	28.5863 ppm
Concentration per Run 3	0.0019 ppm	28.9366 ppm	0.0649 ppm	0.0552 ppm	0.2335 ppm	0.0034 ppm	28.6987 ppm
Concentration RSD	15.9 %	0.2 %	2.3 %	2.1 %	0.2 %	1.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0057 ppm	0.0149 ppm	0.1893 ppm	0.3016 ppm	139.9548 ppm	7.6723 ppm	0.0177 ppm
Concentration per Run 1	0.0057 ppm	0.0149 ppm	0.1919 ppm	0.3055 ppm	139.7623 ppm	7.7157 ppm	0.0187 ppm
Concentration per Run 2	0.0058 ppm	0.0152 ppm	0.1888 ppm	0.3014 ppm	140.0010 ppm	7.6442 ppm	0.0173 ppm
Concentration per Run 3	0.0057 ppm	0.0145 ppm	0.1874 ppm	0.2981 ppm	140.1011 ppm	7.6570 ppm	0.0171 ppm
Concentration RSD	1.3 %	2.2 %	1.2 %	1.2 %	0.1 %	0.5 %	4.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.1387 ppm	0.4794 ppm	0.0103 ppm	0.8895 ppm	0.0734 ppm	0.6876 ppm	0.0082 ppm
Concentration per Run 1	9.2668 ppm	0.4801 ppm	0.0102 ppm	0.8863 ppm	0.0740 ppm	0.6898 ppm	0.0096 ppm
Concentration per Run 2	9.1409 ppm	0.4794 ppm	0.0099 ppm	0.8951 ppm	0.0733 ppm	0.6855 ppm	0.0052 ppm
Concentration per Run 3	9.0086 ppm	0.4788 ppm	0.0109 ppm	0.8870 ppm	0.0729 ppm	0.6875 ppm	0.0098 ppm
Concentration RSD	1.4 %	0.1 %	5.0 %	0.6 %	0.8 %	0.3 %	31.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	2.6136 ppm	0.0277 ppm	0.1542 ppm	0.5793 ppm	0.0003 ppm	0.1771 ppm
Concentration per Run 1	0.0019 ppm	2.6525 ppm	0.0273 ppm	0.1540 ppm	0.5909 ppm	0.0007 ppm	0.1801 ppm
Concentration per Run 2	0.0019 ppm	2.6039 ppm	0.0275 ppm	0.1545 ppm	0.5776 ppm	0.0000 ppm	0.1772 ppm
Concentration per Run 3	0.0040 ppm	2.5844 ppm	0.0283 ppm	0.1541 ppm	0.5694 ppm	0.0002 ppm	0.1741 ppm
Concentration RSD	47.7 %	1.3 %	2.0 %	0.2 %	1.9 %	112.0 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6653 ppm	101.0948 %	107.3106 %	97.8315 %	101.5242 %	110.5300 %	106.0856 %
Concentration per Run 1	0.6732 ppm	99.7781 %	107.1134 %	97.8831 %	101.0763 %	110.6321 %	106.4161 %
Concentration per Run 2	0.6657 ppm	101.1965 %	108.1965 %	97.7063 %	101.7979 %	111.3054 %	105.9182 %
Concentration per Run 3	0.6571 ppm	102.3097 %	106.6218 %	97.9052 %	101.6985 %	109.6524 %	105.9226 %
Concentration RSD	1.2 %	1.3 %	0.8 %	0.1 %	0.4 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-04d2 WG1934242
Analysis started at: 6/14/2024 9:27:54 PM
Rack 3
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	44.1232 ppm	0.0580 ppm	0.0685 ppm	0.2393 ppm	0.0032 ppm	16.3826 ppm
Concentration per Run 1	-0.0001 ppm	40.4209 ppm	0.0578 ppm	0.0698 ppm	0.2172 ppm	0.0029 ppm	14.9418 ppm
Concentration per Run 2	0.0000 ppm	48.6673 ppm	0.0585 ppm	0.0672 ppm	0.2588 ppm	0.0034 ppm	17.7928 ppm
Concentration per Run 3	-0.0003 ppm	43.2813 ppm	0.0576 ppm	0.0685 ppm	0.2419 ppm	0.0032 ppm	16.4132 ppm
Concentration RSD	112.9 %	9.5 %	0.8 %	1.9 %	8.8 %	8.7 %	8.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0130 ppm	0.2754 ppm	0.1018 ppm	116.6500 ppm	13.3845 ppm	0.0256 ppm
Concentration per Run 1	0.0018 ppm	0.0128 ppm	0.2714 ppm	0.0998 ppm	105.9789 ppm	12.2639 ppm	0.0253 ppm
Concentration per Run 2	0.0019 ppm	0.0134 ppm	0.2775 ppm	0.1029 ppm	126.2791 ppm	14.4109 ppm	0.0279 ppm
Concentration per Run 3	0.0019 ppm	0.0128 ppm	0.2773 ppm	0.1027 ppm	117.6921 ppm	13.4786 ppm	0.0236 ppm
Concentration RSD	3.0 %	2.7 %	1.3 %	1.7 %	8.7 %	8.0 %	8.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.5947 ppm	0.2922 ppm	0.0089 ppm	2.6475 ppm	0.0536 ppm	0.2612 ppm	0.0073 ppm
Concentration per Run 1	7.4903 ppm	0.2659 ppm	0.0089 ppm	2.4112 ppm	0.0525 ppm	0.2608 ppm	0.0059 ppm
Concentration per Run 2	7.6527 ppm	0.3164 ppm	0.0091 ppm	2.8601 ppm	0.0549 ppm	0.2622 ppm	0.0083 ppm
Concentration per Run 3	7.6411 ppm	0.2944 ppm	0.0086 ppm	2.6713 ppm	0.0535 ppm	0.2606 ppm	0.0077 ppm
Concentration RSD	1.2 %	8.7 %	2.8 %	8.5 %	2.2 %	0.3 %	17.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0037 ppm	2.6797 ppm	0.0140 ppm	0.0896 ppm	0.4731 ppm	0.0010 ppm	0.2583 ppm
Concentration per Run 1	0.0020 ppm	2.6476 ppm	0.0131 ppm	0.0819 ppm	0.4638 ppm	0.0012 ppm	0.2543 ppm
Concentration per Run 2	0.0029 ppm	2.7156 ppm	0.0147 ppm	0.0970 ppm	0.4819 ppm	0.0020 ppm	0.2606 ppm
Concentration per Run 3	0.0061 ppm	2.6759 ppm	0.0143 ppm	0.0900 ppm	0.4736 ppm	-0.0002 ppm	0.2601 ppm
Concentration RSD	59.5 %	1.3 %	5.8 %	8.4 %	1.9 %	112.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5711 ppm	105.5615 %	106.5373 %	98.8693 %	103.8919 %	106.9555 %	104.5552 %
Concentration per Run 1	0.5637 ppm	106.8348 %	115.0882 %	98.5846 %	106.4746 %	114.7350 %	103.9262 %
Concentration per Run 2	0.5769 ppm	104.8824 %	98.8131 %	98.9438 %	103.2922 %	97.7359 %	104.8948 %
Concentration per Run 3	0.5727 ppm	104.9672 %	105.7106 %	99.0794 %	101.9089 %	108.3956 %	104.8445 %
Concentration RSD	1.2 %	1.0 %	7.7 %	0.3 %	2.3 %	8.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-01d2 WG1934242
Analysis started at: 6/14/2024 9:31:56 PM
Rack 3
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	17.3887 ppm	0.0138 ppm	0.0080 ppm	0.1183 ppm	0.0011 ppm	4.3223 ppm
Concentration per Run 1	0.0003 ppm	17.4138 ppm	0.0137 ppm	0.0080 ppm	0.1188 ppm	0.0011 ppm	4.3414 ppm
Concentration per Run 2	0.0000 ppm	17.2948 ppm	0.0145 ppm	0.0087 ppm	0.1186 ppm	0.0011 ppm	4.3158 ppm
Concentration per Run 3	0.0002 ppm	17.4576 ppm	0.0133 ppm	0.0073 ppm	0.1176 ppm	0.0010 ppm	4.3097 ppm
Concentration RSD	107.8 %	0.5 %	4.3 %	8.5 %	0.5 %	2.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0028 ppm	0.0347 ppm	0.0384 ppm	18.3329 ppm	1.8328 ppm	0.0070 ppm
Concentration per Run 1	0.0007 ppm	0.0026 ppm	0.0353 ppm	0.0389 ppm	18.3782 ppm	1.8616 ppm	0.0079 ppm
Concentration per Run 2	0.0006 ppm	0.0029 ppm	0.0344 ppm	0.0383 ppm	18.3740 ppm	1.8261 ppm	0.0068 ppm
Concentration per Run 3	0.0007 ppm	0.0028 ppm	0.0343 ppm	0.0380 ppm	18.2465 ppm	1.8108 ppm	0.0061 ppm
Concentration RSD	1.3 %	5.7 %	1.6 %	1.2 %	0.4 %	1.4 %	13.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.6163 ppm	0.1106 ppm	0.0020 ppm	0.4193 ppm	0.0093 ppm	0.1160 ppm	0.0030 ppm
Concentration per Run 1	2.6650 ppm	0.1108 ppm	0.0018 ppm	0.4237 ppm	0.0099 ppm	0.1164 ppm	0.0019 ppm
Concentration per Run 2	2.6055 ppm	0.1105 ppm	0.0025 ppm	0.4204 ppm	0.0091 ppm	0.1159 ppm	0.0028 ppm
Concentration per Run 3	2.5785 ppm	0.1104 ppm	0.0018 ppm	0.4138 ppm	0.0090 ppm	0.1156 ppm	0.0045 ppm
Concentration RSD	1.7 %	0.2 %	18.9 %	1.2 %	5.2 %	0.3 %	42.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	4.1219 ppm	0.0059 ppm	0.0789 ppm	0.1862 ppm	-0.0011 ppm	0.0402 ppm
Concentration per Run 1	0.0048 ppm	4.1505 ppm	0.0070 ppm	0.0785 ppm	0.1891 ppm	-0.0012 ppm	0.0408 ppm
Concentration per Run 2	-0.0009 ppm	4.0960 ppm	0.0056 ppm	0.0795 ppm	0.1815 ppm	-0.0009 ppm	0.0400 ppm
Concentration per Run 3	0.0016 ppm	4.1192 ppm	0.0052 ppm	0.0786 ppm	0.1879 ppm	-0.0012 ppm	0.0397 ppm
Concentration RSD	156.2 %	0.7 %	16.2 %	0.7 %	2.2 %	17.1 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1255 ppm	100.5597 %	106.5554 %	100.6128 %	99.7333 %	106.5372 %	103.3735 %
Concentration per Run 1	0.1279 ppm	98.8596 %	105.9994 %	100.6740 %	99.0215 %	106.2081 %	103.7306 %
Concentration per Run 2	0.1251 ppm	100.9482 %	107.1619 %	100.7886 %	100.0529 %	107.5730 %	103.3690 %
Concentration per Run 3	0.1234 ppm	101.8713 %	106.5050 %	100.3758 %	100.1255 %	105.8306 %	103.0210 %
Concentration RSD	1.8 %	1.5 %	0.5 %	0.2 %	0.6 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934242-3d2 WG1934242
Analysis started at: 6/14/2024 9:35:57 PM
Rack 3
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0472 ppm	24.4656 ppm	0.1209 ppm	0.8248 ppm	2.0445 ppm	0.0494 ppm	14.0219 ppm
Concentration per Run 1	0.0476 ppm	24.4210 ppm	0.1224 ppm	0.8300 ppm	2.0493 ppm	0.0495 ppm	14.0280 ppm
Concentration per Run 2	0.0473 ppm	24.4080 ppm	0.1200 ppm	0.8195 ppm	2.0496 ppm	0.0496 ppm	13.9603 ppm
Concentration per Run 3	0.0468 ppm	24.5677 ppm	0.1204 ppm	0.8250 ppm	2.0346 ppm	0.0491 ppm	14.0773 ppm
Concentration RSD	0.9 %	0.4 %	1.1 %	0.6 %	0.4 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0496 ppm	0.4654 ppm	0.2207 ppm	0.2698 ppm	19.5633 ppm	11.8155 ppm	0.0129 ppm
Concentration per Run 1	0.0501 ppm	0.4696 ppm	0.2234 ppm	0.2708 ppm	19.6270 ppm	11.8651 ppm	0.0156 ppm
Concentration per Run 2	0.0494 ppm	0.4632 ppm	0.2196 ppm	0.2693 ppm	19.5098 ppm	11.8428 ppm	0.0121 ppm
Concentration per Run 3	0.0494 ppm	0.4634 ppm	0.2191 ppm	0.2692 ppm	19.5531 ppm	11.7385 ppm	0.0109 ppm
Concentration RSD	0.8 %	0.8 %	1.1 %	0.3 %	0.3 %	0.6 %	19.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.0142 ppm	0.5838 ppm	0.9480 ppm	10.0407 ppm	0.4764 ppm	0.6151 ppm	0.4609 ppm
Concentration per Run 1	12.1221 ppm	0.5847 ppm	0.9459 ppm	10.0584 ppm	0.4822 ppm	0.6144 ppm	0.4628 ppm
Concentration per Run 2	11.9765 ppm	0.5839 ppm	0.9441 ppm	10.0336 ppm	0.4734 ppm	0.6166 ppm	0.4591 ppm
Concentration per Run 3	11.9441 ppm	0.5828 ppm	0.9540 ppm	10.0302 ppm	0.4735 ppm	0.6144 ppm	0.4609 ppm
Concentration RSD	0.8 %	0.2 %	0.6 %	0.2 %	1.1 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1036 ppm	6.2247 ppm	0.9269 ppm	1.0182 ppm	0.8771 ppm	0.1110 ppm	0.5084 ppm
Concentration per Run 1	0.1045 ppm	6.3015 ppm	0.9328 ppm	1.0179 ppm	0.8838 ppm	0.1105 ppm	0.5130 ppm
Concentration per Run 2	0.1021 ppm	6.2056 ppm	0.9241 ppm	1.0205 ppm	0.8750 ppm	0.1114 ppm	0.5079 ppm
Concentration per Run 3	0.1041 ppm	6.1669 ppm	0.9238 ppm	1.0161 ppm	0.8726 ppm	0.1111 ppm	0.5044 ppm
Concentration RSD	1.3 %	1.1 %	0.6 %	0.2 %	0.7 %	0.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5846 ppm	100.8961 %	105.5871 %	97.2422 %	96.5301 %	103.8594 %	100.0447 %
Concentration per Run 1	0.5906 ppm	99.2969 %	106.1154 %	96.9074 %	95.5113 %	104.7358 %	99.9274 %
Concentration per Run 2	0.5817 ppm	101.5139 %	105.0197 %	97.3189 %	96.8447 %	103.1321 %	100.2456 %
Concentration per Run 3	0.5814 ppm	101.8776 %	105.6263 %	97.5004 %	97.2343 %	103.7104 %	99.9612 %
Concentration RSD	0.9 %	1.4 %	0.5 %	0.3 %	0.9 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934242-4d2 WG1934242
Analysis started at: 6/14/2024 9:39:59 PM
Rack 3
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	17.2743 ppm	0.0139 ppm	0.0109 ppm	0.1240 ppm	0.0011 ppm	4.3695 ppm
Concentration per Run 1	0.0006 ppm	17.3329 ppm	0.0154 ppm	0.0111 ppm	0.1237 ppm	0.0011 ppm	4.3802 ppm
Concentration per Run 2	0.0004 ppm	17.2363 ppm	0.0129 ppm	0.0111 ppm	0.1238 ppm	0.0011 ppm	4.3767 ppm
Concentration per Run 3	0.0002 ppm	17.2538 ppm	0.0135 ppm	0.0106 ppm	0.1244 ppm	0.0011 ppm	4.3516 ppm
Concentration RSD	44.6 %	0.3 %	9.3 %	2.6 %	0.3 %	2.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0027 ppm	0.0362 ppm	0.0373 ppm	18.8809 ppm	1.9336 ppm	0.0072 ppm
Concentration per Run 1	0.0007 ppm	0.0027 ppm	0.0376 ppm	0.0382 ppm	18.8506 ppm	1.9817 ppm	0.0071 ppm
Concentration per Run 2	0.0006 ppm	0.0030 ppm	0.0354 ppm	0.0374 ppm	18.9290 ppm	1.9124 ppm	0.0090 ppm
Concentration per Run 3	0.0007 ppm	0.0023 ppm	0.0354 ppm	0.0364 ppm	18.8632 ppm	1.9067 ppm	0.0056 ppm
Concentration RSD	5.5 %	13.5 %	3.5 %	2.5 %	0.2 %	2.2 %	23.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.8175 ppm	0.1157 ppm	0.0040 ppm	0.4716 ppm	0.0108 ppm	0.1219 ppm	0.0029 ppm
Concentration per Run 1	2.8884 ppm	0.1157 ppm	0.0041 ppm	0.4786 ppm	0.0112 ppm	0.1224 ppm	0.0032 ppm
Concentration per Run 2	2.7991 ppm	0.1160 ppm	0.0038 ppm	0.4761 ppm	0.0102 ppm	0.1202 ppm	0.0035 ppm
Concentration per Run 3	2.7651 ppm	0.1155 ppm	0.0042 ppm	0.4601 ppm	0.0108 ppm	0.1231 ppm	0.0019 ppm
Concentration RSD	2.3 %	0.2 %	4.8 %	2.1 %	4.6 %	1.2 %	29.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	5.0497 ppm	0.0057 ppm	0.0792 ppm	0.2218 ppm	0.0002 ppm	0.0402 ppm
Concentration per Run 1	0.0015 ppm	5.2544 ppm	0.0054 ppm	0.0791 ppm	0.2311 ppm	-0.0002 ppm	0.0415 ppm
Concentration per Run 2	0.0019 ppm	4.9446 ppm	0.0060 ppm	0.0796 ppm	0.2156 ppm	0.0000 ppm	0.0400 ppm
Concentration per Run 3	0.0024 ppm	4.9502 ppm	0.0058 ppm	0.0790 ppm	0.2186 ppm	0.0007 ppm	0.0391 ppm
Concentration RSD	24.2 %	3.5 %	5.0 %	0.4 %	3.7 %	268.5 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1298 ppm	99.8630 %	106.6932 %	100.9328 %	98.4967 %	106.0685 %	103.2794 %
Concentration per Run 1	0.1329 ppm	97.5181 %	106.4507 %	100.1539 %	96.9724 %	105.9607 %	102.9700 %
Concentration per Run 2	0.1296 ppm	100.5968 %	106.3673 %	101.4365 %	99.6615 %	105.8146 %	103.7726 %
Concentration per Run 3	0.1270 ppm	101.4742 %	107.2616 %	101.2081 %	98.8561 %	106.4303 %	103.0958 %
Concentration RSD	2.3 %	2.1 %	0.5 %	0.7 %	1.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934242-5d2 WG1934242
Analysis started at: 6/14/2024 9:44:00 PM
Rack 3
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0460 ppm	18.2624 ppm	0.1265 ppm	0.9546 ppm	2.0703 ppm	0.0498 ppm	14.1309 ppm
Concentration per Run 1	0.0466 ppm	18.2444 ppm	0.1254 ppm	0.9564 ppm	2.0635 ppm	0.0496 ppm	14.1272 ppm
Concentration per Run 2	0.0459 ppm	18.2535 ppm	0.1265 ppm	0.9609 ppm	2.0722 ppm	0.0497 ppm	14.0850 ppm
Concentration per Run 3	0.0455 ppm	18.2894 ppm	0.1275 ppm	0.9466 ppm	2.0750 ppm	0.0501 ppm	14.1805 ppm
Concentration RSD	1.3 %	0.1 %	0.8 %	0.8 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0505 ppm	0.4727 ppm	0.2178 ppm	0.2757 ppm	18.0080 ppm	12.0631 ppm	0.0073 ppm
Concentration per Run 1	0.0508 ppm	0.4771 ppm	0.2206 ppm	0.2783 ppm	17.9899 ppm	12.1510 ppm	0.0082 ppm
Concentration per Run 2	0.0508 ppm	0.4749 ppm	0.2175 ppm	0.2759 ppm	17.9543 ppm	12.0291 ppm	0.0086 ppm
Concentration per Run 3	0.0498 ppm	0.4661 ppm	0.2151 ppm	0.2728 ppm	18.0798 ppm	12.0094 ppm	0.0051 ppm
Concentration RSD	1.2 %	1.2 %	1.3 %	1.0 %	0.4 %	0.6 %	26.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.1332 ppm	0.5868 ppm	0.9575 ppm	10.5664 ppm	0.4839 ppm	0.6176 ppm	0.4087 ppm
Concentration per Run 1	12.2748 ppm	0.5865 ppm	0.9488 ppm	10.5480 ppm	0.4899 ppm	0.6188 ppm	0.4054 ppm
Concentration per Run 2	12.1538 ppm	0.5877 ppm	0.9640 ppm	10.5562 ppm	0.4846 ppm	0.6150 ppm	0.4119 ppm
Concentration per Run 3	11.9710 ppm	0.5863 ppm	0.9598 ppm	10.5950 ppm	0.4773 ppm	0.6191 ppm	0.4088 ppm
Concentration RSD	1.3 %	0.1 %	0.8 %	0.2 %	1.3 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1154 ppm	5.4703 ppm	0.9776 ppm	1.0795 ppm	1.1922 ppm	0.1158 ppm	0.5104 ppm
Concentration per Run 1	0.1163 ppm	5.6658 ppm	0.9786 ppm	1.0783 ppm	1.2122 ppm	0.1146 ppm	0.5163 ppm
Concentration per Run 2	0.1160 ppm	5.4996 ppm	0.9784 ppm	1.0760 ppm	1.1990 ppm	0.1156 ppm	0.5101 ppm
Concentration per Run 3	0.1137 ppm	5.2455 ppm	0.9758 ppm	1.0842 ppm	1.1653 ppm	0.1172 ppm	0.5048 ppm
Concentration RSD	1.2 %	3.9 %	0.2 %	0.4 %	2.0 %	1.1 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5849 ppm	99.5022 %	106.2714 %	97.4474 %	97.4632 %	105.0946 %	101.5132 %
Concentration per Run 1	0.5905 ppm	97.8403 %	105.8718 %	97.1190 %	96.4449 %	104.9792 %	101.4345 %
Concentration per Run 2	0.5890 ppm	98.9681 %	106.3158 %	97.4915 %	97.4136 %	105.1137 %	101.7600 %
Concentration per Run 3	0.5753 ppm	101.6980 %	106.6266 %	97.7318 %	98.5310 %	105.1910 %	101.3451 %
Concentration RSD	1.4 %	2.0 %	0.4 %	0.3 %	1.1 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934242-6d10 WG1934242
Analysis started at: 6/14/2024 9:48:01 PM
Rack 3
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	3.6299 ppm	0.0034 ppm	0.0022 ppm	0.0238 ppm	0.0002 ppm	0.8693 ppm
Concentration per Run 1	-0.0001 ppm	3.6289 ppm	0.0028 ppm	0.0016 ppm	0.0238 ppm	0.0002 ppm	0.8678 ppm
Concentration per Run 2	-0.0003 ppm	3.6355 ppm	0.0031 ppm	0.0019 ppm	0.0238 ppm	0.0002 ppm	0.8713 ppm
Concentration per Run 3	-0.0002 ppm	3.6253 ppm	0.0043 ppm	0.0032 ppm	0.0237 ppm	0.0002 ppm	0.8687 ppm
Concentration RSD	39.1 %	0.1 %	23.7 %	39.1 %	0.3 %	2.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0068 ppm	0.0080 ppm	3.6521 ppm	0.3751 ppm	0.0021 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0069 ppm	0.0082 ppm	3.6496 ppm	0.3754 ppm	0.0041 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	0.0064 ppm	0.0077 ppm	3.6537 ppm	0.3924 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0071 ppm	0.0080 ppm	3.6532 ppm	0.3574 ppm	0.0018 ppm
Concentration RSD	27.6 %	47.9 %	5.1 %	3.1 %	0.1 %	4.7 %	94.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5279 ppm	0.0226 ppm	0.0036 ppm	0.0552 ppm	0.0012 ppm	0.0232 ppm	0.0026 ppm
Concentration per Run 1	0.5374 ppm	0.0228 ppm	0.0039 ppm	0.0571 ppm	0.0012 ppm	0.0242 ppm	0.0046 ppm
Concentration per Run 2	0.5256 ppm	0.0226 ppm	0.0036 ppm	0.0527 ppm	0.0008 ppm	0.0228 ppm	-0.0008 ppm
Concentration per Run 3	0.5208 ppm	0.0225 ppm	0.0032 ppm	0.0559 ppm	0.0016 ppm	0.0227 ppm	0.0040 ppm
Concentration RSD	1.6 %	0.6 %	9.8 %	4.1 %	34.0 %	3.7 %	115.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	1.0142 ppm	0.0016 ppm	0.0157 ppm	0.0420 ppm	-0.0015 ppm	0.0079 ppm
Concentration per Run 1	-0.0007 ppm	1.0729 ppm	0.0009 ppm	0.0158 ppm	0.0391 ppm	-0.0016 ppm	0.0079 ppm
Concentration per Run 2	0.0014 ppm	0.9771 ppm	0.0016 ppm	0.0158 ppm	0.0445 ppm	-0.0028 ppm	0.0079 ppm
Concentration per Run 3	0.0037 ppm	0.9927 ppm	0.0024 ppm	0.0156 ppm	0.0424 ppm	-0.0001 ppm	0.0080 ppm
Concentration RSD	147.8 %	5.1 %	44.5 %	0.8 %	6.4 %	89.1 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0249 ppm	100.4492 %	104.3403 %	102.0347 %	97.3480 %	101.8791 %	101.2034 %
Concentration per Run 1	0.0248 ppm	98.7205 %	104.5270 %	101.1233 %	96.6866 %	102.6539 %	100.7450 %
Concentration per Run 2	0.0252 ppm	101.0070 %	103.5982 %	102.6056 %	97.7584 %	100.8929 %	101.7378 %
Concentration per Run 3	0.0248 ppm	101.6200 %	104.8957 %	102.3751 %	97.5991 %	102.0906 %	101.1273 %
Concentration RSD	0.9 %	1.5 %	0.6 %	0.8 %	0.6 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 9:52:03 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4955 ppm	0.4758 ppm	0.4643 ppm	0.4879 ppm	0.4996 ppm	0.5031 ppm	0.4876 ppm
Concentration per Run 1	0.5010 ppm	0.4650 ppm	0.4682 ppm	0.4913 ppm	0.4997 ppm	0.5021 ppm	0.4864 ppm
Concentration per Run 2	0.4948 ppm	0.4787 ppm	0.4642 ppm	0.4895 ppm	0.5017 ppm	0.5046 ppm	0.4902 ppm
Concentration per Run 3	0.4907 ppm	0.4837 ppm	0.4605 ppm	0.4829 ppm	0.4975 ppm	0.5026 ppm	0.4860 ppm
Recovery Percentage 1	99.098 %	95.155 %	92.863 %	97.584 %	99.925 %	100.618 %	97.510 %
Concentration RSD	1.0 %	2.0 %	0.8 %	0.9 %	0.4 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4876 ppm	0.5017 ppm	0.4817 ppm	0.4870 ppm	0.5088 ppm	5.0807 ppm	0.4813 ppm
Concentration per Run 1	0.4924 ppm	0.5077 ppm	0.4865 ppm	0.4911 ppm	0.5134 ppm	5.1478 ppm	0.4810 ppm
Concentration per Run 2	0.4878 ppm	0.5020 ppm	0.4810 ppm	0.4871 ppm	0.5092 ppm	5.0576 ppm	0.4832 ppm
Concentration per Run 3	0.4825 ppm	0.4955 ppm	0.4776 ppm	0.4828 ppm	0.5040 ppm	5.0367 ppm	0.4796 ppm
Recovery Percentage 1	97.518 %	100.344 %	96.341 %	97.400 %	101.769 %	101.614 %	96.253 %
Concentration RSD	1.0 %	1.2 %	0.9 %	0.9 %	0.9 %	1.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4872 ppm	0.4859 ppm	0.4812 ppm	9.7529 ppm	0.5033 ppm	0.4851 ppm	0.4836 ppm
Concentration per Run 1	0.4932 ppm	0.4869 ppm	0.4789 ppm	9.8111 ppm	0.5076 ppm	0.4888 ppm	0.4908 ppm
Concentration per Run 2	0.4864 ppm	0.4859 ppm	0.4828 ppm	9.7342 ppm	0.5036 ppm	0.4852 ppm	0.4817 ppm
Concentration per Run 3	0.4821 ppm	0.4848 ppm	0.4819 ppm	9.7133 ppm	0.4986 ppm	0.4815 ppm	0.4784 ppm
Recovery Percentage 1	97.445 %	97.177 %	96.239 %	97.529 %	100.654 %	97.026 %	96.724 %
Concentration RSD	1.1 %	0.2 %	0.4 %	0.5 %	0.9 %	0.7 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4730 ppm	5.0593 ppm	0.5097 ppm	0.5013 ppm	0.4945 ppm	0.4850 ppm	0.4842 ppm
Concentration per Run 1	0.4776 ppm	5.1082 ppm	0.5124 ppm	0.5005 ppm	0.4992 ppm	0.4883 ppm	0.4898 ppm
Concentration per Run 2	0.4723 ppm	5.0486 ppm	0.5052 ppm	0.5013 ppm	0.4936 ppm	0.4851 ppm	0.4850 ppm
Concentration per Run 3	0.4691 ppm	5.0211 ppm	0.5113 ppm	0.5022 ppm	0.4908 ppm	0.4815 ppm	0.4778 ppm
Recovery Percentage 1	94.598 %	96.368 %	101.931 %	100.265 %	98.903 %	96.994 %	96.840 %
Concentration RSD	0.9 %	0.9 %	0.8 %	0.2 %	0.9 %	0.7 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4947 ppm	100.2815 %	104.4283 %	101.1876 %	95.4468 %	100.4096 %	98.4103 %
Concentration per Run 1	0.4993 ppm	99.0403 %	102.8641 %	100.2250 %	95.1706 %	99.6030 %	97.9868 %
Concentration per Run 2	0.4949 ppm	100.2407 %	104.8089 %	101.4333 %	95.5580 %	100.5454 %	98.6234 %
Concentration per Run 3	0.4899 ppm	101.5634 %	105.6119 %	101.9046 %	95.6117 %	101.0803 %	98.6208 %
Recovery Percentage 1	98.942 %						
Concentration RSD	0.9 %	1.3 %	1.4 %	0.9 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 9:56:02 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0063 ppm	0.0015 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	0.0001 ppm	-0.0116 ppm	0.0015 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	0.0000 ppm	-0.0039 ppm	0.0016 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 3	-0.0006 ppm	-0.0034 ppm	0.0014 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0044 ppm
Recovery Percentage 1	-2.447 %	-6.292 %	49.659 %	0.635 %	2.080 %	0.214 %	5.773 %
Concentration RSD	227.6 %	72.8 %	6.7 %	243.4 %	51.6 %	332.0 %	26.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0007 ppm	0.0071 ppm	0.0018 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	-0.0003 ppm	0.0010 ppm	0.0074 ppm	-0.0043 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0007 ppm	0.0074 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	-0.0005 ppm	0.0005 ppm	0.0064 ppm	0.0097 ppm	0.0001 ppm
Recovery Percentage 1	-0.227 %	3.248 %	-3.201 %	6.942 %	14.125 %	0.072 %	-1.865 %
Concentration RSD	771.2 %	24.3 %	42.1 %	36.7 %	7.6 %	398.6 %	202.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0001 ppm	0.0018 ppm	-0.0377 ppm	0.0001 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 1	0.0018 ppm	0.0002 ppm	0.0018 ppm	-0.0321 ppm	0.0003 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 2	0.0017 ppm	0.0001 ppm	0.0019 ppm	-0.0395 ppm	0.0000 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 3	-0.0009 ppm	0.0000 ppm	0.0016 ppm	-0.0417 ppm	0.0000 ppm	-0.0005 ppm	0.0016 ppm
Recovery Percentage 1	0.852 %	1.034 %	3.532 %	-1.887 %	0.337 %	2.293 %	2.253 %
Concentration RSD	175.0 %	125.1 %	10.1 %	13.3 %	219.3 %	275.9 %	46.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0022 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0117 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0002 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	-0.0049 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	0.647 %	0.445 %	1.814 %	0.153 %	1.647 %	-3.469 %	-0.956 %
Concentration RSD	1,204.0 %	384.5 %	23.7 %	595.3 %	44.9 %	114.8 %	103.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	93.2944 %	98.8597 %	97.1179 %	96.6177 %	100.4762 %	99.5439 %
Concentration per Run 1	0.0011 ppm	91.4719 %	98.5186 %	96.2284 %	96.4802 %	100.8288 %	99.6665 %
Concentration per Run 2	0.0009 ppm	93.3864 %	99.3341 %	97.7675 %	96.4059 %	100.7111 %	99.8255 %
Concentration per Run 3	0.0011 ppm	95.0248 %	98.7264 %	97.3579 %	96.9670 %	99.8886 %	99.1397 %
Recovery Percentage 1	20.656 %						
Concentration RSD	11.5 %	1.9 %	0.4 %	0.8 %	0.3 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-05d2 WG1934242
Analysis started at: 6/14/2024 10:00:58 PM
Rack 3
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	31.3164 ppm	0.0856 ppm	0.0837 ppm	0.2745 ppm	0.0026 ppm	50.2602 ppm
Concentration per Run 1	0.0025 ppm	31.4648 ppm	0.0853 ppm	0.0847 ppm	0.2729 ppm	0.0026 ppm	50.2723 ppm
Concentration per Run 2	0.0019 ppm	31.4102 ppm	0.0852 ppm	0.0851 ppm	0.2774 ppm	0.0026 ppm	50.7482 ppm
Concentration per Run 3	0.0022 ppm	31.0741 ppm	0.0862 ppm	0.0813 ppm	0.2732 ppm	0.0026 ppm	49.7600 ppm
Concentration RSD	13.4 %	0.7 %	0.7 %	2.5 %	0.9 %	0.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.2476 ppm	0.1345 ppm	1.0153 ppm	153.4802 ppm	3.5668 ppm	0.0210 ppm
Concentration per Run 1	0.0042 ppm	0.2513 ppm	0.1367 ppm	1.0283 ppm	152.4628 ppm	3.5776 ppm	0.0226 ppm
Concentration per Run 2	0.0042 ppm	0.2467 ppm	0.1345 ppm	1.0129 ppm	155.1554 ppm	3.5889 ppm	0.0215 ppm
Concentration per Run 3	0.0040 ppm	0.2447 ppm	0.1325 ppm	1.0046 ppm	152.8224 ppm	3.5339 ppm	0.0189 ppm
Concentration RSD	2.8 %	1.4 %	1.6 %	1.2 %	1.0 %	0.8 %	8.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.4121 ppm	1.0344 ppm	0.0193 ppm	2.1445 ppm	0.1469 ppm	1.7271 ppm	0.0607 ppm
Concentration per Run 1	19.7280 ppm	1.0329 ppm	0.0189 ppm	2.1323 ppm	0.1489 ppm	1.7343 ppm	0.0610 ppm
Concentration per Run 2	19.3722 ppm	1.0450 ppm	0.0196 ppm	2.1723 ppm	0.1469 ppm	1.7231 ppm	0.0621 ppm
Concentration per Run 3	19.1361 ppm	1.0253 ppm	0.0194 ppm	2.1289 ppm	0.1449 ppm	1.7240 ppm	0.0591 ppm
Concentration RSD	1.5 %	1.0 %	1.8 %	1.1 %	1.4 %	0.4 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0076 ppm	4.9090 ppm	0.0934 ppm	0.1478 ppm	2.6087 ppm	0.0010 ppm	0.2243 ppm
Concentration per Run 1	0.0063 ppm	4.9799 ppm	0.0940 ppm	0.1465 ppm	2.6478 ppm	0.0014 ppm	0.2271 ppm
Concentration per Run 2	0.0063 ppm	4.9308 ppm	0.0936 ppm	0.1495 ppm	2.6045 ppm	0.0016 ppm	0.2246 ppm
Concentration per Run 3	0.0102 ppm	4.8161 ppm	0.0926 ppm	0.1473 ppm	2.5738 ppm	0.0001 ppm	0.2213 ppm
Concentration RSD	29.4 %	1.7 %	0.8 %	1.0 %	1.4 %	80.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.8626 ppm	101.3097 %	107.2073 %	94.3192 %	109.8915 %	119.3130 %	114.4980 %
Concentration per Run 1	2.9092 ppm	99.4408 %	107.4981 %	94.1179 %	108.6234 %	119.1730 %	114.8723 %
Concentration per Run 2	2.8607 ppm	101.6391 %	106.3819 %	94.4156 %	110.2925 %	119.0222 %	114.4552 %
Concentration per Run 3	2.8179 ppm	102.8491 %	107.7418 %	94.4242 %	110.7585 %	119.7439 %	114.1664 %
Concentration RSD	1.6 %	1.7 %	0.7 %	0.2 %	1.0 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-06d2 WG1934242
Analysis started at: 6/14/2024 10:04:59 PM
Rack 3
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	19.3983 ppm	0.0324 ppm	0.0395 ppm	0.4201 ppm	0.0038 ppm	7.0805 ppm
Concentration per Run 1	0.0001 ppm	19.3705 ppm	0.0328 ppm	0.0398 ppm	0.4206 ppm	0.0037 ppm	7.0632 ppm
Concentration per Run 2	0.0004 ppm	19.4064 ppm	0.0325 ppm	0.0394 ppm	0.4202 ppm	0.0037 ppm	7.0879 ppm
Concentration per Run 3	-0.0002 ppm	19.4178 ppm	0.0320 ppm	0.0393 ppm	0.4195 ppm	0.0038 ppm	7.0905 ppm
Concentration RSD	373.8 %	0.1 %	1.2 %	0.7 %	0.1 %	1.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0026 ppm	0.0155 ppm	0.0942 ppm	0.3324 ppm	61.3787 ppm	4.0954 ppm	0.0196 ppm
Concentration per Run 1	0.0026 ppm	0.0159 ppm	0.0959 ppm	0.3377 ppm	61.3252 ppm	4.1203 ppm	0.0202 ppm
Concentration per Run 2	0.0026 ppm	0.0152 ppm	0.0939 ppm	0.3308 ppm	61.3451 ppm	4.0768 ppm	0.0190 ppm
Concentration per Run 3	0.0026 ppm	0.0155 ppm	0.0927 ppm	0.3287 ppm	61.4659 ppm	4.0891 ppm	0.0196 ppm
Concentration RSD	0.6 %	2.5 %	1.7 %	1.4 %	0.1 %	0.5 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6401 ppm	0.3470 ppm	0.0171 ppm	0.2119 ppm	0.0743 ppm	0.6693 ppm	0.0101 ppm
Concentration per Run 1	5.7263 ppm	0.3465 ppm	0.0165 ppm	0.2132 ppm	0.0752 ppm	0.6716 ppm	0.0106 ppm
Concentration per Run 2	5.6456 ppm	0.3472 ppm	0.0176 ppm	0.2115 ppm	0.0745 ppm	0.6695 ppm	0.0093 ppm
Concentration per Run 3	5.5482 ppm	0.3474 ppm	0.0172 ppm	0.2109 ppm	0.0733 ppm	0.6666 ppm	0.0104 ppm
Concentration RSD	1.6 %	0.1 %	3.3 %	0.5 %	1.3 %	0.4 %	7.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	3.1884 ppm	0.0185 ppm	0.0613 ppm	0.7666 ppm	-0.0001 ppm	0.0833 ppm
Concentration per Run 1	0.0027 ppm	3.2484 ppm	0.0186 ppm	0.0613 ppm	0.7755 ppm	-0.0007 ppm	0.0844 ppm
Concentration per Run 2	0.0010 ppm	3.1812 ppm	0.0176 ppm	0.0613 ppm	0.7681 ppm	-0.0001 ppm	0.0831 ppm
Concentration per Run 3	0.0010 ppm	3.1356 ppm	0.0192 ppm	0.0612 ppm	0.7561 ppm	0.0004 ppm	0.0825 ppm
Concentration RSD	62.7 %	1.8 %	4.4 %	0.1 %	1.3 %	482.3 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8771 ppm	101.3795 %	106.7544 %	98.9128 %	97.6794 %	104.8711 %	101.1454 %
Concentration per Run 1	0.8888 ppm	99.8794 %	106.3827 %	98.3948 %	97.2984 %	104.5013 %	101.2588 %
Concentration per Run 2	0.8741 ppm	101.4962 %	107.3719 %	98.6776 %	97.6240 %	105.6499 %	100.6775 %
Concentration per Run 3	0.8682 ppm	102.7629 %	106.5087 %	99.6659 %	98.1157 %	104.4620 %	101.4998 %
Concentration RSD	1.2 %	1.4 %	0.5 %	0.7 %	0.4 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-07d2 WG1934242
Analysis started at: 6/14/2024 10:09:02 PM
Rack 3
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	21.3686 ppm	0.0338 ppm	0.0132 ppm	0.3691 ppm	0.0030 ppm	2.7741 ppm
Concentration per Run 1	0.0001 ppm	21.3578 ppm	0.0342 ppm	0.0122 ppm	0.3697 ppm	0.0030 ppm	2.7883 ppm
Concentration per Run 2	0.0001 ppm	21.4833 ppm	0.0331 ppm	0.0148 ppm	0.3703 ppm	0.0030 ppm	2.7706 ppm
Concentration per Run 3	0.0000 ppm	21.2648 ppm	0.0342 ppm	0.0127 ppm	0.3675 ppm	0.0030 ppm	2.7633 ppm
Concentration RSD	132.8 %	0.5 %	2.0 %	10.3 %	0.4 %	1.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0127 ppm	0.0858 ppm	0.0396 ppm	57.8218 ppm	2.6874 ppm	0.0254 ppm
Concentration per Run 1	0.0012 ppm	0.0129 ppm	0.0864 ppm	0.0400 ppm	57.8528 ppm	2.7386 ppm	0.0260 ppm
Concentration per Run 2	0.0012 ppm	0.0126 ppm	0.0856 ppm	0.0394 ppm	57.6711 ppm	2.6639 ppm	0.0244 ppm
Concentration per Run 3	0.0012 ppm	0.0126 ppm	0.0853 ppm	0.0394 ppm	57.9417 ppm	2.6596 ppm	0.0257 ppm
Concentration RSD	4.2 %	1.3 %	0.6 %	0.9 %	0.2 %	1.7 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1608 ppm	0.7100 ppm	0.0037 ppm	0.3739 ppm	0.0171 ppm	0.0535 ppm	0.0035 ppm
Concentration per Run 1	3.1982 ppm	0.7114 ppm	0.0038 ppm	0.3806 ppm	0.0177 ppm	0.0545 ppm	0.0030 ppm
Concentration per Run 2	3.1604 ppm	0.7105 ppm	0.0035 ppm	0.3686 ppm	0.0167 ppm	0.0537 ppm	0.0032 ppm
Concentration per Run 3	3.1237 ppm	0.7080 ppm	0.0038 ppm	0.3724 ppm	0.0168 ppm	0.0522 ppm	0.0044 ppm
Concentration RSD	1.2 %	0.2 %	5.2 %	1.6 %	3.1 %	2.2 %	20.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.0717 ppm	0.0101 ppm	0.0351 ppm	0.4329 ppm	-0.0008 ppm	0.0968 ppm
Concentration per Run 1	0.0028 ppm	3.1084 ppm	0.0098 ppm	0.0353 ppm	0.4415 ppm	-0.0002 ppm	0.0977 ppm
Concentration per Run 2	-0.0011 ppm	3.0605 ppm	0.0109 ppm	0.0348 ppm	0.4349 ppm	-0.0018 ppm	0.0967 ppm
Concentration per Run 3	0.0026 ppm	3.0462 ppm	0.0097 ppm	0.0353 ppm	0.4223 ppm	-0.0004 ppm	0.0959 ppm
Concentration RSD	152.8 %	1.1 %	6.3 %	0.8 %	2.2 %	114.0 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5203 ppm	101.4539 %	105.8762 %	99.9506 %	98.6644 %	104.9620 %	102.7051 %
Concentration per Run 1	0.5254 ppm	100.2239 %	105.8695 %	99.4144 %	98.6292 %	105.3212 %	102.6004 %
Concentration per Run 2	0.5162 ppm	101.7271 %	106.0829 %	100.7643 %	98.6817 %	105.0193 %	103.5309 %
Concentration per Run 3	0.5194 ppm	102.4107 %	105.6763 %	99.6731 %	98.6824 %	104.5454 %	101.9840 %
Concentration RSD	0.9 %	1.1 %	0.2 %	0.7 %	0.0 %	0.4 %	0.8 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-08d2 WG1934242
Analysis started at: 6/14/2024 10:13:04 PM
Rack 3
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	22.3425 ppm	0.0548 ppm	0.0392 ppm	0.1465 ppm	0.0024 ppm	3.6329 ppm
Concentration per Run 1	-0.0001 ppm	22.2450 ppm	0.0549 ppm	0.0413 ppm	0.1463 ppm	0.0024 ppm	3.6411 ppm
Concentration per Run 2	-0.0002 ppm	22.2996 ppm	0.0538 ppm	0.0385 ppm	0.1457 ppm	0.0024 ppm	3.6323 ppm
Concentration per Run 3	-0.0002 ppm	22.4828 ppm	0.0556 ppm	0.0379 ppm	0.1476 ppm	0.0024 ppm	3.6255 ppm
Concentration RSD	52.9 %	0.6 %	1.7 %	4.6 %	0.6 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0136 ppm	0.1401 ppm	0.0196 ppm	96.7883 ppm	6.3997 ppm	0.0144 ppm
Concentration per Run 1	0.0003 ppm	0.0140 ppm	0.1416 ppm	0.0198 ppm	96.8612 ppm	6.4668 ppm	0.0155 ppm
Concentration per Run 2	0.0003 ppm	0.0130 ppm	0.1397 ppm	0.0192 ppm	96.3643 ppm	6.3143 ppm	0.0130 ppm
Concentration per Run 3	0.0005 ppm	0.0136 ppm	0.1391 ppm	0.0199 ppm	97.1393 ppm	6.4180 ppm	0.0148 ppm
Concentration RSD	38.5 %	3.6 %	0.9 %	1.8 %	0.4 %	1.2 %	8.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.5815 ppm	0.5465 ppm	0.0046 ppm	0.3511 ppm	0.0190 ppm	0.0225 ppm	0.0042 ppm
Concentration per Run 1	3.6301 ppm	0.5491 ppm	0.0048 ppm	0.3442 ppm	0.0192 ppm	0.0227 ppm	0.0057 ppm
Concentration per Run 2	3.5738 ppm	0.5439 ppm	0.0044 ppm	0.3528 ppm	0.0189 ppm	0.0224 ppm	0.0003 ppm
Concentration per Run 3	3.5407 ppm	0.5466 ppm	0.0046 ppm	0.3564 ppm	0.0188 ppm	0.0222 ppm	0.0067 ppm
Concentration RSD	1.3 %	0.5 %	3.8 %	1.8 %	1.0 %	1.2 %	82.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	3.1142 ppm	0.0019 ppm	0.0260 ppm	0.3846 ppm	-0.0006 ppm	0.1437 ppm
Concentration per Run 1	0.0033 ppm	3.1966 ppm	0.0019 ppm	0.0260 ppm	0.3887 ppm	-0.0013 ppm	0.1452 ppm
Concentration per Run 2	0.0016 ppm	3.0698 ppm	0.0025 ppm	0.0258 ppm	0.3868 ppm	0.0000 ppm	0.1435 ppm
Concentration per Run 3	0.0025 ppm	3.0762 ppm	0.0014 ppm	0.0261 ppm	0.3784 ppm	-0.0006 ppm	0.1423 ppm
Concentration RSD	33.6 %	2.3 %	28.0 %	0.5 %	1.4 %	108.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2427 ppm	102.0958 %	106.7023 %	99.5413 %	100.2150 %	107.0522 %	104.2453 %
Concentration per Run 1	0.2454 ppm	100.3866 %	106.3974 %	99.4569 %	99.2546 %	107.1696 %	104.3455 %
Concentration per Run 2	0.2424 ppm	102.9681 %	106.4809 %	99.4175 %	101.4484 %	106.6101 %	104.2546 %
Concentration per Run 3	0.2402 ppm	102.9327 %	107.2287 %	99.7496 %	99.9421 %	107.3769 %	104.1358 %
Concentration RSD	1.1 %	1.4 %	0.4 %	0.2 %	1.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-09d2 WG1934242
Analysis started at: 6/14/2024 10:17:07 PM
Rack 3
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	51.9572 ppm	0.0526 ppm	0.0635 ppm	0.1068 ppm	0.0024 ppm	6.1586 ppm
Concentration per Run 1	0.0002 ppm	52.1141 ppm	0.0536 ppm	0.0630 ppm	0.1068 ppm	0.0024 ppm	6.1837 ppm
Concentration per Run 2	0.0004 ppm	51.8117 ppm	0.0537 ppm	0.0629 ppm	0.1073 ppm	0.0024 ppm	6.1494 ppm
Concentration per Run 3	-0.0001 ppm	51.9458 ppm	0.0504 ppm	0.0645 ppm	0.1062 ppm	0.0024 ppm	6.1429 ppm
Concentration RSD	175.1 %	0.3 %	3.5 %	1.4 %	0.5 %	1.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0079 ppm	0.2165 ppm	0.0340 ppm	112.5710 ppm	13.0639 ppm	0.0230 ppm
Concentration per Run 1	0.0004 ppm	0.0076 ppm	0.2194 ppm	0.0344 ppm	112.9580 ppm	13.1756 ppm	0.0251 ppm
Concentration per Run 2	0.0004 ppm	0.0083 ppm	0.2157 ppm	0.0339 ppm	112.7143 ppm	12.9352 ppm	0.0236 ppm
Concentration per Run 3	0.0005 ppm	0.0077 ppm	0.2143 ppm	0.0336 ppm	112.0407 ppm	13.0808 ppm	0.0203 ppm
Concentration RSD	4.6 %	4.9 %	1.2 %	1.2 %	0.4 %	0.9 %	10.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.2115 ppm	0.1214 ppm	0.0074 ppm	0.7908 ppm	0.0185 ppm	0.0378 ppm	0.0051 ppm
Concentration per Run 1	7.3074 ppm	0.1218 ppm	0.0078 ppm	0.7913 ppm	0.0190 ppm	0.0381 ppm	0.0081 ppm
Concentration per Run 2	7.1766 ppm	0.1213 ppm	0.0072 ppm	0.7934 ppm	0.0186 ppm	0.0383 ppm	0.0047 ppm
Concentration per Run 3	7.1504 ppm	0.1210 ppm	0.0074 ppm	0.7877 ppm	0.0179 ppm	0.0370 ppm	0.0025 ppm
Concentration RSD	1.2 %	0.3 %	4.3 %	0.4 %	3.1 %	1.8 %	54.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	3.4020 ppm	0.0033 ppm	0.0424 ppm	0.3576 ppm	0.0006 ppm	0.2724 ppm
Concentration per Run 1	0.0012 ppm	3.4560 ppm	0.0031 ppm	0.0427 ppm	0.3609 ppm	0.0012 ppm	0.2759 ppm
Concentration per Run 2	0.0029 ppm	3.3893 ppm	0.0042 ppm	0.0423 ppm	0.3560 ppm	0.0006 ppm	0.2715 ppm
Concentration per Run 3	-0.0006 ppm	3.3606 ppm	0.0027 ppm	0.0422 ppm	0.3560 ppm	-0.0001 ppm	0.2700 ppm
Concentration RSD	149.5 %	1.4 %	23.7 %	0.6 %	0.8 %	109.6 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0937 ppm	103.2422 %	108.9990 %	99.4830 %	102.2059 %	110.9072 %	106.1815 %
Concentration per Run 1	0.0949 ppm	102.0149 %	108.4873 %	99.3628 %	102.2204 %	110.4270 %	106.5865 %
Concentration per Run 2	0.0932 ppm	103.8670 %	108.6941 %	99.6712 %	102.5200 %	110.8452 %	106.1207 %
Concentration per Run 3	0.0931 ppm	103.8446 %	109.8157 %	99.4150 %	101.8773 %	111.4494 %	105.8374 %
Concentration RSD	1.1 %	1.0 %	0.7 %	0.2 %	0.3 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-10d2 WG1934242
Analysis started at: 6/14/2024 10:21:09 PM
Rack 3
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	39.9761 ppm	0.0571 ppm	0.0941 ppm	0.7066 ppm	0.0087 ppm	166.2060 ppm
Concentration per Run 1	0.0003 ppm	39.8945 ppm	0.0562 ppm	0.0953 ppm	0.7060 ppm	0.0086 ppm	166.1943 ppm
Concentration per Run 2	0.0001 ppm	40.0905 ppm	0.0578 ppm	0.0946 ppm	0.7087 ppm	0.0087 ppm	166.0644 ppm
Concentration per Run 3	0.0000 ppm	39.9433 ppm	0.0572 ppm	0.0923 ppm	0.7052 ppm	0.0088 ppm	166.3593 ppm
Concentration RSD	138.6 %	0.3 %	1.4 %	1.6 %	0.3 %	1.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0044 ppm	0.0199 ppm	0.4057 ppm	0.1536 ppm	127.7577 ppm	11.9987 ppm	0.0505 ppm
Concentration per Run 1	0.0044 ppm	0.0199 ppm	0.4111 ppm	0.1554 ppm	127.7007 ppm	12.0448 ppm	0.0511 ppm
Concentration per Run 2	0.0043 ppm	0.0205 ppm	0.4042 ppm	0.1532 ppm	127.6886 ppm	12.0417 ppm	0.0508 ppm
Concentration per Run 3	0.0044 ppm	0.0192 ppm	0.4017 ppm	0.1522 ppm	127.8837 ppm	11.9096 ppm	0.0496 ppm
Concentration RSD	2.2 %	3.4 %	1.2 %	1.1 %	0.1 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.7048 ppm	1.4729 ppm	0.0100 ppm	1.1300 ppm	0.0508 ppm	0.6395 ppm	0.1192 ppm
Concentration per Run 1	66.5339 ppm	1.4733 ppm	0.0103 ppm	1.1317 ppm	0.0515 ppm	0.6406 ppm	0.1199 ppm
Concentration per Run 2	65.6896 ppm	1.4734 ppm	0.0100 ppm	1.1270 ppm	0.0509 ppm	0.6424 ppm	0.1217 ppm
Concentration per Run 3	64.8908 ppm	1.4721 ppm	0.0096 ppm	1.1314 ppm	0.0501 ppm	0.6355 ppm	0.1160 ppm
Concentration RSD	1.3 %	0.0 %	3.5 %	0.2 %	1.3 %	0.6 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	11.8860 ppm	0.0221 ppm	0.3646 ppm	1.0647 ppm	0.0007 ppm	0.2127 ppm
Concentration per Run 1	0.0064 ppm	12.0883 ppm	0.0224 ppm	0.3631 ppm	1.0766 ppm	-0.0004 ppm	0.2145 ppm
Concentration per Run 2	0.0061 ppm	11.8435 ppm	0.0224 ppm	0.3644 ppm	1.0622 ppm	0.0018 ppm	0.2127 ppm
Concentration per Run 3	0.0050 ppm	11.7263 ppm	0.0215 ppm	0.3663 ppm	1.0553 ppm	0.0007 ppm	0.2108 ppm
Concentration RSD	12.7 %	1.6 %	2.2 %	0.4 %	1.0 %	154.9 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7391 ppm	100.8997 %	109.1058 %	92.9685 %	103.0038 %	114.4418 %	106.5795 %
Concentration per Run 1	0.7476 ppm	99.8434 %	108.7917 %	92.8187 %	102.6598 %	114.3547 %	106.8240 %
Concentration per Run 2	0.7411 ppm	100.5911 %	108.9682 %	92.7888 %	102.6166 %	113.9199 %	106.3686 %
Concentration per Run 3	0.7287 ppm	102.2645 %	109.5576 %	93.2982 %	103.7351 %	115.0507 %	106.5459 %
Concentration RSD	1.3 %	1.2 %	0.4 %	0.3 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-11d2 WG1934242
Analysis started at: 6/14/2024 10:25:10 PM
Rack 3
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	24.7421 ppm	0.0394 ppm	0.0297 ppm	0.1892 ppm	0.0015 ppm	4.4191 ppm
Concentration per Run 1	-0.0004 ppm	24.7673 ppm	0.0397 ppm	0.0311 ppm	0.1894 ppm	0.0015 ppm	4.4260 ppm
Concentration per Run 2	-0.0003 ppm	24.7810 ppm	0.0409 ppm	0.0283 ppm	0.1900 ppm	0.0015 ppm	4.4070 ppm
Concentration per Run 3	0.0000 ppm	24.6780 ppm	0.0377 ppm	0.0298 ppm	0.1882 ppm	0.0015 ppm	4.4242 ppm
Concentration RSD	93.4 %	0.2 %	4.1 %	4.8 %	0.5 %	2.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0070 ppm	0.1001 ppm	0.0681 ppm	64.2227 ppm	5.4745 ppm	0.0176 ppm
Concentration per Run 1	0.0007 ppm	0.0072 ppm	0.1012 ppm	0.0693 ppm	64.3894 ppm	5.5049 ppm	0.0192 ppm
Concentration per Run 2	0.0007 ppm	0.0068 ppm	0.1001 ppm	0.0679 ppm	64.4330 ppm	5.4720 ppm	0.0147 ppm
Concentration per Run 3	0.0006 ppm	0.0070 ppm	0.0990 ppm	0.0670 ppm	63.8458 ppm	5.4465 ppm	0.0189 ppm
Concentration RSD	8.0 %	2.7 %	1.1 %	1.7 %	0.5 %	0.5 %	14.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.9855 ppm	0.2738 ppm	0.0034 ppm	0.1694 ppm	0.0185 ppm	0.2487 ppm	0.0062 ppm
Concentration per Run 1	5.0456 ppm	0.2740 ppm	0.0033 ppm	0.1669 ppm	0.0194 ppm	0.2498 ppm	0.0072 ppm
Concentration per Run 2	4.9677 ppm	0.2736 ppm	0.0035 ppm	0.1699 ppm	0.0181 ppm	0.2487 ppm	0.0045 ppm
Concentration per Run 3	4.9431 ppm	0.2737 ppm	0.0033 ppm	0.1713 ppm	0.0179 ppm	0.2476 ppm	0.0067 ppm
Concentration RSD	1.1 %	0.1 %	4.8 %	1.3 %	4.3 %	0.4 %	23.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	3.3316 ppm	0.0067 ppm	0.0330 ppm	0.3661 ppm	-0.0003 ppm	0.1111 ppm
Concentration per Run 1	0.0019 ppm	3.4316 ppm	0.0069 ppm	0.0332 ppm	0.3713 ppm	0.0004 ppm	0.1125 ppm
Concentration per Run 2	0.0017 ppm	3.3394 ppm	0.0062 ppm	0.0329 ppm	0.3665 ppm	-0.0021 ppm	0.1111 ppm
Concentration per Run 3	-0.0005 ppm	3.2237 ppm	0.0071 ppm	0.0329 ppm	0.3606 ppm	0.0010 ppm	0.1095 ppm
Concentration RSD	129.3 %	3.1 %	6.6 %	0.6 %	1.5 %	656.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2140 ppm	101.4560 %	105.9087 %	99.8522 %	98.8833 %	104.9213 %	102.6565 %
Concentration per Run 1	0.2166 ppm	99.7440 %	105.3739 %	99.2907 %	98.3026 %	104.4935 %	102.3613 %
Concentration per Run 2	0.2139 ppm	102.0826 %	106.0826 %	100.1337 %	99.4564 %	104.9875 %	103.2077 %
Concentration per Run 3	0.2115 ppm	102.5414 %	106.2695 %	100.1323 %	98.8909 %	105.2828 %	102.4004 %
Concentration RSD	1.2 %	1.5 %	0.4 %	0.5 %	0.6 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-12d2 WG1934242
Analysis started at: 6/14/2024 10:29:13 PM
Rack 3
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0062 ppm	45.9037 ppm	0.4671 ppm	0.0559 ppm	0.0943 ppm	0.0146 ppm	19.7219 ppm
Concentration per Run 1	0.0062 ppm	45.9065 ppm	0.4710 ppm	0.0571 ppm	0.0947 ppm	0.0146 ppm	19.7124 ppm
Concentration per Run 2	0.0063 ppm	46.0142 ppm	0.4627 ppm	0.0547 ppm	0.0941 ppm	0.0145 ppm	19.7276 ppm
Concentration per Run 3	0.0061 ppm	45.7903 ppm	0.4675 ppm	0.0560 ppm	0.0941 ppm	0.0146 ppm	19.7256 ppm
Concentration RSD	2.0 %	0.2 %	0.9 %	2.2 %	0.4 %	0.5 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0091 ppm	0.5163 ppm	0.0317 ppm	431.7790 ppm	10.4473 ppm	0.0171 ppm
Concentration per Run 1	0.0044 ppm	0.0094 ppm	0.5223 ppm	0.0326 ppm	431.9563 ppm	10.4293 ppm	0.0174 ppm
Concentration per Run 2	0.0039 ppm	0.0090 ppm	0.5135 ppm	0.0310 ppm	431.4027 ppm	10.5476 ppm	0.0160 ppm
Concentration per Run 3	0.0040 ppm	0.0089 ppm	0.5132 ppm	0.0316 ppm	431.9781 ppm	10.3649 ppm	0.0178 ppm
Concentration RSD	7.0 %	2.6 %	1.0 %	2.4 %	0.1 %	0.9 %	5.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0478 ppm	0.1778 ppm	0.0186 ppm	1.3227 ppm	0.0266 ppm	0.0330 ppm	0.0131 ppm
Concentration per Run 1	6.1273 ppm	0.1778 ppm	0.0184 ppm	1.3338 ppm	0.0259 ppm	0.0341 ppm	0.0142 ppm
Concentration per Run 2	6.0215 ppm	0.1777 ppm	0.0185 ppm	1.3142 ppm	0.0267 ppm	0.0330 ppm	0.0114 ppm
Concentration per Run 3	5.9945 ppm	0.1779 ppm	0.0188 ppm	1.3201 ppm	0.0271 ppm	0.0317 ppm	0.0136 ppm
Concentration RSD	1.2 %	0.1 %	1.0 %	0.8 %	2.2 %	3.6 %	11.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0062 ppm	2.5093 ppm	0.0040 ppm	0.1145 ppm	0.5312 ppm	0.0016 ppm	0.2729 ppm
Concentration per Run 1	0.0060 ppm	2.5661 ppm	0.0048 ppm	0.1150 ppm	0.5379 ppm	0.0024 ppm	0.2738 ppm
Concentration per Run 2	0.0054 ppm	2.4979 ppm	0.0036 ppm	0.1138 ppm	0.5285 ppm	0.0028 ppm	0.2736 ppm
Concentration per Run 3	0.0071 ppm	2.4639 ppm	0.0036 ppm	0.1147 ppm	0.5272 ppm	-0.0005 ppm	0.2712 ppm
Concentration RSD	13.2 %	2.1 %	17.2 %	0.5 %	1.1 %	115.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2018 ppm	103.4861 %	110.4291 %	93.9878 %	98.6347 %	110.2138 %	103.0784 %
Concentration per Run 1	0.2046 ppm	102.2530 %	110.6301 %	93.8093 %	97.6302 %	110.4510 %	102.8782 %
Concentration per Run 2	0.2008 ppm	104.1658 %	110.2512 %	94.0122 %	99.2969 %	109.7766 %	103.1731 %
Concentration per Run 3	0.1999 ppm	104.0394 %	110.4059 %	94.1420 %	98.9770 %	110.4136 %	103.1839 %
Concentration RSD	1.2 %	1.0 %	0.2 %	0.2 %	0.9 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-13d2 WG1934242
Analysis started at: 6/14/2024 10:33:16 PM
Rack 3
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	96.9089 ppm	0.4751 ppm	0.1975 ppm	0.1241 ppm	0.0070 ppm	3.2277 ppm
Concentration per Run 1	0.0002 ppm	96.9755 ppm	0.4790 ppm	0.2000 ppm	0.1240 ppm	0.0070 ppm	3.2301 ppm
Concentration per Run 2	0.0001 ppm	96.5262 ppm	0.4743 ppm	0.1980 ppm	0.1241 ppm	0.0070 ppm	3.2398 ppm
Concentration per Run 3	0.0001 ppm	97.2252 ppm	0.4719 ppm	0.1945 ppm	0.1243 ppm	0.0070 ppm	3.2131 ppm
Concentration RSD	59.4 %	0.4 %	0.8 %	1.4 %	0.1 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0123 ppm	0.4262 ppm	0.0696 ppm	345.5380 ppm	51.1668 ppm	0.0526 ppm
Concentration per Run 1	0.0020 ppm	0.0132 ppm	0.4324 ppm	0.0718 ppm	344.8684 ppm	51.3613 ppm	0.0545 ppm
Concentration per Run 2	0.0014 ppm	0.0116 ppm	0.4240 ppm	0.0685 ppm	347.0569 ppm	50.8422 ppm	0.0521 ppm
Concentration per Run 3	0.0016 ppm	0.0121 ppm	0.4223 ppm	0.0685 ppm	344.6888 ppm	51.2969 ppm	0.0513 ppm
Concentration RSD	17.9 %	6.9 %	1.3 %	2.7 %	0.4 %	0.6 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3299 ppm	0.2017 ppm	0.0018 ppm	3.6198 ppm	0.0261 ppm	0.0896 ppm	0.0100 ppm
Concentration per Run 1	15.5576 ppm	0.2018 ppm	0.0021 ppm	3.6174 ppm	0.0260 ppm	0.0905 ppm	0.0110 ppm
Concentration per Run 2	15.2555 ppm	0.2021 ppm	0.0017 ppm	3.6396 ppm	0.0269 ppm	0.0900 ppm	0.0089 ppm
Concentration per Run 3	15.1765 ppm	0.2012 ppm	0.0017 ppm	3.6025 ppm	0.0256 ppm	0.0882 ppm	0.0101 ppm
Concentration RSD	1.3 %	0.2 %	14.5 %	0.5 %	2.5 %	1.3 %	10.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0065 ppm	3.5556 ppm	0.0071 ppm	0.0367 ppm	0.4448 ppm	0.0088 ppm	1.3009 ppm
Concentration per Run 1	0.0054 ppm	3.6878 ppm	0.0074 ppm	0.0366 ppm	0.4538 ppm	0.0073 ppm	1.3048 ppm
Concentration per Run 2	0.0055 ppm	3.5215 ppm	0.0067 ppm	0.0369 ppm	0.4418 ppm	0.0093 ppm	1.3050 ppm
Concentration per Run 3	0.0084 ppm	3.4574 ppm	0.0071 ppm	0.0364 ppm	0.4389 ppm	0.0097 ppm	1.2929 ppm
Concentration RSD	26.6 %	3.3 %	5.4 %	0.6 %	1.8 %	14.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1703 ppm	111.8559 %	116.9770 %	100.7454 %	104.6721 %	114.9230 %	107.7027 %
Concentration per Run 1	0.1734 ppm	109.8855 %	117.1523 %	101.3903 %	102.9146 %	115.2343 %	108.3568 %
Concentration per Run 2	0.1687 ppm	112.6758 %	116.2995 %	100.5203 %	105.3939 %	114.6079 %	107.4656 %
Concentration per Run 3	0.1687 ppm	113.0064 %	117.4791 %	100.3256 %	105.7079 %	114.9268 %	107.2857 %
Concentration RSD	1.6 %	1.5 %	0.5 %	0.6 %	1.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-14d2 WG1934242
Analysis started at: 6/14/2024 10:37:18 PM
Rack 3
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	56.4246 ppm	0.1741 ppm	0.0716 ppm	0.2797 ppm	0.0102 ppm	1.4669 ppm
Concentration per Run 1	0.0002 ppm	56.4611 ppm	0.1719 ppm	0.0699 ppm	0.2801 ppm	0.0101 ppm	1.4686 ppm
Concentration per Run 2	0.0004 ppm	56.5601 ppm	0.1768 ppm	0.0722 ppm	0.2787 ppm	0.0103 ppm	1.4630 ppm
Concentration per Run 3	-0.0001 ppm	56.2525 ppm	0.1737 ppm	0.0728 ppm	0.2803 ppm	0.0103 ppm	1.4690 ppm
Concentration RSD	157.2 %	0.3 %	1.4 %	2.1 %	0.3 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0815 ppm	0.1873 ppm	0.0873 ppm	143.3617 ppm	23.4786 ppm	0.1393 ppm
Concentration per Run 1	0.0013 ppm	0.0829 ppm	0.1901 ppm	0.0886 ppm	143.7007 ppm	23.5993 ppm	0.1406 ppm
Concentration per Run 2	0.0010 ppm	0.0814 ppm	0.1869 ppm	0.0871 ppm	143.0288 ppm	23.6017 ppm	0.1385 ppm
Concentration per Run 3	0.0010 ppm	0.0802 ppm	0.1850 ppm	0.0862 ppm	143.3556 ppm	23.2349 ppm	0.1389 ppm
Concentration RSD	13.2 %	1.7 %	1.4 %	1.4 %	0.2 %	0.9 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.7869 ppm	0.6156 ppm	0.0026 ppm	1.5162 ppm	0.1544 ppm	0.0782 ppm	0.0054 ppm
Concentration per Run 1	22.0801 ppm	0.6161 ppm	0.0024 ppm	1.5099 ppm	0.1581 ppm	0.0790 ppm	0.0070 ppm
Concentration per Run 2	21.6749 ppm	0.6152 ppm	0.0026 ppm	1.5164 ppm	0.1539 ppm	0.0779 ppm	0.0081 ppm
Concentration per Run 3	21.6057 ppm	0.6156 ppm	0.0029 ppm	1.5223 ppm	0.1511 ppm	0.0776 ppm	0.0010 ppm
Concentration RSD	1.2 %	0.1 %	8.9 %	0.4 %	2.3 %	1.0 %	70.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	2.6357 ppm	0.0039 ppm	0.0516 ppm	2.1351 ppm	0.0070 ppm	0.5355 ppm
Concentration per Run 1	-0.0009 ppm	2.7058 ppm	0.0039 ppm	0.0515 ppm	2.1702 ppm	0.0057 ppm	0.5399 ppm
Concentration per Run 2	0.0030 ppm	2.6068 ppm	0.0036 ppm	0.0512 ppm	2.1271 ppm	0.0085 ppm	0.5358 ppm
Concentration per Run 3	-0.0003 ppm	2.5946 ppm	0.0043 ppm	0.0523 ppm	2.1080 ppm	0.0069 ppm	0.5308 ppm
Concentration RSD	364.5 %	2.3 %	8.8 %	1.1 %	1.5 %	20.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0210 ppm	109.1783 %	115.7729 %	102.1740 %	148.4569 %	164.0269 %	155.9491 %
Concentration per Run 1	1.0417 ppm	107.7815 %	115.8383 %	102.5028 %	148.0359 %	164.3236 %	157.1215 %
Concentration per Run 2	1.0192 ppm	110.0820 %	116.2933 %	101.4763 %	149.5843 %	164.3643 %	154.6199 %
Concentration per Run 3	1.0021 ppm	109.6714 %	115.1871 %	102.5428 %	147.7503 %	163.3929 %	156.1059 %
Concentration RSD	1.9 %	1.1 %	0.5 %	0.6 %	0.7 %	0.3 %	0.8 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 10:41:20 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4973 ppm	0.4767 ppm	0.4651 ppm	0.4881 ppm	0.5000 ppm	0.5022 ppm	0.4857 ppm
Concentration per Run 1	0.5016 ppm	0.4771 ppm	0.4665 ppm	0.4969 ppm	0.4999 ppm	0.5025 ppm	0.4860 ppm
Concentration per Run 2	0.4982 ppm	0.4750 ppm	0.4643 ppm	0.4846 ppm	0.5000 ppm	0.5036 ppm	0.4857 ppm
Concentration per Run 3	0.4921 ppm	0.4779 ppm	0.4646 ppm	0.4826 ppm	0.5002 ppm	0.5005 ppm	0.4854 ppm
Recovery Percentage 1	99.462 %	95.336 %	93.027 %	97.614 %	100.001 %	100.439 %	97.142 %
Concentration RSD	1.0 %	0.3 %	0.3 %	1.6 %	0.0 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4913 ppm	0.5040 ppm	0.4843 ppm	0.4893 ppm	0.5172 ppm	5.0690 ppm	0.4810 ppm
Concentration per Run 1	0.5016 ppm	0.5131 ppm	0.4920 ppm	0.4967 ppm	0.5173 ppm	5.0623 ppm	0.4838 ppm
Concentration per Run 2	0.4862 ppm	0.5018 ppm	0.4825 ppm	0.4896 ppm	0.5188 ppm	5.1138 ppm	0.4816 ppm
Concentration per Run 3	0.4860 ppm	0.4971 ppm	0.4785 ppm	0.4817 ppm	0.5155 ppm	5.0309 ppm	0.4777 ppm
Recovery Percentage 1	98.256 %	100.798 %	96.868 %	97.865 %	103.438 %	101.380 %	96.205 %
Concentration RSD	1.8 %	1.6 %	1.4 %	1.5 %	0.3 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4921 ppm	0.4862 ppm	0.4845 ppm	9.7363 ppm	0.5055 ppm	0.4864 ppm	0.4793 ppm
Concentration per Run 1	0.5000 ppm	0.4863 ppm	0.4877 ppm	9.7386 ppm	0.5157 ppm	0.4893 ppm	0.4875 ppm
Concentration per Run 2	0.4922 ppm	0.4873 ppm	0.4808 ppm	9.7670 ppm	0.5019 ppm	0.4869 ppm	0.4791 ppm
Concentration per Run 3	0.4839 ppm	0.4849 ppm	0.4852 ppm	9.7032 ppm	0.4989 ppm	0.4831 ppm	0.4715 ppm
Recovery Percentage 1	98.414 %	97.234 %	96.908 %	97.363 %	101.094 %	97.283 %	95.868 %
Concentration RSD	1.6 %	0.2 %	0.7 %	0.3 %	1.8 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4745 ppm	5.0942 ppm	0.5098 ppm	0.5010 ppm	0.4965 ppm	0.4836 ppm	0.4882 ppm
Concentration per Run 1	0.4762 ppm	5.1770 ppm	0.5164 ppm	0.5018 ppm	0.5036 ppm	0.4843 ppm	0.4952 ppm
Concentration per Run 2	0.4745 ppm	5.0705 ppm	0.5048 ppm	0.5018 ppm	0.4957 ppm	0.4842 ppm	0.4880 ppm
Concentration per Run 3	0.4727 ppm	5.0350 ppm	0.5081 ppm	0.4993 ppm	0.4901 ppm	0.4822 ppm	0.4815 ppm
Recovery Percentage 1	94.899 %	97.032 %	101.956 %	100.200 %	99.290 %	96.718 %	97.639 %
Concentration RSD	0.4 %	1.5 %	1.2 %	0.3 %	1.4 %	0.2 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4989 ppm	99.2340 %	104.1351 %	101.0554 %	94.6171 %	100.2297 %	98.5049 %
Concentration per Run 1	0.5093 ppm	97.2714 %	103.2955 %	100.3954 %	93.7390 %	99.4737 %	98.4349 %
Concentration per Run 2	0.4939 ppm	100.1395 %	103.5523 %	100.7359 %	95.4456 %	99.7757 %	98.0158 %
Concentration per Run 3	0.4936 ppm	100.2911 %	105.5577 %	102.0349 %	94.6665 %	101.4397 %	99.0639 %
Recovery Percentage 1	99.789 %						
Concentration RSD	1.8 %	1.7 %	1.2 %	0.9 %	0.9 %	1.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 10:45:20 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0051 ppm	0.0013 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 1	-0.0004 ppm	-0.0080 ppm	0.0016 ppm	0.0015 ppm	0.0003 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 2	-0.0002 ppm	0.0025 ppm	0.0004 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 3	-0.0002 ppm	-0.0098 ppm	0.0021 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0064 ppm
Recovery Percentage 1	-4.395 %	-5.095 %	44.949 %	1.654 %	2.088 %	0.819 %	6.724 %
Concentration RSD	37.5 %	130.6 %	65.5 %	172.2 %	59.6 %	137.6 %	23.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0086 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0091 ppm	0.0160 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0096 ppm	-0.0270 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0072 ppm	0.0144 ppm	0.0001 ppm
Recovery Percentage 1	-0.708 %	0.094 %	-0.877 %	6.458 %	17.278 %	0.046 %	-0.650 %
Concentration RSD	109.9 %	691.0 %	266.3 %	4.5 %	14.9 %	2,113.0 %	520.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0002 ppm	0.0014 ppm	-0.0393 ppm	-0.0004 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	0.0015 ppm	-0.0436 ppm	-0.0001 ppm	-0.0005 ppm	0.0021 ppm
Concentration per Run 2	0.0016 ppm	0.0002 ppm	0.0014 ppm	-0.0384 ppm	-0.0004 ppm	-0.0010 ppm	-0.0021 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0013 ppm	-0.0358 ppm	-0.0006 ppm	0.0007 ppm	0.0016 ppm
Recovery Percentage 1	0.689 %	1.863 %	2.776 %	-1.965 %	-1.442 %	-2.519 %	1.060 %
Concentration RSD	113.7 %	107.2 %	6.9 %	10.1 %	76.8 %	344.9 %	426.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	-0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	-0.0020 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0013 ppm	-0.0037 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.0017 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0015 ppm	-0.0001 ppm
Recovery Percentage 1	11.091 %	-0.363 %	0.138 %	0.572 %	2.023 %	-4.224 %	-0.585 %
Concentration RSD	61.6 %	109.3 %	560.2 %	69.9 %	30.5 %	115.6 %	114.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	94.1959 %	98.9593 %	97.6691 %	96.7860 %	100.3443 %	99.9076 %
Concentration per Run 1	0.0011 ppm	92.3874 %	98.4946 %	97.1262 %	96.3271 %	100.5111 %	100.0048 %
Concentration per Run 2	0.0012 ppm	94.3469 %	98.8076 %	98.0462 %	96.8080 %	100.0824 %	100.2088 %
Concentration per Run 3	0.0013 ppm	95.8535 %	99.5756 %	97.8349 %	97.2229 %	100.4393 %	99.5092 %
Recovery Percentage 1	24.552 %						
Concentration RSD	7.2 %	1.8 %	0.6 %	0.5 %	0.5 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-15d2 WG1934242
Analysis started at: 6/14/2024 11:09:47 PM
Rack 3
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	27.7652 ppm	0.0428 ppm	0.0159 ppm	0.4019 ppm	0.0018 ppm	7.1754 ppm
Concentration per Run 1	0.0014 ppm	27.7373 ppm	0.0418 ppm	0.0141 ppm	0.3996 ppm	0.0018 ppm	7.1237 ppm
Concentration per Run 2	0.0019 ppm	27.8535 ppm	0.0441 ppm	0.0165 ppm	0.4006 ppm	0.0018 ppm	7.1964 ppm
Concentration per Run 3	0.0015 ppm	27.7048 ppm	0.0423 ppm	0.0171 ppm	0.4055 ppm	0.0019 ppm	7.2062 ppm
Concentration RSD	17.1 %	0.3 %	2.9 %	10.1 %	0.8 %	2.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0064 ppm	0.0099 ppm	0.0781 ppm	0.1583 ppm	90.8901 ppm	2.5414 ppm	0.0198 ppm
Concentration per Run 1	0.0062 ppm	0.0094 ppm	0.0750 ppm	0.1519 ppm	90.2340 ppm	2.5559 ppm	0.0210 ppm
Concentration per Run 2	0.0064 ppm	0.0103 ppm	0.0787 ppm	0.1590 ppm	91.2663 ppm	2.5768 ppm	0.0196 ppm
Concentration per Run 3	0.0066 ppm	0.0100 ppm	0.0808 ppm	0.1640 ppm	91.1701 ppm	2.4915 ppm	0.0189 ppm
Concentration RSD	2.9 %	4.8 %	3.8 %	3.8 %	0.6 %	1.8 %	5.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1264 ppm	0.4935 ppm	0.0055 ppm	0.4337 ppm	0.0380 ppm	0.7906 ppm	0.0118 ppm
Concentration per Run 1	3.0049 ppm	0.4906 ppm	0.0053 ppm	0.4291 ppm	0.0362 ppm	0.7798 ppm	0.0109 ppm
Concentration per Run 2	3.1379 ppm	0.4940 ppm	0.0054 ppm	0.4384 ppm	0.0385 ppm	0.7888 ppm	0.0127 ppm
Concentration per Run 3	3.2363 ppm	0.4961 ppm	0.0058 ppm	0.4336 ppm	0.0394 ppm	0.8032 ppm	0.0117 ppm
Concentration RSD	3.7 %	0.6 %	4.3 %	1.1 %	4.3 %	1.5 %	7.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	2.5993 ppm	0.2247 ppm	0.1737 ppm	0.2844 ppm	0.0002 ppm	0.0921 ppm
Concentration per Run 1	0.0027 ppm	2.5061 ppm	0.2241 ppm	0.1727 ppm	0.2718 ppm	-0.0003 ppm	0.0884 ppm
Concentration per Run 2	0.0006 ppm	2.5949 ppm	0.2238 ppm	0.1742 ppm	0.2870 ppm	-0.0002 ppm	0.0927 ppm
Concentration per Run 3	-0.0010 ppm	2.6968 ppm	0.2263 ppm	0.1740 ppm	0.2943 ppm	0.0012 ppm	0.0953 ppm
Concentration RSD	254.4 %	3.7 %	0.6 %	0.5 %	4.0 %	368.2 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9159 ppm	125.5822 %	112.5353 %	108.0100 %	100.6750 %	106.7364 %	103.5813 %
Concentration per Run 1	0.8826 ppm	129.9750 %	113.5077 %	109.6170 %	100.2818 %	107.1019 %	103.6280 %
Concentration per Run 2	0.9173 ppm	124.6950 %	111.0380 %	108.3176 %	100.7556 %	105.2835 %	103.8807 %
Concentration per Run 3	0.9478 ppm	122.0766 %	113.0601 %	106.0955 %	100.9877 %	107.8238 %	103.2352 %
Concentration RSD	3.6 %	3.2 %	1.2 %	1.6 %	0.4 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-16d2 WG1934242
Analysis started at: 6/14/2024 11:14:10 PM
Rack 3
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	20.6656 ppm	0.0195 ppm	0.0503 ppm	0.0745 ppm	0.0013 ppm	3.3973 ppm
Concentration per Run 1	0.0003 ppm	20.5342 ppm	0.0193 ppm	0.0505 ppm	0.0745 ppm	0.0014 ppm	3.4046 ppm
Concentration per Run 2	-0.0003 ppm	20.7784 ppm	0.0198 ppm	0.0509 ppm	0.0745 ppm	0.0013 ppm	3.3980 ppm
Concentration per Run 3	-0.0004 ppm	20.6841 ppm	0.0194 ppm	0.0495 ppm	0.0745 ppm	0.0013 ppm	3.3894 ppm
Concentration RSD	255.6 %	0.6 %	1.5 %	1.4 %	0.1 %	3.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0067 ppm	0.1005 ppm	0.0231 ppm	33.9324 ppm	7.4018 ppm	0.0133 ppm
Concentration per Run 1	0.0004 ppm	0.0066 ppm	0.1015 ppm	0.0234 ppm	34.0296 ppm	7.3733 ppm	0.0141 ppm
Concentration per Run 2	0.0004 ppm	0.0067 ppm	0.1002 ppm	0.0230 ppm	33.9845 ppm	7.4394 ppm	0.0132 ppm
Concentration per Run 3	0.0004 ppm	0.0069 ppm	0.0997 ppm	0.0229 ppm	33.7830 ppm	7.3928 ppm	0.0126 ppm
Concentration RSD	5.9 %	2.3 %	0.9 %	1.2 %	0.4 %	0.5 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.5721 ppm	0.0846 ppm	0.0029 ppm	0.2901 ppm	0.0133 ppm	0.0509 ppm	0.0020 ppm
Concentration per Run 1	3.6180 ppm	0.0851 ppm	0.0033 ppm	0.2937 ppm	0.0135 ppm	0.0510 ppm	0.0011 ppm
Concentration per Run 2	3.5725 ppm	0.0846 ppm	0.0027 ppm	0.2915 ppm	0.0132 ppm	0.0517 ppm	0.0037 ppm
Concentration per Run 3	3.5257 ppm	0.0840 ppm	0.0027 ppm	0.2850 ppm	0.0132 ppm	0.0500 ppm	0.0013 ppm
Concentration RSD	1.3 %	0.6 %	13.0 %	1.6 %	1.2 %	1.7 %	72.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	3.1313 ppm	0.0028 ppm	0.0255 ppm	0.2520 ppm	0.0000 ppm	0.0746 ppm
Concentration per Run 1	0.0001 ppm	3.1850 ppm	0.0026 ppm	0.0257 ppm	0.2559 ppm	0.0000 ppm	0.0757 ppm
Concentration per Run 2	0.0020 ppm	3.1035 ppm	0.0028 ppm	0.0254 ppm	0.2531 ppm	-0.0004 ppm	0.0746 ppm
Concentration per Run 3	0.0002 ppm	3.1054 ppm	0.0030 ppm	0.0254 ppm	0.2470 ppm	0.0004 ppm	0.0736 ppm
Concentration RSD	147.5 %	1.5 %	6.1 %	0.7 %	1.8 %	36,238.5 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1478 ppm	100.6388 %	105.3645 %	99.8055 %	100.5242 %	106.9291 %	104.8336 %
Concentration per Run 1	0.1484 ppm	99.1631 %	105.4615 %	98.9399 %	100.1870 %	107.3340 %	104.6486 %
Concentration per Run 2	0.1491 ppm	101.1333 %	105.9270 %	100.2084 %	100.8583 %	107.3201 %	104.9783 %
Concentration per Run 3	0.1460 ppm	101.6200 %	104.7050 %	100.2682 %	100.5274 %	106.1331 %	104.8738 %
Concentration RSD	1.1 %	1.3 %	0.6 %	0.8 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432433-17d2 WG1934242
Analysis started at: 6/14/2024 11:18:12 PM
Rack 3
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	60.9757 ppm	0.2472 ppm	0.2066 ppm	0.2096 ppm	0.0115 ppm	2.4781 ppm
Concentration per Run 1	0.0008 ppm	60.6628 ppm	0.2465 ppm	0.2084 ppm	0.2086 ppm	0.0114 ppm	2.4793 ppm
Concentration per Run 2	0.0000 ppm	61.1788 ppm	0.2478 ppm	0.2051 ppm	0.2101 ppm	0.0116 ppm	2.4844 ppm
Concentration per Run 3	-0.0001 ppm	61.0855 ppm	0.2472 ppm	0.2064 ppm	0.2100 ppm	0.0115 ppm	2.4707 ppm
Concentration RSD	218.5 %	0.5 %	0.3 %	0.8 %	0.4 %	0.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0973 ppm	0.2350 ppm	0.0603 ppm	216.8020 ppm	49.3841 ppm	0.0912 ppm
Concentration per Run 1	0.0019 ppm	0.0977 ppm	0.2369 ppm	0.0608 ppm	216.9681 ppm	49.3881 ppm	0.0918 ppm
Concentration per Run 2	0.0021 ppm	0.0973 ppm	0.2350 ppm	0.0605 ppm	217.0049 ppm	49.4219 ppm	0.0910 ppm
Concentration per Run 3	0.0019 ppm	0.0968 ppm	0.2330 ppm	0.0595 ppm	216.4331 ppm	49.3422 ppm	0.0909 ppm
Concentration RSD	5.9 %	0.5 %	0.8 %	1.2 %	0.1 %	0.1 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4764 ppm	0.4657 ppm	0.0009 ppm	0.6884 ppm	0.1572 ppm	0.0993 ppm	0.0028 ppm
Concentration per Run 1	20.6321 ppm	0.4655 ppm	0.0013 ppm	0.6896 ppm	0.1576 ppm	0.0999 ppm	0.0052 ppm
Concentration per Run 2	20.4586 ppm	0.4677 ppm	0.0009 ppm	0.6895 ppm	0.1581 ppm	0.0978 ppm	0.0008 ppm
Concentration per Run 3	20.3384 ppm	0.4639 ppm	0.0006 ppm	0.6860 ppm	0.1561 ppm	0.1001 ppm	0.0024 ppm
Concentration RSD	0.7 %	0.4 %	43.1 %	0.3 %	0.7 %	1.3 %	78.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.7308 ppm	0.0041 ppm	0.0621 ppm	0.6582 ppm	0.0058 ppm	0.7150 ppm
Concentration per Run 1	0.0010 ppm	3.8223 ppm	0.0041 ppm	0.0619 ppm	0.6657 ppm	0.0049 ppm	0.7217 ppm
Concentration per Run 2	-0.0004 ppm	3.7065 ppm	0.0049 ppm	0.0623 ppm	0.6532 ppm	0.0062 ppm	0.7133 ppm
Concentration per Run 3	0.0037 ppm	3.6636 ppm	0.0035 ppm	0.0620 ppm	0.6556 ppm	0.0062 ppm	0.7099 ppm
Concentration RSD	146.2 %	2.2 %	17.0 %	0.3 %	1.0 %	13.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4246 ppm	109.8707 %	116.5584 %	103.4190 %	136.5949 %	151.2826 %	144.5102 %
Concentration per Run 1	0.4267 ppm	109.1695 %	116.7731 %	103.2391 %	137.0694 %	152.2433 %	144.7880 %
Concentration per Run 2	0.4261 ppm	109.7774 %	116.0973 %	103.8408 %	136.1412 %	150.6824 %	145.3532 %
Concentration per Run 3	0.4210 ppm	110.6653 %	116.8049 %	103.1773 %	136.5741 %	150.9220 %	143.3894 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.4 %	0.3 %	0.6 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2433282-02d2 WG1934242
Analysis started at: 6/14/2024 11:22:14 PM
Rack 3
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	47.5291 ppm	0.0506 ppm	0.0338 ppm	0.4267 ppm	0.0024 ppm	174.0080 ppm
Concentration per Run 1	0.0009 ppm	47.4138 ppm	0.0524 ppm	0.0338 ppm	0.4251 ppm	0.0024 ppm	174.2954 ppm
Concentration per Run 2	0.0007 ppm	47.5216 ppm	0.0502 ppm	0.0340 ppm	0.4287 ppm	0.0025 ppm	173.8934 ppm
Concentration per Run 3	0.0010 ppm	47.6518 ppm	0.0491 ppm	0.0337 ppm	0.4263 ppm	0.0024 ppm	173.8353 ppm
Concentration RSD	13.0 %	0.3 %	3.3 %	0.4 %	0.4 %	1.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0487 ppm	0.1460 ppm	0.2806 ppm	99.2928 ppm	7.3841 ppm	0.0557 ppm
Concentration per Run 1	0.0022 ppm	0.0488 ppm	0.1476 ppm	0.2847 ppm	99.2041 ppm	7.4159 ppm	0.0565 ppm
Concentration per Run 2	0.0023 ppm	0.0491 ppm	0.1448 ppm	0.2802 ppm	99.6348 ppm	7.3828 ppm	0.0557 ppm
Concentration per Run 3	0.0021 ppm	0.0483 ppm	0.1454 ppm	0.2769 ppm	99.0394 ppm	7.3537 ppm	0.0548 ppm
Concentration RSD	4.2 %	0.8 %	1.0 %	1.4 %	0.3 %	0.4 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	59.6522 ppm	1.4080 ppm	0.0053 ppm	1.2254 ppm	0.1052 ppm	0.5463 ppm	0.0075 ppm
Concentration per Run 1	60.1347 ppm	1.4113 ppm	0.0054 ppm	1.2292 ppm	0.1058 ppm	0.5506 ppm	0.0065 ppm
Concentration per Run 2	59.5585 ppm	1.4082 ppm	0.0053 ppm	1.2274 ppm	0.1054 ppm	0.5437 ppm	0.0109 ppm
Concentration per Run 3	59.2634 ppm	1.4045 ppm	0.0052 ppm	1.2196 ppm	0.1043 ppm	0.5447 ppm	0.0050 ppm
Concentration RSD	0.7 %	0.2 %	1.9 %	0.4 %	0.7 %	0.7 %	41.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	3.9561 ppm	0.0655 ppm	0.5066 ppm	2.3717 ppm	0.0010 ppm	0.1907 ppm
Concentration per Run 1	0.0009 ppm	4.0240 ppm	0.0646 ppm	0.5060 ppm	2.3971 ppm	0.0017 ppm	0.1929 ppm
Concentration per Run 2	-0.0002 ppm	3.9392 ppm	0.0656 ppm	0.5078 ppm	2.3629 ppm	0.0009 ppm	0.1901 ppm
Concentration per Run 3	-0.0005 ppm	3.9052 ppm	0.0663 ppm	0.5060 ppm	2.3552 ppm	0.0005 ppm	0.1891 ppm
Concentration RSD	1,542.4 %	1.5 %	1.3 %	0.2 %	0.9 %	59.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7155 ppm	99.6646 %	108.6890 %	91.7035 %	101.4765 %	114.2103 %	106.3764 %
Concentration per Run 1	0.7242 ppm	98.7701 %	108.6996 %	91.1107 %	101.7147 %	114.6585 %	105.9666 %
Concentration per Run 2	0.7110 ppm	99.8278 %	108.1474 %	92.3169 %	101.6224 %	113.4786 %	107.0058 %
Concentration per Run 3	0.7113 ppm	100.3957 %	109.2201 %	91.6831 %	101.0923 %	114.4938 %	106.1568 %
Concentration RSD	1.1 %	0.8 %	0.5 %	0.7 %	0.3 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2433282-05d2 WG1934242
Analysis started at: 6/14/2024 11:26:15 PM
Rack 3
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	33.3006 ppm	0.0440 ppm	0.0138 ppm	0.3066 ppm	0.0017 ppm	184.6585 ppm
Concentration per Run 1	-0.0002 ppm	33.4515 ppm	0.0446 ppm	0.0152 ppm	0.3071 ppm	0.0017 ppm	184.6978 ppm
Concentration per Run 2	0.0000 ppm	33.1559 ppm	0.0442 ppm	0.0125 ppm	0.3062 ppm	0.0017 ppm	184.9568 ppm
Concentration per Run 3	0.0002 ppm	33.2943 ppm	0.0432 ppm	0.0137 ppm	0.3066 ppm	0.0017 ppm	184.3209 ppm
Concentration RSD	10,608.8 %	0.4 %	1.7 %	9.6 %	0.1 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0340 ppm	0.0891 ppm	0.1666 ppm	78.6420 ppm	3.8961 ppm	0.0308 ppm
Concentration per Run 1	0.0018 ppm	0.0345 ppm	0.0897 ppm	0.1679 ppm	78.6488 ppm	3.9465 ppm	0.0317 ppm
Concentration per Run 2	0.0019 ppm	0.0339 ppm	0.0886 ppm	0.1671 ppm	78.6239 ppm	3.8603 ppm	0.0312 ppm
Concentration per Run 3	0.0016 ppm	0.0334 ppm	0.0889 ppm	0.1649 ppm	78.6533 ppm	3.8815 ppm	0.0295 ppm
Concentration RSD	7.3 %	1.6 %	0.6 %	0.9 %	0.0 %	1.2 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.9497 ppm	1.8595 ppm	0.0048 ppm	0.4588 ppm	0.0846 ppm	0.3900 ppm	0.0040 ppm
Concentration per Run 1	45.3474 ppm	1.8657 ppm	0.0047 ppm	0.4669 ppm	0.0851 ppm	0.3914 ppm	0.0072 ppm
Concentration per Run 2	44.9205 ppm	1.8578 ppm	0.0050 ppm	0.4523 ppm	0.0847 ppm	0.3912 ppm	0.0020 ppm
Concentration per Run 3	44.5810 ppm	1.8548 ppm	0.0047 ppm	0.4572 ppm	0.0839 ppm	0.3873 ppm	0.0027 ppm
Concentration RSD	0.9 %	0.3 %	3.3 %	1.6 %	0.8 %	0.6 %	70.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	5.3417 ppm	0.0439 ppm	0.4539 ppm	1.4671 ppm	-0.0002 ppm	0.1017 ppm
Concentration per Run 1	-0.0017 ppm	5.3931 ppm	0.0442 ppm	0.4539 ppm	1.4832 ppm	-0.0013 ppm	0.1032 ppm
Concentration per Run 2	0.0005 ppm	5.3405 ppm	0.0438 ppm	0.4529 ppm	1.4670 ppm	0.0005 ppm	0.1016 ppm
Concentration per Run 3	-0.0015 ppm	5.2917 ppm	0.0438 ppm	0.4549 ppm	1.4510 ppm	0.0002 ppm	0.1003 ppm
Concentration RSD	133.5 %	0.9 %	0.6 %	0.2 %	1.1 %	490.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4690 ppm	97.5042 %	105.5831 %	91.3816 %	95.7809 %	106.5355 %	99.9773 %
Concentration per Run 1	0.4729 ppm	96.8168 %	104.7051 %	91.6728 %	96.0855 %	105.4846 %	100.6987 %
Concentration per Run 2	0.4654 ppm	97.3984 %	105.2877 %	91.1886 %	95.6773 %	106.6721 %	99.9245 %
Concentration per Run 3	0.4688 ppm	98.2974 %	106.7567 %	91.2835 %	95.5800 %	107.4497 %	99.3085 %
Concentration RSD	0.8 %	0.8 %	1.0 %	0.3 %	0.3 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/14/2024 11:30:17 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4956 ppm	0.4793 ppm	0.4626 ppm	0.4861 ppm	0.4997 ppm	0.5024 ppm	0.4921 ppm
Concentration per Run 1	0.5019 ppm	0.4781 ppm	0.4635 ppm	0.4948 ppm	0.4964 ppm	0.5027 ppm	0.4966 ppm
Concentration per Run 2	0.4940 ppm	0.4779 ppm	0.4646 ppm	0.4853 ppm	0.5005 ppm	0.5019 ppm	0.4925 ppm
Concentration per Run 3	0.4908 ppm	0.4818 ppm	0.4596 ppm	0.4781 ppm	0.5023 ppm	0.5027 ppm	0.4873 ppm
Recovery Percentage 1	99.116 %	95.851 %	92.512 %	97.214 %	99.944 %	100.483 %	98.423 %
Concentration RSD	1.1 %	0.5 %	0.6 %	1.7 %	0.6 %	0.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4873 ppm	0.5008 ppm	0.4824 ppm	0.4875 ppm	0.5146 ppm	5.0503 ppm	0.4785 ppm
Concentration per Run 1	0.4939 ppm	0.5082 ppm	0.4884 ppm	0.4957 ppm	0.5141 ppm	5.0902 ppm	0.4766 ppm
Concentration per Run 2	0.4879 ppm	0.5018 ppm	0.4819 ppm	0.4861 ppm	0.5173 ppm	5.0499 ppm	0.4792 ppm
Concentration per Run 3	0.4802 ppm	0.4923 ppm	0.4767 ppm	0.4806 ppm	0.5123 ppm	5.0108 ppm	0.4797 ppm
Recovery Percentage 1	97.461 %	100.153 %	96.470 %	97.491 %	102.920 %	101.006 %	95.700 %
Concentration RSD	1.4 %	1.6 %	1.2 %	1.6 %	0.5 %	0.8 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4888 ppm	0.4856 ppm	0.4811 ppm	9.7495 ppm	0.5033 ppm	0.4840 ppm	0.4786 ppm
Concentration per Run 1	0.4943 ppm	0.4871 ppm	0.4807 ppm	9.7964 ppm	0.5095 ppm	0.4845 ppm	0.4844 ppm
Concentration per Run 2	0.4899 ppm	0.4857 ppm	0.4820 ppm	9.7642 ppm	0.5042 ppm	0.4846 ppm	0.4772 ppm
Concentration per Run 3	0.4820 ppm	0.4839 ppm	0.4807 ppm	9.6878 ppm	0.4963 ppm	0.4828 ppm	0.4742 ppm
Recovery Percentage 1	97.750 %	97.118 %	96.228 %	97.495 %	100.668 %	96.794 %	95.719 %
Concentration RSD	1.3 %	0.3 %	0.2 %	0.6 %	1.3 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4723 ppm	5.0646 ppm	0.5077 ppm	0.5039 ppm	0.4936 ppm	0.4822 ppm	0.4841 ppm
Concentration per Run 1	0.4730 ppm	5.1302 ppm	0.5052 ppm	0.5022 ppm	0.5016 ppm	0.4839 ppm	0.4907 ppm
Concentration per Run 2	0.4765 ppm	5.0619 ppm	0.5078 ppm	0.5047 ppm	0.4922 ppm	0.4818 ppm	0.4839 ppm
Concentration per Run 3	0.4674 ppm	5.0018 ppm	0.5100 ppm	0.5050 ppm	0.4871 ppm	0.4809 ppm	0.4777 ppm
Recovery Percentage 1	94.466 %	96.469 %	101.532 %	100.788 %	98.728 %	96.443 %	96.816 %
Concentration RSD	1.0 %	1.3 %	0.5 %	0.3 %	1.5 %	0.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4955 ppm	100.0619 %	104.1916 %	101.1861 %	95.4403 %	100.3682 %	98.4968 %
Concentration per Run 1	0.4997 ppm	98.7700 %	103.8087 %	101.0742 %	95.5001 %	100.6224 %	98.9105 %
Concentration per Run 2	0.4971 ppm	100.0850 %	103.8740 %	101.0568 %	95.3831 %	100.3396 %	98.6344 %
Concentration per Run 3	0.4898 ppm	101.3308 %	104.8921 %	101.4272 %	95.4377 %	100.1424 %	97.9455 %
Recovery Percentage 1	99.104 %						
Concentration RSD	1.0 %	1.3 %	0.6 %	0.2 %	0.1 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/14/2024 11:34:16 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0009 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0061 ppm
Concentration per Run 1	-0.0002 ppm	-0.0008 ppm	0.0013 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 2	-0.0005 ppm	0.0018 ppm	0.0018 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 3	0.0000 ppm	-0.0037 ppm	0.0003 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0063 ppm
Recovery Percentage 1	-3.215 %	-0.910 %	37.535 %	-0.715 %	1.798 %	0.220 %	6.115 %
Concentration RSD	102.5 %	297.9 %	67.5 %	312.1 %	95.4 %	94.0 %	19.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	-0.0002 ppm	0.0009 ppm	0.0080 ppm	-0.0138 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0010 ppm	0.0081 ppm	-0.0327 ppm	0.0023 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	-0.0006 ppm	0.0005 ppm	0.0060 ppm	0.0115 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0010 ppm	0.0099 ppm	-0.0202 ppm	0.0001 ppm
Recovery Percentage 1	1.064 %	3.078 %	-1.896 %	8.600 %	15.984 %	-0.553 %	10.271 %
Concentration RSD	85.0 %	37.6 %	176.6 %	31.8 %	24.7 %	165.0 %	111.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0002 ppm	0.0015 ppm	-0.0422 ppm	-0.0001 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	0.0006 ppm	0.0000 ppm	0.0019 ppm	-0.0447 ppm	-0.0001 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 2	-0.0007 ppm	0.0004 ppm	0.0014 ppm	-0.0453 ppm	-0.0003 ppm	-0.0004 ppm	0.0023 ppm
Concentration per Run 3	0.0006 ppm	0.0002 ppm	0.0011 ppm	-0.0366 ppm	0.0000 ppm	0.0002 ppm	-0.0025 ppm
Recovery Percentage 1	0.200 %	1.851 %	2.951 %	-2.109 %	-0.535 %	-3.036 %	-0.828 %
Concentration RSD	370.6 %	108.0 %	26.1 %	11.6 %	120.3 %	137.0 %	588.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	-0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0011 ppm	-0.0045 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0013 ppm	-0.0017 ppm	-0.0008 ppm	-0.0001 ppm	0.0001 ppm	-0.0020 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	8.812 %	-0.357 %	-0.512 %	-0.349 %	2.471 %	-4.065 %	-2.277 %
Concentration RSD	68.7 %	151.2 %	207.8 %	171.3 %	40.9 %	158.5 %	68.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	93.3350 %	98.7446 %	97.2352 %	96.3684 %	100.2497 %	99.7752 %
Concentration per Run 1	0.0009 ppm	91.1861 %	98.5305 %	96.5376 %	95.2142 %	101.0268 %	100.0699 %
Concentration per Run 2	0.0010 ppm	93.7177 %	98.3514 %	97.1261 %	96.8805 %	99.5763 %	99.7578 %
Concentration per Run 3	0.0013 ppm	95.1013 %	99.3518 %	98.0418 %	97.0105 %	100.1461 %	99.4980 %
Recovery Percentage 1	22.164 %						
Concentration RSD	19.5 %	2.1 %	0.5 %	0.8 %	1.0 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-01 WG1932257
Analysis started at: 6/14/2024 11:52:35 PM
Rack 4
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0764 ppm	0.0026 ppm	0.0180 ppm	0.0070 ppm	0.0000 ppm	51.8811 ppm
Concentration per Run 1	-0.0002 ppm	0.0787 ppm	0.0016 ppm	0.0197 ppm	0.0071 ppm	0.0000 ppm	52.2074 ppm
Concentration per Run 2	-0.0001 ppm	0.0785 ppm	0.0024 ppm	0.0167 ppm	0.0069 ppm	0.0000 ppm	51.9147 ppm
Concentration per Run 3	-0.0003 ppm	0.0721 ppm	0.0038 ppm	0.0177 ppm	0.0069 ppm	0.0000 ppm	51.5213 ppm
Concentration RSD	41.9 %	4.9 %	41.5 %	8.5 %	1.8 %	211.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0019 ppm	0.1650 ppm	2.0813 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0017 ppm	0.1639 ppm	2.1062 ppm	0.0029 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0005 ppm	0.0022 ppm	0.1680 ppm	2.0801 ppm	0.0018 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0018 ppm	0.1632 ppm	2.0574 ppm	0.0016 ppm
Concentration RSD	71.0 %	8.4 %	30.9 %	13.8 %	1.6 %	1.2 %	33.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.2528 ppm	0.0090 ppm	0.0004 ppm	32.1318 ppm	0.0005 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	7.3936 ppm	0.0091 ppm	0.0003 ppm	32.3469 ppm	0.0003 ppm	0.0010 ppm	0.0020 ppm
Concentration per Run 2	7.2369 ppm	0.0090 ppm	0.0005 ppm	32.1182 ppm	0.0002 ppm	0.0001 ppm	-0.0023 ppm
Concentration per Run 3	7.1280 ppm	0.0090 ppm	0.0005 ppm	31.9303 ppm	0.0010 ppm	-0.0004 ppm	0.0009 ppm
Concentration RSD	1.8 %	0.6 %	33.8 %	0.6 %	85.5 %	325.8 %	1,174.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	5.9378 ppm	-0.0009 ppm	0.0922 ppm	0.0015 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	-0.0010 ppm	6.0407 ppm	-0.0006 ppm	0.0925 ppm	0.0013 ppm	0.0006 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	5.9248 ppm	-0.0007 ppm	0.0920 ppm	0.0016 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	5.8479 ppm	-0.0016 ppm	0.0922 ppm	0.0016 ppm	-0.0009 ppm	0.0007 ppm
Concentration RSD	146.4 %	1.6 %	57.7 %	0.3 %	10.9 %	301.7 %	15.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	90.7296 %	98.7703 %	91.5113 %	93.6145 %	100.7440 %	97.3356 %
Concentration per Run 1	0.0006 ppm	88.9670 %	98.1083 %	90.5441 %	92.8898 %	101.0568 %	97.4446 %
Concentration per Run 2	0.0005 ppm	91.0327 %	98.8184 %	91.7686 %	93.7648 %	100.7640 %	97.3278 %
Concentration per Run 3	0.0004 ppm	92.1891 %	99.3844 %	92.2211 %	94.1889 %	100.4112 %	97.2344 %
Concentration RSD	21.6 %	1.8 %	0.6 %	0.9 %	0.7 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-02 WG1932257
Analysis started at: 6/14/2024 11:56:44 PM
Rack 4
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.1214 ppm	0.0003 ppm	0.0170 ppm	0.0117 ppm	0.0000 ppm	26.9509 ppm
Concentration per Run 1	-0.0005 ppm	0.1240 ppm	0.0008 ppm	0.0174 ppm	0.0119 ppm	0.0000 ppm	27.1632 ppm
Concentration per Run 2	-0.0004 ppm	0.1175 ppm	0.0004 ppm	0.0170 ppm	0.0117 ppm	0.0000 ppm	26.8609 ppm
Concentration per Run 3	-0.0003 ppm	0.1228 ppm	-0.0003 ppm	0.0166 ppm	0.0113 ppm	0.0000 ppm	26.8284 ppm
Concentration RSD	24.6 %	2.8 %	188.2 %	2.2 %	2.6 %	676.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0018 ppm	0.2161 ppm	2.2433 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0012 ppm	0.0022 ppm	0.2187 ppm	2.2848 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0017 ppm	0.2134 ppm	2.2330 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0008 ppm	0.0017 ppm	0.2163 ppm	2.2120 ppm	0.0012 ppm
Concentration RSD	216.4 %	18.1 %	21.3 %	16.0 %	1.2 %	1.7 %	46.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.0737 ppm	0.0077 ppm	0.0000 ppm	38.6750 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	3.1368 ppm	0.0079 ppm	0.0000 ppm	39.0352 ppm	0.0013 ppm	0.0004 ppm	-0.0021 ppm
Concentration per Run 2	3.0706 ppm	0.0078 ppm	-0.0005 ppm	38.4846 ppm	0.0009 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	3.0138 ppm	0.0075 ppm	0.0005 ppm	38.5051 ppm	0.0006 ppm	0.0001 ppm	0.0007 ppm
Concentration RSD	2.0 %	2.4 %	6,566.7 %	0.8 %	40.5 %	145.8 %	1,349.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	8.5135 ppm	-0.0008 ppm	0.0542 ppm	0.0071 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 1	-0.0020 ppm	8.6590 ppm	-0.0009 ppm	0.0547 ppm	0.0072 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 2	-0.0016 ppm	8.4859 ppm	-0.0009 ppm	0.0540 ppm	0.0072 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	0.0005 ppm	8.3957 ppm	-0.0006 ppm	0.0539 ppm	0.0068 ppm	0.0003 ppm	0.0003 ppm
Concentration RSD	132.8 %	1.6 %	23.3 %	0.9 %	3.0 %	57.6 %	19.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	90.2728 %	98.2828 %	91.4844 %	94.2867 %	101.2509 %	98.2993 %
Concentration per Run 1	0.0014 ppm	88.8674 %	97.4720 %	90.3549 %	93.7762 %	101.5114 %	98.0626 %
Concentration per Run 2	0.0013 ppm	90.4681 %	98.7014 %	91.4304 %	94.5899 %	101.4762 %	98.5472 %
Concentration per Run 3	0.0011 ppm	91.4828 %	98.6751 %	92.6678 %	94.4939 %	100.7652 %	98.2881 %
Concentration RSD	12.0 %	1.5 %	0.7 %	1.3 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-03 WG1932257
Analysis started at: 6/15/2024 12:00:46 AM
Rack 4
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0419 ppm	0.0009 ppm	0.0147 ppm	0.2054 ppm	0.0000 ppm	22.4866 ppm
Concentration per Run 1	-0.0003 ppm	0.0383 ppm	-0.0003 ppm	0.0150 ppm	0.2056 ppm	0.0000 ppm	22.5250 ppm
Concentration per Run 2	0.0000 ppm	0.0435 ppm	0.0025 ppm	0.0140 ppm	0.2055 ppm	0.0000 ppm	22.4923 ppm
Concentration per Run 3	0.0002 ppm	0.0440 ppm	0.0003 ppm	0.0151 ppm	0.2051 ppm	0.0000 ppm	22.4426 ppm
Concentration RSD	520.3 %	7.6 %	168.8 %	4.2 %	0.1 %	316.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0009 ppm	-0.0002 ppm	0.0020 ppm	0.0225 ppm	8.9161 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	-0.0003 ppm	0.0026 ppm	0.0228 ppm	8.9899 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0015 ppm	0.0224 ppm	8.9547 ppm	0.0023 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	-0.0003 ppm	0.0018 ppm	0.0223 ppm	8.8036 ppm	-0.0017 ppm
Concentration RSD	26.8 %	24.2 %	90.8 %	27.1 %	1.1 %	1.1 %	449.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.5711 ppm	0.0538 ppm	0.0000 ppm	87.1044 ppm	0.0007 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 1	3.6457 ppm	0.0538 ppm	-0.0001 ppm	87.1916 ppm	0.0008 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	3.5680 ppm	0.0540 ppm	0.0000 ppm	87.0427 ppm	0.0003 ppm	-0.0010 ppm	0.0026 ppm
Concentration per Run 3	3.4995 ppm	0.0537 ppm	0.0002 ppm	87.0788 ppm	0.0011 ppm	0.0006 ppm	-0.0045 ppm
Concentration RSD	2.0 %	0.3 %	263.4 %	0.1 %	55.2 %	579.0 %	503.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	4.4653 ppm	-0.0002 ppm	0.0980 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0023 ppm	4.5340 ppm	0.0006 ppm	0.0984 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	4.4740 ppm	-0.0005 ppm	0.0974 ppm	0.0006 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0018 ppm	4.3878 ppm	-0.0007 ppm	0.0981 ppm	0.0007 ppm	0.0014 ppm	0.0000 ppm
Concentration RSD	815.1 %	1.6 %	411.6 %	0.5 %	32.0 %	1,190.4 %	831.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	88.1803 %	96.7846 %	89.9932 %	92.1701 %	99.8921 %	97.4113 %
Concentration per Run 1	0.0022 ppm	86.1878 %	96.9791 %	89.0696 %	90.8140 %	100.6994 %	97.2208 %
Concentration per Run 2	0.0021 ppm	88.3310 %	96.2685 %	90.4640 %	92.5196 %	99.0258 %	97.8637 %
Concentration per Run 3	0.0021 ppm	90.0220 %	97.1061 %	90.4459 %	93.1768 %	99.9512 %	97.1494 %
Concentration RSD	3.9 %	2.2 %	0.5 %	0.9 %	1.3 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-04 WG1932257
Analysis started at: 6/15/2024 12:04:49 AM
Rack 4
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0415 ppm	-0.0004 ppm	0.0112 ppm	0.0035 ppm	0.0000 ppm	8.1555 ppm
Concentration per Run 1	-0.0005 ppm	0.0367 ppm	-0.0002 ppm	0.0114 ppm	0.0035 ppm	0.0000 ppm	8.1891 ppm
Concentration per Run 2	-0.0003 ppm	0.0522 ppm	-0.0016 ppm	0.0118 ppm	0.0036 ppm	0.0000 ppm	8.1759 ppm
Concentration per Run 3	0.0000 ppm	0.0355 ppm	0.0005 ppm	0.0104 ppm	0.0035 ppm	0.0000 ppm	8.1016 ppm
Concentration RSD	89.9 %	22.4 %	252.1 %	6.3 %	2.2 %	76.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0013 ppm	0.0633 ppm	0.5278 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0011 ppm	0.0640 ppm	0.5581 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0015 ppm	0.0619 ppm	0.5049 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0015 ppm	0.0640 ppm	0.5203 ppm	-0.0001 ppm
Concentration RSD	295.1 %	24.1 %	130.1 %	16.6 %	1.9 %	5.2 %	197.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5567 ppm	0.0025 ppm	0.0003 ppm	9.4214 ppm	0.0003 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 1	2.5989 ppm	0.0025 ppm	0.0005 ppm	9.4815 ppm	-0.0003 ppm	0.0012 ppm	-0.0030 ppm
Concentration per Run 2	2.5582 ppm	0.0025 ppm	0.0003 ppm	9.4805 ppm	0.0008 ppm	0.0002 ppm	-0.0022 ppm
Concentration per Run 3	2.5129 ppm	0.0026 ppm	0.0001 ppm	9.3021 ppm	0.0004 ppm	-0.0001 ppm	0.0015 ppm
Concentration RSD	1.7 %	3.7 %	76.5 %	1.1 %	180.1 %	176.2 %	194.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	6.5708 ppm	-0.0003 ppm	0.0313 ppm	0.0016 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	6.6434 ppm	-0.0005 ppm	0.0318 ppm	0.0019 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	6.6001 ppm	0.0001 ppm	0.0312 ppm	0.0013 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 3	-0.0026 ppm	6.4689 ppm	-0.0005 ppm	0.0310 ppm	0.0017 ppm	-0.0010 ppm	0.0001 ppm
Concentration RSD	151.4 %	1.4 %	106.4 %	1.3 %	19.8 %	231.7 %	95.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	91.3743 %	99.3775 %	95.0265 %	95.7848 %	102.7160 %	100.7581 %
Concentration per Run 1	0.0007 ppm	89.6931 %	98.9694 %	94.1913 %	94.7684 %	102.7568 %	100.8600 %
Concentration per Run 2	0.0007 ppm	91.3382 %	99.2260 %	95.1217 %	96.0054 %	102.7586 %	100.7901 %
Concentration per Run 3	0.0007 ppm	93.0917 %	99.9371 %	95.7663 %	96.5804 %	102.6327 %	100.6241 %
Concentration RSD	1.7 %	1.9 %	0.5 %	0.8 %	1.0 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-05 WG1932257
Analysis started at: 6/15/2024 12:08:51 AM
Rack 4
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0883 ppm	0.0049 ppm	0.0097 ppm	0.0138 ppm	0.0001 ppm	12.9653 ppm
Concentration per Run 1	-0.0006 ppm	0.0924 ppm	0.0055 ppm	0.0107 ppm	0.0139 ppm	0.0000 ppm	13.0622 ppm
Concentration per Run 2	0.0002 ppm	0.0816 ppm	0.0037 ppm	0.0088 ppm	0.0136 ppm	0.0000 ppm	12.9790 ppm
Concentration per Run 3	0.0001 ppm	0.0909 ppm	0.0056 ppm	0.0097 ppm	0.0139 ppm	0.0001 ppm	12.8548 ppm
Concentration RSD	380.4 %	6.7 %	21.6 %	9.3 %	1.1 %	82.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0010 ppm	0.0003 ppm	0.0015 ppm	1.7247 ppm	1.3216 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0014 ppm	0.0003 ppm	0.0016 ppm	1.7398 ppm	1.3781 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0013 ppm	1.7221 ppm	1.3084 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0014 ppm	1.7123 ppm	1.2783 ppm	0.0009 ppm
Concentration RSD	382.1 %	33.3 %	20.0 %	10.9 %	0.8 %	3.9 %	131.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.0405 ppm	0.2460 ppm	0.0001 ppm	18.8269 ppm	0.0010 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 1	3.0947 ppm	0.2477 ppm	0.0004 ppm	18.9026 ppm	0.0014 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 2	3.0370 ppm	0.2454 ppm	0.0001 ppm	18.8900 ppm	0.0008 ppm	0.0020 ppm	-0.0009 ppm
Concentration per Run 3	2.9898 ppm	0.2449 ppm	-0.0003 ppm	18.6881 ppm	0.0007 ppm	0.0013 ppm	0.0005 ppm
Concentration RSD	1.7 %	0.6 %	373.3 %	0.6 %	38.3 %	53.6 %	1,987.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	2.7408 ppm	-0.0008 ppm	0.0453 ppm	0.0021 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	2.7824 ppm	-0.0003 ppm	0.0456 ppm	0.0021 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	2.7312 ppm	-0.0014 ppm	0.0452 ppm	0.0022 ppm	-0.0015 ppm	0.0009 ppm
Concentration per Run 3	-0.0008 ppm	2.7087 ppm	-0.0008 ppm	0.0451 ppm	0.0019 ppm	-0.0003 ppm	0.0004 ppm
Concentration RSD	194.5 %	1.4 %	63.6 %	0.6 %	7.0 %	78.8 %	34.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	91.6122 %	99.7658 %	94.1512 %	95.5820 %	102.8234 %	99.8432 %
Concentration per Run 1	0.0016 ppm	90.2236 %	99.3941 %	93.3792 %	94.8440 %	103.1222 %	100.0719 %
Concentration per Run 2	0.0013 ppm	91.7049 %	99.3459 %	94.1299 %	95.9494 %	102.2370 %	99.7630 %
Concentration per Run 3	0.0011 ppm	92.9081 %	100.5573 %	94.9445 %	95.9527 %	103.1111 %	99.6946 %
Concentration RSD	18.5 %	1.5 %	0.7 %	0.8 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-06 WG1932257
Analysis started at: 6/15/2024 12:12:53 AM
Rack 4
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.2659 ppm	0.0038 ppm	0.0111 ppm	0.0140 ppm	0.0001 ppm	8.9262 ppm
Concentration per Run 1	0.0002 ppm	0.2711 ppm	0.0035 ppm	0.0108 ppm	0.0142 ppm	0.0000 ppm	8.9528 ppm
Concentration per Run 2	-0.0004 ppm	0.2657 ppm	0.0052 ppm	0.0113 ppm	0.0137 ppm	0.0001 ppm	8.9408 ppm
Concentration per Run 3	0.0000 ppm	0.2610 ppm	0.0027 ppm	0.0111 ppm	0.0141 ppm	0.0001 ppm	8.8850 ppm
Concentration RSD	429.2 %	1.9 %	34.4 %	2.6 %	2.0 %	60.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0010 ppm	0.0006 ppm	0.0023 ppm	2.3583 ppm	1.2933 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0008 ppm	0.0023 ppm	2.3652 ppm	1.3073 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0006 ppm	0.0028 ppm	2.3495 ppm	1.2775 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	0.0004 ppm	0.0019 ppm	2.3601 ppm	1.2951 ppm	0.0011 ppm
Concentration RSD	1,354.7 %	36.3 %	26.5 %	19.3 %	0.3 %	1.2 %	22.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.7776 ppm	0.2098 ppm	0.0000 ppm	15.7932 ppm	0.0014 ppm	0.0024 ppm	-0.0001 ppm
Concentration per Run 1	2.8467 ppm	0.2099 ppm	-0.0002 ppm	15.8766 ppm	0.0020 ppm	0.0030 ppm	-0.0013 ppm
Concentration per Run 2	2.7542 ppm	0.2099 ppm	-0.0002 ppm	15.8164 ppm	0.0007 ppm	0.0022 ppm	0.0009 ppm
Concentration per Run 3	2.7321 ppm	0.2096 ppm	0.0005 ppm	15.6865 ppm	0.0016 ppm	0.0019 ppm	0.0001 ppm
Concentration RSD	2.2 %	0.1 %	3,801.5 %	0.6 %	46.8 %	23.0 %	1,225.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	3.3553 ppm	-0.0004 ppm	0.0404 ppm	0.0068 ppm	-0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.0012 ppm	3.4223 ppm	-0.0006 ppm	0.0407 ppm	0.0070 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 2	0.0009 ppm	3.3389 ppm	0.0004 ppm	0.0402 ppm	0.0068 ppm	0.0012 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	3.3048 ppm	-0.0009 ppm	0.0404 ppm	0.0067 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	48.3 %	1.8 %	172.8 %	0.7 %	2.2 %	541.2 %	13.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0138 ppm	93.6171 %	100.9310 %	95.5878 %	96.9639 %	102.8977 %	100.2060 %
Concentration per Run 1	0.0143 ppm	91.6246 %	100.6203 %	94.9223 %	95.8301 %	103.0166 %	100.2790 %
Concentration per Run 2	0.0137 ppm	94.5004 %	101.0124 %	95.6561 %	97.7206 %	103.0542 %	100.0152 %
Concentration per Run 3	0.0134 ppm	94.7262 %	101.1603 %	96.1850 %	97.3409 %	102.6222 %	100.3238 %
Concentration RSD	3.3 %	1.8 %	0.3 %	0.7 %	1.0 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431984-07 WG1932257
Analysis started at: 6/15/2024 12:16:56 AM
Rack 4
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.2268 ppm	0.0035 ppm	0.0109 ppm	0.0121 ppm	0.0000 ppm	8.8601 ppm
Concentration per Run 1	-0.0001 ppm	0.2292 ppm	0.0035 ppm	0.0113 ppm	0.0123 ppm	0.0000 ppm	8.9080 ppm
Concentration per Run 2	-0.0002 ppm	0.2202 ppm	0.0027 ppm	0.0111 ppm	0.0119 ppm	0.0000 ppm	8.8521 ppm
Concentration per Run 3	-0.0003 ppm	0.2310 ppm	0.0043 ppm	0.0102 ppm	0.0122 ppm	0.0001 ppm	8.8202 ppm
Concentration RSD	55.2 %	2.6 %	22.2 %	5.3 %	1.8 %	72.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0032 ppm	0.0002 ppm	0.0020 ppm	0.8982 ppm	1.7597 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0033 ppm	0.0005 ppm	0.0021 ppm	0.9035 ppm	1.7881 ppm	0.0016 ppm
Concentration per Run 2	-0.0001 ppm	0.0028 ppm	-0.0001 ppm	0.0021 ppm	0.8963 ppm	1.7592 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	0.0035 ppm	0.0002 ppm	0.0018 ppm	0.8947 ppm	1.7320 ppm	-0.0003 ppm
Concentration RSD	404.5 %	11.4 %	167.7 %	7.6 %	0.5 %	1.6 %	133.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1474 ppm	0.0541 ppm	0.0002 ppm	7.9248 ppm	0.0054 ppm	0.0012 ppm	0.0024 ppm
Concentration per Run 1	3.2121 ppm	0.0541 ppm	0.0003 ppm	7.9816 ppm	0.0052 ppm	0.0011 ppm	0.0024 ppm
Concentration per Run 2	3.1445 ppm	0.0541 ppm	0.0004 ppm	7.8971 ppm	0.0053 ppm	0.0010 ppm	0.0046 ppm
Concentration per Run 3	3.0856 ppm	0.0541 ppm	-0.0001 ppm	7.8955 ppm	0.0058 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	2.0 %	0.0 %	139.2 %	0.6 %	5.5 %	18.9 %	88.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	4.9785 ppm	-0.0009 ppm	0.0594 ppm	0.0123 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 1	-0.0025 ppm	5.0596 ppm	-0.0013 ppm	0.0597 ppm	0.0123 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	-0.0022 ppm	4.9687 ppm	-0.0008 ppm	0.0594 ppm	0.0124 ppm	-0.0006 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	4.9072 ppm	-0.0007 ppm	0.0591 ppm	0.0122 ppm	-0.0015 ppm	0.0008 ppm
Concentration RSD	85.6 %	1.5 %	35.8 %	0.5 %	0.8 %	95.7 %	36.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3340 ppm	92.3299 %	99.3436 %	95.2814 %	96.4377 %	102.7124 %	100.5558 %
Concentration per Run 1	1.3609 ppm	90.1056 %	98.5162 %	94.7413 %	95.2042 %	102.3713 %	101.2188 %
Concentration per Run 2	1.3253 ppm	93.0565 %	99.4054 %	95.5424 %	97.4679 %	102.7796 %	100.6285 %
Concentration per Run 3	1.3159 ppm	93.8275 %	100.1092 %	95.5606 %	96.6409 %	102.9862 %	99.8200 %
Concentration RSD	1.8 %	2.1 %	0.8 %	0.5 %	1.2 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 12:20:58 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4982 ppm	0.4789 ppm	0.4625 ppm	0.4862 ppm	0.5023 ppm	0.5027 ppm	0.4874 ppm
Concentration per Run 1	0.5037 ppm	0.4831 ppm	0.4635 ppm	0.4887 ppm	0.5047 ppm	0.5039 ppm	0.4895 ppm
Concentration per Run 2	0.4973 ppm	0.4717 ppm	0.4626 ppm	0.4881 ppm	0.4993 ppm	0.5038 ppm	0.4855 ppm
Concentration per Run 3	0.4936 ppm	0.4820 ppm	0.4613 ppm	0.4818 ppm	0.5029 ppm	0.5003 ppm	0.4872 ppm
Recovery Percentage 1	99.641 %	95.786 %	92.493 %	97.241 %	100.461 %	100.534 %	97.476 %
Concentration RSD	1.0 %	1.3 %	0.2 %	0.8 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4875 ppm	0.5030 ppm	0.4836 ppm	0.4887 ppm	0.5075 ppm	5.0267 ppm	0.4822 ppm
Concentration per Run 1	0.4954 ppm	0.5102 ppm	0.4922 ppm	0.4952 ppm	0.5121 ppm	5.0748 ppm	0.4821 ppm
Concentration per Run 2	0.4855 ppm	0.5021 ppm	0.4808 ppm	0.4873 ppm	0.5065 ppm	5.0069 ppm	0.4822 ppm
Concentration per Run 3	0.4816 ppm	0.4967 ppm	0.4778 ppm	0.4835 ppm	0.5040 ppm	4.9983 ppm	0.4821 ppm
Recovery Percentage 1	97.501 %	100.602 %	96.724 %	97.730 %	101.510 %	100.533 %	96.433 %
Concentration RSD	1.5 %	1.4 %	1.6 %	1.2 %	0.8 %	0.8 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4900 ppm	0.4849 ppm	0.4808 ppm	9.7180 ppm	0.5045 ppm	0.4843 ppm	0.4790 ppm
Concentration per Run 1	0.4975 ppm	0.4865 ppm	0.4822 ppm	9.7381 ppm	0.5118 ppm	0.4873 ppm	0.4844 ppm
Concentration per Run 2	0.4892 ppm	0.4841 ppm	0.4785 ppm	9.7190 ppm	0.5028 ppm	0.4825 ppm	0.4805 ppm
Concentration per Run 3	0.4834 ppm	0.4840 ppm	0.4818 ppm	9.6970 ppm	0.4988 ppm	0.4831 ppm	0.4722 ppm
Recovery Percentage 1	98.010 %	96.973 %	96.168 %	97.180 %	100.896 %	96.856 %	95.803 %
Concentration RSD	1.5 %	0.3 %	0.4 %	0.2 %	1.3 %	0.5 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4739 ppm	5.0799 ppm	0.5106 ppm	0.5039 ppm	0.4947 ppm	0.4816 ppm	0.4861 ppm
Concentration per Run 1	0.4756 ppm	5.1434 ppm	0.5158 ppm	0.5049 ppm	0.5019 ppm	0.4843 ppm	0.4919 ppm
Concentration per Run 2	0.4743 ppm	5.0611 ppm	0.5074 ppm	0.5023 ppm	0.4937 ppm	0.4789 ppm	0.4867 ppm
Concentration per Run 3	0.4718 ppm	5.0353 ppm	0.5087 ppm	0.5046 ppm	0.4886 ppm	0.4815 ppm	0.4797 ppm
Recovery Percentage 1	94.781 %	96.760 %	102.127 %	100.784 %	98.944 %	96.313 %	97.215 %
Concentration RSD	0.4 %	1.1 %	0.9 %	0.3 %	1.4 %	0.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4946 ppm	99.4459 %	104.7635 %	100.8723 %	94.6159 %	100.6777 %	98.6585 %
Concentration per Run 1	0.5039 ppm	97.6295 %	104.0962 %	100.8068 %	93.8182 %	100.4165 %	99.1099 %
Concentration per Run 2	0.4925 ppm	99.7671 %	105.0779 %	100.6170 %	94.9421 %	100.9007 %	98.3128 %
Concentration per Run 3	0.4875 ppm	100.9410 %	105.1163 %	101.1930 %	95.0873 %	100.7161 %	98.5529 %
Recovery Percentage 1	98.926 %						
Concentration RSD	1.7 %	1.7 %	0.6 %	0.3 %	0.7 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 12:24:58 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0083 ppm	0.0017 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 1	0.0002 ppm	-0.0063 ppm	0.0013 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	0.0000 ppm	-0.0070 ppm	0.0008 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 3	-0.0006 ppm	-0.0115 ppm	0.0029 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0063 ppm
Recovery Percentage 1	-1.745 %	-8.290 %	55.386 %	2.166 %	1.093 %	-0.906 %	6.726 %
Concentration RSD	331.6 %	33.7 %	64.7 %	200.1 %	49.6 %	28.7 %	11.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	-0.0003 ppm	0.0007 ppm	0.0070 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0006 ppm	0.0066 ppm	0.0160 ppm	-0.0005 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	-0.0006 ppm	0.0008 ppm	0.0069 ppm	-0.0013 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0002 ppm	0.0008 ppm	0.0077 ppm	-0.0108 ppm	-0.0003 ppm
Recovery Percentage 1	-0.999 %	3.343 %	-3.239 %	7.359 %	14.100 %	0.052 %	2.578 %
Concentration RSD	88.6 %	12.0 %	129.6 %	18.9 %	8.1 %	1,035.0 %	419.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0000 ppm	0.0016 ppm	-0.0406 ppm	0.0000 ppm	-0.0010 ppm	0.0033 ppm
Concentration per Run 1	0.0022 ppm	-0.0003 ppm	0.0012 ppm	-0.0394 ppm	0.0007 ppm	-0.0005 ppm	0.0068 ppm
Concentration per Run 2	0.0017 ppm	0.0002 ppm	0.0019 ppm	-0.0382 ppm	-0.0005 ppm	-0.0013 ppm	0.0012 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0017 ppm	-0.0441 ppm	-0.0003 ppm	-0.0012 ppm	0.0020 ppm
Recovery Percentage 1	1.178 %	-0.041 %	3.222 %	-2.028 %	-0.105 %	-10.094 %	6.637 %
Concentration RSD	109.4 %	5,545.7 %	20.4 %	7.7 %	2,291.1 %	41.6 %	90.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0064 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	-0.0061 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 2	-0.0008 ppm	-0.0067 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	-0.0065 ppm	0.0006 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-2.927 %	-1.286 %	0.222 %	-0.481 %	2.001 %	-4.852 %	0.337 %
Concentration RSD	290.4 %	4.6 %	465.0 %	153.8 %	92.7 %	87.4 %	539.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	93.8349 %	98.9967 %	96.4812 %	96.9314 %	100.6750 %	99.7361 %
Concentration per Run 1	0.0014 ppm	92.0611 %	98.1751 %	95.7096 %	96.2424 %	100.8411 %	100.0130 %
Concentration per Run 2	0.0012 ppm	93.9272 %	99.4405 %	96.6851 %	97.1813 %	101.0178 %	99.8261 %
Concentration per Run 3	0.0011 ppm	95.5164 %	99.3745 %	97.0488 %	97.3706 %	100.1663 %	99.3692 %
Recovery Percentage 1	25.082 %						
Concentration RSD	9.1 %	1.8 %	0.7 %	0.7 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430597-01 WG1933920
Analysis started at: 6/15/2024 12:33:08 AM
Rack 4
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0018 ppm	0.0009 ppm	0.0061 ppm	0.0813 ppm	0.0000 ppm	29.9897 ppm
Concentration per Run 1	-0.0007 ppm	-0.0143 ppm	0.0017 ppm	0.0063 ppm	0.0809 ppm	0.0000 ppm	29.9945 ppm
Concentration per Run 2	-0.0002 ppm	0.0094 ppm	-0.0001 ppm	0.0054 ppm	0.0813 ppm	0.0000 ppm	29.9720 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0010 ppm	0.0065 ppm	0.0815 ppm	0.0000 ppm	30.0025 ppm
Concentration RSD	103.6 %	663.0 %	107.0 %	10.2 %	0.4 %	115.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0028 ppm	0.0388 ppm	0.0115 ppm	3.0435 ppm	0.0028 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0024 ppm	0.0389 ppm	0.0108 ppm	3.0388 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0030 ppm	0.0387 ppm	0.0117 ppm	3.0310 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0030 ppm	0.0389 ppm	0.0118 ppm	3.0608 ppm	0.0029 ppm
Concentration RSD	26.6 %	104.9 %	11.7 %	0.3 %	4.8 %	0.5 %	3.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.6265 ppm	0.0020 ppm	0.0008 ppm	3.3083 ppm	0.0009 ppm	0.0014 ppm	0.0011 ppm
Concentration per Run 1	7.6101 ppm	0.0022 ppm	0.0011 ppm	3.3021 ppm	0.0012 ppm	0.0009 ppm	0.0021 ppm
Concentration per Run 2	7.6329 ppm	0.0019 ppm	0.0004 ppm	3.3055 ppm	0.0012 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 3	7.6365 ppm	0.0019 ppm	0.0007 ppm	3.3172 ppm	0.0004 ppm	0.0018 ppm	0.0009 ppm
Concentration RSD	0.2 %	6.6 %	45.1 %	0.2 %	48.9 %	32.9 %	71.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	8.0004 ppm	-0.0009 ppm	4.3357 ppm	0.0005 ppm	-0.0004 ppm	0.0039 ppm
Concentration per Run 1	-0.0024 ppm	7.9919 ppm	-0.0018 ppm	4.3171 ppm	0.0006 ppm	-0.0016 ppm	0.0037 ppm
Concentration per Run 2	0.0006 ppm	7.9944 ppm	-0.0002 ppm	4.3395 ppm	0.0004 ppm	-0.0002 ppm	0.0038 ppm
Concentration per Run 3	-0.0032 ppm	8.0148 ppm	-0.0008 ppm	4.3507 ppm	0.0004 ppm	0.0005 ppm	0.0040 ppm
Concentration RSD	118.8 %	0.2 %	85.4 %	0.4 %	20.0 %	237.8 %	4.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0286 ppm	111.6451 %	108.7570 %	106.8344 %	96.3306 %	101.4573 %	99.8438 %
Concentration per Run 1	0.0288 ppm	111.9305 %	108.6413 %	106.9236 %	95.9708 %	100.9868 %	99.6443 %
Concentration per Run 2	0.0282 ppm	111.6958 %	108.6457 %	106.8786 %	96.5994 %	101.4011 %	100.0504 %
Concentration per Run 3	0.0287 ppm	111.3090 %	108.9842 %	106.7011 %	96.4216 %	101.9838 %	99.8367 %
Concentration RSD	1.0 %	0.3 %	0.2 %	0.1 %	0.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430597-02 WG1933920
Analysis started at: 6/15/2024 12:37:33 AM
Rack 4
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0022 ppm	0.0012 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0238 ppm
Concentration per Run 1	-0.0002 ppm	-0.0028 ppm	0.0028 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0270 ppm
Concentration per Run 2	-0.0002 ppm	-0.0011 ppm	0.0002 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0243 ppm
Concentration per Run 3	-0.0005 ppm	-0.0025 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0202 ppm
Concentration RSD	71.1 %	43.0 %	116.3 %	87.1 %	67.9 %	456.2 %	14.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0010 ppm	0.0102 ppm	0.0069 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0012 ppm	0.0114 ppm	-0.0009 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0008 ppm	0.0095 ppm	-0.0030 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0096 ppm	0.0247 ppm	0.0004 ppm
Concentration RSD	97.4 %	75.8 %	339.2 %	18.0 %	10.3 %	222.2 %	3,068.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0036 ppm	0.0002 ppm	0.0001 ppm	-0.0327 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0043 ppm	0.0001 ppm	-0.0001 ppm	-0.0303 ppm	0.0008 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 2	0.0042 ppm	0.0002 ppm	0.0003 ppm	-0.0329 ppm	-0.0008 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	0.0022 ppm	0.0002 ppm	0.0000 ppm	-0.0349 ppm	-0.0001 ppm	-0.0010 ppm	-0.0015 ppm
Concentration RSD	32.5 %	22.7 %	345.5 %	7.0 %	1,809.7 %	229.8 %	1,705.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0004 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0019 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.0000 ppm	-0.0015 ppm	0.0000 ppm	0.0007 ppm	-0.0012 ppm	0.0000 ppm
Concentration RSD	346.4 %	1,437.1 %	120.1 %	83.9 %	69.7 %	104.7 %	130.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	92.2191 %	97.2426 %	95.6351 %	98.7071 %	102.3842 %	101.9411 %
Concentration per Run 1	0.0022 ppm	90.4220 %	97.3435 %	95.0712 %	97.4946 %	103.1052 %	102.4105 %
Concentration per Run 2	0.0023 ppm	92.1136 %	97.5108 %	95.7047 %	98.9664 %	102.8350 %	102.0721 %
Concentration per Run 3	0.0024 ppm	94.1218 %	96.8735 %	96.1294 %	99.6602 %	101.2124 %	101.3408 %
Concentration RSD	3.9 %	2.0 %	0.3 %	0.6 %	1.1 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-02 WG1933920
Analysis started at: 6/15/2024 12:41:35 AM
Rack 4
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0243 ppm	0.0028 ppm	0.0232 ppm	0.0388 ppm	0.0000 ppm	128.6327 ppm
Concentration per Run 1	-0.0003 ppm	0.0326 ppm	0.0037 ppm	0.0239 ppm	0.0393 ppm	0.0000 ppm	129.2418 ppm
Concentration per Run 2	0.0000 ppm	0.0233 ppm	0.0024 ppm	0.0231 ppm	0.0390 ppm	0.0000 ppm	128.5113 ppm
Concentration per Run 3	-0.0003 ppm	0.0170 ppm	0.0022 ppm	0.0226 ppm	0.0382 ppm	0.0000 ppm	128.1451 ppm
Concentration RSD	92.5 %	32.2 %	29.6 %	2.7 %	1.5 %	408.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0040 ppm	11.8022 ppm	1.1663 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0039 ppm	11.8584 ppm	1.2238 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	0.0010 ppm	0.0045 ppm	11.7835 ppm	1.1346 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0037 ppm	11.7647 ppm	1.1406 ppm	0.0011 ppm
Concentration RSD	53.7 %	45.4 %	17.7 %	9.5 %	0.4 %	4.3 %	55.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.2849 ppm	0.3384 ppm	0.0003 ppm	33.3050 ppm	0.0025 ppm	0.0136 ppm	0.0007 ppm
Concentration per Run 1	9.4275 ppm	0.3397 ppm	0.0005 ppm	33.5157 ppm	0.0023 ppm	0.0126 ppm	0.0004 ppm
Concentration per Run 2	9.2893 ppm	0.3384 ppm	-0.0001 ppm	33.2383 ppm	0.0026 ppm	0.0138 ppm	0.0024 ppm
Concentration per Run 3	9.1378 ppm	0.3369 ppm	0.0006 ppm	33.1610 ppm	0.0027 ppm	0.0144 ppm	-0.0007 ppm
Concentration RSD	1.6 %	0.4 %	121.1 %	0.6 %	7.6 %	6.9 %	232.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	8.6653 ppm	-0.0004 ppm	0.8356 ppm	0.0020 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 1	-0.0022 ppm	8.7302 ppm	-0.0011 ppm	0.8420 ppm	0.0021 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 2	-0.0014 ppm	8.6941 ppm	0.0006 ppm	0.8320 ppm	0.0020 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 3	-0.0009 ppm	8.5715 ppm	-0.0006 ppm	0.8327 ppm	0.0020 ppm	-0.0010 ppm	0.0003 ppm
Concentration RSD	43.9 %	1.0 %	225.9 %	0.7 %	3.8 %	45.8 %	28.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	89.5251 %	99.3654 %	89.3289 %	92.8707 %	101.0929 %	96.5933 %
Concentration per Run 1	0.0063 ppm	88.4644 %	98.4002 %	88.0160 %	92.6263 %	100.5684 %	96.4894 %
Concentration per Run 2	0.0059 ppm	89.2836 %	99.9614 %	89.8028 %	92.9483 %	101.7133 %	96.9037 %
Concentration per Run 3	0.0059 ppm	90.8272 %	99.7347 %	90.1678 %	93.0374 %	100.9971 %	96.3868 %
Concentration RSD	3.6 %	1.3 %	0.8 %	1.3 %	0.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-03 WG1933920
Analysis started at: 6/15/2024 12:45:37 AM
Rack 4
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0384 ppm	0.0038 ppm	0.0241 ppm	0.0402 ppm	0.0000 ppm	130.9294 ppm
Concentration per Run 1	-0.0002 ppm	0.0469 ppm	0.0042 ppm	0.0241 ppm	0.0404 ppm	-0.0001 ppm	132.2442 ppm
Concentration per Run 2	-0.0002 ppm	0.0331 ppm	0.0028 ppm	0.0250 ppm	0.0403 ppm	0.0000 ppm	130.8554 ppm
Concentration per Run 3	-0.0004 ppm	0.0351 ppm	0.0045 ppm	0.0232 ppm	0.0400 ppm	-0.0001 ppm	129.6886 ppm
Concentration RSD	38.6 %	19.5 %	24.2 %	3.9 %	0.5 %	174.2 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0015 ppm	0.0055 ppm	13.6207 ppm	1.2327 ppm	0.0038 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0016 ppm	0.0053 ppm	13.6627 ppm	1.2674 ppm	0.0048 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0017 ppm	0.0056 ppm	13.6489 ppm	1.2257 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0055 ppm	13.5505 ppm	1.2051 ppm	0.0045 ppm
Concentration RSD	1,882.0 %	81.2 %	15.7 %	2.3 %	0.4 %	2.6 %	37.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.4242 ppm	0.3442 ppm	0.0007 ppm	33.7156 ppm	0.0036 ppm	0.0211 ppm	0.0002 ppm
Concentration per Run 1	9.6475 ppm	0.3472 ppm	0.0010 ppm	34.0210 ppm	0.0033 ppm	0.0210 ppm	0.0000 ppm
Concentration per Run 2	9.4322 ppm	0.3441 ppm	0.0007 ppm	33.6695 ppm	0.0044 ppm	0.0222 ppm	-0.0004 ppm
Concentration per Run 3	9.1929 ppm	0.3412 ppm	0.0005 ppm	33.4562 ppm	0.0031 ppm	0.0201 ppm	0.0012 ppm
Concentration RSD	2.4 %	0.9 %	33.6 %	0.8 %	18.9 %	4.9 %	335.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	8.9036 ppm	-0.0006 ppm	0.8506 ppm	0.0025 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 1	-0.0017 ppm	9.0943 ppm	-0.0005 ppm	0.8526 ppm	0.0025 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 2	-0.0027 ppm	8.9014 ppm	-0.0008 ppm	0.8495 ppm	0.0022 ppm	-0.0015 ppm	0.0011 ppm
Concentration per Run 3	-0.0012 ppm	8.7152 ppm	-0.0006 ppm	0.8496 ppm	0.0027 ppm	-0.0015 ppm	0.0008 ppm
Concentration RSD	41.0 %	2.1 %	19.8 %	0.2 %	8.8 %	112.3 %	16.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	88.9728 %	98.8531 %	89.0962 %	92.2173 %	100.4341 %	96.1815 %
Concentration per Run 1	0.0057 ppm	87.2289 %	97.3200 %	88.0616 %	91.4335 %	99.7734 %	95.9169 %
Concentration per Run 2	0.0055 ppm	89.2635 %	98.7883 %	89.3358 %	92.6463 %	100.2984 %	96.5884 %
Concentration per Run 3	0.0051 ppm	90.4261 %	100.4511 %	89.8914 %	92.5721 %	101.2306 %	96.0392 %
Concentration RSD	6.0 %	1.8 %	1.6 %	1.1 %	0.7 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-04 WG1933920
Analysis started at: 6/15/2024 12:49:40 AM
Rack 4
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.4511 ppm	0.0041 ppm	0.0245 ppm	0.0509 ppm	0.0000 ppm	135.4757 ppm
Concentration per Run 1	-0.0009 ppm	0.4383 ppm	0.0051 ppm	0.0248 ppm	0.0512 ppm	0.0000 ppm	135.7350 ppm
Concentration per Run 2	-0.0003 ppm	0.4526 ppm	0.0041 ppm	0.0250 ppm	0.0509 ppm	0.0001 ppm	135.6750 ppm
Concentration per Run 3	-0.0006 ppm	0.4623 ppm	0.0030 ppm	0.0239 ppm	0.0506 ppm	0.0000 ppm	135.0173 ppm
Concentration RSD	47.1 %	2.7 %	25.8 %	2.4 %	0.6 %	45.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0021 ppm	0.0018 ppm	0.0024 ppm	17.5252 ppm	1.3322 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0024 ppm	0.0017 ppm	0.0021 ppm	17.6048 ppm	1.3737 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0018 ppm	0.0019 ppm	0.0027 ppm	17.5498 ppm	1.3442 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0021 ppm	0.0017 ppm	0.0024 ppm	17.4211 ppm	1.2788 ppm	0.0023 ppm
Concentration RSD	516.0 %	15.9 %	6.0 %	11.6 %	0.5 %	3.6 %	29.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.5137 ppm	0.4732 ppm	0.0002 ppm	18.7385 ppm	0.0040 ppm	0.0004 ppm	0.0045 ppm
Concentration per Run 1	10.7721 ppm	0.4739 ppm	0.0003 ppm	18.7394 ppm	0.0036 ppm	0.0002 ppm	0.0064 ppm
Concentration per Run 2	10.5090 ppm	0.4742 ppm	0.0003 ppm	18.7834 ppm	0.0038 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	10.2600 ppm	0.4715 ppm	0.0001 ppm	18.6927 ppm	0.0047 ppm	0.0005 ppm	0.0071 ppm
Concentration RSD	2.4 %	0.3 %	54.7 %	0.2 %	13.8 %	38.3 %	85.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	8.3978 ppm	-0.0006 ppm	0.8417 ppm	0.0136 ppm	-0.0009 ppm	0.0013 ppm
Concentration per Run 1	-0.0011 ppm	8.5762 ppm	-0.0009 ppm	0.8485 ppm	0.0139 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 2	0.0022 ppm	8.3672 ppm	-0.0009 ppm	0.8422 ppm	0.0136 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 3	-0.0015 ppm	8.2498 ppm	0.0001 ppm	0.8344 ppm	0.0133 ppm	-0.0014 ppm	0.0014 ppm
Concentration RSD	1,645.6 %	2.0 %	96.4 %	0.8 %	2.3 %	106.0 %	5.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0035 ppm	89.8507 %	99.9655 %	89.4672 %	92.9224 %	101.4754 %	96.8035 %
Concentration per Run 1	0.0036 ppm	87.3124 %	99.5741 %	88.5716 %	91.5334 %	101.6317 %	97.1447 %
Concentration per Run 2	0.0034 ppm	90.1309 %	100.7251 %	89.7223 %	93.2201 %	102.1320 %	96.9408 %
Concentration per Run 3	0.0035 ppm	92.1088 %	99.5974 %	90.1078 %	94.0135 %	100.6626 %	96.3250 %
Concentration RSD	2.7 %	2.7 %	0.7 %	0.9 %	1.4 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-05 WG1933920
Analysis started at: 6/15/2024 12:53:43 AM
Rack 4
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0469 ppm	0.0019 ppm	0.0176 ppm	0.0420 ppm	0.0000 ppm	92.1378 ppm
Concentration per Run 1	0.0002 ppm	0.0455 ppm	0.0019 ppm	0.0180 ppm	0.0422 ppm	0.0000 ppm	92.3363 ppm
Concentration per Run 2	-0.0002 ppm	0.0496 ppm	0.0032 ppm	0.0173 ppm	0.0421 ppm	0.0000 ppm	92.2409 ppm
Concentration per Run 3	-0.0007 ppm	0.0455 ppm	0.0007 ppm	0.0175 ppm	0.0418 ppm	0.0000 ppm	91.8362 ppm
Concentration RSD	214.3 %	5.0 %	64.3 %	2.2 %	0.5 %	218.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0008 ppm	0.0003 ppm	0.0015 ppm	6.9778 ppm	0.7912 ppm	0.0033 ppm
Concentration per Run 1	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0014 ppm	7.0111 ppm	0.8217 ppm	0.0041 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0015 ppm	6.9702 ppm	0.7647 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0014 ppm	6.9521 ppm	0.7873 ppm	0.0031 ppm
Concentration RSD	266.0 %	25.3 %	58.2 %	4.4 %	0.4 %	3.6 %	21.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2789 ppm	0.1938 ppm	0.0009 ppm	27.9884 ppm	0.0007 ppm	0.0067 ppm	0.0004 ppm
Concentration per Run 1	10.4699 ppm	0.1941 ppm	0.0009 ppm	28.0711 ppm	0.0004 ppm	0.0069 ppm	-0.0010 ppm
Concentration per Run 2	10.2693 ppm	0.1937 ppm	0.0010 ppm	28.0225 ppm	0.0009 ppm	0.0057 ppm	0.0000 ppm
Concentration per Run 3	10.0975 ppm	0.1934 ppm	0.0008 ppm	27.8717 ppm	0.0009 ppm	0.0073 ppm	0.0021 ppm
Concentration RSD	1.8 %	0.2 %	8.8 %	0.4 %	42.6 %	12.9 %	417.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	9.5779 ppm	-0.0004 ppm	0.7338 ppm	0.0029 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0020 ppm	9.7226 ppm	-0.0006 ppm	0.7376 ppm	0.0027 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0014 ppm	9.5591 ppm	0.0001 ppm	0.7322 ppm	0.0030 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0002 ppm	9.4518 ppm	-0.0007 ppm	0.7315 ppm	0.0030 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	102.7 %	1.4 %	97.4 %	0.5 %	5.8 %	95.2 %	209.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0025 ppm	88.9271 %	98.8207 %	89.3330 %	92.9228 %	101.3982 %	96.9478 %
Concentration per Run 1	0.0025 ppm	87.0159 %	98.7163 %	88.2957 %	91.8532 %	102.1268 %	97.1012 %
Concentration per Run 2	0.0022 ppm	89.4096 %	98.4643 %	89.0365 %	93.6417 %	100.7589 %	96.9305 %
Concentration per Run 3	0.0027 ppm	90.3559 %	99.2814 %	90.6668 %	93.2737 %	101.3090 %	96.8116 %
Concentration RSD	9.4 %	1.9 %	0.4 %	1.4 %	1.0 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-06 WG1933920
Analysis started at: 6/15/2024 12:57:46 AM
Rack 4
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	1.6520 ppm	0.0009 ppm	0.0036 ppm	0.0179 ppm	0.0001 ppm	32.6611 ppm
Concentration per Run 1	0.0001 ppm	1.6444 ppm	0.0007 ppm	0.0019 ppm	0.0179 ppm	0.0001 ppm	32.8702 ppm
Concentration per Run 2	-0.0002 ppm	1.6613 ppm	0.0017 ppm	0.0051 ppm	0.0178 ppm	0.0002 ppm	32.6882 ppm
Concentration per Run 3	0.0001 ppm	1.6503 ppm	0.0004 ppm	0.0039 ppm	0.0180 ppm	0.0001 ppm	32.4250 ppm
Concentration RSD	742.1 %	0.5 %	72.1 %	44.1 %	0.6 %	36.9 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0020 ppm	0.0020 ppm	0.0052 ppm	2.6231 ppm	0.6257 ppm	0.0012 ppm
Concentration per Run 1	0.0003 ppm	0.0022 ppm	0.0018 ppm	0.0052 ppm	2.6252 ppm	0.6452 ppm	0.0011 ppm
Concentration per Run 2	0.0004 ppm	0.0017 ppm	0.0024 ppm	0.0051 ppm	2.6210 ppm	0.6348 ppm	0.0012 ppm
Concentration per Run 3	0.0004 ppm	0.0022 ppm	0.0018 ppm	0.0052 ppm	2.6231 ppm	0.5970 ppm	0.0011 ppm
Concentration RSD	7.9 %	15.4 %	19.3 %	0.9 %	0.1 %	4.1 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.8263 ppm	0.0970 ppm	0.0000 ppm	2.9387 ppm	0.0026 ppm	0.0011 ppm	0.0016 ppm
Concentration per Run 1	3.8997 ppm	0.0974 ppm	-0.0001 ppm	2.9642 ppm	0.0033 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 2	3.8156 ppm	0.0969 ppm	0.0006 ppm	2.9286 ppm	0.0015 ppm	0.0015 ppm	0.0012 ppm
Concentration per Run 3	3.7635 ppm	0.0968 ppm	-0.0004 ppm	2.9234 ppm	0.0031 ppm	0.0002 ppm	0.0029 ppm
Concentration RSD	1.8 %	0.4 %	4,540.7 %	0.8 %	37.3 %	73.8 %	77.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	6.8204 ppm	-0.0005 ppm	0.1973 ppm	0.0700 ppm	0.0002 ppm	0.0042 ppm
Concentration per Run 1	-0.0020 ppm	6.9000 ppm	-0.0008 ppm	0.1970 ppm	0.0716 ppm	-0.0012 ppm	0.0040 ppm
Concentration per Run 2	0.0008 ppm	6.8200 ppm	-0.0002 ppm	0.1976 ppm	0.0697 ppm	0.0011 ppm	0.0042 ppm
Concentration per Run 3	0.0005 ppm	6.7412 ppm	-0.0007 ppm	0.1974 ppm	0.0687 ppm	0.0007 ppm	0.0045 ppm
Concentration RSD	718.2 %	1.2 %	61.4 %	0.2 %	2.1 %	663.7 %	5.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0142 ppm	91.4139 %	99.3525 %	93.1542 %	97.1159 %	103.6418 %	101.1085 %
Concentration per Run 1	0.0143 ppm	89.3795 %	98.5273 %	92.5235 %	96.1692 %	103.7963 %	101.4627 %
Concentration per Run 2	0.0141 ppm	91.8708 %	99.7338 %	93.0071 %	97.6426 %	103.6759 %	100.9666 %
Concentration per Run 3	0.0142 ppm	92.9913 %	99.7965 %	93.9321 %	97.5357 %	103.4531 %	100.8963 %
Concentration RSD	0.7 %	2.0 %	0.7 %	0.8 %	0.8 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-07 WG1933920
Analysis started at: 6/15/2024 1:01:48 AM
Rack 4
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	1.3624 ppm	0.0028 ppm	0.0173 ppm	0.0250 ppm	0.0000 ppm	116.7245 ppm
Concentration per Run 1	-0.0005 ppm	1.3299 ppm	0.0032 ppm	0.0184 ppm	0.0238 ppm	0.0000 ppm	111.7865 ppm
Concentration per Run 2	-0.0001 ppm	1.4516 ppm	0.0025 ppm	0.0181 ppm	0.0265 ppm	0.0001 ppm	122.8232 ppm
Concentration per Run 3	-0.0006 ppm	1.3057 ppm	0.0026 ppm	0.0154 ppm	0.0248 ppm	0.0000 ppm	115.5638 ppm
Concentration RSD	71.3 %	5.7 %	13.4 %	9.4 %	5.4 %	88.2 %	4.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0044 ppm	0.0014 ppm	0.0031 ppm	5.0313 ppm	1.5496 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0043 ppm	0.0015 ppm	0.0033 ppm	4.8198 ppm	1.5388 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0045 ppm	0.0015 ppm	0.0032 ppm	5.2971 ppm	1.5918 ppm	0.0034 ppm
Concentration per Run 3	0.0000 ppm	0.0044 ppm	0.0012 ppm	0.0030 ppm	4.9768 ppm	1.5182 ppm	-0.0008 ppm
Concentration RSD	78.0 %	2.5 %	11.7 %	5.6 %	4.8 %	2.4 %	117.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.1093 ppm	0.4927 ppm	0.0004 ppm	17.6986 ppm	0.0031 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	7.2641 ppm	0.4727 ppm	0.0006 ppm	16.9155 ppm	0.0024 ppm	0.0003 ppm	0.0032 ppm
Concentration per Run 2	7.1023 ppm	0.5179 ppm	0.0001 ppm	18.6262 ppm	0.0032 ppm	0.0012 ppm	-0.0036 ppm
Concentration per Run 3	6.9615 ppm	0.4876 ppm	0.0005 ppm	17.5541 ppm	0.0036 ppm	0.0010 ppm	-0.0002 ppm
Concentration RSD	2.1 %	4.7 %	54.4 %	4.9 %	19.3 %	55.0 %	1,838.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	7.5187 ppm	-0.0014 ppm	0.7301 ppm	0.0397 ppm	-0.0001 ppm	0.0021 ppm
Concentration per Run 1	-0.0005 ppm	7.6512 ppm	-0.0008 ppm	0.7004 ppm	0.0399 ppm	-0.0004 ppm	0.0020 ppm
Concentration per Run 2	-0.0007 ppm	7.5020 ppm	-0.0016 ppm	0.7681 ppm	0.0401 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 3	0.0002 ppm	7.4029 ppm	-0.0018 ppm	0.7219 ppm	0.0392 ppm	-0.0001 ppm	0.0020 ppm
Concentration RSD	157.2 %	1.7 %	40.7 %	4.7 %	1.3 %	319.0 %	8.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0051 ppm	87.9201 %	93.5641 %	97.7268 %	94.3990 %	96.4096 %	105.4853 %
Concentration per Run 1	0.0051 ppm	85.7899 %	97.3806 %	100.1038 %	93.3056 %	98.5605 %	111.1957 %
Concentration per Run 2	0.0050 ppm	88.6002 %	89.1492 %	97.6123 %	95.0025 %	90.7837 %	105.5814 %
Concentration per Run 3	0.0051 ppm	89.3701 %	94.1625 %	95.4644 %	94.8888 %	99.8845 %	99.6788 %
Concentration RSD	1.4 %	2.1 %	4.4 %	2.4 %	1.0 %	5.1 %	5.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-08 WG1933920
Analysis started at: 6/15/2024 1:05:51 AM
Rack 4
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0082 ppm	0.0016 ppm	0.0254 ppm	0.0532 ppm	0.0000 ppm	135.3729 ppm
Concentration per Run 1	-0.0002 ppm	-0.0044 ppm	0.0021 ppm	0.0252 ppm	0.0535 ppm	0.0000 ppm	135.9517 ppm
Concentration per Run 2	-0.0006 ppm	-0.0141 ppm	0.0027 ppm	0.0267 ppm	0.0531 ppm	0.0000 ppm	135.3524 ppm
Concentration per Run 3	-0.0008 ppm	-0.0061 ppm	0.0001 ppm	0.0244 ppm	0.0529 ppm	0.0000 ppm	134.8146 ppm
Concentration RSD	62.0 %	63.6 %	82.9 %	4.6 %	0.6 %	229.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0017 ppm	11.1873 ppm	1.2056 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0018 ppm	11.2766 ppm	1.2576 ppm	0.0040 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0019 ppm	11.1798 ppm	1.1993 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0015 ppm	11.1055 ppm	1.1599 ppm	0.0010 ppm
Concentration RSD	140.5 %	30.4 %	172.9 %	12.6 %	0.8 %	4.1 %	85.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.0056 ppm	0.4265 ppm	0.0005 ppm	25.8124 ppm	0.0004 ppm	0.0007 ppm	0.0009 ppm
Concentration per Run 1	11.2460 ppm	0.4291 ppm	0.0004 ppm	25.9442 ppm	0.0006 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 2	10.9893 ppm	0.4259 ppm	0.0004 ppm	25.7924 ppm	0.0000 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 3	10.7814 ppm	0.4246 ppm	0.0008 ppm	25.7005 ppm	0.0006 ppm	0.0005 ppm	-0.0005 ppm
Concentration RSD	2.1 %	0.5 %	50.4 %	0.5 %	93.9 %	31.0 %	174.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	9.4893 ppm	-0.0008 ppm	0.9047 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0009 ppm	9.6178 ppm	0.0005 ppm	0.9169 ppm	0.0001 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 2	-0.0061 ppm	9.5003 ppm	-0.0017 ppm	0.9007 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 3	-0.0012 ppm	9.3500 ppm	-0.0011 ppm	0.8966 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm
Concentration RSD	106.5 %	1.4 %	147.1 %	1.2 %	64.6 %	755.3 %	228.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	88.3669 %	98.0763 %	88.2919 %	91.8019 %	100.2195 %	95.7708 %
Concentration per Run 1	0.0016 ppm	87.1652 %	97.9191 %	87.4713 %	91.3609 %	100.5495 %	95.8110 %
Concentration per Run 2	0.0019 ppm	88.2794 %	97.5931 %	88.3717 %	91.9852 %	99.6729 %	95.9857 %
Concentration per Run 3	0.0017 ppm	89.6559 %	98.7166 %	89.0327 %	92.0598 %	100.4362 %	95.5158 %
Concentration RSD	8.7 %	1.4 %	0.6 %	0.9 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-09 WG1933920
Analysis started at: 6/15/2024 1:09:54 AM
Rack 4
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0073 ppm	0.0004 ppm	0.0232 ppm	0.0315 ppm	0.0000 ppm	97.9483 ppm
Concentration per Run 1	0.0004 ppm	-0.0012 ppm	-0.0006 ppm	0.0234 ppm	0.0316 ppm	0.0000 ppm	98.6600 ppm
Concentration per Run 2	-0.0004 ppm	-0.0133 ppm	-0.0004 ppm	0.0232 ppm	0.0316 ppm	0.0000 ppm	97.7914 ppm
Concentration per Run 3	0.0000 ppm	-0.0075 ppm	0.0021 ppm	0.0230 ppm	0.0312 ppm	0.0000 ppm	97.3936 ppm
Concentration RSD	3,424.8 %	83.3 %	419.9 %	0.8 %	0.6 %	215.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0018 ppm	0.0017 ppm	0.1677 ppm	0.9315 ppm	0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0015 ppm	0.0018 ppm	0.1675 ppm	0.9646 ppm	0.0034 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0020 ppm	0.0019 ppm	0.1699 ppm	0.9270 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	0.0017 ppm	0.0013 ppm	0.1656 ppm	0.9028 ppm	0.0026 ppm
Concentration RSD	5,580.9 %	9.8 %	15.2 %	18.4 %	1.3 %	3.3 %	14.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3266 ppm	1.5972 ppm	0.0000 ppm	16.3926 ppm	0.0044 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	9.5340 ppm	1.6073 ppm	-0.0001 ppm	16.5215 ppm	0.0048 ppm	-0.0005 ppm	0.0012 ppm
Concentration per Run 2	9.3420 ppm	1.5949 ppm	-0.0001 ppm	16.3483 ppm	0.0044 ppm	-0.0006 ppm	-0.0008 ppm
Concentration per Run 3	9.1037 ppm	1.5896 ppm	0.0002 ppm	16.3079 ppm	0.0040 ppm	-0.0009 ppm	-0.0008 ppm
Concentration RSD	2.3 %	0.6 %	936.0 %	0.7 %	8.1 %	24.3 %	794.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	8.3269 ppm	-0.0007 ppm	0.5796 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	8.5128 ppm	-0.0011 ppm	0.5808 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 2	-0.0010 ppm	8.3377 ppm	-0.0009 ppm	0.5797 ppm	0.0004 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 3	-0.0012 ppm	8.1303 ppm	-0.0001 ppm	0.5784 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	104.9 %	2.3 %	78.4 %	0.2 %	320.1 %	439.0 %	58.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	88.2286 %	97.7519 %	88.8263 %	92.6831 %	101.5684 %	97.2128 %
Concentration per Run 1	0.0016 ppm	86.2454 %	96.8134 %	88.2444 %	91.4756 %	101.5175 %	97.5044 %
Concentration per Run 2	0.0016 ppm	88.0523 %	97.6470 %	88.8602 %	92.4760 %	101.0589 %	97.4539 %
Concentration per Run 3	0.0012 ppm	90.3882 %	98.7953 %	89.3742 %	94.0978 %	102.1288 %	96.6803 %
Concentration RSD	15.8 %	2.4 %	1.0 %	0.6 %	1.4 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 1:13:57 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5025 ppm	0.4788 ppm	0.4647 ppm	0.4919 ppm	0.5032 ppm	0.5019 ppm	0.4888 ppm
Concentration per Run 1	0.5090 ppm	0.4895 ppm	0.4715 ppm	0.5022 ppm	0.5042 ppm	0.5051 ppm	0.4924 ppm
Concentration per Run 2	0.5022 ppm	0.4657 ppm	0.4620 ppm	0.4902 ppm	0.5040 ppm	0.5027 ppm	0.4865 ppm
Concentration per Run 3	0.4964 ppm	0.4812 ppm	0.4607 ppm	0.4835 ppm	0.5015 ppm	0.4978 ppm	0.4875 ppm
Recovery Percentage 1	100.505 %	95.755 %	92.942 %	98.386 %	100.646 %	100.372 %	97.759 %
Concentration RSD	1.3 %	2.5 %	1.3 %	1.9 %	0.3 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4918 ppm	0.5068 ppm	0.4872 ppm	0.4962 ppm	0.5066 ppm	4.9649 ppm	0.4786 ppm
Concentration per Run 1	0.5009 ppm	0.5157 ppm	0.4965 ppm	0.5053 ppm	0.5103 ppm	5.0086 ppm	0.4788 ppm
Concentration per Run 2	0.4906 ppm	0.5053 ppm	0.4839 ppm	0.4957 ppm	0.5054 ppm	4.9146 ppm	0.4789 ppm
Concentration per Run 3	0.4840 ppm	0.4994 ppm	0.4812 ppm	0.4875 ppm	0.5039 ppm	4.9714 ppm	0.4782 ppm
Recovery Percentage 1	98.366 %	101.368 %	97.443 %	99.230 %	101.311 %	99.297 %	95.723 %
Concentration RSD	1.7 %	1.6 %	1.7 %	1.8 %	0.7 %	1.0 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4957 ppm	0.4848 ppm	0.4866 ppm	9.7372 ppm	0.5074 ppm	0.4860 ppm	0.4840 ppm
Concentration per Run 1	0.5075 ppm	0.4860 ppm	0.4886 ppm	9.7681 ppm	0.5179 ppm	0.4925 ppm	0.4907 ppm
Concentration per Run 2	0.4955 ppm	0.4842 ppm	0.4854 ppm	9.7141 ppm	0.5042 ppm	0.4837 ppm	0.4840 ppm
Concentration per Run 3	0.4841 ppm	0.4842 ppm	0.4858 ppm	9.7293 ppm	0.4999 ppm	0.4818 ppm	0.4772 ppm
Recovery Percentage 1	99.140 %	96.956 %	97.323 %	97.372 %	101.471 %	97.198 %	96.792 %
Concentration RSD	2.4 %	0.2 %	0.4 %	0.3 %	1.9 %	1.2 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4723 ppm	5.1315 ppm	0.5116 ppm	0.5030 ppm	0.4978 ppm	0.4811 ppm	0.4922 ppm
Concentration per Run 1	0.4781 ppm	5.2065 ppm	0.5160 ppm	0.5046 ppm	0.5056 ppm	0.4873 ppm	0.5001 ppm
Concentration per Run 2	0.4729 ppm	5.1201 ppm	0.5045 ppm	0.5035 ppm	0.4961 ppm	0.4805 ppm	0.4916 ppm
Concentration per Run 3	0.4660 ppm	5.0678 ppm	0.5144 ppm	0.5007 ppm	0.4916 ppm	0.4755 ppm	0.4848 ppm
Recovery Percentage 1	94.467 %	97.742 %	102.329 %	100.591 %	99.550 %	96.220 %	98.432 %
Concentration RSD	1.3 %	1.4 %	1.2 %	0.4 %	1.4 %	1.2 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	98.1121 %	104.5053 %	100.6064 %	93.9076 %	100.4074 %	99.1420 %
Concentration per Run 1	0.5092 ppm	96.0565 %	104.2975 %	100.0566 %	92.7225 %	100.4730 %	99.3278 %
Concentration per Run 2	0.4944 ppm	98.0592 %	104.3718 %	100.8870 %	94.2700 %	100.0596 %	99.4851 %
Concentration per Run 3	0.4918 ppm	100.2207 %	104.8465 %	100.8756 %	94.7303 %	100.6896 %	98.6130 %
Recovery Percentage 1	99.691 %						
Concentration RSD	1.9 %	2.1 %	0.3 %	0.5 %	1.1 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 1:17:57 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	-0.0002 ppm	0.0089 ppm	0.0014 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 2	-0.0002 ppm	-0.0015 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	-2.585 %	2.364 %	15.393 %	2.796 %	0.197 %	0.715 %	3.566 %
Concentration RSD	13.0 %	239.5 %	174.3 %	48.5 %	87.3 %	26.7 %	83.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0008 ppm	0.0043 ppm	-0.0177 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0011 ppm	0.0038 ppm	-0.0119 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0008 ppm	0.0054 ppm	-0.0206 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0005 ppm	0.0038 ppm	-0.0206 ppm	-0.0002 ppm
Recovery Percentage 1	0.360 %	1.839 %	-2.842 %	7.725 %	8.663 %	-0.708 %	-2.288 %
Concentration RSD	142.8 %	51.8 %	30.1 %	41.7 %	21.2 %	28.2 %	358.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	0.0001 ppm	0.0014 ppm	-0.0347 ppm	-0.0003 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 1	0.0013 ppm	0.0000 ppm	0.0016 ppm	-0.0381 ppm	-0.0008 ppm	0.0012 ppm	0.0050 ppm
Concentration per Run 2	-0.0014 ppm	0.0000 ppm	0.0013 ppm	-0.0319 ppm	-0.0006 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 3	0.0015 ppm	0.0002 ppm	0.0012 ppm	-0.0339 ppm	0.0005 ppm	0.0010 ppm	0.0019 ppm
Recovery Percentage 1	0.478 %	0.540 %	2.716 %	-1.733 %	-1.147 %	8.895 %	5.197 %
Concentration RSD	343.0 %	244.8 %	16.4 %	9.1 %	239.3 %	40.7 %	83.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0055 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0020 ppm	0.0007 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0008 ppm	-0.0058 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0020 ppm	-0.0088 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	8.468 %	-1.109 %	0.470 %	-0.017 %	3.320 %	-3.784 %	-0.666 %
Concentration RSD	139.6 %	61.4 %	163.8 %	4,877.1 %	21.8 %	125.7 %	73.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.4724 %	98.3074 %	96.3970 %	95.7381 %	99.5956 %	99.5804 %
Concentration per Run 1	0.0004 ppm	90.2396 %	96.8452 %	96.1906 %	94.7186 %	98.7773 %	100.1921 %
Concentration per Run 2	0.0007 ppm	92.5266 %	98.7332 %	96.1398 %	96.0302 %	100.2021 %	99.3675 %
Concentration per Run 3	0.0006 ppm	94.6509 %	99.3438 %	96.8605 %	96.4654 %	99.8074 %	99.1814 %
Recovery Percentage 1	11.477 %						
Concentration RSD	22.3 %	2.4 %	1.3 %	0.4 %	0.9 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432096-24 WG1933920
Analysis started at: 6/15/2024 1:25:05 AM
Rack 4
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0075 ppm	0.0016 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0144 ppm
Concentration per Run 1	-0.0007 ppm	0.0127 ppm	0.0017 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0156 ppm
Concentration per Run 2	0.0000 ppm	0.0068 ppm	0.0021 ppm	-0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0138 ppm
Concentration per Run 3	-0.0001 ppm	0.0032 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0139 ppm
Concentration RSD	118.7 %	63.7 %	36.9 %	4,252.4 %	120.4 %	124.8 %	6.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0003 ppm	0.0009 ppm	0.0035 ppm	-0.0259 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0010 ppm	0.0054 ppm	-0.0379 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	0.0002 ppm	0.0010 ppm	0.0011 ppm	-0.0137 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0040 ppm	-0.0262 ppm	-0.0012 ppm
Concentration RSD	32.8 %	42.9 %	43.0 %	18.0 %	62.6 %	46.6 %	123.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0002 ppm	-0.0351 ppm	0.0002 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0407 ppm	0.0007 ppm	0.0002 ppm	-0.0029 ppm
Concentration per Run 2	0.0004 ppm	0.0003 ppm	0.0004 ppm	-0.0320 ppm	0.0002 ppm	-0.0008 ppm	-0.0012 ppm
Concentration per Run 3	0.0010 ppm	0.0002 ppm	0.0001 ppm	-0.0326 ppm	-0.0003 ppm	-0.0010 ppm	0.0011 ppm
Concentration RSD	154.7 %	35.0 %	168.8 %	13.9 %	275.5 %	111.5 %	203.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0011 ppm	-0.0005 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0018 ppm	-0.0006 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 2	-0.0008 ppm	0.0015 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	-0.0002 ppm
Concentration RSD	1,277.9 %	75.9 %	35.2 %	151.8 %	113.6 %	268.8 %	297.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	91.6119 %	98.1844 %	95.2933 %	98.1474 %	102.9336 %	101.0001 %
Concentration per Run 1	0.0002 ppm	89.9408 %	96.7768 %	94.7958 %	97.3318 %	102.2446 %	101.6629 %
Concentration per Run 2	0.0001 ppm	91.6654 %	99.0138 %	95.2889 %	98.2304 %	103.6731 %	100.7233 %
Concentration per Run 3	0.0002 ppm	93.2296 %	98.7628 %	95.7952 %	98.8801 %	102.8832 %	100.6141 %
Concentration RSD	35.0 %	1.8 %	1.2 %	0.5 %	0.8 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432096-59 WG1933920
Analysis started at: 6/15/2024 1:29:14 AM
Rack 4
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0038 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 1	-0.0002 ppm	0.0085 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0097 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 3	0.0000 ppm	0.0034 ppm	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0083 ppm
Concentration RSD	58.5 %	115.3 %	12.0 %	223.9 %	2.1 %	152.2 %	17.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	-0.0003 ppm	0.0009 ppm	0.0030 ppm	-0.0228 ppm	-0.0016 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0008 ppm	0.0007 ppm	0.0030 ppm	-0.0194 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0009 ppm	0.0025 ppm	-0.0176 ppm	-0.0021 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	-0.0001 ppm	0.0012 ppm	0.0035 ppm	-0.0313 ppm	-0.0024 ppm
Concentration RSD	114.6 %	7.3 %	183.3 %	24.7 %	16.4 %	32.7 %	63.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0350 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.0016 ppm	-0.0001 ppm	0.0001 ppm	-0.0390 ppm	-0.0005 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0003 ppm	0.0005 ppm	0.0002 ppm	-0.0342 ppm	0.0000 ppm	-0.0007 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0319 ppm	-0.0001 ppm	0.0010 ppm	-0.0007 ppm
Concentration RSD	236.6 %	233.8 %	47.7 %	10.3 %	135.3 %	2,296.9 %	196.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.0032 ppm	0.0013 ppm	0.0000 ppm	0.0002 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0030 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0025 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm	-0.0001 ppm
Concentration RSD	10,560.6 %	86.4 %	811.3 %	59.9 %	138.7 %	76.1 %	253.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	90.5891 %	96.9269 %	94.0534 %	97.6394 %	102.5021 %	101.1617 %
Concentration per Run 1	0.0005 ppm	89.0635 %	96.2584 %	93.5169 %	96.4577 %	102.7304 %	101.5578 %
Concentration per Run 2	0.0003 ppm	90.6778 %	96.9597 %	94.0293 %	98.0850 %	102.6518 %	101.3558 %
Concentration per Run 3	0.0005 ppm	92.0259 %	97.5627 %	94.6142 %	98.3756 %	102.1242 %	100.5713 %
Concentration RSD	18.3 %	1.6 %	0.7 %	0.6 %	1.1 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-10 WG1933920
Analysis started at: 6/15/2024 1:33:17 AM
Rack 4
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0026 ppm	0.0029 ppm	0.0308 ppm	0.0659 ppm	0.0000 ppm	108.3884 ppm
Concentration per Run 1	-0.0007 ppm	0.0068 ppm	0.0033 ppm	0.0306 ppm	0.0662 ppm	0.0000 ppm	108.9265 ppm
Concentration per Run 2	-0.0004 ppm	-0.0056 ppm	0.0032 ppm	0.0309 ppm	0.0659 ppm	0.0000 ppm	108.5453 ppm
Concentration per Run 3	-0.0003 ppm	0.0065 ppm	0.0023 ppm	0.0308 ppm	0.0654 ppm	0.0000 ppm	107.6933 ppm
Concentration RSD	48.8 %	277.0 %	19.7 %	0.6 %	0.6 %	122.6 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0024 ppm	0.0003 ppm	0.0014 ppm	11.3311 ppm	1.5012 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0024 ppm	0.0002 ppm	0.0017 ppm	11.3578 ppm	1.5179 ppm	0.0045 ppm
Concentration per Run 2	0.0000 ppm	0.0027 ppm	0.0003 ppm	0.0015 ppm	11.3609 ppm	1.5020 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0022 ppm	0.0004 ppm	0.0012 ppm	11.2746 ppm	1.4838 ppm	0.0031 ppm
Concentration RSD	856.0 %	9.9 %	45.9 %	17.2 %	0.4 %	1.1 %	47.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2816 ppm	0.3269 ppm	0.0007 ppm	24.7842 ppm	0.0059 ppm	-0.0004 ppm	0.0013 ppm
Concentration per Run 1	10.5090 ppm	0.3289 ppm	0.0000 ppm	24.8877 ppm	0.0062 ppm	-0.0011 ppm	0.0048 ppm
Concentration per Run 2	10.2536 ppm	0.3268 ppm	0.0011 ppm	24.7674 ppm	0.0065 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 3	10.0821 ppm	0.3252 ppm	0.0009 ppm	24.6975 ppm	0.0049 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	2.1 %	0.6 %	83.3 %	0.4 %	14.4 %	148.0 %	231.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	9.8279 ppm	-0.0001 ppm	0.7107 ppm	0.0007 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0026 ppm	10.0277 ppm	-0.0001 ppm	0.7130 ppm	0.0009 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	9.7928 ppm	-0.0003 ppm	0.7137 ppm	0.0006 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	-0.0031 ppm	9.6633 ppm	0.0001 ppm	0.7055 ppm	0.0005 ppm	-0.0018 ppm	0.0000 ppm
Concentration RSD	55.3 %	1.9 %	176.7 %	0.6 %	28.6 %	415.4 %	784.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	89.1005 %	98.9568 %	89.3835 %	92.5653 %	100.8953 %	96.8764 %
Concentration per Run 1	0.0025 ppm	87.1678 %	98.4444 %	87.9108 %	91.6401 %	100.9851 %	96.5950 %
Concentration per Run 2	0.0027 ppm	89.2056 %	98.5961 %	90.1252 %	92.6650 %	100.3983 %	97.1876 %
Concentration per Run 3	0.0026 ppm	90.9282 %	99.8299 %	90.1146 %	93.3907 %	101.3026 %	96.8465 %
Concentration RSD	2.3 %	2.1 %	0.8 %	1.4 %	1.0 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2430662-12 WG1933920
Analysis started at: 6/15/2024 1:37:20 AM
Rack 4
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0019 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 1	-0.0001 ppm	0.0019 ppm	0.0013 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0144 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm	0.0151 ppm
Concentration per Run 3	-0.0006 ppm	0.0032 ppm	0.0012 ppm	-0.0006 ppm	-0.0001 ppm	-0.0001 ppm	0.0107 ppm
Concentration RSD	238.0 %	70.9 %	13.0 %	241.2 %	12,073.3 %	120.7 %	17.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0011 ppm	0.0018 ppm	-0.0190 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	-0.0002 ppm	0.0012 ppm	0.0010 ppm	-0.0546 ppm	0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0010 ppm	0.0019 ppm	0.0030 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0011 ppm	0.0025 ppm	-0.0055 ppm	-0.0017 ppm
Concentration RSD	133.1 %	29.0 %	92.3 %	12.1 %	44.2 %	163.6 %	686.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0001 ppm	0.0002 ppm	-0.0161 ppm	-0.0001 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0166 ppm	-0.0006 ppm	0.0009 ppm	0.0047 ppm
Concentration per Run 2	0.0014 ppm	0.0001 ppm	0.0001 ppm	-0.0127 ppm	0.0001 ppm	0.0008 ppm	-0.0017 ppm
Concentration per Run 3	0.0008 ppm	0.0002 ppm	0.0000 ppm	-0.0190 ppm	0.0003 ppm	0.0006 ppm	-0.0020 ppm
Concentration RSD	53.7 %	48.9 %	132.8 %	20.0 %	632.8 %	18.9 %	1,221.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0026 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	-0.0033 ppm	-0.0037 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0010 ppm	-0.0037 ppm	-0.0005 ppm	-0.0002 ppm	-0.0002 ppm	-0.0015 ppm	-0.0004 ppm
Concentration RSD	347.2 %	76.3 %	268.6 %	90.4 %	165.5 %	161.7 %	156.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	90.5404 %	97.0176 %	94.6047 %	97.3259 %	102.6793 %	101.3932 %
Concentration per Run 1	-0.0004 ppm	89.3709 %	96.0655 %	93.3980 %	96.5933 %	102.5953 %	101.2229 %
Concentration per Run 2	0.0002 ppm	90.2355 %	96.7773 %	94.5666 %	97.3663 %	102.0264 %	101.2759 %
Concentration per Run 3	0.0000 ppm	92.0148 %	98.2099 %	95.8496 %	98.0182 %	103.4163 %	101.6807 %
Concentration RSD	567.7 %	1.5 %	1.1 %	1.3 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431614-01 WG1933920
Analysis started at: 6/15/2024 1:41:24 AM
Rack 4
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0097 ppm	0.0159 ppm	0.0189 ppm	0.0017 ppm	0.0000 ppm	30.5785 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	0.0175 ppm	0.0182 ppm	0.0018 ppm	0.0000 ppm	30.9590 ppm
Concentration per Run 2	-0.0005 ppm	0.0093 ppm	0.0161 ppm	0.0189 ppm	0.0016 ppm	0.0000 ppm	30.6726 ppm
Concentration per Run 3	-0.0004 ppm	0.0183 ppm	0.0142 ppm	0.0196 ppm	0.0017 ppm	0.0000 ppm	30.1039 ppm
Concentration RSD	85.2 %	87.2 %	10.3 %	3.9 %	6.6 %	1,592.7 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0010 ppm	-0.0002 ppm	0.0040 ppm	0.0310 ppm	2.7864 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	-0.0002 ppm	0.0043 ppm	0.0317 ppm	2.8549 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0041 ppm	0.0309 ppm	2.7691 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0036 ppm	0.0305 ppm	2.7353 ppm	0.0001 ppm
Concentration RSD	142.5 %	23.9 %	24.6 %	9.3 %	1.9 %	2.2 %	73.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3286 ppm	0.0454 ppm	0.0005 ppm	15.8360 ppm	0.0006 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 1	4.4012 ppm	0.0461 ppm	0.0007 ppm	15.9731 ppm	0.0008 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 2	4.3349 ppm	0.0453 ppm	0.0005 ppm	15.9144 ppm	0.0007 ppm	0.0016 ppm	0.0007 ppm
Concentration per Run 3	4.2496 ppm	0.0448 ppm	0.0003 ppm	15.6205 ppm	0.0003 ppm	-0.0001 ppm	0.0018 ppm
Concentration RSD	1.8 %	1.5 %	39.4 %	1.2 %	41.9 %	107.8 %	137.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	5.9924 ppm	0.0002 ppm	0.1252 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0020 ppm	6.0689 ppm	-0.0004 ppm	0.1258 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	6.0082 ppm	0.0005 ppm	0.1256 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	-0.0027 ppm	5.9002 ppm	0.0005 ppm	0.1244 ppm	0.0003 ppm	-0.0022 ppm	-0.0002 ppm
Concentration RSD	63.3 %	1.4 %	277.2 %	0.6 %	23.9 %	421.9 %	1,545.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	89.4727 %	97.0895 %	91.3191 %	94.5978 %	100.9616 %	98.6500 %
Concentration per Run 1	0.0043 ppm	88.0778 %	95.5839 %	89.6893 %	93.7514 %	100.3028 %	98.2235 %
Concentration per Run 2	0.0045 ppm	89.1099 %	97.4686 %	91.4499 %	94.4391 %	101.4432 %	98.5537 %
Concentration per Run 3	0.0043 ppm	91.2304 %	98.2161 %	92.8182 %	95.6030 %	101.1388 %	99.1729 %
Concentration RSD	1.7 %	1.8 %	1.4 %	1.7 %	1.0 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432252-01 WG1933920
Analysis started at: 6/15/2024 1:45:26 AM
Rack 4
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.8037 ppm	0.0000 ppm	0.0202 ppm	0.0258 ppm	0.0000 ppm	0.5280 ppm
Concentration per Run 1	0.0000 ppm	0.7970 ppm	-0.0014 ppm	0.0192 ppm	0.0260 ppm	0.0000 ppm	0.5341 ppm
Concentration per Run 2	-0.0005 ppm	0.8035 ppm	0.0003 ppm	0.0195 ppm	0.0258 ppm	0.0000 ppm	0.5208 ppm
Concentration per Run 3	-0.0001 ppm	0.8105 ppm	0.0011 ppm	0.0220 ppm	0.0255 ppm	0.0000 ppm	0.5289 ppm
Concentration RSD	148.9 %	0.8 %	21,598.8 %	7.6 %	1.0 %	83.8 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0016 ppm	0.0525 ppm	0.2388 ppm	1.2234 ppm	0.2863 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	0.0531 ppm	0.2446 ppm	1.2334 ppm	0.3032 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	0.0526 ppm	0.2377 ppm	1.2220 ppm	0.2751 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	0.0518 ppm	0.2340 ppm	1.2149 ppm	0.2806 ppm	0.0009 ppm
Concentration RSD	270.7 %	16.1 %	1.2 %	2.3 %	0.8 %	5.2 %	1,313.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9255 ppm	0.0388 ppm	0.0049 ppm	68.1499 ppm	0.0428 ppm	0.0181 ppm	0.0010 ppm
Concentration per Run 1	0.9405 ppm	0.0392 ppm	0.0046 ppm	68.3415 ppm	0.0431 ppm	0.0189 ppm	-0.0006 ppm
Concentration per Run 2	0.9304 ppm	0.0389 ppm	0.0048 ppm	68.1814 ppm	0.0425 ppm	0.0173 ppm	0.0016 ppm
Concentration per Run 3	0.9056 ppm	0.0385 ppm	0.0054 ppm	67.9267 ppm	0.0429 ppm	0.0182 ppm	0.0020 ppm
Concentration RSD	1.9 %	0.9 %	8.6 %	0.3 %	0.8 %	4.6 %	134.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	1.6678 ppm	0.0021 ppm	0.0016 ppm	0.0031 ppm	-0.0010 ppm	0.0011 ppm
Concentration per Run 1	-0.0006 ppm	1.7020 ppm	0.0028 ppm	0.0017 ppm	0.0031 ppm	-0.0023 ppm	0.0012 ppm
Concentration per Run 2	0.0006 ppm	1.6660 ppm	0.0009 ppm	0.0016 ppm	0.0031 ppm	-0.0005 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	1.6356 ppm	0.0025 ppm	0.0015 ppm	0.0030 ppm	-0.0002 ppm	0.0011 ppm
Concentration RSD	1,411.1 %	2.0 %	48.3 %	5.5 %	1.9 %	113.1 %	9.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.5587 ppm	89.5796 %	99.8754 %	91.1099 %	94.0589 %	103.2608 %	98.6465 %
Concentration per Run 1	3.6139 ppm	87.7078 %	99.6803 %	90.3333 %	92.9425 %	103.9533 %	98.8982 %
Concentration per Run 2	3.5693 ppm	89.6327 %	99.5516 %	91.3936 %	94.3172 %	102.9374 %	98.9145 %
Concentration per Run 3	3.4930 ppm	91.3984 %	100.3942 %	91.6029 %	94.9168 %	102.8917 %	98.1267 %
Concentration RSD	1.7 %	2.1 %	0.5 %	0.7 %	1.1 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432392-30 WG1933920
Analysis started at: 6/15/2024 1:49:29 AM
Rack 4
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0152 ppm
Concentration per Run 1	0.0003 ppm	-0.0051 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	-0.0001 ppm	0.0173 ppm
Concentration per Run 2	0.0002 ppm	0.0021 ppm	0.0006 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 3	-0.0004 ppm	0.0027 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0138 ppm
Concentration RSD	928.9 %	4,223.7 %	106.6 %	1,864.6 %	186.4 %	116.4 %	12.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0008 ppm	-0.0004 ppm	0.0012 ppm	0.0038 ppm	-0.0296 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0015 ppm	0.0058 ppm	-0.0242 ppm	-0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0015 ppm	0.0029 ppm	-0.0428 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	-0.0005 ppm	0.0008 ppm	0.0026 ppm	-0.0218 ppm	-0.0004 ppm
Concentration RSD	48.5 %	39.3 %	25.2 %	30.9 %	47.0 %	38.8 %	406.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0001 ppm	0.0002 ppm	-0.0274 ppm	-0.0004 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	0.0008 ppm	-0.0282 ppm	-0.0009 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 2	0.0018 ppm	-0.0001 ppm	-0.0003 ppm	-0.0263 ppm	-0.0007 ppm	0.0008 ppm	-0.0006 ppm
Concentration per Run 3	-0.0010 ppm	0.0003 ppm	0.0002 ppm	-0.0277 ppm	0.0004 ppm	-0.0001 ppm	-0.0022 ppm
Concentration RSD	376.4 %	145.1 %	247.1 %	3.6 %	171.0 %	466.4 %	172.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0017 ppm	0.0045 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	-0.0001 ppm
Concentration RSD	312.8 %	140.9 %	90.0 %	109.6 %	133.5 %	143.4 %	112.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	89.7251 %	96.0276 %	94.0704 %	97.3113 %	101.9477 %	101.3283 %
Concentration per Run 1	0.0003 ppm	88.2393 %	95.6176 %	93.2237 %	96.3699 %	102.5837 %	101.5378 %
Concentration per Run 2	0.0004 ppm	89.8363 %	96.1163 %	93.8663 %	97.3195 %	101.9994 %	100.7838 %
Concentration per Run 3	0.0004 ppm	91.0996 %	96.3490 %	95.1214 %	98.2443 %	101.2598 %	101.6635 %
Concentration RSD	21.4 %	1.6 %	0.4 %	1.0 %	1.0 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 1:53:33 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4986 ppm	0.4707 ppm	0.4654 ppm	0.4868 ppm	0.5002 ppm	0.5023 ppm	0.4853 ppm
Concentration per Run 1	0.5041 ppm	0.4721 ppm	0.4692 ppm	0.4949 ppm	0.5014 ppm	0.5025 ppm	0.4861 ppm
Concentration per Run 2	0.4989 ppm	0.4728 ppm	0.4644 ppm	0.4887 ppm	0.5002 ppm	0.5045 ppm	0.4872 ppm
Concentration per Run 3	0.4926 ppm	0.4670 ppm	0.4626 ppm	0.4769 ppm	0.4990 ppm	0.4999 ppm	0.4825 ppm
Recovery Percentage 1	99.713 %	94.132 %	93.076 %	97.366 %	100.040 %	100.466 %	97.055 %
Concentration RSD	1.2 %	0.7 %	0.7 %	1.9 %	0.2 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4857 ppm	0.5022 ppm	0.4838 ppm	0.4903 ppm	0.5048 ppm	4.9423 ppm	0.4727 ppm
Concentration per Run 1	0.4939 ppm	0.5098 ppm	0.4906 ppm	0.4978 ppm	0.5049 ppm	4.9808 ppm	0.4757 ppm
Concentration per Run 2	0.4835 ppm	0.5019 ppm	0.4829 ppm	0.4909 ppm	0.5062 ppm	4.9421 ppm	0.4685 ppm
Concentration per Run 3	0.4797 ppm	0.4948 ppm	0.4778 ppm	0.4822 ppm	0.5033 ppm	4.9042 ppm	0.4738 ppm
Recovery Percentage 1	97.142 %	100.439 %	96.755 %	98.058 %	100.963 %	98.847 %	94.533 %
Concentration RSD	1.5 %	1.5 %	1.3 %	1.6 %	0.3 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4934 ppm	0.4838 ppm	0.4811 ppm	9.7715 ppm	0.5030 ppm	0.4863 ppm	0.4782 ppm
Concentration per Run 1	0.4997 ppm	0.4856 ppm	0.4837 ppm	9.7917 ppm	0.5110 ppm	0.4918 ppm	0.4849 ppm
Concentration per Run 2	0.4922 ppm	0.4830 ppm	0.4812 ppm	9.7635 ppm	0.5018 ppm	0.4843 ppm	0.4785 ppm
Concentration per Run 3	0.4882 ppm	0.4828 ppm	0.4785 ppm	9.7593 ppm	0.4961 ppm	0.4828 ppm	0.4712 ppm
Recovery Percentage 1	98.683 %	96.757 %	96.225 %	97.715 %	100.590 %	97.255 %	95.647 %
Concentration RSD	1.2 %	0.3 %	0.5 %	0.2 %	1.5 %	1.0 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4750 ppm	5.0726 ppm	0.5059 ppm	0.5028 ppm	0.4961 ppm	0.4783 ppm	0.4875 ppm
Concentration per Run 1	0.4808 ppm	5.1257 ppm	0.5057 ppm	0.5020 ppm	0.5038 ppm	0.4811 ppm	0.4955 ppm
Concentration per Run 2	0.4729 ppm	5.0800 ppm	0.5061 ppm	0.5069 ppm	0.4943 ppm	0.4772 ppm	0.4866 ppm
Concentration per Run 3	0.4714 ppm	5.0119 ppm	0.5060 ppm	0.4996 ppm	0.4902 ppm	0.4765 ppm	0.4806 ppm
Recovery Percentage 1	95.007 %	96.620 %	101.186 %	100.569 %	99.216 %	95.656 %	97.509 %
Concentration RSD	1.1 %	1.1 %	0.0 %	0.7 %	1.4 %	0.5 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4931 ppm	99.1639 %	104.6359 %	100.1205 %	94.7446 %	100.9815 %	98.3096 %
Concentration per Run 1	0.5015 ppm	97.8469 %	104.1589 %	99.6590 %	94.8200 %	101.0270 %	98.6284 %
Concentration per Run 2	0.4904 ppm	99.2398 %	105.0019 %	100.0118 %	94.7022 %	101.1287 %	98.0771 %
Concentration per Run 3	0.4874 ppm	100.4052 %	104.7469 %	100.6907 %	94.7117 %	100.7889 %	98.2232 %
Recovery Percentage 1	98.621 %						
Concentration RSD	1.5 %	1.3 %	0.4 %	0.5 %	0.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 1:57:33 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0032 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	-0.0002 ppm	0.0013 ppm	0.0019 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run 2	-0.0004 ppm	-0.0058 ppm	0.0004 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run 3	-0.0001 ppm	-0.0052 ppm	0.0011 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0072 ppm
Recovery Percentage 1	-3.032 %	-3.197 %	37.070 %	0.026 %	1.684 %	-0.045 %	6.880 %
Concentration RSD	86.0 %	122.7 %	66.5 %	9,523.4 %	89.1 %	1,852.2 %	30.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0008 ppm	0.0047 ppm	-0.0331 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0003 ppm	0.0013 ppm	0.0055 ppm	-0.0406 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	-0.0002 ppm	0.0007 ppm	0.0062 ppm	-0.0225 ppm	-0.0019 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm	0.0025 ppm	-0.0361 ppm	-0.0001 ppm
Recovery Percentage 1	-1.327 %	3.284 %	-2.143 %	8.297 %	9.453 %	-1.322 %	-9.010 %
Concentration RSD	182.2 %	20.7 %	54.3 %	47.4 %	41.6 %	28.4 %	104.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0016 ppm	-0.0351 ppm	-0.0006 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	0.0020 ppm	-0.0382 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0012 ppm	0.0001 ppm	0.0013 ppm	-0.0376 ppm	-0.0008 ppm	-0.0016 ppm	0.0021 ppm
Concentration per Run 3	-0.0008 ppm	0.0004 ppm	0.0015 ppm	-0.0294 ppm	-0.0011 ppm	0.0001 ppm	0.0005 ppm
Recovery Percentage 1	0.007 %	1.363 %	3.169 %	-1.753 %	-2.430 %	-4.429 %	1.560 %
Concentration RSD	16,371.3 %	195.9 %	23.5 %	14.0 %	100.1 %	224.9 %	156.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	-0.0088 ppm	0.0008 ppm	-0.0002 ppm	0.0003 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	-0.0022 ppm	-0.0081 ppm	0.0014 ppm	-0.0001 ppm	0.0006 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0020 ppm	-0.0095 ppm	0.0011 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 3	-0.0002 ppm	-0.0087 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	-0.0015 ppm	-0.0001 ppm
Recovery Percentage 1	-1.299 %	-1.753 %	1.520 %	-1.717 %	2.787 %	-3.966 %	-1.685 %
Concentration RSD	1,608.1 %	8.1 %	115.5 %	45.9 %	121.7 %	101.2 %	128.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	93.6087 %	99.1415 %	96.6500 %	96.2869 %	100.5431 %	99.7565 %
Concentration per Run 1	0.0007 ppm	92.1020 %	98.2815 %	96.1664 %	95.9465 %	100.4513 %	100.0036 %
Concentration per Run 2	0.0010 ppm	94.2195 %	99.6967 %	96.2087 %	97.0372 %	101.2267 %	99.4271 %
Concentration per Run 3	0.0006 ppm	94.5045 %	99.4463 %	97.5748 %	95.8771 %	99.9513 %	99.8387 %
Recovery Percentage 1	15.671 %						
Concentration RSD	26.2 %	1.4 %	0.8 %	0.8 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934574-1 WG1934574
Analysis started at: 6/15/2024 2:21:46 AM
Rack 4
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0017 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	0.0018 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 2	-0.0007 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 3	-0.0006 ppm	-0.0060 ppm	0.0011 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0156 ppm
Concentration RSD	34.2 %	213.6 %	109.8 %	2,504.2 %	2,418.5 %	171.3 %	42.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0013 ppm	0.0006 ppm	-0.0438 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0014 ppm	0.0006 ppm	-0.0194 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	-0.0007 ppm	0.0012 ppm	-0.0003 ppm	-0.0425 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0015 ppm	-0.0695 ppm	-0.0005 ppm
Concentration RSD	232.5 %	135.3 %	145.8 %	11.4 %	153.8 %	57.3 %	305.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0003 ppm	0.0000 ppm	-0.0341 ppm	0.0000 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 1	0.0011 ppm	0.0003 ppm	0.0000 ppm	-0.0324 ppm	-0.0002 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0405 ppm	0.0002 ppm	-0.0005 ppm	-0.0014 ppm
Concentration per Run 3	0.0011 ppm	0.0003 ppm	-0.0001 ppm	-0.0295 ppm	-0.0001 ppm	-0.0007 ppm	-0.0019 ppm
Concentration RSD	94.4 %	13.0 %	3,767.2 %	16.6 %	559.6 %	200.3 %	197.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	-0.0076 ppm	0.0009 ppm	-0.0002 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0012 ppm	-0.0065 ppm	0.0008 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	-0.0022 ppm	-0.0076 ppm	0.0012 ppm	-0.0001 ppm	0.0003 ppm	0.0016 ppm	0.0001 ppm
Concentration per Run 3	-0.0018 ppm	-0.0089 ppm	0.0008 ppm	-0.0003 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm
Concentration RSD	27.8 %	15.4 %	24.9 %	31.3 %	38.9 %	355.1 %	142.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	90.0100 %	95.7576 %	94.2221 %	97.9387 %	102.8791 %	101.9420 %
Concentration per Run 1	0.0017 ppm	88.7784 %	94.4489 %	93.6239 %	97.4760 %	101.8792 %	102.2064 %
Concentration per Run 2	0.0017 ppm	90.2682 %	95.3889 %	94.1254 %	98.3800 %	102.5602 %	101.9920 %
Concentration per Run 3	0.0018 ppm	90.9834 %	97.4350 %	94.9168 %	97.9602 %	104.1980 %	101.6275 %
Concentration RSD	3.3 %	1.2 %	1.6 %	0.7 %	0.5 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934574-2 WG1934574
Analysis started at: 6/15/2024 2:25:57 AM
Rack 4
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0536 ppm	1.9402 ppm	0.1260 ppm	1.0499 ppm	2.1032 ppm	0.0521 ppm	10.4780 ppm
Concentration per Run 1	0.0542 ppm	1.9275 ppm	0.1283 ppm	1.0601 ppm	2.1158 ppm	0.0525 ppm	10.5292 ppm
Concentration per Run 2	0.0540 ppm	1.9418 ppm	0.1256 ppm	1.0527 ppm	2.0863 ppm	0.0520 ppm	10.4564 ppm
Concentration per Run 3	0.0526 ppm	1.9512 ppm	0.1240 ppm	1.0368 ppm	2.1077 ppm	0.0516 ppm	10.4485 ppm
Concentration RSD	1.6 %	0.6 %	1.7 %	1.1 %	0.7 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0561 ppm	0.5285 ppm	0.2071 ppm	0.2699 ppm	1.0415 ppm	10.4660 ppm	-0.0015 ppm
Concentration per Run 1	0.0570 ppm	0.5361 ppm	0.2107 ppm	0.2743 ppm	1.0494 ppm	10.5614 ppm	-0.0017 ppm
Concentration per Run 2	0.0560 ppm	0.5278 ppm	0.2067 ppm	0.2705 ppm	1.0395 ppm	10.4309 ppm	0.0001 ppm
Concentration per Run 3	0.0554 ppm	0.5214 ppm	0.2039 ppm	0.2650 ppm	1.0355 ppm	10.4057 ppm	-0.0029 ppm
Concentration RSD	1.5 %	1.4 %	1.6 %	1.7 %	0.7 %	0.8 %	103.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8191 ppm	0.5120 ppm	0.9843 ppm	10.5256 ppm	0.5337 ppm	0.5576 ppm	0.4384 ppm
Concentration per Run 1	11.0410 ppm	0.5141 ppm	0.9812 ppm	10.6197 ppm	0.5445 ppm	0.5654 ppm	0.4389 ppm
Concentration per Run 2	10.7890 ppm	0.5111 ppm	0.9837 ppm	10.5186 ppm	0.5338 ppm	0.5572 ppm	0.4444 ppm
Concentration per Run 3	10.6272 ppm	0.5107 ppm	0.9880 ppm	10.4385 ppm	0.5228 ppm	0.5500 ppm	0.4320 ppm
Concentration RSD	1.9 %	0.4 %	0.3 %	0.9 %	2.0 %	1.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1255 ppm	1.1022 ppm	0.9643 ppm	1.0337 ppm	1.0813 ppm	0.1270 ppm	0.5319 ppm
Concentration per Run 1	0.1252 ppm	1.1156 ppm	0.9617 ppm	1.0426 ppm	1.0980 ppm	0.1296 ppm	0.5403 ppm
Concentration per Run 2	0.1269 ppm	1.1035 ppm	0.9665 ppm	1.0334 ppm	1.0820 ppm	0.1251 ppm	0.5320 ppm
Concentration per Run 3	0.1243 ppm	1.0876 ppm	0.9646 ppm	1.0252 ppm	1.0637 ppm	0.1262 ppm	0.5233 ppm
Concentration RSD	1.1 %	1.3 %	0.2 %	0.8 %	1.6 %	1.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5310 ppm	92.5810 %	100.9578 %	93.6918 %	94.8886 %	101.3285 %	99.0775 %
Concentration per Run 1	0.5403 ppm	90.5682 %	100.1398 %	92.2936 %	93.9822 %	101.3997 %	98.8812 %
Concentration per Run 2	0.5308 ppm	93.0497 %	101.1652 %	94.0146 %	95.4224 %	101.3252 %	99.5158 %
Concentration per Run 3	0.5218 ppm	94.1253 %	101.5685 %	94.7672 %	95.2612 %	101.2605 %	98.8356 %
Concentration RSD	1.7 %	2.0 %	0.7 %	1.4 %	0.8 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: eL2432811-01 WG1934574
Analysis started at: 6/15/2024 2:30:01 AM
Rack 4
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	85.4329 ppm	0.1292 ppm	0.7059 ppm	0.2720 ppm	0.0057 ppm	85.9333 ppm
Concentration per Run 1	0.0014 ppm	85.6729 ppm	0.1313 ppm	0.7148 ppm	0.2714 ppm	0.0058 ppm	86.0356 ppm
Concentration per Run 2	0.0014 ppm	85.2518 ppm	0.1273 ppm	0.7057 ppm	0.2726 ppm	0.0057 ppm	85.8569 ppm
Concentration per Run 3	0.0009 ppm	85.3740 ppm	0.1289 ppm	0.6971 ppm	0.2720 ppm	0.0057 ppm	85.9073 ppm
Concentration RSD	23.6 %	0.3 %	1.6 %	1.2 %	0.2 %	1.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0026 ppm	0.2841 ppm	0.8911 ppm	0.7034 ppm	276.6097 ppm	66.9556 ppm	0.2613 ppm
Concentration per Run 1	0.0024 ppm	0.2885 ppm	0.9056 ppm	0.7134 ppm	277.4352 ppm	66.8042 ppm	0.2620 ppm
Concentration per Run 2	0.0026 ppm	0.2839 ppm	0.8867 ppm	0.7054 ppm	276.7317 ppm	66.8313 ppm	0.2590 ppm
Concentration per Run 3	0.0027 ppm	0.2799 ppm	0.8810 ppm	0.6915 ppm	275.6623 ppm	67.2311 ppm	0.2630 ppm
Concentration RSD	4.6 %	1.5 %	1.4 %	1.6 %	0.3 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	197.6346 ppm	9.4789 ppm	0.0691 ppm	1,267.1811 ppm	0.3342 ppm	0.3660 ppm	0.0061 ppm
Concentration per Run 1	201.0643 ppm	9.4862 ppm	0.0685 ppm	1,268.6053 ppm	0.3403 ppm	0.3682 ppm	0.0048 ppm
Concentration per Run 2	196.9683 ppm	9.4730 ppm	0.0688 ppm	1,264.9137 ppm	0.3327 ppm	0.3659 ppm	0.0064 ppm
Concentration per Run 3	194.8712 ppm	9.4774 ppm	0.0701 ppm	1,268.0243 ppm	0.3298 ppm	0.3638 ppm	0.0070 ppm
Concentration RSD	1.6 %	0.1 %	1.2 %	0.2 %	1.6 %	0.6 %	18.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	86.5860 ppm	0.0073 ppm	1.2029 ppm	0.5021 ppm	-0.0010 ppm	0.1388 ppm
Concentration per Run 1	-0.0003 ppm	87.6541 ppm	0.0079 ppm	1.2099 ppm	0.5051 ppm	-0.0009 ppm	0.1413 ppm
Concentration per Run 2	-0.0061 ppm	86.5150 ppm	0.0070 ppm	1.2011 ppm	0.4985 ppm	-0.0003 ppm	0.1382 ppm
Concentration per Run 3	0.0014 ppm	85.5889 ppm	0.0070 ppm	1.1976 ppm	0.5026 ppm	-0.0019 ppm	0.1370 ppm
Concentration RSD	233.9 %	1.2 %	7.3 %	0.5 %	0.7 %	74.7 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6376 ppm	88.5304 %	104.9298 %	80.2872 %	96.3950 %	117.4576 %	104.4106 %
Concentration per Run 1	1.6696 ppm	87.1691 %	104.2869 %	79.7756 %	95.6834 %	116.7892 %	104.0380 %
Concentration per Run 2	1.6269 ppm	88.7694 %	105.7781 %	80.4542 %	96.9539 %	118.3469 %	104.9070 %
Concentration per Run 3	1.6162 ppm	89.6527 %	104.7245 %	80.6318 %	96.5477 %	117.2368 %	104.2869 %
Concentration RSD	1.7 %	1.4 %	0.7 %	0.6 %	0.7 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: eL2433190-02 WG1934574
Analysis started at: 6/15/2024 2:34:04 AM
Rack 4
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	145.6095 ppm	0.4362 ppm	0.4220 ppm	0.4139 ppm	0.0178 ppm	652.5382 ppm
Concentration per Run 1	0.0016 ppm	145.6790 ppm	0.4364 ppm	0.4250 ppm	0.4191 ppm	0.0180 ppm	651.8735 ppm
Concentration per Run 2	0.0012 ppm	145.8450 ppm	0.4389 ppm	0.4182 ppm	0.4113 ppm	0.0176 ppm	652.7821 ppm
Concentration per Run 3	0.0017 ppm	145.3045 ppm	0.4332 ppm	0.4228 ppm	0.4112 ppm	0.0178 ppm	652.9591 ppm
Concentration RSD	20.5 %	0.2 %	0.7 %	0.8 %	1.1 %	1.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0070 ppm	0.3597 ppm	0.3552 ppm	1.6305 ppm	608.9755 ppm	29.9570 ppm	0.5563 ppm
Concentration per Run 1	0.0069 ppm	0.3632 ppm	0.3590 ppm	1.6451 ppm	612.1568 ppm	30.0583 ppm	0.5539 ppm
Concentration per Run 2	0.0074 ppm	0.3577 ppm	0.3537 ppm	1.6238 ppm	606.6242 ppm	29.8549 ppm	0.5593 ppm
Concentration per Run 3	0.0068 ppm	0.3581 ppm	0.3530 ppm	1.6228 ppm	608.1454 ppm	29.9577 ppm	0.5556 ppm
Concentration RSD	4.6 %	0.9 %	0.9 %	0.8 %	0.5 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	320.3621 ppm	14.2659 ppm	0.0006 ppm	39.8843 ppm	0.7524 ppm	0.4305 ppm	0.0103 ppm
Concentration per Run 1	324.2224 ppm	14.2556 ppm	0.0000 ppm	39.8156 ppm	0.7601 ppm	0.4304 ppm	0.0092 ppm
Concentration per Run 2	319.2376 ppm	14.2870 ppm	0.0006 ppm	39.7797 ppm	0.7498 ppm	0.4329 ppm	0.0108 ppm
Concentration per Run 3	317.6263 ppm	14.2550 ppm	0.0014 ppm	40.0577 ppm	0.7473 ppm	0.4282 ppm	0.0109 ppm
Concentration RSD	1.1 %	0.1 %	107.0 %	0.4 %	0.9 %	0.5 %	9.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0117 ppm	172.3676 ppm	0.0015 ppm	2.0025 ppm	0.4358 ppm	0.0012 ppm	0.2929 ppm
Concentration per Run 1	-0.0087 ppm	173.4754 ppm	0.0010 ppm	2.0238 ppm	0.4431 ppm	0.0015 ppm	0.2944 ppm
Concentration per Run 2	-0.0138 ppm	172.0482 ppm	0.0012 ppm	1.9812 ppm	0.4257 ppm	0.0024 ppm	0.2921 ppm
Concentration per Run 3	-0.0127 ppm	171.5793 ppm	0.0022 ppm	2.0025 ppm	0.4386 ppm	-0.0001 ppm	0.2922 ppm
Concentration RSD	22.6 %	0.6 %	44.2 %	1.1 %	2.1 %	101.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.9493 ppm	102.0135 %	120.4115 %	81.8117 %	155.4190 %	195.6790 %	163.1278 %
Concentration per Run 1	5.0041 ppm	100.8333 %	120.3807 %	81.9738 %	155.7057 %	195.5724 %	163.2066 %
Concentration per Run 2	4.9339 ppm	102.4769 %	119.8210 %	81.2391 %	155.3486 %	194.7763 %	162.9116 %
Concentration per Run 3	4.9099 ppm	102.7304 %	121.0327 %	82.2221 %	155.2026 %	196.6884 %	163.2651 %
Concentration RSD	1.0 %	1.0 %	0.5 %	0.6 %	0.2 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2433247-02 WG1934574
Analysis started at: 6/15/2024 2:38:08 AM
Rack 4
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0208 ppm	0.0007 ppm	0.0015 ppm	0.0005 ppm	0.0000 ppm	0.0525 ppm
Concentration per Run 1	-0.0006 ppm	0.0188 ppm	0.0023 ppm	0.0014 ppm	0.0005 ppm	0.0000 ppm	0.0539 ppm
Concentration per Run 2	-0.0003 ppm	0.0214 ppm	0.0014 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0510 ppm
Concentration per Run 3	-0.0006 ppm	0.0223 ppm	-0.0016 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0525 ppm
Concentration RSD	41.4 %	8.7 %	290.6 %	56.2 %	24.9 %	160.7 %	2.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0014 ppm	0.0526 ppm	0.0150 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0014 ppm	0.0549 ppm	0.0360 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0013 ppm	0.0520 ppm	-0.0111 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0016 ppm	0.0508 ppm	0.0199 ppm	-0.0016 ppm
Concentration RSD	218.1 %	24.6 %	62.9 %	11.4 %	4.0 %	160.1 %	142.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0128 ppm	0.0007 ppm	0.0005 ppm	0.0609 ppm	0.0001 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0137 ppm	0.0007 ppm	0.0007 ppm	0.0624 ppm	0.0006 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 2	0.0118 ppm	0.0009 ppm	0.0004 ppm	0.0563 ppm	-0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.0130 ppm	0.0007 ppm	0.0005 ppm	0.0640 ppm	-0.0001 ppm	-0.0005 ppm	0.0007 ppm
Concentration RSD	7.6 %	15.2 %	33.8 %	6.6 %	366.9 %	390.3 %	52.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	0.0499 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0734 ppm	-0.0003 ppm	0.0002 ppm	0.0010 ppm	-0.0022 ppm	0.0000 ppm
Concentration per Run 2	0.0011 ppm	0.0417 ppm	0.0003 ppm	0.0004 ppm	0.0006 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	0.0346 ppm	-0.0003 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm
Concentration RSD	137.2 %	41.4 %	320.5 %	51.8 %	45.6 %	347.3 %	159.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	91.5293 %	98.2600 %	94.7997 %	98.3312 %	104.1611 %	101.6903 %
Concentration per Run 1	0.0008 ppm	90.4274 %	96.8603 %	93.5855 %	98.3095 %	103.2835 %	101.5798 %
Concentration per Run 2	0.0004 ppm	90.9872 %	99.1869 %	94.9358 %	97.6259 %	105.2324 %	101.8109 %
Concentration per Run 3	0.0006 ppm	93.1734 %	98.7329 %	95.8778 %	99.0581 %	103.9675 %	101.6801 %
Concentration RSD	37.4 %	1.6 %	1.3 %	1.2 %	0.7 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432648-01 WG1934574
Analysis started at: 6/15/2024 2:42:11 AM
Rack 4
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0154 ppm	0.0012 ppm	0.0601 ppm	0.0220 ppm	0.0000 ppm	5.5966 ppm
Concentration per Run 1	-0.0004 ppm	0.0160 ppm	0.0005 ppm	0.0619 ppm	0.0224 ppm	0.0000 ppm	5.6085 ppm
Concentration per Run 2	-0.0002 ppm	0.0161 ppm	0.0021 ppm	0.0590 ppm	0.0217 ppm	0.0000 ppm	5.6050 ppm
Concentration per Run 3	0.0001 ppm	0.0141 ppm	0.0009 ppm	0.0593 ppm	0.0218 ppm	0.0000 ppm	5.5763 ppm
Concentration RSD	161.6 %	7.4 %	69.7 %	2.6 %	1.7 %	273.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0510 ppm	0.1770 ppm	1.7153 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0520 ppm	0.1762 ppm	1.7652 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0514 ppm	0.1784 ppm	1.7171 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	-0.0003 ppm	0.0496 ppm	0.1765 ppm	1.6635 ppm	0.0012 ppm
Concentration RSD	105.1 %	65.6 %	272.7 %	2.4 %	0.7 %	3.0 %	281.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.9178 ppm	0.0045 ppm	0.0004 ppm	56.0499 ppm	0.0017 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 1	3.9796 ppm	0.0044 ppm	-0.0003 ppm	56.2110 ppm	0.0018 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	3.9206 ppm	0.0046 ppm	0.0008 ppm	56.0930 ppm	0.0008 ppm	0.0014 ppm	-0.0013 ppm
Concentration per Run 3	3.8532 ppm	0.0046 ppm	0.0007 ppm	55.8457 ppm	0.0026 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	1.6 %	2.8 %	152.6 %	0.3 %	52.9 %	399.0 %	145.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	2.4512 ppm	-0.0002 ppm	0.0694 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0010 ppm	2.4943 ppm	-0.0003 ppm	0.0694 ppm	0.0008 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 2	-0.0006 ppm	2.4427 ppm	-0.0004 ppm	0.0693 ppm	0.0009 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	-0.0021 ppm	2.4166 ppm	0.0001 ppm	0.0695 ppm	0.0012 ppm	0.0006 ppm	0.0001 ppm
Concentration RSD	268.3 %	1.6 %	159.9 %	0.1 %	21.9 %	1,133.6 %	67.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0184 ppm	89.1093 %	98.1881 %	90.8856 %	94.2072 %	102.8715 %	99.2452 %
Concentration per Run 1	0.0185 ppm	87.7927 %	97.8641 %	90.0283 %	93.6438 %	103.1485 %	99.4219 %
Concentration per Run 2	0.0185 ppm	89.0503 %	98.1878 %	91.0223 %	94.2423 %	102.8491 %	99.3124 %
Concentration per Run 3	0.0183 ppm	90.4849 %	98.5125 %	91.6062 %	94.7354 %	102.6169 %	99.0014 %
Concentration RSD	0.8 %	1.5 %	0.3 %	0.9 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934574-3 WG1934574
Analysis started at: 6/15/2024 2:46:15 AM
Rack 4
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0541 ppm	1.9164 ppm	0.1328 ppm	1.1414 ppm	2.1230 ppm	0.0530 ppm	15.9317 ppm
Concentration per Run 1	0.0545 ppm	1.9147 ppm	0.1314 ppm	1.1570 ppm	2.1368 ppm	0.0533 ppm	16.0252 ppm
Concentration per Run 2	0.0542 ppm	1.9088 ppm	0.1334 ppm	1.1438 ppm	2.1218 ppm	0.0532 ppm	15.8451 ppm
Concentration per Run 3	0.0535 ppm	1.9259 ppm	0.1335 ppm	1.1234 ppm	2.1104 ppm	0.0526 ppm	15.9249 ppm
Concentration RSD	0.9 %	0.5 %	0.9 %	1.5 %	0.6 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0569 ppm	0.5341 ppm	0.2106 ppm	0.3226 ppm	1.1974 ppm	12.1225 ppm	0.0001 ppm
Concentration per Run 1	0.0579 ppm	0.5440 ppm	0.2153 ppm	0.3287 ppm	1.2034 ppm	12.2019 ppm	-0.0002 ppm
Concentration per Run 2	0.0569 ppm	0.5345 ppm	0.2102 ppm	0.3227 ppm	1.1983 ppm	12.1133 ppm	-0.0007 ppm
Concentration per Run 3	0.0558 ppm	0.5237 ppm	0.2062 ppm	0.3164 ppm	1.1904 ppm	12.0524 ppm	0.0012 ppm
Concentration RSD	1.8 %	1.9 %	2.2 %	1.9 %	0.5 %	0.6 %	1,573.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6279 ppm	0.5173 ppm	0.9654 ppm	65.2926 ppm	0.5400 ppm	0.5602 ppm	0.4865 ppm
Concentration per Run 1	14.9434 ppm	0.5205 ppm	0.9624 ppm	65.6784 ppm	0.5525 ppm	0.5676 ppm	0.4909 ppm
Concentration per Run 2	14.6458 ppm	0.5161 ppm	0.9664 ppm	65.2320 ppm	0.5370 ppm	0.5562 ppm	0.4869 ppm
Concentration per Run 3	14.2946 ppm	0.5152 ppm	0.9673 ppm	64.9675 ppm	0.5304 ppm	0.5567 ppm	0.4817 ppm
Concentration RSD	2.2 %	0.5 %	0.3 %	0.6 %	2.1 %	1.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1320 ppm	3.6411 ppm	0.9450 ppm	1.1038 ppm	1.0982 ppm	0.1274 ppm	0.5416 ppm
Concentration per Run 1	0.1322 ppm	3.7122 ppm	0.9499 ppm	1.1055 ppm	1.1187 ppm	0.1293 ppm	0.5478 ppm
Concentration per Run 2	0.1309 ppm	3.6247 ppm	0.9386 ppm	1.1092 ppm	1.0969 ppm	0.1269 ppm	0.5440 ppm
Concentration per Run 3	0.1327 ppm	3.5864 ppm	0.9465 ppm	1.0965 ppm	1.0790 ppm	0.1260 ppm	0.5330 ppm
Concentration RSD	0.7 %	1.8 %	0.6 %	0.6 %	1.8 %	1.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5624 ppm	89.8692 %	99.7547 %	89.7769 %	93.6180 %	101.9534 %	98.3023 %
Concentration per Run 1	0.5745 ppm	88.1665 %	99.4362 %	88.6540 %	92.4805 %	102.4259 %	98.0710 %
Concentration per Run 2	0.5607 ppm	89.7645 %	100.1936 %	90.0749 %	93.8761 %	102.3269 %	98.5064 %
Concentration per Run 3	0.5522 ppm	91.6765 %	99.6342 %	90.6017 %	94.4975 %	101.1075 %	98.3295 %
Concentration RSD	2.0 %	2.0 %	0.4 %	1.1 %	1.1 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934574-4 WG1934574
Analysis started at: 6/15/2024 2:50:19 AM
Rack 4
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0161 ppm	0.0025 ppm	0.0618 ppm	0.0227 ppm	0.0000 ppm	5.6618 ppm
Concentration per Run 1	0.0001 ppm	0.0166 ppm	0.0029 ppm	0.0627 ppm	0.0230 ppm	0.0000 ppm	5.6923 ppm
Concentration per Run 2	-0.0004 ppm	0.0170 ppm	0.0017 ppm	0.0619 ppm	0.0228 ppm	0.0000 ppm	5.6710 ppm
Concentration per Run 3	-0.0005 ppm	0.0147 ppm	0.0029 ppm	0.0610 ppm	0.0222 ppm	0.0000 ppm	5.6221 ppm
Concentration RSD	124.0 %	7.5 %	26.5 %	1.4 %	1.8 %	629.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	-0.0001 ppm	0.0507 ppm	0.1647 ppm	1.7408 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0519 ppm	0.1697 ppm	1.7972 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0507 ppm	0.1637 ppm	1.7352 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	0.0002 ppm	0.0495 ppm	0.1608 ppm	1.6899 ppm	-0.0007 ppm
Concentration RSD	112.4 %	32.6 %	373.2 %	2.3 %	2.8 %	3.1 %	25.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.9878 ppm	0.0046 ppm	0.0048 ppm	56.8586 ppm	0.0004 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 1	4.0626 ppm	0.0046 ppm	0.0049 ppm	57.2137 ppm	0.0003 ppm	-0.0023 ppm	0.0025 ppm
Concentration per Run 2	3.9899 ppm	0.0045 ppm	0.0052 ppm	56.9521 ppm	0.0003 ppm	0.0008 ppm	0.0011 ppm
Concentration per Run 3	3.9109 ppm	0.0047 ppm	0.0042 ppm	56.4100 ppm	0.0004 ppm	0.0009 ppm	0.0014 ppm
Concentration RSD	1.9 %	1.8 %	10.9 %	0.7 %	12.0 %	957.3 %	43.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	2.5085 ppm	0.0029 ppm	0.0704 ppm	0.0011 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	2.5393 ppm	0.0030 ppm	0.0708 ppm	0.0010 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 2	0.0019 ppm	2.5305 ppm	0.0033 ppm	0.0700 ppm	0.0013 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	-0.0028 ppm	2.4557 ppm	0.0024 ppm	0.0704 ppm	0.0008 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	719.0 %	1.8 %	16.1 %	0.5 %	22.4 %	199.2 %	148.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0177 ppm	88.6281 %	98.5538 %	90.6206 %	93.9539 %	103.2581 %	99.1569 %
Concentration per Run 1	0.0180 ppm	87.0546 %	97.7843 %	89.6233 %	93.0977 %	103.1320 %	99.2463 %
Concentration per Run 2	0.0177 ppm	88.7355 %	98.3699 %	90.8969 %	94.3571 %	103.4373 %	99.6323 %
Concentration per Run 3	0.0174 ppm	90.0943 %	99.5072 %	91.3416 %	94.4070 %	103.2050 %	98.5920 %
Concentration RSD	1.5 %	1.7 %	0.9 %	1.0 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934574-5 WG1934574
Analysis started at: 6/15/2024 2:54:22 AM
Rack 4
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0543 ppm	2.0114 ppm	0.1360 ppm	1.2273 ppm	2.2183 ppm	0.0550 ppm	16.7806 ppm
Concentration per Run 1	0.0551 ppm	2.0178 ppm	0.1360 ppm	1.2437 ppm	2.2386 ppm	0.0557 ppm	16.8775 ppm
Concentration per Run 2	0.0544 ppm	2.0156 ppm	0.1367 ppm	1.2298 ppm	2.2124 ppm	0.0550 ppm	16.7894 ppm
Concentration per Run 3	0.0534 ppm	2.0007 ppm	0.1351 ppm	1.2082 ppm	2.2040 ppm	0.0543 ppm	16.6749 ppm
Concentration RSD	1.6 %	0.5 %	0.6 %	1.5 %	0.8 %	1.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0597 ppm	0.5618 ppm	0.2224 ppm	0.3378 ppm	1.2533 ppm	12.8985 ppm	0.0007 ppm
Concentration per Run 1	0.0607 ppm	0.5707 ppm	0.2266 ppm	0.3434 ppm	1.2660 ppm	13.0650 ppm	0.0017 ppm
Concentration per Run 2	0.0599 ppm	0.5628 ppm	0.2224 ppm	0.3379 ppm	1.2564 ppm	12.9134 ppm	-0.0005 ppm
Concentration per Run 3	0.0587 ppm	0.5520 ppm	0.2183 ppm	0.3320 ppm	1.2375 ppm	12.7172 ppm	0.0010 ppm
Concentration RSD	1.7 %	1.7 %	1.9 %	1.7 %	1.2 %	1.4 %	156.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.5138 ppm	0.5402 ppm	1.0130 ppm	65.2380 ppm	0.5697 ppm	0.5893 ppm	0.4023 ppm
Concentration per Run 1	15.8355 ppm	0.5458 ppm	1.0074 ppm	65.5903 ppm	0.5852 ppm	0.5962 ppm	0.3981 ppm
Concentration per Run 2	15.4806 ppm	0.5406 ppm	1.0197 ppm	65.2957 ppm	0.5677 ppm	0.5891 ppm	0.4037 ppm
Concentration per Run 3	15.2251 ppm	0.5342 ppm	1.0119 ppm	64.8279 ppm	0.5563 ppm	0.5826 ppm	0.4052 ppm
Concentration RSD	2.0 %	1.1 %	0.6 %	0.6 %	2.5 %	1.2 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1392 ppm	3.8067 ppm	1.0471 ppm	1.1781 ppm	1.1888 ppm	0.1341 ppm	0.5731 ppm
Concentration per Run 1	0.1418 ppm	3.8595 ppm	1.0411 ppm	1.1884 ppm	1.2111 ppm	0.1370 ppm	0.5828 ppm
Concentration per Run 2	0.1384 ppm	3.8186 ppm	1.0545 ppm	1.1809 ppm	1.1867 ppm	0.1333 ppm	0.5726 ppm
Concentration per Run 3	0.1372 ppm	3.7420 ppm	1.0456 ppm	1.1650 ppm	1.1686 ppm	0.1321 ppm	0.5638 ppm
Concentration RSD	1.7 %	1.6 %	0.7 %	1.0 %	1.8 %	1.9 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5925 ppm	90.2728 %	99.9134 %	89.5622 %	93.7696 %	102.1467 %	97.9219 %
Concentration per Run 1	0.6047 ppm	89.3675 %	99.6668 %	88.6363 %	93.6573 %	102.8449 %	97.7416 %
Concentration per Run 2	0.5937 ppm	90.2819 %	99.3979 %	89.7527 %	93.9439 %	101.5557 %	98.1343 %
Concentration per Run 3	0.5791 ppm	91.1690 %	100.6756 %	90.2977 %	93.7075 %	102.0396 %	97.8898 %
Concentration RSD	2.2 %	1.0 %	0.7 %	0.9 %	0.2 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934574-6d5 WG1934574
Analysis started at: 6/15/2024 2:58:26 AM
Rack 4
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0014 ppm	0.0001 ppm	0.0112 ppm	0.0042 ppm	0.0000 ppm	1.0290 ppm
Concentration per Run 1	0.0004 ppm	-0.0005 ppm	0.0001 ppm	0.0117 ppm	0.0044 ppm	-0.0001 ppm	1.0344 ppm
Concentration per Run 2	-0.0001 ppm	0.0059 ppm	-0.0002 ppm	0.0116 ppm	0.0044 ppm	0.0000 ppm	1.0276 ppm
Concentration per Run 3	-0.0003 ppm	-0.0013 ppm	0.0004 ppm	0.0103 ppm	0.0039 ppm	0.0000 ppm	1.0250 ppm
Concentration RSD	12,199.0 %	284.1 %	244.3 %	6.9 %	6.0 %	658.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0096 ppm	0.0351 ppm	0.3251 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0096 ppm	0.0357 ppm	0.3494 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0007 ppm	0.0096 ppm	0.0333 ppm	0.3267 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0094 ppm	0.0364 ppm	0.2991 ppm	0.0012 ppm
Concentration RSD	32.3 %	29.2 %	354.0 %	1.4 %	4.6 %	7.8 %	57.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.6922 ppm	0.0009 ppm	0.0058 ppm	10.4569 ppm	-0.0002 ppm	0.0001 ppm	0.0089 ppm
Concentration per Run 1	0.7013 ppm	0.0007 ppm	0.0059 ppm	10.5311 ppm	-0.0009 ppm	0.0014 ppm	0.0090 ppm
Concentration per Run 2	0.6919 ppm	0.0012 ppm	0.0060 ppm	10.4316 ppm	-0.0003 ppm	-0.0007 ppm	0.0090 ppm
Concentration per Run 3	0.6835 ppm	0.0009 ppm	0.0056 ppm	10.4082 ppm	0.0005 ppm	-0.0004 ppm	0.0088 ppm
Concentration RSD	1.3 %	22.0 %	4.2 %	0.6 %	290.6 %	1,199.7 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.4218 ppm	0.0055 ppm	0.0128 ppm	0.0006 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	0.4312 ppm	0.0056 ppm	0.0130 ppm	0.0008 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	0.4198 ppm	0.0054 ppm	0.0127 ppm	0.0005 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	0.4142 ppm	0.0055 ppm	0.0129 ppm	0.0004 ppm	-0.0020 ppm	0.0002 ppm
Concentration RSD	1,046.2 %	2.1 %	2.0 %	1.2 %	39.6 %	117.0 %	477.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0033 ppm	97.0387 %	102.6124 %	98.3981 %	95.8147 %	100.6483 %	99.2229 %
Concentration per Run 1	0.0034 ppm	95.4926 %	102.1192 %	97.6269 %	95.3822 %	100.8005 %	99.2505 %
Concentration per Run 2	0.0032 ppm	97.3007 %	102.7191 %	98.3865 %	96.2972 %	100.6060 %	99.3057 %
Concentration per Run 3	0.0033 ppm	98.3227 %	102.9989 %	99.1808 %	95.7647 %	100.5385 %	99.1125 %
Concentration RSD	2.5 %	1.5 %	0.4 %	0.8 %	0.5 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 3:02:29 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4982 ppm	0.4781 ppm	0.4650 ppm	0.4892 ppm	0.5053 ppm	0.5031 ppm	0.4892 ppm
Concentration per Run 1	0.5042 ppm	0.4796 ppm	0.4615 ppm	0.4985 ppm	0.5053 ppm	0.5024 ppm	0.4921 ppm
Concentration per Run 2	0.4976 ppm	0.4787 ppm	0.4675 ppm	0.4884 ppm	0.5047 ppm	0.5039 ppm	0.4889 ppm
Concentration per Run 3	0.4926 ppm	0.4761 ppm	0.4661 ppm	0.4807 ppm	0.5060 ppm	0.5028 ppm	0.4867 ppm
Recovery Percentage 1	99.631 %	95.625 %	93.000 %	97.835 %	101.069 %	100.612 %	97.844 %
Concentration RSD	1.2 %	0.4 %	0.7 %	1.8 %	0.1 %	0.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4873 ppm	0.5047 ppm	0.4854 ppm	0.4940 ppm	0.5077 ppm	4.9351 ppm	0.4772 ppm
Concentration per Run 1	0.4976 ppm	0.5165 ppm	0.4909 ppm	0.5052 ppm	0.5052 ppm	4.9454 ppm	0.4752 ppm
Concentration per Run 2	0.4869 ppm	0.5027 ppm	0.4867 ppm	0.4912 ppm	0.5084 ppm	4.9459 ppm	0.4766 ppm
Concentration per Run 3	0.4774 ppm	0.4949 ppm	0.4787 ppm	0.4855 ppm	0.5096 ppm	4.9139 ppm	0.4798 ppm
Recovery Percentage 1	97.463 %	100.942 %	97.085 %	98.791 %	101.546 %	98.702 %	95.446 %
Concentration RSD	2.1 %	2.2 %	1.3 %	2.1 %	0.4 %	0.4 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4958 ppm	0.4856 ppm	0.4842 ppm	9.8026 ppm	0.5039 ppm	0.4862 ppm	0.4875 ppm
Concentration per Run 1	0.5041 ppm	0.4865 ppm	0.4861 ppm	9.8490 ppm	0.5100 ppm	0.4879 ppm	0.4929 ppm
Concentration per Run 2	0.4974 ppm	0.4854 ppm	0.4861 ppm	9.7393 ppm	0.5065 ppm	0.4871 ppm	0.4899 ppm
Concentration per Run 3	0.4859 ppm	0.4849 ppm	0.4803 ppm	9.8196 ppm	0.4952 ppm	0.4835 ppm	0.4796 ppm
Recovery Percentage 1	99.158 %	97.119 %	96.831 %	98.026 %	100.777 %	97.231 %	97.495 %
Concentration RSD	1.9 %	0.2 %	0.7 %	0.6 %	1.5 %	0.5 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4734 ppm	5.1018 ppm	0.5097 ppm	0.5036 ppm	0.4974 ppm	0.4797 ppm	0.4901 ppm
Concentration per Run 1	0.4736 ppm	5.1757 ppm	0.5054 ppm	0.5022 ppm	0.5030 ppm	0.4757 ppm	0.4989 ppm
Concentration per Run 2	0.4731 ppm	5.0983 ppm	0.5126 ppm	0.5048 ppm	0.4984 ppm	0.4840 ppm	0.4900 ppm
Concentration per Run 3	0.4733 ppm	5.0314 ppm	0.5110 ppm	0.5039 ppm	0.4909 ppm	0.4795 ppm	0.4813 ppm
Recovery Percentage 1	94.670 %	97.177 %	101.935 %	100.725 %	99.486 %	95.944 %	98.012 %
Concentration RSD	0.1 %	1.4 %	0.7 %	0.3 %	1.2 %	0.9 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4932 ppm	98.6537 %	103.8939 %	100.1325 %	94.8261 %	100.1422 %	98.6633 %
Concentration per Run 1	0.4999 ppm	96.1079 %	103.4497 %	99.5192 %	93.6323 %	100.0866 %	98.4878 %
Concentration per Run 2	0.4956 ppm	98.7895 %	103.8930 %	100.2346 %	94.7699 %	100.2107 %	98.8913 %
Concentration per Run 3	0.4841 ppm	101.0636 %	104.3390 %	100.6437 %	96.0762 %	100.1294 %	98.6108 %
Recovery Percentage 1	98.647 %						
Concentration RSD	1.7 %	2.5 %	0.4 %	0.6 %	1.3 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 3:06:30 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0069 ppm	0.0018 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 1	-0.0002 ppm	-0.0051 ppm	0.0019 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0077 ppm
Concentration per Run 2	-0.0002 ppm	-0.0020 ppm	0.0035 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 3	-0.0005 ppm	-0.0136 ppm	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0067 ppm
Recovery Percentage 1	-4.241 %	-6.866 %	59.574 %	3.713 %	1.448 %	0.065 %	7.668 %
Concentration RSD	61.4 %	87.5 %	95.9 %	9.8 %	73.2 %	1,850.9 %	13.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0044 ppm	-0.0307 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0064 ppm	-0.0383 ppm	0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0011 ppm	0.0029 ppm	-0.0180 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0039 ppm	-0.0358 ppm	0.0010 ppm
Recovery Percentage 1	-1.355 %	1.386 %	0.336 %	9.131 %	8.792 %	-1.228 %	9.878 %
Concentration RSD	76.5 %	74.8 %	229.9 %	18.1 %	41.6 %	36.2 %	97.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0000 ppm	0.0017 ppm	-0.0052 ppm	0.0001 ppm	-0.0004 ppm	0.0041 ppm
Concentration per Run 1	0.0023 ppm	-0.0001 ppm	0.0019 ppm	-0.0044 ppm	0.0001 ppm	-0.0003 ppm	0.0033 ppm
Concentration per Run 2	0.0007 ppm	0.0001 ppm	0.0019 ppm	-0.0086 ppm	-0.0002 ppm	0.0001 ppm	0.0054 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0014 ppm	-0.0027 ppm	0.0005 ppm	-0.0008 ppm	0.0036 ppm
Recovery Percentage 1	1.037 %	0.024 %	3.485 %	-0.261 %	0.517 %	-3.514 %	8.124 %
Concentration RSD	106.6 %	3,170.4 %	16.4 %	58.4 %	247.9 %	124.4 %	28.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0027 ppm	0.0004 ppm	-0.0002 ppm	0.0004 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0030 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	0.0009 ppm	-0.0047 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0013 ppm	0.0159 ppm	0.0006 ppm	-0.0001 ppm	0.0008 ppm	-0.0001 ppm	-0.0003 ppm
Recovery Percentage 1	-1.236 %	0.547 %	0.780 %	-1.998 %	3.872 %	-3.821 %	-1.288 %
Concentration RSD	920.9 %	418.9 %	44.9 %	64.6 %	89.6 %	89.8 %	148.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	93.5849 %	98.8502 %	96.3464 %	96.3929 %	100.3849 %	99.5650 %
Concentration per Run 1	0.0008 ppm	91.8045 %	98.3859 %	96.0779 %	95.7287 %	100.7062 %	100.2989 %
Concentration per Run 2	0.0008 ppm	93.6474 %	99.1609 %	95.9869 %	96.3068 %	100.4179 %	99.1644 %
Concentration per Run 3	0.0008 ppm	95.3028 %	99.0039 %	96.9744 %	97.1433 %	100.0306 %	99.2316 %
Recovery Percentage 1	16.306 %						
Concentration RSD	2.0 %	1.9 %	0.4 %	0.6 %	0.7 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934475-1 WG1934475
Analysis started at: 6/15/2024 3:23:04 AM
Rack 4
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0007 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 1	-0.0003 ppm	-0.0076 ppm	0.0018 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 2	-0.0004 ppm	0.0053 ppm	-0.0009 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	0.0015 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0095 ppm
Concentration RSD	21.8 %	909.1 %	179.2 %	188.9 %	593.0 %	656.6 %	22.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0010 ppm	0.0034 ppm	-0.0536 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	-0.0005 ppm	0.0008 ppm	0.0034 ppm	-0.0785 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0013 ppm	0.0038 ppm	-0.0346 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0031 ppm	-0.0476 ppm	-0.0003 ppm
Concentration RSD	137.2 %	250.7 %	56.2 %	29.9 %	10.5 %	42.1 %	11,204.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0019 ppm	0.0001 ppm	0.0000 ppm	-0.0197 ppm	0.0002 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.0012 ppm	-0.0001 ppm	0.0001 ppm	-0.0203 ppm	0.0001 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 2	0.0025 ppm	0.0002 ppm	0.0000 ppm	-0.0243 ppm	0.0002 ppm	-0.0001 ppm	-0.0030 ppm
Concentration per Run 3	0.0020 ppm	0.0002 ppm	0.0000 ppm	-0.0145 ppm	0.0002 ppm	0.0007 ppm	-0.0012 ppm
Concentration RSD	34.1 %	137.3 %	185.9 %	25.0 %	41.5 %	941.3 %	186.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	-0.0046 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	-0.0085 ppm	0.0008 ppm	-0.0003 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.0012 ppm	0.0007 ppm	-0.0002 ppm	0.0003 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0047 ppm	-0.0065 ppm	-0.0007 ppm	-0.0003 ppm	-0.0003 ppm	0.0009 ppm	-0.0002 ppm
Concentration RSD	130.0 %	110.6 %	328.5 %	22.1 %	193.3 %	421.7 %	10.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	88.8041 %	94.6389 %	93.5507 %	97.9742 %	102.3741 %	101.5598 %
Concentration per Run 1	0.0020 ppm	87.0235 %	94.6162 %	92.4000 %	96.9332 %	103.1796 %	101.4195 %
Concentration per Run 2	0.0021 ppm	88.9326 %	93.3681 %	93.8586 %	98.1785 %	100.8414 %	101.6661 %
Concentration per Run 3	0.0021 ppm	90.4561 %	95.9323 %	94.3935 %	98.8108 %	103.1013 %	101.5938 %
Concentration RSD	3.4 %	1.9 %	1.4 %	1.1 %	1.0 %	1.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934475-2 WG1934475
Analysis started at: 6/15/2024 3:35:06 AM
Rack 4
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0410 ppm	1.9335 ppm	0.1034 ppm	0.7830 ppm	1.8757 ppm	0.0466 ppm	9.2740 ppm
Concentration per Run 1	0.0399 ppm	1.9403 ppm	0.1024 ppm	0.7675 ppm	1.8719 ppm	0.0464 ppm	9.2317 ppm
Concentration per Run 2	0.0411 ppm	1.9219 ppm	0.1034 ppm	0.7851 ppm	1.8711 ppm	0.0466 ppm	9.2842 ppm
Concentration per Run 3	0.0419 ppm	1.9383 ppm	0.1043 ppm	0.7963 ppm	1.8841 ppm	0.0468 ppm	9.3062 ppm
Concentration RSD	2.4 %	0.5 %	0.9 %	1.9 %	0.4 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0436 ppm	0.4088 ppm	0.1622 ppm	0.2071 ppm	0.9401 ppm	9.2511 ppm	-0.0001 ppm
Concentration per Run 1	0.0430 ppm	0.4028 ppm	0.1597 ppm	0.2039 ppm	0.9356 ppm	9.2038 ppm	0.0001 ppm
Concentration per Run 2	0.0436 ppm	0.4080 ppm	0.1621 ppm	0.2071 ppm	0.9390 ppm	9.2058 ppm	0.0012 ppm
Concentration per Run 3	0.0443 ppm	0.4155 ppm	0.1649 ppm	0.2102 ppm	0.9456 ppm	9.3436 ppm	-0.0014 ppm
Concentration RSD	1.5 %	1.6 %	1.6 %	1.5 %	0.5 %	0.9 %	1,917.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.1538 ppm	0.4634 ppm	0.7745 ppm	9.2397 ppm	0.4148 ppm	0.4637 ppm	0.3413 ppm
Concentration per Run 1	8.0249 ppm	0.4616 ppm	0.7556 ppm	9.2214 ppm	0.4088 ppm	0.4599 ppm	0.3343 ppm
Concentration per Run 2	8.1614 ppm	0.4628 ppm	0.7720 ppm	9.2747 ppm	0.4152 ppm	0.4644 ppm	0.3428 ppm
Concentration per Run 3	8.2752 ppm	0.4659 ppm	0.7959 ppm	9.2231 ppm	0.4204 ppm	0.4669 ppm	0.3467 ppm
Concentration RSD	1.5 %	0.5 %	2.6 %	0.3 %	1.4 %	0.8 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1022 ppm	0.8202 ppm	0.9340 ppm	0.8996 ppm	0.8297 ppm	0.1067 ppm	0.4159 ppm
Concentration per Run 1	0.1009 ppm	0.8130 ppm	0.9361 ppm	0.8964 ppm	0.8164 ppm	0.1047 ppm	0.4096 ppm
Concentration per Run 2	0.1023 ppm	0.8203 ppm	0.9257 ppm	0.9007 ppm	0.8312 ppm	0.1067 ppm	0.4160 ppm
Concentration per Run 3	0.1035 ppm	0.8272 ppm	0.9403 ppm	0.9018 ppm	0.8414 ppm	0.1087 ppm	0.4221 ppm
Concentration RSD	1.3 %	0.9 %	0.8 %	0.3 %	1.5 %	1.9 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4112 ppm	118.0146 %	110.1860 %	108.5964 %	95.6021 %	100.4170 %	98.0511 %
Concentration per Run 1	0.4051 ppm	120.1238 %	111.0814 %	109.5734 %	95.7847 %	100.8080 %	97.9118 %
Concentration per Run 2	0.4106 ppm	118.1183 %	110.0576 %	108.4077 %	95.9720 %	100.4751 %	97.7556 %
Concentration per Run 3	0.4179 ppm	115.8015 %	109.4189 %	107.8083 %	95.0495 %	99.9679 %	98.4858 %
Concentration RSD	1.6 %	1.8 %	0.8 %	0.8 %	0.5 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432610-01 WG1934475
Analysis started at: 6/15/2024 3:39:38 AM
Rack 4
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	1.2033 ppm	0.0013 ppm	0.0130 ppm	0.0010 ppm	0.0000 ppm	3.0224 ppm
Concentration per Run 1	0.0000 ppm	1.2063 ppm	0.0031 ppm	0.0142 ppm	0.0011 ppm	0.0000 ppm	3.0325 ppm
Concentration per Run 2	-0.0005 ppm	1.2050 ppm	-0.0007 ppm	0.0118 ppm	0.0009 ppm	0.0000 ppm	3.0320 ppm
Concentration per Run 3	-0.0004 ppm	1.1985 ppm	0.0013 ppm	0.0130 ppm	0.0010 ppm	-0.0001 ppm	3.0027 ppm
Concentration RSD	82.0 %	0.3 %	149.3 %	9.2 %	10.7 %	180.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0072 ppm	0.0067 ppm	0.1222 ppm	0.6166 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0074 ppm	0.0067 ppm	0.1202 ppm	0.6375 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0070 ppm	0.0068 ppm	0.1238 ppm	0.6188 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0073 ppm	0.0067 ppm	0.1227 ppm	0.5936 ppm	0.0025 ppm
Concentration RSD	551.7 %	30.6 %	3.4 %	0.7 %	1.5 %	3.6 %	186.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4562 ppm	0.0084 ppm	0.0232 ppm	203.5965 ppm	0.0302 ppm	0.0004 ppm	0.0031 ppm
Concentration per Run 1	1.4633 ppm	0.0082 ppm	0.0223 ppm	204.2909 ppm	0.0299 ppm	-0.0001 ppm	0.0040 ppm
Concentration per Run 2	1.4590 ppm	0.0086 ppm	0.0239 ppm	203.5835 ppm	0.0308 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 3	1.4464 ppm	0.0083 ppm	0.0235 ppm	202.9151 ppm	0.0301 ppm	0.0013 ppm	0.0016 ppm
Concentration RSD	0.6 %	2.6 %	3.6 %	0.3 %	1.5 %	185.1 %	42.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.8102 ppm	0.0024 ppm	0.0067 ppm	0.0012 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	-0.0006 ppm	0.8186 ppm	0.0029 ppm	0.0068 ppm	0.0013 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	0.8107 ppm	0.0013 ppm	0.0067 ppm	0.0011 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0019 ppm	0.8013 ppm	0.0029 ppm	0.0067 ppm	0.0013 ppm	0.0013 ppm	0.0003 ppm
Concentration RSD	735.0 %	1.1 %	39.2 %	1.0 %	12.5 %	75.5 %	29.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	91.2480 %	101.0995 %	89.5980 %	92.4184 %	103.1076 %	96.7390 %
Concentration per Run 1	0.0029 ppm	90.4560 %	100.4656 %	89.2530 %	92.0935 %	102.7151 %	97.1456 %
Concentration per Run 2	0.0028 ppm	91.5416 %	101.6901 %	89.6968 %	92.7979 %	103.8425 %	97.0499 %
Concentration per Run 3	0.0027 ppm	91.7463 %	101.1428 %	89.8443 %	92.3637 %	102.7650 %	96.0217 %
Concentration RSD	4.9 %	0.8 %	0.6 %	0.3 %	0.4 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432857-01 WG1934475
Analysis started at: 6/15/2024 3:43:42 AM
Rack 4
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1392 ppm	0.0013 ppm	0.0612 ppm	0.0301 ppm	0.0000 ppm	60.8174 ppm
Concentration per Run 1	-0.0004 ppm	0.1422 ppm	0.0021 ppm	0.0654 ppm	0.0304 ppm	0.0000 ppm	61.2008 ppm
Concentration per Run 2	-0.0003 ppm	0.1360 ppm	0.0009 ppm	0.0573 ppm	0.0302 ppm	0.0000 ppm	61.0745 ppm
Concentration per Run 3	-0.0003 ppm	0.1394 ppm	0.0008 ppm	0.0608 ppm	0.0297 ppm	0.0000 ppm	60.1771 ppm
Concentration RSD	19.1 %	2.2 %	55.0 %	6.6 %	1.3 %	105.0 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0009 ppm	0.0010 ppm	0.0081 ppm	0.0916 ppm	3.1440 ppm	0.0103 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0012 ppm	0.0091 ppm	0.0934 ppm	3.1873 ppm	0.0121 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0007 ppm	0.0072 ppm	0.0926 ppm	3.1674 ppm	0.0105 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0081 ppm	0.0890 ppm	3.0774 ppm	0.0084 ppm
Concentration RSD	108.5 %	42.1 %	28.2 %	11.9 %	2.5 %	1.9 %	17.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.9202 ppm	0.0083 ppm	0.0079 ppm	196.3315 ppm	0.0015 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 1	18.2440 ppm	0.0083 ppm	0.0085 ppm	197.3653 ppm	0.0013 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 2	15.7924 ppm	0.0083 ppm	0.0072 ppm	197.2198 ppm	0.0013 ppm	0.0011 ppm	0.0027 ppm
Concentration per Run 3	16.7242 ppm	0.0083 ppm	0.0079 ppm	194.4095 ppm	0.0019 ppm	0.0002 ppm	0.0017 ppm
Concentration RSD	7.3 %	0.4 %	7.9 %	0.8 %	22.7 %	80.8 %	38.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	3.2011 ppm	0.0001 ppm	0.5648 ppm	0.0018 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	3.4217 ppm	-0.0002 ppm	0.5737 ppm	0.0016 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 2	-0.0015 ppm	2.9961 ppm	0.0005 ppm	0.5616 ppm	0.0023 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 3	-0.0009 ppm	3.1855 ppm	-0.0002 ppm	0.5592 ppm	0.0015 ppm	0.0004 ppm	0.0010 ppm
Concentration RSD	79.7 %	6.7 %	619.8 %	1.4 %	24.7 %	49.7 %	25.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0131 ppm	90.1293 %	99.5602 %	88.2799 %	93.9025 %	101.0379 %	96.1466 %
Concentration per Run 1	0.0139 ppm	83.6950 %	99.2520 %	88.0235 %	88.4960 %	101.3462 %	97.0939 %
Concentration per Run 2	0.0121 ppm	95.5324 %	99.5424 %	88.4164 %	99.7459 %	101.0175 %	96.1579 %
Concentration per Run 3	0.0133 ppm	91.1604 %	99.8862 %	88.3997 %	93.4655 %	100.7500 %	95.1879 %
Concentration RSD	7.3 %	6.6 %	0.3 %	0.3 %	6.0 %	0.3 %	1.0 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432857-02 WG1934475
Analysis started at: 6/15/2024 3:47:46 AM
Rack 4
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0494 ppm	0.0015 ppm	0.1165 ppm	0.0368 ppm	0.0000 ppm	100.6117 ppm
Concentration per Run 1	-0.0002 ppm	0.0537 ppm	0.0008 ppm	0.1189 ppm	0.0372 ppm	0.0000 ppm	101.2552 ppm
Concentration per Run 2	0.0001 ppm	0.0449 ppm	0.0019 ppm	0.1157 ppm	0.0366 ppm	0.0000 ppm	100.9468 ppm
Concentration per Run 3	-0.0001 ppm	0.0495 ppm	0.0017 ppm	0.1149 ppm	0.0366 ppm	0.0000 ppm	99.6332 ppm
Concentration RSD	169.4 %	8.9 %	39.5 %	1.8 %	0.9 %	135.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0039 ppm	0.0212 ppm	4.5285 ppm	0.0171 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0037 ppm	0.0215 ppm	4.6042 ppm	0.0184 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0009 ppm	0.0041 ppm	0.0216 ppm	4.4952 ppm	0.0163 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0038 ppm	0.0207 ppm	4.4862 ppm	0.0167 ppm
Concentration RSD	658.3 %	65.1 %	53.7 %	5.0 %	2.4 %	1.5 %	6.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.1594 ppm	0.0023 ppm	0.0063 ppm	404.3202 ppm	0.0018 ppm	-0.0002 ppm	0.0022 ppm
Concentration per Run 1	34.8812 ppm	0.0022 ppm	0.0063 ppm	407.0355 ppm	0.0026 ppm	-0.0005 ppm	0.0027 ppm
Concentration per Run 2	34.1667 ppm	0.0022 ppm	0.0066 ppm	405.7178 ppm	0.0008 ppm	-0.0015 ppm	-0.0018 ppm
Concentration per Run 3	33.4302 ppm	0.0025 ppm	0.0060 ppm	400.2072 ppm	0.0019 ppm	0.0013 ppm	0.0058 ppm
Concentration RSD	2.1 %	6.3 %	5.3 %	0.9 %	49.7 %	710.1 %	171.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	6.0986 ppm	-0.0005 ppm	1.2840 ppm	0.0008 ppm	-0.0007 ppm	0.0008 ppm
Concentration per Run 1	-0.0022 ppm	6.1808 ppm	-0.0008 ppm	1.2962 ppm	0.0013 ppm	-0.0006 ppm	0.0006 ppm
Concentration per Run 2	0.0008 ppm	6.1121 ppm	-0.0004 ppm	1.2805 ppm	0.0006 ppm	-0.0007 ppm	0.0009 ppm
Concentration per Run 3	0.0018 ppm	6.0029 ppm	-0.0002 ppm	1.2753 ppm	0.0005 ppm	-0.0009 ppm	0.0008 ppm
Concentration RSD	1,446.3 %	1.5 %	58.7 %	0.8 %	55.6 %	17.7 %	23.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0084 ppm	82.8171 %	95.4802 %	80.7906 %	86.4064 %	99.1240 %	91.6815 %
Concentration per Run 1	0.0087 ppm	81.2230 %	94.9743 %	79.8250 %	85.2663 %	99.3306 %	91.7160 %
Concentration per Run 2	0.0083 ppm	82.7639 %	94.7364 %	80.8945 %	86.6047 %	98.4167 %	91.4388 %
Concentration per Run 3	0.0083 ppm	84.4643 %	96.7299 %	81.6523 %	87.3482 %	99.6246 %	91.8896 %
Concentration RSD	2.6 %	2.0 %	1.1 %	1.1 %	1.2 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2431188-01 WG1934475
Analysis started at: 6/15/2024 3:51:50 AM
Rack 4
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0021 ppm	0.0004 ppm	0.0752 ppm	0.1097 ppm	0.0000 ppm	69.5221 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0005 ppm	0.0747 ppm	0.1107 ppm	-0.0001 ppm	69.8367 ppm
Concentration per Run 2	-0.0002 ppm	-0.0025 ppm	-0.0012 ppm	0.0757 ppm	0.1088 ppm	0.0000 ppm	69.5682 ppm
Concentration per Run 3	-0.0006 ppm	0.0096 ppm	0.0019 ppm	0.0751 ppm	0.1097 ppm	0.0000 ppm	69.1612 ppm
Concentration RSD	103.0 %	311.9 %	384.8 %	0.7 %	0.9 %	1,591.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0020 ppm	-0.0001 ppm	0.0052 ppm	0.0101 ppm	10.0686 ppm	0.0018 ppm
Concentration per Run 1	0.0002 ppm	0.0021 ppm	0.0001 ppm	0.0053 ppm	0.0133 ppm	10.2125 ppm	0.0028 ppm
Concentration per Run 2	0.0001 ppm	0.0022 ppm	-0.0004 ppm	0.0055 ppm	0.0084 ppm	10.0173 ppm	0.0018 ppm
Concentration per Run 3	0.0002 ppm	0.0017 ppm	-0.0001 ppm	0.0048 ppm	0.0086 ppm	9.9762 ppm	0.0007 ppm
Concentration RSD	47.5 %	14.8 %	187.3 %	7.0 %	27.2 %	1.3 %	57.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.4513 ppm	0.2311 ppm	0.0004 ppm	322.6000 ppm	0.0023 ppm	0.0010 ppm	0.0208 ppm
Concentration per Run 1	16.7367 ppm	0.2328 ppm	0.0006 ppm	324.0841 ppm	0.0024 ppm	0.0022 ppm	0.0244 ppm
Concentration per Run 2	16.4734 ppm	0.2305 ppm	0.0006 ppm	323.3091 ppm	0.0019 ppm	0.0001 ppm	0.0170 ppm
Concentration per Run 3	16.1438 ppm	0.2301 ppm	0.0001 ppm	320.4066 ppm	0.0027 ppm	0.0008 ppm	0.0210 ppm
Concentration RSD	1.8 %	0.6 %	65.7 %	0.6 %	18.2 %	109.1 %	17.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	4.7626 ppm	-0.0002 ppm	0.2758 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	4.8163 ppm	0.0002 ppm	0.2777 ppm	0.0003 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 2	-0.0023 ppm	4.7627 ppm	0.0000 ppm	0.2752 ppm	0.0000 ppm	0.0019 ppm	0.0004 ppm
Concentration per Run 3	-0.0005 ppm	4.7087 ppm	-0.0007 ppm	0.2745 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration RSD	120.5 %	1.1 %	243.8 %	0.6 %	95.1 %	238.2 %	61.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0743 ppm	83.1755 %	95.5089 %	82.4521 %	87.4597 %	99.3186 %	93.3053 %
Concentration per Run 1	0.0757 ppm	81.7574 %	95.2641 %	82.0449 %	86.6181 %	99.8981 %	93.7662 %
Concentration per Run 2	0.0738 ppm	83.2976 %	95.2784 %	82.1886 %	87.7585 %	98.9903 %	92.9584 %
Concentration per Run 3	0.0735 ppm	84.4714 %	95.9842 %	83.1228 %	88.0025 %	99.0675 %	93.1912 %
Concentration RSD	1.5 %	1.6 %	0.4 %	0.7 %	0.8 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934475-3 WG1934475
Analysis started at: 6/15/2024 3:55:54 AM
Rack 4
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0534 ppm	1.8882 ppm	0.1335 ppm	1.0842 ppm	2.1567 ppm	0.0516 ppm	77.1599 ppm
Concentration per Run 1	0.0534 ppm	1.8829 ppm	0.1350 ppm	1.1005 ppm	2.1688 ppm	0.0520 ppm	77.5345 ppm
Concentration per Run 2	0.0535 ppm	1.8962 ppm	0.1355 ppm	1.0804 ppm	2.1570 ppm	0.0515 ppm	77.1097 ppm
Concentration per Run 3	0.0532 ppm	1.8854 ppm	0.1300 ppm	1.0719 ppm	2.1443 ppm	0.0514 ppm	76.8354 ppm
Concentration RSD	0.2 %	0.4 %	2.3 %	1.4 %	0.6 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0555 ppm	0.5124 ppm	0.2043 ppm	0.2662 ppm	1.0182 ppm	20.0056 ppm	0.0019 ppm
Concentration per Run 1	0.0561 ppm	0.5213 ppm	0.2069 ppm	0.2711 ppm	1.0244 ppm	20.1545 ppm	0.0017 ppm
Concentration per Run 2	0.0553 ppm	0.5119 ppm	0.2043 ppm	0.2661 ppm	1.0195 ppm	19.9871 ppm	0.0025 ppm
Concentration per Run 3	0.0553 ppm	0.5038 ppm	0.2016 ppm	0.2614 ppm	1.0107 ppm	19.8753 ppm	0.0014 ppm
Concentration RSD	0.8 %	1.7 %	1.3 %	1.8 %	0.7 %	0.7 %	27.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.9439 ppm	0.7277 ppm	0.9259 ppm	321.5367 ppm	0.5168 ppm	0.5348 ppm	0.5060 ppm
Concentration per Run 1	26.3158 ppm	0.7334 ppm	0.9245 ppm	323.7037 ppm	0.5246 ppm	0.5432 ppm	0.5075 ppm
Concentration per Run 2	25.9630 ppm	0.7269 ppm	0.9239 ppm	321.3853 ppm	0.5145 ppm	0.5328 ppm	0.5122 ppm
Concentration per Run 3	25.5531 ppm	0.7229 ppm	0.9294 ppm	319.5212 ppm	0.5115 ppm	0.5284 ppm	0.4983 ppm
Concentration RSD	1.5 %	0.7 %	0.3 %	0.7 %	1.3 %	1.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1306 ppm	5.8022 ppm	0.8995 ppm	1.2453 ppm	1.0506 ppm	0.1184 ppm	0.5326 ppm
Concentration per Run 1	0.1332 ppm	5.8770 ppm	0.8998 ppm	1.2472 ppm	1.0629 ppm	0.1185 ppm	0.5380 ppm
Concentration per Run 2	0.1280 ppm	5.7971 ppm	0.8926 ppm	1.2453 ppm	1.0505 ppm	0.1203 ppm	0.5323 ppm
Concentration per Run 3	0.1304 ppm	5.7325 ppm	0.9062 ppm	1.2432 ppm	1.0385 ppm	0.1165 ppm	0.5276 ppm
Concentration RSD	2.0 %	1.2 %	0.8 %	0.2 %	1.2 %	1.6 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6058 ppm	84.7589 %	96.6217 %	82.2866 %	87.6269 %	98.5719 %	92.3955 %
Concentration per Run 1	0.6151 ppm	83.6548 %	96.0429 %	81.5169 %	87.1372 %	98.6209 %	92.8349 %
Concentration per Run 2	0.6043 ppm	84.4631 %	96.2064 %	82.2042 %	87.5061 %	97.8605 %	92.1042 %
Concentration per Run 3	0.5980 ppm	86.1588 %	97.6159 %	83.1388 %	88.2372 %	99.2343 %	92.2473 %
Concentration RSD	1.4 %	1.5 %	0.9 %	1.0 %	0.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934475-4 WG1934475
Analysis started at: 6/15/2024 3:59:58 AM
Rack 4
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0078 ppm	0.0005 ppm	0.0715 ppm	0.1076 ppm	0.0000 ppm	68.0697 ppm
Concentration per Run 1	0.0000 ppm	0.0117 ppm	0.0016 ppm	0.0735 ppm	0.1085 ppm	0.0000 ppm	68.3567 ppm
Concentration per Run 2	-0.0006 ppm	0.0088 ppm	0.0002 ppm	0.0716 ppm	0.1082 ppm	0.0001 ppm	67.8048 ppm
Concentration per Run 3	-0.0002 ppm	0.0029 ppm	-0.0002 ppm	0.0694 ppm	0.1062 ppm	0.0001 ppm	68.0475 ppm
Concentration RSD	115.7 %	57.4 %	174.1 %	2.9 %	1.1 %	54.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0021 ppm	-0.0005 ppm	0.0047 ppm	0.0078 ppm	9.9388 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	-0.0004 ppm	0.0053 ppm	0.0081 ppm	9.9889 ppm	0.0017 ppm
Concentration per Run 2	0.0002 ppm	0.0023 ppm	-0.0005 ppm	0.0046 ppm	0.0088 ppm	9.9356 ppm	0.0014 ppm
Concentration per Run 3	0.0002 ppm	0.0018 ppm	-0.0004 ppm	0.0043 ppm	0.0066 ppm	9.8920 ppm	0.0016 ppm
Concentration RSD	23.1 %	12.2 %	9.5 %	10.1 %	14.3 %	0.5 %	7.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1486 ppm	0.2337 ppm	0.0045 ppm	314.0110 ppm	0.0022 ppm	0.0002 ppm	0.0208 ppm
Concentration per Run 1	16.5114 ppm	0.2354 ppm	0.0047 ppm	315.6350 ppm	0.0023 ppm	-0.0001 ppm	0.0201 ppm
Concentration per Run 2	16.1613 ppm	0.2334 ppm	0.0044 ppm	313.6418 ppm	0.0019 ppm	0.0005 ppm	0.0225 ppm
Concentration per Run 3	15.7731 ppm	0.2322 ppm	0.0045 ppm	312.7563 ppm	0.0023 ppm	0.0002 ppm	0.0199 ppm
Concentration RSD	2.3 %	0.7 %	4.1 %	0.5 %	10.2 %	149.7 %	7.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	4.6623 ppm	0.0025 ppm	0.2690 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	-0.0011 ppm	4.7512 ppm	0.0028 ppm	0.2699 ppm	0.0002 ppm	0.0026 ppm	0.0004 ppm
Concentration per Run 2	-0.0005 ppm	4.6733 ppm	0.0021 ppm	0.2699 ppm	0.0007 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	-0.0010 ppm	4.5623 ppm	0.0025 ppm	0.2673 ppm	0.0004 ppm	0.0012 ppm	0.0000 ppm
Concentration RSD	32.8 %	2.0 %	14.7 %	0.6 %	60.6 %	143.9 %	105.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0724 ppm	83.6243 %	95.0658 %	82.6470 %	87.5239 %	98.6358 %	92.9134 %
Concentration per Run 1	0.0745 ppm	81.4854 %	94.3425 %	81.8859 %	86.0531 %	98.5453 %	93.1812 %
Concentration per Run 2	0.0725 ppm	83.7318 %	94.4700 %	82.6105 %	87.8096 %	97.6835 %	92.5679 %
Concentration per Run 3	0.0702 ppm	85.6559 %	96.3850 %	83.4446 %	88.7090 %	99.6787 %	92.9912 %
Concentration RSD	3.0 %	2.5 %	1.2 %	0.9 %	1.5 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934475-5 WG1934475
Analysis started at: 6/15/2024 4:04:03 AM
Rack 4
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0558 ppm	2.0110 ppm	0.1480 ppm	1.2392 ppm	2.3153 ppm	0.0554 ppm	77.0701 ppm
Concentration per Run 1	0.0568 ppm	2.0243 ppm	0.1469 ppm	1.2545 ppm	2.3374 ppm	0.0562 ppm	77.7637 ppm
Concentration per Run 2	0.0558 ppm	2.0004 ppm	0.1499 ppm	1.2424 ppm	2.3191 ppm	0.0552 ppm	76.9223 ppm
Concentration per Run 3	0.0548 ppm	2.0083 ppm	0.1471 ppm	1.2207 ppm	2.2892 ppm	0.0548 ppm	76.5242 ppm
Concentration RSD	1.8 %	0.6 %	1.1 %	1.4 %	1.1 %	1.3 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0608 ppm	0.5606 ppm	0.2228 ppm	0.2906 ppm	1.0998 ppm	21.2508 ppm	0.0021 ppm
Concentration per Run 1	0.0621 ppm	0.5737 ppm	0.2275 ppm	0.2961 ppm	1.1092 ppm	21.4222 ppm	0.0013 ppm
Concentration per Run 2	0.0608 ppm	0.5604 ppm	0.2238 ppm	0.2905 ppm	1.1005 ppm	21.1109 ppm	0.0015 ppm
Concentration per Run 3	0.0595 ppm	0.5477 ppm	0.2172 ppm	0.2853 ppm	1.0898 ppm	21.2193 ppm	0.0035 ppm
Concentration RSD	2.1 %	2.3 %	2.4 %	1.9 %	0.9 %	0.7 %	57.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.3339 ppm	0.7630 ppm	1.0376 ppm	315.9288 ppm	0.5657 ppm	0.5953 ppm	0.4368 ppm
Concentration per Run 1	27.8669 ppm	0.7683 ppm	1.0390 ppm	318.2899 ppm	0.5794 ppm	0.6012 ppm	0.4345 ppm
Concentration per Run 2	27.3884 ppm	0.7617 ppm	1.0420 ppm	315.5300 ppm	0.5664 ppm	0.5940 ppm	0.4339 ppm
Concentration per Run 3	26.7464 ppm	0.7588 ppm	1.0318 ppm	313.9664 ppm	0.5515 ppm	0.5906 ppm	0.4420 ppm
Concentration RSD	2.1 %	0.6 %	0.5 %	0.7 %	2.5 %	0.9 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1463 ppm	6.0712 ppm	1.0570 ppm	1.3706 ppm	1.2048 ppm	0.1323 ppm	0.5845 ppm
Concentration per Run 1	0.1464 ppm	6.1674 ppm	1.0600 ppm	1.3853 ppm	1.2301 ppm	0.1332 ppm	0.5938 ppm
Concentration per Run 2	0.1468 ppm	6.0847 ppm	1.0628 ppm	1.3687 ppm	1.2043 ppm	0.1317 ppm	0.5855 ppm
Concentration per Run 3	0.1457 ppm	5.9616 ppm	1.0482 ppm	1.3579 ppm	1.1801 ppm	0.1319 ppm	0.5742 ppm
Concentration RSD	0.4 %	1.7 %	0.7 %	1.0 %	2.1 %	0.6 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6542 ppm	84.2718 %	96.7370 %	81.9737 %	87.3442 %	98.7811 %	92.2661 %
Concentration per Run 1	0.6685 ppm	83.0657 %	95.4152 %	81.1762 %	86.9621 %	97.8899 %	92.5990 %
Concentration per Run 2	0.6568 ppm	83.7900 %	97.1286 %	82.0397 %	87.0227 %	98.9188 %	91.9039 %
Concentration per Run 3	0.6371 ppm	85.9597 %	97.6673 %	82.7051 %	88.0477 %	99.5347 %	92.2952 %
Concentration RSD	2.4 %	1.8 %	1.2 %	0.9 %	0.7 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934475-6d5 WG1934475
Analysis started at: 6/15/2024 4:08:07 AM
Rack 4
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0006 ppm	0.0009 ppm	0.0137 ppm	0.0207 ppm	0.0000 ppm	13.3424 ppm
Concentration per Run 1	-0.0003 ppm	-0.0002 ppm	-0.0002 ppm	0.0134 ppm	0.0210 ppm	0.0000 ppm	13.3973 ppm
Concentration per Run 2	-0.0009 ppm	0.0005 ppm	0.0008 ppm	0.0146 ppm	0.0205 ppm	0.0000 ppm	13.2789 ppm
Concentration per Run 3	-0.0003 ppm	0.0015 ppm	0.0021 ppm	0.0131 ppm	0.0206 ppm	0.0000 ppm	13.3511 ppm
Concentration RSD	69.1 %	135.9 %	125.3 %	5.8 %	1.4 %	837.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0014 ppm	0.0031 ppm	1.9281 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0012 ppm	0.0018 ppm	1.9616 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0015 ppm	0.0031 ppm	1.9512 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0014 ppm	0.0043 ppm	1.8716 ppm	0.0001 ppm
Concentration RSD	540.2 %	74.1 %	92.1 %	11.7 %	40.1 %	2.6 %	154.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.0831 ppm	0.0444 ppm	0.0060 ppm	62.6382 ppm	0.0003 ppm	-0.0010 ppm	0.0093 ppm
Concentration per Run 1	3.1283 ppm	0.0446 ppm	0.0059 ppm	62.8874 ppm	0.0000 ppm	-0.0018 ppm	0.0093 ppm
Concentration per Run 2	3.0799 ppm	0.0446 ppm	0.0063 ppm	62.4977 ppm	-0.0002 ppm	-0.0007 ppm	0.0097 ppm
Concentration per Run 3	3.0410 ppm	0.0439 ppm	0.0057 ppm	62.5295 ppm	0.0010 ppm	-0.0003 ppm	0.0089 ppm
Concentration RSD	1.4 %	0.9 %	5.7 %	0.3 %	232.5 %	81.5 %	4.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	0.8400 ppm	0.0060 ppm	0.0520 ppm	0.0006 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0027 ppm	0.8534 ppm	0.0061 ppm	0.0521 ppm	0.0006 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.8381 ppm	0.0066 ppm	0.0520 ppm	0.0007 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 3	-0.0003 ppm	0.8285 ppm	0.0054 ppm	0.0519 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm
Concentration RSD	223.2 %	1.5 %	10.1 %	0.2 %	6.3 %	57.6 %	235.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0137 ppm	94.0829 %	101.2931 %	94.1097 %	92.4221 %	99.2915 %	96.3186 %
Concentration per Run 1	0.0140 ppm	92.6753 %	100.5185 %	93.7427 %	92.1018 %	99.0488 %	96.9442 %
Concentration per Run 2	0.0137 ppm	94.1250 %	101.9286 %	93.9332 %	92.4419 %	99.8178 %	96.0189 %
Concentration per Run 3	0.0134 ppm	95.4484 %	101.4322 %	94.6533 %	92.7225 %	99.0079 %	95.9927 %
Concentration RSD	2.1 %	1.5 %	0.7 %	0.5 %	0.3 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 4:12:11 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4975 ppm	0.4769 ppm	0.4628 ppm	0.4919 ppm	0.5054 ppm	0.5013 ppm	0.4894 ppm
Concentration per Run 1	0.5049 ppm	0.4769 ppm	0.4637 ppm	0.4990 ppm	0.5061 ppm	0.5015 ppm	0.4916 ppm
Concentration per Run 2	0.4966 ppm	0.4755 ppm	0.4662 ppm	0.4911 ppm	0.5030 ppm	0.5025 ppm	0.4888 ppm
Concentration per Run 3	0.4909 ppm	0.4781 ppm	0.4585 ppm	0.4857 ppm	0.5070 ppm	0.4998 ppm	0.4879 ppm
Recovery Percentage 1	99.499 %	95.372 %	92.557 %	98.385 %	101.074 %	100.252 %	97.889 %
Concentration RSD	1.4 %	0.3 %	0.8 %	1.4 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4886 ppm	0.5054 ppm	0.4852 ppm	0.4942 ppm	0.5073 ppm	4.9333 ppm	0.4727 ppm
Concentration per Run 1	0.4958 ppm	0.5151 ppm	0.4922 ppm	0.5045 ppm	0.5094 ppm	5.0106 ppm	0.4757 ppm
Concentration per Run 2	0.4880 ppm	0.5049 ppm	0.4844 ppm	0.4923 ppm	0.5079 ppm	4.9186 ppm	0.4712 ppm
Concentration per Run 3	0.4821 ppm	0.4961 ppm	0.4789 ppm	0.4857 ppm	0.5047 ppm	4.8708 ppm	0.4713 ppm
Recovery Percentage 1	97.727 %	101.074 %	97.034 %	98.841 %	101.465 %	98.667 %	94.545 %
Concentration RSD	1.4 %	1.9 %	1.4 %	1.9 %	0.5 %	1.4 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4947 ppm	0.4853 ppm	0.4850 ppm	9.8275 ppm	0.5037 ppm	0.4824 ppm	0.4883 ppm
Concentration per Run 1	0.5030 ppm	0.4861 ppm	0.4852 ppm	9.7980 ppm	0.5127 ppm	0.4851 ppm	0.4916 ppm
Concentration per Run 2	0.4947 ppm	0.4853 ppm	0.4841 ppm	9.8478 ppm	0.5041 ppm	0.4831 ppm	0.4891 ppm
Concentration per Run 3	0.4866 ppm	0.4846 ppm	0.4856 ppm	9.8367 ppm	0.4945 ppm	0.4789 ppm	0.4843 ppm
Recovery Percentage 1	98.949 %	97.069 %	96.990 %	98.275 %	100.750 %	96.476 %	97.668 %
Concentration RSD	1.7 %	0.2 %	0.2 %	0.3 %	1.8 %	0.7 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4710 ppm	5.1001 ppm	0.5084 ppm	0.5005 ppm	0.4979 ppm	0.4804 ppm	0.4917 ppm
Concentration per Run 1	0.4704 ppm	5.1814 ppm	0.5064 ppm	0.5021 ppm	0.5061 ppm	0.4800 ppm	0.4994 ppm
Concentration per Run 2	0.4758 ppm	5.0880 ppm	0.5113 ppm	0.5003 ppm	0.4964 ppm	0.4820 ppm	0.4912 ppm
Concentration per Run 3	0.4667 ppm	5.0308 ppm	0.5076 ppm	0.4991 ppm	0.4913 ppm	0.4791 ppm	0.4846 ppm
Recovery Percentage 1	94.195 %	97.145 %	101.685 %	100.099 %	99.587 %	96.079 %	98.347 %
Concentration RSD	1.0 %	1.5 %	0.5 %	0.3 %	1.5 %	0.3 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4936 ppm	98.3678 %	104.2088 %	99.9398 %	94.8043 %	100.6711 %	98.2215 %
Concentration per Run 1	0.5025 ppm	96.4370 %	104.3638 %	99.2125 %	94.3051 %	101.3754 %	98.3875 %
Concentration per Run 2	0.4930 ppm	98.5478 %	103.7037 %	99.7455 %	94.7468 %	100.0089 %	97.8980 %
Concentration per Run 3	0.4852 ppm	100.1186 %	104.5589 %	100.8615 %	95.3610 %	100.6288 %	98.3789 %
Recovery Percentage 1	98.717 %						
Concentration RSD	1.8 %	1.9 %	0.4 %	0.8 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 4:16:16 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0061 ppm	0.0015 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0097 ppm
Concentration per Run 1	-0.0002 ppm	-0.0029 ppm	0.0029 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 2	-0.0001 ppm	-0.0143 ppm	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 3	-0.0001 ppm	-0.0012 ppm	0.0016 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0092 ppm
Recovery Percentage 1	-1.984 %	-6.134 %	51.491 %	-0.472 %	2.162 %	-0.108 %	9.707 %
Concentration RSD	67.2 %	115.8 %	89.1 %	512.0 %	103.2 %	630.8 %	21.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0063 ppm	-0.0595 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0065 ppm	-0.0577 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0067 ppm	-0.0636 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0004 ppm	0.0056 ppm	-0.0571 ppm	0.0010 ppm
Recovery Percentage 1	-0.215 %	2.255 %	0.255 %	7.598 %	12.559 %	-2.379 %	9.717 %
Concentration RSD	286.2 %	72.2 %	622.7 %	62.2 %	9.4 %	6.0 %	100.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0000 ppm	0.0017 ppm	0.0234 ppm	0.0003 ppm	-0.0005 ppm	0.0026 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	0.0024 ppm	0.0265 ppm	0.0004 ppm	-0.0007 ppm	0.0040 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0015 ppm	0.0239 ppm	-0.0008 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 3	0.0018 ppm	-0.0002 ppm	0.0013 ppm	0.0199 ppm	0.0013 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	0.858 %	0.490 %	3.468 %	1.171 %	1.275 %	-4.897 %	5.185 %
Concentration RSD	119.8 %	508.9 %	32.1 %	14.2 %	321.4 %	108.0 %	94.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0084 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	-0.0084 ppm	0.0007 ppm	-0.0002 ppm	0.0004 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0014 ppm	-0.0082 ppm	0.0008 ppm	-0.0001 ppm	0.0004 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0086 ppm	0.0003 ppm	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-2.974 %	-1.684 %	1.191 %	-1.235 %	5.076 %	-4.687 %	-0.792 %
Concentration RSD	323.0 %	2.5 %	39.9 %	47.2 %	31.3 %	99.2 %	76.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	93.5375 %	98.1111 %	96.5106 %	96.6913 %	99.7262 %	99.4565 %
Concentration per Run 1	0.0008 ppm	92.0834 %	97.9515 %	95.7935 %	96.6952 %	100.4521 %	99.7699 %
Concentration per Run 2	0.0005 ppm	93.3042 %	98.0849 %	96.6466 %	96.2561 %	99.6028 %	99.4926 %
Concentration per Run 3	0.0008 ppm	95.2250 %	98.2970 %	97.0915 %	97.1227 %	99.1238 %	99.1069 %
Recovery Percentage 1	14.029 %						
Concentration RSD	27.8 %	1.7 %	0.2 %	0.7 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: xLLOQ As 005
Analysis started at: 6/15/2024 4:26:11 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0039 ppm	0.0097 ppm	0.0052 ppm	0.0035 ppm	0.0050 ppm	0.0047 ppm	0.0204 ppm
Concentration per Run 1	0.0037 ppm	0.0061 ppm	0.0058 ppm	0.0022 ppm	0.0049 ppm	0.0047 ppm	0.0215 ppm
Concentration per Run 2	0.0042 ppm	0.0223 ppm	0.0030 ppm	0.0036 ppm	0.0051 ppm	0.0047 ppm	0.0204 ppm
Concentration per Run 3	0.0037 ppm	0.0009 ppm	0.0067 ppm	0.0047 ppm	0.0051 ppm	0.0047 ppm	0.0193 ppm
Recovery Percentage 1	77.461 %	0.000 %	104.071 %	0.000 %	0.000 %	93.907 %	0.000 %
Concentration RSD	6.2 %	114.4 %	37.0 %	37.0 %	2.7 %	0.5 %	5.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0039 ppm	0.0042 ppm	0.0041 ppm	0.0037 ppm	0.0077 ppm	0.0014 ppm	0.0035 ppm
Concentration per Run 1	0.0037 ppm	0.0041 ppm	0.0040 ppm	0.0034 ppm	0.0093 ppm	-0.0077 ppm	0.0047 ppm
Concentration per Run 2	0.0039 ppm	0.0042 ppm	0.0038 ppm	0.0039 ppm	0.0057 ppm	0.0100 ppm	0.0039 ppm
Concentration per Run 3	0.0040 ppm	0.0042 ppm	0.0046 ppm	0.0039 ppm	0.0082 ppm	0.0018 ppm	0.0018 ppm
Recovery Percentage 1	78.027 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.0 %	1.8 %	10.4 %	7.3 %	23.7 %	645.8 %	42.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0101 ppm	0.0051 ppm	0.0049 ppm	0.1074 ppm	0.0036 ppm	0.0039 ppm	0.0063 ppm
Concentration per Run 1	0.0094 ppm	0.0052 ppm	0.0043 ppm	0.1090 ppm	0.0031 ppm	0.0045 ppm	0.0081 ppm
Concentration per Run 2	0.0107 ppm	0.0052 ppm	0.0049 ppm	0.1072 ppm	0.0039 ppm	0.0035 ppm	0.0055 ppm
Concentration per Run 3	0.0102 ppm	0.0049 ppm	0.0053 ppm	0.1062 ppm	0.0037 ppm	0.0038 ppm	0.0052 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	6.7 %	3.7 %	10.3 %	1.3 %	12.0 %	13.9 %	25.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0047 ppm	0.0390 ppm	0.0062 ppm	0.0047 ppm	0.0048 ppm	0.0040 ppm	0.0040 ppm
Concentration per Run 1	0.0049 ppm	0.0373 ppm	0.0071 ppm	0.0047 ppm	0.0045 ppm	0.0041 ppm	0.0037 ppm
Concentration per Run 2	0.0050 ppm	0.0418 ppm	0.0057 ppm	0.0048 ppm	0.0047 ppm	0.0040 ppm	0.0041 ppm
Concentration per Run 3	0.0041 ppm	0.0379 ppm	0.0056 ppm	0.0048 ppm	0.0051 ppm	0.0038 ppm	0.0042 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	11.5 %	6.2 %	13.7 %	0.6 %	5.5 %	3.6 %	7.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0046 ppm	123.1049 %	106.9373 %	110.9255 %	97.5514 %	99.7189 %	99.8179 %
Concentration per Run 1	0.0045 ppm	127.9128 %	107.0116 %	112.0748 %	97.5489 %	99.6772 %	99.6326 %
Concentration per Run 2	0.0044 ppm	121.9641 %	107.6464 %	110.9082 %	97.2183 %	100.1337 %	100.0527 %
Concentration per Run 3	0.0048 ppm	119.4379 %	106.1540 %	109.7935 %	97.8870 %	99.3457 %	99.7684 %
Recovery Percentage 1	91.036 %						
Concentration RSD	4.2 %	3.5 %	0.7 %	1.0 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934502-1 WG1934502
Analysis started at: 6/15/2024 4:30:37 AM
Rack 4
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0092 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0170 ppm
Concentration per Run 1	-0.0002 ppm	0.0053 ppm	0.0010 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0184 ppm
Concentration per Run 2	-0.0007 ppm	0.0108 ppm	0.0008 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0140 ppm
Concentration per Run 3	-0.0002 ppm	0.0114 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0185 ppm
Recovery Percentage 1	-5.058 %	9.157 %	29.931 %	-2.487 %	0.910 %	-1.007 %	16.974 %
Concentration RSD	81.6 %	36.6 %	11.6 %	6.9 %	29.9 %	88.3 %	15.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0013 ppm	0.0062 ppm	-0.0436 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0014 ppm	0.0058 ppm	-0.0330 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0015 ppm	0.0055 ppm	-0.0391 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0009 ppm	0.0073 ppm	-0.0588 ppm	0.0005 ppm
Recovery Percentage 1	-1.100 %	2.534 %	-2.154 %	12.597 %	12.487 %	-1.745 %	-1.797 %
Concentration RSD	111.8 %	43.9 %	43.9 %	24.5 %	15.5 %	30.9 %	376.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0002 ppm	0.0003 ppm	-0.0055 ppm	0.0000 ppm	-0.0010 ppm	0.0006 ppm
Concentration per Run 1	0.0023 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	-0.0011 ppm	-0.0002 ppm	-0.0029 ppm
Concentration per Run 2	-0.0003 ppm	0.0002 ppm	0.0006 ppm	-0.0078 ppm	0.0006 ppm	-0.0010 ppm	0.0034 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	-0.0002 ppm	-0.0086 ppm	0.0004 ppm	-0.0018 ppm	0.0014 ppm
Recovery Percentage 1	0.877 %	1.544 %	0.519 %	-0.275 %	-0.086 %	-9.684 %	1.273 %
Concentration RSD	145.5 %	92.8 %	159.2 %	85.3 %	4,291.1 %	83.9 %	498.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	-0.0079 ppm	0.0005 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0057 ppm	0.0011 ppm	-0.0002 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 2	-0.0029 ppm	-0.0095 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0020 ppm	-0.0084 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm	-0.0010 ppm	-0.0002 ppm
Recovery Percentage 1	-16.244 %	-1.573 %	0.969 %	-1.706 %	3.359 %	-0.356 %	-1.084 %
Concentration RSD	90.3 %	24.6 %	131.2 %	42.5 %	61.1 %	1,142.4 %	94.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	88.8980 %	94.7665 %	92.5940 %	96.7584 %	102.5542 %	101.0746 %
Concentration per Run 1	0.0010 ppm	87.4583 %	93.7571 %	91.7744 %	95.5564 %	102.0880 %	101.0840 %
Concentration per Run 2	0.0010 ppm	88.9290 %	95.5923 %	92.7869 %	96.9999 %	103.4472 %	101.3151 %
Concentration per Run 3	0.0008 ppm	90.3069 %	94.9501 %	93.2207 %	97.7189 %	102.1275 %	100.8247 %
Recovery Percentage 1	19.249 %						
Concentration RSD	13.1 %	1.6 %	1.0 %	0.8 %	1.1 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934502-2 WG1934502
Analysis started at: 6/15/2024 4:34:42 AM
Rack 4
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0514 ppm	1.8631 ppm	0.1212 ppm	1.0059 ppm	2.0293 ppm	0.0502 ppm	10.1234 ppm
Concentration per Run 1	0.0521 ppm	1.8743 ppm	0.1235 ppm	1.0210 ppm	2.0393 ppm	0.0504 ppm	10.1687 ppm
Concentration per Run 2	0.0517 ppm	1.8636 ppm	0.1187 ppm	1.0021 ppm	2.0275 ppm	0.0502 ppm	10.1234 ppm
Concentration per Run 3	0.0505 ppm	1.8513 ppm	0.1215 ppm	0.9947 ppm	2.0211 ppm	0.0501 ppm	10.0780 ppm
Concentration RSD	1.6 %	0.6 %	2.0 %	1.3 %	0.5 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0542 ppm	0.5077 ppm	0.2001 ppm	0.2589 ppm	1.0066 ppm	10.0707 ppm	-0.0001 ppm
Concentration per Run 1	0.0550 ppm	0.5168 ppm	0.2022 ppm	0.2629 ppm	1.0105 ppm	10.1719 ppm	0.0001 ppm
Concentration per Run 2	0.0542 ppm	0.5070 ppm	0.2005 ppm	0.2593 ppm	1.0060 ppm	10.0688 ppm	-0.0001 ppm
Concentration per Run 3	0.0534 ppm	0.4994 ppm	0.1975 ppm	0.2544 ppm	1.0034 ppm	9.9715 ppm	-0.0002 ppm
Concentration RSD	1.5 %	1.7 %	1.2 %	1.7 %	0.4 %	1.0 %	268.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3194 ppm	0.4966 ppm	0.9354 ppm	10.2030 ppm	0.5146 ppm	0.5359 ppm	0.4136 ppm
Concentration per Run 1	10.4482 ppm	0.4991 ppm	0.9250 ppm	10.1756 ppm	0.5207 ppm	0.5443 ppm	0.4126 ppm
Concentration per Run 2	10.3422 ppm	0.4965 ppm	0.9426 ppm	10.2322 ppm	0.5155 ppm	0.5351 ppm	0.4180 ppm
Concentration per Run 3	10.1678 ppm	0.4942 ppm	0.9384 ppm	10.2013 ppm	0.5076 ppm	0.5282 ppm	0.4102 ppm
Concentration RSD	1.4 %	0.5 %	1.0 %	0.3 %	1.3 %	1.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1220 ppm	1.0581 ppm	0.9116 ppm	0.9862 ppm	1.0352 ppm	0.1212 ppm	0.5123 ppm
Concentration per Run 1	0.1246 ppm	1.0737 ppm	0.9082 ppm	0.9881 ppm	1.0481 ppm	0.1243 ppm	0.5166 ppm
Concentration per Run 2	0.1209 ppm	1.0586 ppm	0.9141 ppm	0.9848 ppm	1.0359 ppm	0.1204 ppm	0.5137 ppm
Concentration per Run 3	0.1206 ppm	1.0421 ppm	0.9124 ppm	0.9856 ppm	1.0215 ppm	0.1189 ppm	0.5067 ppm
Concentration RSD	1.8 %	1.5 %	0.3 %	0.2 %	1.3 %	2.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5121 ppm	92.7386 %	99.8988 %	92.8596 %	95.7303 %	101.1581 %	98.5420 %
Concentration per Run 1	0.5177 ppm	91.8576 %	99.7389 %	91.9945 %	95.6460 %	101.5975 %	98.7420 %
Concentration per Run 2	0.5146 ppm	92.3293 %	99.3250 %	93.3258 %	95.5073 %	100.4866 %	98.8006 %
Concentration per Run 3	0.5041 ppm	94.0290 %	100.6325 %	93.2583 %	96.0375 %	101.3902 %	98.0833 %
Concentration RSD	1.4 %	1.2 %	0.7 %	0.8 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432272-01 WG1934502
Analysis started at: 6/15/2024 4:38:47 AM
Rack 4
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0046 ppm	0.0020 ppm	0.0088 ppm	0.0392 ppm	0.0001 ppm	12.7823 ppm
Concentration per Run 1	-0.0003 ppm	0.0040 ppm	0.0021 ppm	0.0098 ppm	0.0396 ppm	0.0001 ppm	12.8578 ppm
Concentration per Run 2	-0.0005 ppm	0.0036 ppm	0.0009 ppm	0.0081 ppm	0.0389 ppm	0.0001 ppm	12.7734 ppm
Concentration per Run 3	-0.0003 ppm	0.0062 ppm	0.0031 ppm	0.0086 ppm	0.0390 ppm	0.0001 ppm	12.7156 ppm
Concentration RSD	42.2 %	30.1 %	54.2 %	9.8 %	0.9 %	31.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0018 ppm	0.2702 ppm	1.8392 ppm	0.0036 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	-0.0003 ppm	0.0016 ppm	0.2732 ppm	1.8540 ppm	0.0034 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0003 ppm	0.0019 ppm	0.2700 ppm	1.8231 ppm	0.0044 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0018 ppm	0.2673 ppm	1.8406 ppm	0.0029 ppm
Concentration RSD	200.3 %	5.4 %	41.6 %	10.5 %	1.1 %	0.8 %	21.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.4737 ppm	0.0046 ppm	0.0042 ppm	25.3043 ppm	0.0015 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 1	3.5144 ppm	0.0044 ppm	0.0042 ppm	25.4643 ppm	0.0013 ppm	-0.0001 ppm	0.0053 ppm
Concentration per Run 2	3.4643 ppm	0.0047 ppm	0.0041 ppm	25.3170 ppm	0.0020 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	3.4424 ppm	0.0047 ppm	0.0042 ppm	25.1315 ppm	0.0011 ppm	0.0000 ppm	0.0023 ppm
Concentration RSD	1.1 %	3.4 %	1.5 %	0.7 %	32.3 %	1,479.9 %	128.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	9.2158 ppm	0.0021 ppm	0.0882 ppm	0.0005 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 1	-0.0014 ppm	9.2869 ppm	0.0022 ppm	0.0890 ppm	0.0003 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 2	-0.0004 ppm	9.1976 ppm	0.0014 ppm	0.0875 ppm	0.0006 ppm	-0.0014 ppm	-0.0003 ppm
Concentration per Run 3	-0.0003 ppm	9.1628 ppm	0.0029 ppm	0.0882 ppm	0.0006 ppm	-0.0007 ppm	-0.0002 ppm
Concentration RSD	88.3 %	0.7 %	34.9 %	0.8 %	36.9 %	147.0 %	43.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0020 ppm	90.7007 %	97.3441 %	92.5138 %	95.6057 %	101.7718 %	99.8947 %
Concentration per Run 1	0.0021 ppm	89.5144 %	96.8377 %	91.7230 %	94.9377 %	101.9287 %	99.9330 %
Concentration per Run 2	0.0020 ppm	90.9557 %	97.7439 %	92.6437 %	96.1113 %	102.1248 %	100.1227 %
Concentration per Run 3	0.0019 ppm	91.6319 %	97.4506 %	93.1746 %	95.7680 %	101.2620 %	99.6284 %
Concentration RSD	5.1 %	1.2 %	0.5 %	0.8 %	0.6 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934502-3 WG1934502
Analysis started at: 6/15/2024 4:42:51 AM
Rack 4
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0527 ppm	1.8774 ppm	0.1280 ppm	1.0716 ppm	2.1088 ppm	0.0520 ppm	23.0352 ppm
Concentration per Run 1	0.0526 ppm	1.8771 ppm	0.1292 ppm	1.0794 ppm	2.1266 ppm	0.0521 ppm	23.1100 ppm
Concentration per Run 2	0.0531 ppm	1.8800 ppm	0.1283 ppm	1.0769 ppm	2.1064 ppm	0.0522 ppm	23.0049 ppm
Concentration per Run 3	0.0525 ppm	1.8751 ppm	0.1264 ppm	1.0585 ppm	2.0935 ppm	0.0518 ppm	22.9905 ppm
Concentration RSD	0.6 %	0.1 %	1.1 %	1.1 %	0.8 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0558 ppm	0.5229 ppm	0.2056 ppm	0.2670 ppm	1.2921 ppm	12.2309 ppm	0.0020 ppm
Concentration per Run 1	0.0566 ppm	0.5294 ppm	0.2081 ppm	0.2711 ppm	1.2953 ppm	12.2715 ppm	0.0028 ppm
Concentration per Run 2	0.0560 ppm	0.5219 ppm	0.2060 ppm	0.2657 ppm	1.2903 ppm	12.2276 ppm	0.0022 ppm
Concentration per Run 3	0.0549 ppm	0.5174 ppm	0.2028 ppm	0.2642 ppm	1.2906 ppm	12.1937 ppm	0.0008 ppm
Concentration RSD	1.6 %	1.2 %	1.3 %	1.4 %	0.2 %	0.3 %	52.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.2052 ppm	0.5079 ppm	0.9384 ppm	35.4360 ppm	0.5278 ppm	0.5507 ppm	0.4140 ppm
Concentration per Run 1	14.4231 ppm	0.5101 ppm	0.9337 ppm	35.6935 ppm	0.5332 ppm	0.5569 ppm	0.4122 ppm
Concentration per Run 2	14.2005 ppm	0.5077 ppm	0.9395 ppm	35.4182 ppm	0.5298 ppm	0.5503 ppm	0.4162 ppm
Concentration per Run 3	13.9920 ppm	0.5058 ppm	0.9421 ppm	35.1962 ppm	0.5203 ppm	0.5450 ppm	0.4136 ppm
Concentration RSD	1.5 %	0.4 %	0.5 %	0.7 %	1.3 %	1.1 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1287 ppm	10.6631 ppm	0.9199 ppm	1.1029 ppm	1.0789 ppm	0.1234 ppm	0.5283 ppm
Concentration per Run 1	0.1292 ppm	10.7828 ppm	0.9216 ppm	1.1061 ppm	1.0926 ppm	0.1245 ppm	0.5322 ppm
Concentration per Run 2	0.1270 ppm	10.6443 ppm	0.9172 ppm	1.1058 ppm	1.0785 ppm	0.1231 ppm	0.5290 ppm
Concentration per Run 3	0.1299 ppm	10.5624 ppm	0.9209 ppm	1.0966 ppm	1.0657 ppm	0.1224 ppm	0.5237 ppm
Concentration RSD	1.2 %	1.0 %	0.3 %	0.5 %	1.2 %	0.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5331 ppm	90.1229 %	99.1666 %	90.4767 %	94.1441 %	101.1911 %	98.5315 %
Concentration per Run 1	0.5415 ppm	88.8606 %	98.7553 %	89.7926 %	93.3188 %	101.3087 %	99.0792 %
Concentration per Run 2	0.5326 ppm	90.4463 %	100.0356 %	90.1834 %	94.6391 %	101.9867 %	98.0747 %
Concentration per Run 3	0.5252 ppm	91.0617 %	98.7089 %	91.4540 %	94.4743 %	100.2780 %	98.4407 %
Concentration RSD	1.5 %	1.3 %	0.8 %	1.0 %	0.8 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934502-4 WG1934502
Analysis started at: 6/15/2024 4:46:57 AM
Rack 4
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0015 ppm	0.0023 ppm	0.0087 ppm	0.0384 ppm	0.0001 ppm	12.4577 ppm
Concentration per Run 1	-0.0007 ppm	-0.0012 ppm	0.0029 ppm	0.0094 ppm	0.0389 ppm	0.0001 ppm	12.5438 ppm
Concentration per Run 2	-0.0008 ppm	0.0032 ppm	0.0019 ppm	0.0092 ppm	0.0382 ppm	0.0001 ppm	12.4771 ppm
Concentration per Run 3	-0.0004 ppm	0.0026 ppm	0.0020 ppm	0.0074 ppm	0.0383 ppm	0.0001 ppm	12.3522 ppm
Concentration RSD	35.2 %	155.9 %	23.9 %	12.9 %	0.9 %	27.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0010 ppm	-0.0003 ppm	0.0018 ppm	0.2611 ppm	1.8096 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	-0.0002 ppm	0.0016 ppm	0.2651 ppm	1.8267 ppm	0.0028 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	-0.0004 ppm	0.0017 ppm	0.2607 ppm	1.8226 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	-0.0002 ppm	0.0020 ppm	0.2575 ppm	1.7794 ppm	0.0005 ppm
Concentration RSD	135.3 %	34.9 %	38.2 %	11.1 %	1.5 %	1.4 %	67.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.4281 ppm	0.0074 ppm	0.0046 ppm	24.7576 ppm	0.0013 ppm	-0.0004 ppm	0.0043 ppm
Concentration per Run 1	3.4952 ppm	0.0075 ppm	0.0049 ppm	24.9495 ppm	0.0014 ppm	0.0003 ppm	0.0046 ppm
Concentration per Run 2	3.4354 ppm	0.0072 ppm	0.0044 ppm	24.7987 ppm	0.0009 ppm	-0.0013 ppm	0.0037 ppm
Concentration per Run 3	3.3536 ppm	0.0074 ppm	0.0046 ppm	24.5246 ppm	0.0016 ppm	-0.0004 ppm	0.0047 ppm
Concentration RSD	2.1 %	1.8 %	5.6 %	0.9 %	26.8 %	181.4 %	12.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	9.0743 ppm	0.0032 ppm	0.0864 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0033 ppm	9.2071 ppm	0.0041 ppm	0.0870 ppm	0.0010 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	-0.0014 ppm	9.0920 ppm	0.0034 ppm	0.0865 ppm	0.0005 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 3	-0.0023 ppm	8.9237 ppm	0.0022 ppm	0.0857 ppm	0.0006 ppm	0.0016 ppm	0.0002 ppm
Concentration RSD	39.2 %	1.6 %	30.3 %	0.8 %	35.9 %	2,172.5 %	323.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	90.0639 %	97.1487 %	91.7660 %	95.4753 %	101.9090 %	99.6308 %
Concentration per Run 1	0.0018 ppm	88.2263 %	97.1200 %	91.2161 %	94.0510 %	102.8287 %	99.9215 %
Concentration per Run 2	0.0011 ppm	89.8507 %	97.0624 %	91.9862 %	95.7411 %	101.7646 %	99.8749 %
Concentration per Run 3	0.0015 ppm	92.1146 %	97.2637 %	92.0956 %	96.6339 %	101.1337 %	99.0960 %
Concentration RSD	24.5 %	2.2 %	0.1 %	0.5 %	1.4 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934502-5 WG1934502
Analysis started at: 6/15/2024 4:51:02 AM
Rack 4
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0540 ppm	1.9808 ppm	0.1356 ppm	1.1709 ppm	2.2285 ppm	0.0546 ppm	23.5738 ppm
Concentration per Run 1	0.0546 ppm	1.9867 ppm	0.1368 ppm	1.1846 ppm	2.2382 ppm	0.0549 ppm	23.6944 ppm
Concentration per Run 2	0.0543 ppm	1.9768 ppm	0.1343 ppm	1.1730 ppm	2.2401 ppm	0.0548 ppm	23.5799 ppm
Concentration per Run 3	0.0531 ppm	1.9788 ppm	0.1359 ppm	1.1551 ppm	2.2070 ppm	0.0540 ppm	23.4471 ppm
Concentration RSD	1.5 %	0.3 %	0.9 %	1.3 %	0.8 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0600 ppm	0.5597 ppm	0.2201 ppm	0.2847 ppm	1.3404 ppm	12.8698 ppm	0.0015 ppm
Concentration per Run 1	0.0609 ppm	0.5697 ppm	0.2250 ppm	0.2893 ppm	1.3435 ppm	12.8620 ppm	0.0007 ppm
Concentration per Run 2	0.0603 ppm	0.5578 ppm	0.2200 ppm	0.2856 ppm	1.3493 ppm	12.9923 ppm	0.0022 ppm
Concentration per Run 3	0.0589 ppm	0.5515 ppm	0.2154 ppm	0.2792 ppm	1.3285 ppm	12.7551 ppm	0.0017 ppm
Concentration RSD	1.7 %	1.6 %	2.2 %	1.8 %	0.8 %	0.9 %	52.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1911 ppm	0.5333 ppm	1.0022 ppm	35.6953 ppm	0.5630 ppm	0.5840 ppm	0.3944 ppm
Concentration per Run 1	15.4974 ppm	0.5366 ppm	0.9959 ppm	35.8878 ppm	0.5737 ppm	0.5928 ppm	0.3847 ppm
Concentration per Run 2	15.2289 ppm	0.5340 ppm	1.0043 ppm	35.5814 ppm	0.5636 ppm	0.5842 ppm	0.3997 ppm
Concentration per Run 3	14.8471 ppm	0.5294 ppm	1.0064 ppm	35.6168 ppm	0.5518 ppm	0.5751 ppm	0.3988 ppm
Concentration RSD	2.2 %	0.7 %	0.6 %	0.5 %	2.0 %	1.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1377 ppm	10.6118 ppm	1.0350 ppm	1.1941 ppm	1.1811 ppm	0.1322 ppm	0.5665 ppm
Concentration per Run 1	0.1410 ppm	10.6844 ppm	1.0375 ppm	1.2033 ppm	1.2024 ppm	0.1353 ppm	0.5753 ppm
Concentration per Run 2	0.1385 ppm	10.6575 ppm	1.0338 ppm	1.1948 ppm	1.1844 ppm	0.1314 ppm	0.5675 ppm
Concentration per Run 3	0.1334 ppm	10.4936 ppm	1.0337 ppm	1.1840 ppm	1.1567 ppm	0.1300 ppm	0.5566 ppm
Concentration RSD	2.8 %	1.0 %	0.2 %	0.8 %	1.9 %	2.1 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5718 ppm	90.1816 %	98.5879 %	90.2426 %	93.9131 %	100.6920 %	98.2043 %
Concentration per Run 1	0.5838 ppm	89.0481 %	99.0692 %	89.2899 %	93.3563 %	101.6781 %	98.2762 %
Concentration per Run 2	0.5718 ppm	90.3859 %	98.2512 %	90.2902 %	94.6500 %	100.3202 %	98.1872 %
Concentration per Run 3	0.5598 ppm	91.1106 %	98.4434 %	91.1478 %	93.7328 %	100.0776 %	98.1494 %
Concentration RSD	2.1 %	1.2 %	0.4 %	1.0 %	0.7 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: WG1934502-6d5 WG1934502
Analysis started at: 6/15/2024 4:55:07 AM
Rack 4
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0045 ppm	0.0021 ppm	0.0027 ppm	0.0074 ppm	0.0000 ppm	2.3645 ppm
Concentration per Run 1	-0.0004 ppm	0.0041 ppm	0.0036 ppm	0.0035 ppm	0.0074 ppm	0.0000 ppm	2.3779 ppm
Concentration per Run 2	-0.0007 ppm	0.0069 ppm	0.0009 ppm	0.0025 ppm	0.0074 ppm	0.0000 ppm	2.3600 ppm
Concentration per Run 3	-0.0001 ppm	0.0025 ppm	0.0019 ppm	0.0020 ppm	0.0073 ppm	0.0000 ppm	2.3557 ppm
Concentration RSD	73.9 %	49.5 %	64.8 %	29.1 %	1.3 %	855.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0006 ppm	0.0528 ppm	0.3136 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0538 ppm	0.3356 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0007 ppm	0.0527 ppm	0.3060 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0518 ppm	0.2992 ppm	-0.0020 ppm
Concentration RSD	380.7 %	52.8 %	1,800.6 %	18.8 %	1.9 %	6.2 %	1,129.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.6261 ppm	0.0010 ppm	0.0058 ppm	4.7665 ppm	0.0004 ppm	-0.0001 ppm	0.0067 ppm
Concentration per Run 1	0.6335 ppm	0.0007 ppm	0.0057 ppm	4.7822 ppm	0.0002 ppm	0.0002 ppm	0.0060 ppm
Concentration per Run 2	0.6235 ppm	0.0013 ppm	0.0060 ppm	4.7760 ppm	0.0006 ppm	0.0001 ppm	0.0071 ppm
Concentration per Run 3	0.6214 ppm	0.0009 ppm	0.0056 ppm	4.7413 ppm	0.0004 ppm	-0.0004 ppm	0.0071 ppm
Concentration RSD	1.0 %	33.7 %	3.3 %	0.5 %	38.4 %	529.9 %	10.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	1.5955 ppm	0.0065 ppm	0.0161 ppm	0.0006 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	1.6102 ppm	0.0064 ppm	0.0163 ppm	0.0005 ppm	-0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	1.5960 ppm	0.0070 ppm	0.0161 ppm	0.0007 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0021 ppm	1.5803 ppm	0.0060 ppm	0.0158 ppm	0.0005 ppm	-0.0026 ppm	0.0002 ppm
Concentration RSD	174.9 %	0.9 %	7.5 %	1.3 %	23.7 %	85.2 %	6,689.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	97.7630 %	101.7883 %	99.0072 %	96.4174 %	100.3799 %	99.7377 %
Concentration per Run 1	0.0006 ppm	96.2589 %	101.1898 %	98.4348 %	96.2256 %	100.5528 %	100.1507 %
Concentration per Run 2	0.0002 ppm	98.1923 %	101.4336 %	99.3630 %	96.8222 %	99.8364 %	100.1681 %
Concentration per Run 3	0.0005 ppm	98.8379 %	102.7417 %	99.2238 %	96.2043 %	100.7504 %	98.8943 %
Concentration RSD	47.4 %	1.4 %	0.8 %	0.5 %	0.4 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ As 100x CCV
Analysis started at: 6/15/2024 4:59:12 AM
Rack 4
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0050 ppm	0.0098 ppm	0.0063 ppm	0.0056 ppm	0.0054 ppm	0.0051 ppm	0.0127 ppm
Concentration per Run 1	0.0052 ppm	0.0074 ppm	0.0076 ppm	0.0053 ppm	0.0056 ppm	0.0051 ppm	0.0127 ppm
Concentration per Run 2	0.0048 ppm	0.0143 ppm	0.0056 ppm	0.0048 ppm	0.0055 ppm	0.0051 ppm	0.0149 ppm
Concentration per Run 3	0.0050 ppm	0.0077 ppm	0.0056 ppm	0.0065 ppm	0.0052 ppm	0.0051 ppm	0.0105 ppm
Recovery Percentage 1	99.948 %	0.000 %	125.754 %	0.000 %	0.000 %	101.460 %	0.000 %
Concentration RSD	3.2 %	39.7 %	18.5 %	15.8 %	4.3 %	0.5 %	17.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0050 ppm	0.0056 ppm	0.0049 ppm	0.0056 ppm	0.0081 ppm	0.0101 ppm	0.0049 ppm
Concentration per Run 1	0.0051 ppm	0.0057 ppm	0.0048 ppm	0.0056 ppm	0.0085 ppm	0.0153 ppm	0.0054 ppm
Concentration per Run 2	0.0049 ppm	0.0053 ppm	0.0049 ppm	0.0054 ppm	0.0077 ppm	0.0378 ppm	0.0036 ppm
Concentration per Run 3	0.0050 ppm	0.0057 ppm	0.0052 ppm	0.0057 ppm	0.0081 ppm	-0.0229 ppm	0.0057 ppm
Recovery Percentage 1	100.106 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.5 %	3.6 %	3.7 %	2.2 %	4.8 %	304.8 %	23.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0067 ppm	0.0053 ppm	0.0063 ppm	0.0976 ppm	0.0051 ppm	0.0052 ppm	0.0067 ppm
Concentration per Run 1	0.0068 ppm	0.0052 ppm	0.0063 ppm	0.0929 ppm	0.0048 ppm	0.0059 ppm	0.0072 ppm
Concentration per Run 2	0.0070 ppm	0.0053 ppm	0.0063 ppm	0.1051 ppm	0.0058 ppm	0.0043 ppm	0.0064 ppm
Concentration per Run 3	0.0064 ppm	0.0053 ppm	0.0065 ppm	0.0948 ppm	0.0046 ppm	0.0053 ppm	0.0064 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.9 %	1.5 %	2.1 %	6.7 %	12.9 %	15.2 %	6.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	0.0452 ppm	0.0069 ppm	0.0051 ppm	0.0057 ppm	0.0043 ppm	0.0049 ppm
Concentration per Run 1	0.0041 ppm	0.0462 ppm	0.0066 ppm	0.0051 ppm	0.0057 ppm	0.0043 ppm	0.0052 ppm
Concentration per Run 2	0.0048 ppm	0.0443 ppm	0.0069 ppm	0.0052 ppm	0.0055 ppm	0.0044 ppm	0.0049 ppm
Concentration per Run 3	0.0046 ppm	0.0451 ppm	0.0073 ppm	0.0050 ppm	0.0057 ppm	0.0042 ppm	0.0047 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	7.8 %	2.1 %	4.8 %	1.3 %	2.4 %	1.9 %	4.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0051 ppm	97.9928 %	100.8649 %	98.5078 %	96.9083 %	100.5257 %	99.3572 %
Concentration per Run 1	0.0053 ppm	96.8322 %	100.4457 %	98.2300 %	96.8276 %	100.6064 %	99.5401 %
Concentration per Run 2	0.0049 ppm	97.8555 %	100.7978 %	98.3082 %	96.8386 %	100.2548 %	99.4382 %
Concentration per Run 3	0.0050 ppm	99.2907 %	101.3511 %	98.9853 %	97.0588 %	100.7159 %	99.0933 %
Recovery Percentage 1	101.812 %						
Concentration RSD	4.2 %	1.3 %	0.5 %	0.4 %	0.1 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 5:03:16 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4944 ppm	0.4745 ppm	0.4624 ppm	0.4853 ppm	0.5035 ppm	0.5018 ppm	0.4886 ppm
Concentration per Run 1	0.4994 ppm	0.4731 ppm	0.4668 ppm	0.4918 ppm	0.5067 ppm	0.5033 ppm	0.4912 ppm
Concentration per Run 2	0.4950 ppm	0.4753 ppm	0.4624 ppm	0.4842 ppm	0.5025 ppm	0.5040 ppm	0.4841 ppm
Concentration per Run 3	0.4888 ppm	0.4750 ppm	0.4579 ppm	0.4799 ppm	0.5013 ppm	0.4980 ppm	0.4903 ppm
Recovery Percentage 1	98.878 %	94.895 %	92.479 %	97.063 %	100.699 %	100.356 %	97.711 %
Concentration RSD	1.1 %	0.3 %	1.0 %	1.2 %	0.6 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4825 ppm	0.4996 ppm	0.4802 ppm	0.4897 ppm	0.5042 ppm	4.9023 ppm	0.4763 ppm
Concentration per Run 1	0.4882 ppm	0.5051 ppm	0.4875 ppm	0.4965 ppm	0.5078 ppm	4.9656 ppm	0.4861 ppm
Concentration per Run 2	0.4820 ppm	0.4999 ppm	0.4793 ppm	0.4891 ppm	0.5006 ppm	4.8785 ppm	0.4721 ppm
Concentration per Run 3	0.4772 ppm	0.4939 ppm	0.4737 ppm	0.4835 ppm	0.5043 ppm	4.8627 ppm	0.4706 ppm
Recovery Percentage 1	96.496 %	99.928 %	96.037 %	97.942 %	100.846 %	98.045 %	95.251 %
Concentration RSD	1.1 %	1.1 %	1.4 %	1.3 %	0.7 %	1.1 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4900 ppm	0.4848 ppm	0.4775 ppm	9.7983 ppm	0.4984 ppm	0.4829 ppm	0.4813 ppm
Concentration per Run 1	0.4982 ppm	0.4868 ppm	0.4774 ppm	9.7951 ppm	0.5066 ppm	0.4858 ppm	0.4901 ppm
Concentration per Run 2	0.4890 ppm	0.4836 ppm	0.4766 ppm	9.8179 ppm	0.4988 ppm	0.4799 ppm	0.4782 ppm
Concentration per Run 3	0.4829 ppm	0.4840 ppm	0.4784 ppm	9.7818 ppm	0.4898 ppm	0.4829 ppm	0.4756 ppm
Recovery Percentage 1	98.006 %	96.960 %	95.495 %	97.983 %	99.683 %	96.574 %	96.260 %
Concentration RSD	1.6 %	0.4 %	0.2 %	0.2 %	1.7 %	0.6 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4719 ppm	5.0505 ppm	0.4991 ppm	0.4976 ppm	0.4939 ppm	0.4795 ppm	0.4863 ppm
Concentration per Run 1	0.4705 ppm	5.1109 ppm	0.5024 ppm	0.5004 ppm	0.5002 ppm	0.4809 ppm	0.4925 ppm
Concentration per Run 2	0.4728 ppm	5.0465 ppm	0.4957 ppm	0.5003 ppm	0.4944 ppm	0.4802 ppm	0.4861 ppm
Concentration per Run 3	0.4722 ppm	4.9942 ppm	0.4992 ppm	0.4922 ppm	0.4872 ppm	0.4774 ppm	0.4802 ppm
Recovery Percentage 1	94.371 %	96.201 %	99.818 %	99.524 %	98.785 %	95.896 %	97.256 %
Concentration RSD	0.3 %	1.2 %	0.7 %	1.0 %	1.3 %	0.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4880 ppm	99.7274 %	104.9151 %	100.7679 %	95.9567 %	101.6346 %	99.2874 %
Concentration per Run 1	0.4975 ppm	98.1182 %	104.3558 %	100.2665 %	95.4871 %	101.4229 %	99.5883 %
Concentration per Run 2	0.4876 ppm	99.6741 %	106.2967 %	101.0955 %	95.9965 %	102.8167 %	99.2843 %
Concentration per Run 3	0.4789 ppm	101.3899 %	104.0927 %	100.9415 %	96.3864 %	100.6642 %	98.9897 %
Recovery Percentage 1	97.599 %						
Concentration RSD	1.9 %	1.6 %	1.1 %	0.4 %	0.5 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 5:07:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0011 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 1	0.0000 ppm	-0.0053 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 2	-0.0004 ppm	-0.0006 ppm	0.0010 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 3	-0.0006 ppm	0.0026 ppm	0.0015 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	0.0041 ppm
Recovery Percentage 1	-4.948 %	-1.098 %	28.313 %	2.428 %	0.444 %	0.072 %	7.293 %
Concentration RSD	83.4 %	362.7 %	92.3 %	9.0 %	542.3 %	1,789.3 %	40.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0009 ppm	0.0062 ppm	-0.0455 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	-0.0003 ppm	0.0009 ppm	0.0046 ppm	-0.0245 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0008 ppm	0.0070 ppm	-0.0677 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0009 ppm	0.0070 ppm	-0.0442 ppm	-0.0005 ppm
Recovery Percentage 1	-0.115 %	3.326 %	-1.052 %	8.989 %	12.454 %	-1.819 %	2.150 %
Concentration RSD	106.4 %	35.6 %	160.7 %	6.0 %	22.2 %	47.5 %	273.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0011 ppm	0.0001 ppm	0.0018 ppm	-0.0129 ppm	-0.0004 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 1	0.0012 ppm	0.0000 ppm	0.0017 ppm	-0.0103 ppm	0.0000 ppm	-0.0006 ppm	0.0012 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0021 ppm	-0.0130 ppm	-0.0002 ppm	0.0007 ppm	0.0038 ppm
Concentration per Run 3	0.0018 ppm	0.0001 ppm	0.0015 ppm	-0.0153 ppm	-0.0010 ppm	0.0001 ppm	0.0026 ppm
Recovery Percentage 1	1.059 %	0.833 %	3.572 %	-0.643 %	-1.593 %	0.542 %	5.083 %
Concentration RSD	80.4 %	61.4 %	18.1 %	19.3 %	123.0 %	1,229.7 %	51.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0080 ppm	0.0012 ppm	-0.0001 ppm	0.0004 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	-0.0072 ppm	0.0012 ppm	-0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0007 ppm	-0.0089 ppm	0.0014 ppm	-0.0001 ppm	0.0003 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	-0.0081 ppm	0.0011 ppm	-0.0001 ppm	0.0006 ppm	-0.0017 ppm	-0.0002 ppm
Recovery Percentage 1	-2.947 %	-1.610 %	2.482 %	-1.155 %	4.142 %	-4.733 %	-1.349 %
Concentration RSD	109.1 %	10.6 %	14.5 %	37.4 %	34.0 %	66.5 %	130.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	94.5751 %	99.4213 %	97.5062 %	96.9496 %	100.7284 %	100.2195 %
Concentration per Run 1	0.0009 ppm	93.3094 %	99.0390 %	96.5654 %	96.4455 %	100.6565 %	100.4233 %
Concentration per Run 2	0.0011 ppm	94.2627 %	99.6279 %	97.5204 %	96.7257 %	100.8731 %	100.1080 %
Concentration per Run 3	0.0007 ppm	96.1532 %	99.5971 %	98.4329 %	97.6775 %	100.6554 %	100.1272 %
Recovery Percentage 1	17.564 %						
Concentration RSD	21.7 %	1.5 %	0.3 %	1.0 %	0.7 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432412-01 WG1934502
Analysis started at: 6/15/2024 5:13:47 AM
Rack 4
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0048 ppm	3.5481 ppm	0.0108 ppm	0.3931 ppm	0.0865 ppm	0.0000 ppm	61.6636 ppm
Concentration per Run 1	0.0048 ppm	3.5735 ppm	0.0096 ppm	0.3982 ppm	0.0878 ppm	0.0000 ppm	62.5711 ppm
Concentration per Run 2	0.0050 ppm	3.5268 ppm	0.0118 ppm	0.3903 ppm	0.0859 ppm	0.0000 ppm	61.1613 ppm
Concentration per Run 3	0.0046 ppm	3.5441 ppm	0.0110 ppm	0.3909 ppm	0.0857 ppm	0.0001 ppm	61.2584 ppm
Concentration RSD	3.8 %	0.7 %	10.2 %	1.1 %	1.3 %	81.1 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0058 ppm	0.0580 ppm	1.0425 ppm	6.1232 ppm	15.8160 ppm	0.0528 ppm
Concentration per Run 1	0.0018 ppm	0.0060 ppm	0.0579 ppm	1.0535 ppm	6.2145 ppm	16.0738 ppm	0.0552 ppm
Concentration per Run 2	0.0016 ppm	0.0057 ppm	0.0584 ppm	1.0382 ppm	6.0780 ppm	15.7036 ppm	0.0509 ppm
Concentration per Run 3	0.0017 ppm	0.0057 ppm	0.0578 ppm	1.0358 ppm	6.0772 ppm	15.6706 ppm	0.0524 ppm
Concentration RSD	5.1 %	3.4 %	0.5 %	0.9 %	1.3 %	1.4 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4093 ppm	0.1382 ppm	0.0113 ppm	864.5110 ppm	0.0667 ppm	0.0696 ppm	0.0323 ppm
Concentration per Run 1	10.5074 ppm	0.1403 ppm	0.0114 ppm	876.9256 ppm	0.0675 ppm	0.0699 ppm	0.0290 ppm
Concentration per Run 2	10.4080 ppm	0.1376 ppm	0.0109 ppm	856.6269 ppm	0.0672 ppm	0.0700 ppm	0.0327 ppm
Concentration per Run 3	10.3124 ppm	0.1367 ppm	0.0117 ppm	859.9805 ppm	0.0655 ppm	0.0689 ppm	0.0352 ppm
Concentration RSD	0.9 %	1.3 %	3.7 %	1.3 %	1.6 %	0.9 %	9.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	16.2996 ppm	0.0884 ppm	0.3447 ppm	0.0964 ppm	-0.0009 ppm	0.0140 ppm
Concentration per Run 1	0.0017 ppm	16.3793 ppm	0.0878 ppm	0.3489 ppm	0.0964 ppm	-0.0004 ppm	0.0140 ppm
Concentration per Run 2	0.0038 ppm	16.3406 ppm	0.0882 ppm	0.3417 ppm	0.0966 ppm	-0.0012 ppm	0.0143 ppm
Concentration per Run 3	0.0015 ppm	16.1788 ppm	0.0892 ppm	0.3435 ppm	0.0963 ppm	-0.0012 ppm	0.0136 ppm
Concentration RSD	55.1 %	0.7 %	0.8 %	1.1 %	0.2 %	46.0 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.1992 ppm	84.2592 %	97.3803 %	80.1436 %	83.7325 %	98.1988 %	89.0471 %
Concentration per Run 1	3.2207 ppm	83.4530 %	96.1305 %	79.7543 %	83.4024 %	97.7588 %	88.9439 %
Concentration per Run 2	3.1974 ppm	84.5457 %	97.5051 %	80.0197 %	83.9255 %	98.1523 %	89.0679 %
Concentration per Run 3	3.1796 ppm	84.7790 %	98.5053 %	80.6569 %	83.8696 %	98.6854 %	89.1295 %
Concentration RSD	0.6 %	0.8 %	1.2 %	0.6 %	0.3 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ
Analysis started at: 6/15/2024 5:17:58 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0074 ppm	0.1004 ppm	0.0050 ppm	0.0312 ppm	0.0161 ppm	0.0052 ppm	0.1363 ppm
Concentration per Run 1	0.0072 ppm	0.1023 ppm	0.0062 ppm	0.0321 ppm	0.0168 ppm	0.0053 ppm	0.1412 ppm
Concentration per Run 2	0.0074 ppm	0.1012 ppm	0.0039 ppm	0.0307 ppm	0.0158 ppm	0.0051 ppm	0.1338 ppm
Concentration per Run 3	0.0075 ppm	0.0977 ppm	0.0050 ppm	0.0306 ppm	0.0157 ppm	0.0051 ppm	0.1339 ppm
Recovery Percentage 1	105.584 %	100.405 %	100.730 %	103.834 %	160.966 %	103.068 %	136.282 %
Concentration RSD	2.3 %	2.4 %	23.5 %	2.7 %	4.0 %	2.1 %	3.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0226 ppm	0.0108 ppm	0.0124 ppm	0.0663 ppm	2.6772 ppm	0.0095 ppm
Concentration per Run 1	0.0042 ppm	0.0227 ppm	0.0109 ppm	0.0126 ppm	0.0684 ppm	2.7311 ppm	0.0095 ppm
Concentration per Run 2	0.0041 ppm	0.0230 ppm	0.0109 ppm	0.0125 ppm	0.0659 ppm	2.6235 ppm	0.0096 ppm
Concentration per Run 3	0.0042 ppm	0.0220 ppm	0.0105 ppm	0.0122 ppm	0.0646 ppm	2.6769 ppm	0.0095 ppm
Recovery Percentage 1	83.453 %	112.904 %	107.761 %	124.440 %	132.651 %	107.086 %	95.297 %
Concentration RSD	0.8 %	2.2 %	2.3 %	1.7 %	3.0 %	2.0 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1141 ppm	0.0108 ppm	0.0509 ppm	2.2681 ppm	0.0269 ppm	0.0102 ppm	0.0400 ppm
Concentration per Run 1	0.1155 ppm	0.0109 ppm	0.0503 ppm	2.3215 ppm	0.0271 ppm	0.0100 ppm	0.0391 ppm
Concentration per Run 2	0.1145 ppm	0.0106 ppm	0.0510 ppm	2.2391 ppm	0.0273 ppm	0.0102 ppm	0.0402 ppm
Concentration per Run 3	0.1124 ppm	0.0107 ppm	0.0515 ppm	2.2435 ppm	0.0264 ppm	0.0105 ppm	0.0409 ppm
Recovery Percentage 1	114.136 %	107.644 %	101.890 %	113.403 %	107.697 %	102.497 %	80.096 %
Concentration RSD	1.4 %	1.3 %	1.1 %	2.0 %	1.8 %	2.6 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0108 ppm	0.5414 ppm	0.0486 ppm	0.0105 ppm	0.0547 ppm	0.0203 ppm	0.0105 ppm
Concentration per Run 1	0.0108 ppm	0.5479 ppm	0.0490 ppm	0.0106 ppm	0.0543 ppm	0.0197 ppm	0.0104 ppm
Concentration per Run 2	0.0111 ppm	0.5400 ppm	0.0478 ppm	0.0103 ppm	0.0540 ppm	0.0209 ppm	0.0105 ppm
Concentration per Run 3	0.0105 ppm	0.5361 ppm	0.0489 ppm	0.0105 ppm	0.0559 ppm	0.0204 ppm	0.0107 ppm
Recovery Percentage 1	108.339 %	108.271 %	97.173 %	104.854 %	109.440 %	101.710 %	105.246 %
Concentration RSD	2.7 %	1.1 %	1.3 %	1.6 %	1.9 %	2.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0069 ppm	93.9430 %	102.0884 %	96.8240 %	97.6700 %	104.6445 %	101.0879 %
Concentration per Run 1	0.0070 ppm	92.3445 %	100.0292 %	95.2169 %	96.6088 %	103.2228 %	100.7981 %
Concentration per Run 2	0.0069 ppm	93.9308 %	103.7826 %	96.7221 %	97.8461 %	105.8561 %	100.9580 %
Concentration per Run 3	0.0069 ppm	95.5537 %	102.4534 %	98.5329 %	98.5551 %	104.8546 %	101.5077 %
Recovery Percentage 1	137.969 %						
Concentration RSD	1.0 %	1.7 %	1.9 %	1.7 %	1.0 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: L2432412-02 WG1934502
Analysis started at: 6/15/2024 5:22:00 AM
Rack 4
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.1021 ppm	0.0182 ppm	0.0138 ppm	0.0006 ppm	0.0000 ppm	2.2590 ppm
Concentration per Run 1	-0.0003 ppm	0.1050 ppm	0.0187 ppm	0.0133 ppm	0.0006 ppm	-0.0001 ppm	2.2790 ppm
Concentration per Run 2	-0.0002 ppm	0.1038 ppm	0.0175 ppm	0.0157 ppm	0.0004 ppm	0.0000 ppm	2.2562 ppm
Concentration per Run 3	-0.0001 ppm	0.0976 ppm	0.0185 ppm	0.0123 ppm	0.0007 ppm	0.0000 ppm	2.2418 ppm
Concentration RSD	39.7 %	3.9 %	3.6 %	12.9 %	25.2 %	15,798.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0245 ppm	0.0056 ppm	0.2179 ppm	1.3737 ppm	0.0042 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0249 ppm	0.0057 ppm	0.2164 ppm	1.4014 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	0.0244 ppm	0.0055 ppm	0.2191 ppm	1.3592 ppm	0.0057 ppm
Concentration per Run 3	0.0001 ppm	0.0015 ppm	0.0242 ppm	0.0054 ppm	0.2180 ppm	1.3605 ppm	0.0032 ppm
Concentration RSD	92.3 %	8.0 %	1.4 %	2.5 %	0.6 %	1.7 %	31.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1770 ppm	0.0090 ppm	0.0026 ppm	1,810.2263 ppm	0.0165 ppm	0.0052 ppm	0.0741 ppm
Concentration per Run 1	0.1791 ppm	0.0090 ppm	0.0030 ppm	1,823.9344 ppm	0.0167 ppm	0.0058 ppm	0.0730 ppm
Concentration per Run 2	0.1764 ppm	0.0088 ppm	0.0027 ppm	1,808.0010 ppm	0.0160 ppm	0.0044 ppm	0.0717 ppm
Concentration per Run 3	0.1755 ppm	0.0091 ppm	0.0022 ppm	1,798.7434 ppm	0.0166 ppm	0.0056 ppm	0.0775 ppm
Concentration RSD	1.0 %	2.0 %	15.4 %	0.7 %	2.2 %	14.5 %	4.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	45.5785 ppm	0.1352 ppm	0.0102 ppm	0.0115 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0027 ppm	46.1313 ppm	0.1384 ppm	0.0103 ppm	0.0115 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0064 ppm	45.4213 ppm	0.1333 ppm	0.0102 ppm	0.0114 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.0054 ppm	45.1830 ppm	0.1337 ppm	0.0101 ppm	0.0117 ppm	-0.0012 ppm	0.0005 ppm
Concentration RSD	40.0 %	1.1 %	2.1 %	1.1 %	1.3 %	292.7 %	138.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0910 ppm	78.5061 %	92.9644 %	74.8176 %	75.5559 %	94.9020 %	84.2480 %
Concentration per Run 1	0.0920 ppm	77.3095 %	92.1954 %	74.5789 %	73.9024 %	94.4734 %	84.2247 %
Concentration per Run 2	0.0911 ppm	79.1391 %	93.2411 %	74.9730 %	76.2122 %	95.2121 %	84.4715 %
Concentration per Run 3	0.0899 ppm	79.0696 %	93.4566 %	74.9009 %	76.5532 %	95.0206 %	84.0476 %
Concentration RSD	1.2 %	1.3 %	0.7 %	0.3 %	1.9 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 5:26:05 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4974 ppm	0.4717 ppm	0.4636 ppm	0.4857 ppm	0.5069 ppm	0.5052 ppm	0.4872 ppm
Concentration per Run 1	0.5022 ppm	0.4664 ppm	0.4652 ppm	0.4908 ppm	0.5092 ppm	0.5103 ppm	0.4850 ppm
Concentration per Run 2	0.4978 ppm	0.4751 ppm	0.4642 ppm	0.4858 ppm	0.5054 ppm	0.5050 ppm	0.4881 ppm
Concentration per Run 3	0.4923 ppm	0.4737 ppm	0.4613 ppm	0.4805 ppm	0.5060 ppm	0.5003 ppm	0.4884 ppm
Recovery Percentage 1	99.489 %	94.347 %	92.715 %	97.140 %	101.372 %	101.039 %	97.436 %
Concentration RSD	1.0 %	1.0 %	0.4 %	1.1 %	0.4 %	1.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4827 ppm	0.5018 ppm	0.4828 ppm	0.4912 ppm	0.5020 ppm	4.9645 ppm	0.4726 ppm
Concentration per Run 1	0.4889 ppm	0.5085 ppm	0.4896 ppm	0.4972 ppm	0.5091 ppm	4.9937 ppm	0.4769 ppm
Concentration per Run 2	0.4818 ppm	0.5009 ppm	0.4827 ppm	0.4907 ppm	0.4997 ppm	4.9491 ppm	0.4721 ppm
Concentration per Run 3	0.4772 ppm	0.4962 ppm	0.4760 ppm	0.4857 ppm	0.4970 ppm	4.9506 ppm	0.4689 ppm
Recovery Percentage 1	96.531 %	100.370 %	96.553 %	98.239 %	100.390 %	99.290 %	94.527 %
Concentration RSD	1.2 %	1.2 %	1.4 %	1.2 %	1.3 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4908 ppm	0.4840 ppm	0.4803 ppm	10.0905 ppm	0.5004 ppm	0.4856 ppm	0.4770 ppm
Concentration per Run 1	0.4998 ppm	0.4864 ppm	0.4803 ppm	10.1332 ppm	0.5094 ppm	0.4893 ppm	0.4789 ppm
Concentration per Run 2	0.4886 ppm	0.4826 ppm	0.4798 ppm	10.1649 ppm	0.4996 ppm	0.4835 ppm	0.4735 ppm
Concentration per Run 3	0.4840 ppm	0.4829 ppm	0.4809 ppm	9.9733 ppm	0.4922 ppm	0.4840 ppm	0.4787 ppm
Recovery Percentage 1	98.162 %	96.793 %	96.066 %	100.905 %	100.076 %	97.127 %	95.404 %
Concentration RSD	1.7 %	0.4 %	0.1 %	1.0 %	1.7 %	0.7 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4748 ppm	5.0509 ppm	0.5015 ppm	0.5053 ppm	0.4966 ppm	0.4796 ppm	0.4891 ppm
Concentration per Run 1	0.4745 ppm	5.1233 ppm	0.5008 ppm	0.5077 ppm	0.5056 ppm	0.4807 ppm	0.4958 ppm
Concentration per Run 2	0.4751 ppm	5.0341 ppm	0.5018 ppm	0.5028 ppm	0.4960 ppm	0.4788 ppm	0.4890 ppm
Concentration per Run 3	0.4749 ppm	4.9954 ppm	0.5018 ppm	0.5054 ppm	0.4883 ppm	0.4792 ppm	0.4826 ppm
Recovery Percentage 1	94.965 %	96.208 %	100.293 %	101.061 %	99.324 %	95.917 %	97.826 %
Concentration RSD	0.1 %	1.3 %	0.1 %	0.5 %	1.7 %	0.2 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4889 ppm	98.9142 %	104.3806 %	99.8609 %	94.7446 %	100.7192 %	98.4227 %
Concentration per Run 1	0.4970 ppm	97.0171 %	104.1020 %	99.3315 %	94.1006 %	100.7624 %	98.3528 %
Concentration per Run 2	0.4873 ppm	99.4852 %	104.0614 %	99.9502 %	95.2029 %	100.4475 %	98.4849 %
Concentration per Run 3	0.4825 ppm	100.2404 %	104.9785 %	100.3008 %	94.9301 %	100.9478 %	98.4305 %
Recovery Percentage 1	97.780 %						
Concentration RSD	1.5 %	1.7 %	0.5 %	0.5 %	0.6 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 5:30:06 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0002 ppm	0.0020 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0085 ppm
Concentration per Run 1	-0.0002 ppm	0.0016 ppm	0.0025 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 2	-0.0005 ppm	0.0026 ppm	0.0014 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	0.0097 ppm
Concentration per Run 3	-0.0003 ppm	-0.0049 ppm	0.0022 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0107 ppm
Recovery Percentage 1	-4.688 %	-0.247 %	68.078 %	4.051 %	0.228 %	-0.417 %	8.531 %
Concentration RSD	36.5 %	1,642.8 %	26.4 %	94.4 %	620.5 %	105.5 %	34.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0008 ppm	0.0055 ppm	0.0080 ppm	-0.0017 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0052 ppm	-0.0098 ppm	-0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0008 ppm	0.0054 ppm	0.0223 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	0.0003 ppm	0.0008 ppm	0.0058 ppm	0.0114 ppm	-0.0011 ppm
Recovery Percentage 1	-0.921 %	3.520 %	0.050 %	8.280 %	10.909 %	0.319 %	-16.929 %
Concentration RSD	34.3 %	50.1 %	4,457.1 %	3.1 %	5.7 %	204.8 %	30.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0016 ppm	0.1484 ppm	0.0004 ppm	-0.0005 ppm	0.0044 ppm
Concentration per Run 1	0.0016 ppm	-0.0003 ppm	0.0014 ppm	0.1454 ppm	0.0001 ppm	0.0006 ppm	0.0034 ppm
Concentration per Run 2	-0.0005 ppm	0.0003 ppm	0.0019 ppm	0.1464 ppm	0.0004 ppm	-0.0017 ppm	0.0045 ppm
Concentration per Run 3	-0.0008 ppm	0.0003 ppm	0.0016 ppm	0.1533 ppm	0.0007 ppm	-0.0006 ppm	0.0051 ppm
Recovery Percentage 1	0.114 %	1.014 %	3.254 %	7.418 %	1.622 %	-5.472 %	8.721 %
Concentration RSD	1,174.3 %	346.1 %	16.5 %	2.9 %	69.5 %	210.6 %	20.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0036 ppm	-0.0003 ppm	-0.0001 ppm	0.0004 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	-0.0018 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0026 ppm	-0.0001 ppm
Concentration per Run 2	0.0018 ppm	-0.0057 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	-0.0035 ppm	-0.0007 ppm	-0.0001 ppm	0.0005 ppm	-0.0013 ppm	-0.0001 ppm
Recovery Percentage 1	2.014 %	-0.729 %	-0.614 %	-0.646 %	4.230 %	-6.692 %	-0.822 %
Concentration RSD	703.9 %	54.0 %	153.9 %	98.3 %	14.6 %	91.9 %	39.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	94.0457 %	99.4129 %	96.9984 %	97.3633 %	101.0169 %	100.6161 %
Concentration per Run 1	0.0006 ppm	91.8367 %	99.3679 %	96.2790 %	96.5341 %	101.7033 %	100.8924 %
Concentration per Run 2	0.0004 ppm	94.4179 %	99.7954 %	97.2683 %	97.7361 %	101.4313 %	100.7064 %
Concentration per Run 3	0.0007 ppm	95.8825 %	99.0755 %	97.4478 %	97.8197 %	99.9162 %	100.2495 %
Recovery Percentage 1	11.502 %						
Concentration RSD	25.3 %	2.2 %	0.4 %	0.6 %	0.7 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/15/2024 6:20:28 AM

LabBook: WG1934185_06142024T8.imexp

Sample: LLOQ
Analysis started at: 6/15/2024 5:34:08 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0076 ppm	0.1016 ppm	0.0057 ppm	0.0323 ppm	0.0164 ppm	0.0052 ppm	0.1358 ppm
Concentration per Run 1	0.0077 ppm	0.0963 ppm	0.0077 ppm	0.0326 ppm	0.0164 ppm	0.0053 ppm	0.1360 ppm
Concentration per Run 2	0.0078 ppm	0.1032 ppm	0.0050 ppm	0.0317 ppm	0.0163 ppm	0.0052 ppm	0.1351 ppm
Concentration per Run 3	0.0075 ppm	0.1053 ppm	0.0044 ppm	0.0326 ppm	0.0164 ppm	0.0052 ppm	0.1362 ppm
Recovery Percentage 1	109.094 %	101.590 %	113.494 %	107.630 %	163.725 %	104.988 %	135.767 %
Concentration RSD	2.0 %	4.6 %	30.9 %	1.6 %	0.1 %	1.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0043 ppm	0.0229 ppm	0.0108 ppm	0.0126 ppm	0.0687 ppm	2.7173 ppm	0.0102 ppm
Concentration per Run 1	0.0043 ppm	0.0237 ppm	0.0108 ppm	0.0131 ppm	0.0694 ppm	2.7284 ppm	0.0109 ppm
Concentration per Run 2	0.0043 ppm	0.0225 ppm	0.0111 ppm	0.0128 ppm	0.0675 ppm	2.7186 ppm	0.0109 ppm
Concentration per Run 3	0.0042 ppm	0.0226 ppm	0.0106 ppm	0.0119 ppm	0.0693 ppm	2.7049 ppm	0.0087 ppm
Recovery Percentage 1	85.036 %	114.662 %	108.490 %	126.189 %	137.485 %	108.692 %	101.842 %
Concentration RSD	1.4 %	2.7 %	2.4 %	4.9 %	1.6 %	0.4 %	12.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1163 ppm	0.0110 ppm	0.0524 ppm	2.2593 ppm	0.0275 ppm	0.0107 ppm	0.0408 ppm
Concentration per Run 1	0.1183 ppm	0.0108 ppm	0.0519 ppm	2.2852 ppm	0.0279 ppm	0.0108 ppm	0.0409 ppm
Concentration per Run 2	0.1157 ppm	0.0109 ppm	0.0528 ppm	2.2709 ppm	0.0277 ppm	0.0109 ppm	0.0409 ppm
Concentration per Run 3	0.1149 ppm	0.0111 ppm	0.0524 ppm	2.2218 ppm	0.0270 ppm	0.0106 ppm	0.0405 ppm
Recovery Percentage 1	116.323 %	109.515 %	104.714 %	112.966 %	110.042 %	107.452 %	81.520 %
Concentration RSD	1.5 %	1.7 %	0.9 %	1.5 %	1.7 %	1.7 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0097 ppm	0.5456 ppm	0.0486 ppm	0.0106 ppm	0.0548 ppm	0.0202 ppm	0.0107 ppm
Concentration per Run 1	0.0076 ppm	0.5523 ppm	0.0492 ppm	0.0106 ppm	0.0555 ppm	0.0198 ppm	0.0108 ppm
Concentration per Run 2	0.0099 ppm	0.5449 ppm	0.0479 ppm	0.0107 ppm	0.0549 ppm	0.0202 ppm	0.0106 ppm
Concentration per Run 3	0.0115 ppm	0.5395 ppm	0.0488 ppm	0.0105 ppm	0.0538 ppm	0.0207 ppm	0.0105 ppm
Recovery Percentage 1	96.702 %	109.115 %	97.268 %	106.204 %	109.507 %	101.029 %	106.637 %
Concentration RSD	19.9 %	1.2 %	1.4 %	0.8 %	1.6 %	2.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0069 ppm	92.3680 %	98.5192 %	95.3759 %	97.2145 %	101.6559 %	100.4660 %
Concentration per Run 1	0.0071 ppm	90.7447 %	97.6809 %	94.3151 %	96.5362 %	101.4196 %	100.5633 %
Concentration per Run 2	0.0070 ppm	92.4181 %	98.9643 %	95.0662 %	97.2430 %	102.2923 %	100.2222 %
Concentration per Run 3	0.0068 ppm	93.9413 %	98.9122 %	96.7464 %	97.8643 %	101.2557 %	100.6127 %
Recovery Percentage 1	138.593 %						
Concentration RSD	2.1 %	1.7 %	0.7 %	1.3 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: Blank MAM Trace8
Analysis started at: 6/15/2024 9:00:24 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	-0.5 %	-1.6 %	0.4 %	0.1 %	-0.5 %	-0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	22.4 %	0.2 %	-0.7 %	0.1 %	-0.3 %	1.2 %	-0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-0.1 %	0.1 %	0.1 %	0.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.3 %	0.1 %	0.6 %	-1.0 %	-0.7 %	-0.3 %	-0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-2.2 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: ICAL
Analysis started at: 6/15/2024 9:04:31 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0079 ppm	25.0479 ppm	1.0042 ppm	1.0053 ppm	1.0037 ppm	1.0016 ppm	10.0001 ppm
Concentration per Run 2	1.0017 ppm	24.8320 ppm	0.9989 ppm	1.0027 ppm	0.9949 ppm	0.9992 ppm	10.0006 ppm
Concentration per Run 3	0.9904 ppm	25.1201 ppm	0.9969 ppm	0.9920 ppm	1.0014 ppm	0.9992 ppm	9.9993 ppm
Concentration RSD	0.9 %	0.6 %	0.4 %	0.7 %	0.5 %	0.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0101 ppm	1.0127 ppm	1.0132 ppm	1.0064 ppm	25.0792 ppm	35.2501 ppm	1.0130 ppm
Concentration per Run 2	0.9989 ppm	0.9965 ppm	0.9976 ppm	1.0016 ppm	24.9196 ppm	34.6670 ppm	0.9918 ppm
Concentration per Run 3	0.9910 ppm	0.9908 ppm	0.9891 ppm	0.9920 ppm	25.0011 ppm	35.0829 ppm	0.9952 ppm
Concentration RSD	1.0 %	1.1 %	1.2 %	0.7 %	0.3 %	0.9 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.1250 ppm	1.0009 ppm	0.9969 ppm	24.9235 ppm	1.0152 ppm	1.0010 ppm	1.0119 ppm
Concentration per Run 2	9.9867 ppm	0.9995 ppm	0.9991 ppm	25.0257 ppm	0.9940 ppm	0.9980 ppm	0.9981 ppm
Concentration per Run 3	9.8883 ppm	0.9996 ppm	1.0040 ppm	25.0508 ppm	0.9907 ppm	1.0009 ppm	0.9900 ppm
Concentration RSD	1.2 %	0.1 %	0.4 %	0.3 %	1.3 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9961 ppm	10.0857 ppm	1.0048 ppm	1.0008 ppm	1.0093 ppm	0.9967 ppm	1.0097 ppm
Concentration per Run 2	1.0069 ppm	9.9889 ppm	1.0016 ppm	1.0001 ppm	0.9997 ppm	1.0018 ppm	1.0002 ppm
Concentration per Run 3	0.9970 ppm	9.9255 ppm	0.9936 ppm	0.9991 ppm	0.9910 ppm	1.0014 ppm	0.9901 ppm
Concentration RSD	0.6 %	0.8 %	0.6 %	0.1 %	0.9 %	0.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	110.3338 %	110.9265 %	103.1956 %	94.4790 %	99.7473 %	95.8683 %
Concentration per Run 1	1.0122 ppm	108.5562 %	110.5142 %	102.6896 %	93.6943 %	99.1536 %	95.8801 %
Concentration per Run 2	0.9973 ppm	110.6025 %	111.0579 %	103.2833 %	94.6125 %	99.5425 %	95.8055 %
Concentration per Run 3	0.9905 ppm	111.8427 %	111.2073 %	103.6139 %	95.1302 %	100.5457 %	95.9192 %
Concentration RSD	1.1 %	1.5 %	0.3 %	0.5 %	0.8 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: ICV
Analysis started at: 6/15/2024 9:08:26 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5201 ppm	0.5123 ppm	0.4844 ppm	0.5121 ppm	0.5100 ppm	0.5159 ppm	0.4994 ppm
Concentration per Run 1	0.5267 ppm	0.5242 ppm	0.4889 ppm	0.5161 ppm	0.5136 ppm	0.5175 ppm	0.5023 ppm
Concentration per Run 2	0.5193 ppm	0.5039 ppm	0.4839 ppm	0.5123 ppm	0.5089 ppm	0.5159 ppm	0.5016 ppm
Concentration per Run 3	0.5143 ppm	0.5088 ppm	0.4803 ppm	0.5080 ppm	0.5075 ppm	0.5144 ppm	0.4941 ppm
Recovery Percentage 1	104.020 %	102.459 %	96.873 %	102.424 %	102.004 %	103.182 %	99.872 %
Concentration RSD	1.2 %	2.1 %	0.9 %	0.8 %	0.6 %	0.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5172 ppm	0.5270 ppm	0.5078 ppm	0.5117 ppm	0.5250 ppm	5.4074 ppm	0.5132 ppm
Concentration per Run 1	0.5246 ppm	0.5351 ppm	0.5157 ppm	0.5198 ppm	0.5280 ppm	5.4944 ppm	0.5196 ppm
Concentration per Run 2	0.5173 ppm	0.5272 ppm	0.5061 ppm	0.5129 ppm	0.5225 ppm	5.3323 ppm	0.5101 ppm
Concentration per Run 3	0.5097 ppm	0.5189 ppm	0.5016 ppm	0.5024 ppm	0.5246 ppm	5.3954 ppm	0.5098 ppm
Recovery Percentage 1	103.441 %	105.409 %	101.568 %	102.335 %	105.008 %	108.148 %	102.635 %
Concentration RSD	1.4 %	1.5 %	1.4 %	1.7 %	0.5 %	1.5 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5150 ppm	0.5008 ppm	0.5159 ppm	10.3949 ppm	0.5233 ppm	0.5024 ppm	0.5073 ppm
Concentration per Run 1	0.5200 ppm	0.5029 ppm	0.5164 ppm	10.3933 ppm	0.5314 ppm	0.5069 ppm	0.5111 ppm
Concentration per Run 2	0.5158 ppm	0.5006 ppm	0.5172 ppm	10.4338 ppm	0.5222 ppm	0.4998 ppm	0.5060 ppm
Concentration per Run 3	0.5092 ppm	0.4991 ppm	0.5141 ppm	10.3576 ppm	0.5163 ppm	0.5005 ppm	0.5048 ppm
Recovery Percentage 1	102.998 %	100.169 %	103.183 %	103.949 %	104.653 %	100.476 %	101.460 %
Concentration RSD	1.1 %	0.4 %	0.3 %	0.4 %	1.5 %	0.8 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4903 ppm	5.3144 ppm	0.5219 ppm	0.5148 ppm	0.5164 ppm	0.5125 ppm	0.5089 ppm
Concentration per Run 1	0.4950 ppm	5.3712 ppm	0.5241 ppm	0.5166 ppm	0.5247 ppm	0.5176 ppm	0.5168 ppm
Concentration per Run 2	0.4918 ppm	5.3201 ppm	0.5209 ppm	0.5139 ppm	0.5130 ppm	0.5113 ppm	0.5080 ppm
Concentration per Run 3	0.4839 ppm	5.2518 ppm	0.5207 ppm	0.5138 ppm	0.5116 ppm	0.5086 ppm	0.5020 ppm
Recovery Percentage 1	98.051 %	101.226 %	104.382 %	102.952 %	103.289 %	102.501 %	101.784 %
Concentration RSD	1.2 %	1.1 %	0.4 %	0.3 %	1.4 %	0.9 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5190 ppm	107.2199 %	108.6835 %	105.1671 %	96.1560 %	99.9186 %	97.4250 %
Concentration per Run 1	0.5265 ppm	105.3677 %	108.1190 %	104.2003 %	95.3058 %	99.7556 %	97.7222 %
Concentration per Run 2	0.5190 ppm	107.5606 %	109.1634 %	105.1797 %	96.4178 %	100.3949 %	97.2796 %
Concentration per Run 3	0.5116 ppm	108.7313 %	108.7680 %	106.1214 %	96.7444 %	99.6051 %	97.2732 %
Recovery Percentage 1	103.804 %						
Concentration RSD	1.4 %	1.6 %	0.5 %	0.9 %	0.8 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: ICB
Analysis started at: 6/15/2024 9:12:22 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0077 ppm	0.0012 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0158 ppm	0.0011 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0005 ppm	0.0016 ppm	-0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0020 ppm
Concentration per Run 3	0.0002 ppm	0.0066 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0029 ppm
Recovery Percentage 1	-0.664 %	7.677 %	40.937 %	-1.838 %	1.252 %	3.771 %	2.435 %
Concentration RSD	427.6 %	100.4 %	25.5 %	66.2 %	108.7 %	17.2 %	19.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0076 ppm	0.0219 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0078 ppm	0.0303 ppm	0.0008 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0091 ppm	0.0077 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0061 ppm	0.0278 ppm	0.0004 ppm
Recovery Percentage 1	2.697 %	0.180 %	-2.233 %	0.859 %	15.282 %	0.877 %	2.547 %
Concentration RSD	60.9 %	917.6 %	4.1 %	282.3 %	20.1 %	56.4 %	266.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0001 ppm	0.0006 ppm	-0.0228 ppm	-0.0012 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0010 ppm	-0.0221 ppm	-0.0010 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 2	0.0008 ppm	0.0002 ppm	0.0004 ppm	-0.0220 ppm	-0.0014 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 3	0.0010 ppm	0.0001 ppm	0.0006 ppm	-0.0243 ppm	-0.0012 ppm	-0.0007 ppm	-0.0005 ppm
Recovery Percentage 1	0.738 %	0.859 %	1.299 %	-1.141 %	-4.944 %	-2.705 %	-0.362 %
Concentration RSD	42.0 %	94.3 %	42.5 %	5.7 %	16.8 %	141.4 %	836.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	-0.0059 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0056 ppm	0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0012 ppm	-0.0047 ppm	-0.0009 ppm	0.0003 ppm	-0.0001 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	-0.0075 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	2.687 %	-1.189 %	-0.150 %	1.718 %	-0.134 %	-0.105 %	0.853 %
Concentration RSD	312.7 %	24.1 %	1,082.0 %	71.8 %	928.8 %	7,509.9 %	125.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	106.1534 %	104.8244 %	105.2659 %	101.5513 %	99.9014 %	99.5409 %
Concentration per Run 1	0.0011 ppm	103.1956 %	104.4647 %	105.2532 %	100.7213 %	100.0183 %	100.4517 %
Concentration per Run 2	0.0010 ppm	106.0780 %	105.1271 %	105.4785 %	102.1535 %	100.0643 %	99.7898 %
Concentration per Run 3	0.0008 ppm	109.1867 %	104.8816 %	105.0660 %	101.7791 %	99.6215 %	98.3811 %
Recovery Percentage 1	19.487 %						
Concentration RSD	20.7 %	2.8 %	0.3 %	0.2 %	0.7 %	0.2 %	1.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: ICV
Analysis started at: 6/15/2024 9:16:18 AM
Rack 0
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5006 ppm	0.5012 ppm	0.4736 ppm	0.4913 ppm	0.4962 ppm	0.5065 ppm	0.4848 ppm
Concentration per Run 1	0.5020 ppm	0.5002 ppm	0.4759 ppm	0.4907 ppm	0.4982 ppm	0.5078 ppm	0.4883 ppm
Concentration per Run 2	0.5006 ppm	0.5040 ppm	0.4747 ppm	0.4915 ppm	0.4957 ppm	0.5050 ppm	0.4852 ppm
Concentration per Run 3	0.4992 ppm	0.4994 ppm	0.4701 ppm	0.4917 ppm	0.4945 ppm	0.5069 ppm	0.4810 ppm
Recovery Percentage 1	100.123 %	100.237 %	94.712 %	98.268 %	99.231 %	101.307 %	96.966 %
Concentration RSD	0.3 %	0.5 %	0.6 %	0.1 %	0.4 %	0.3 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5003 ppm	0.5090 ppm	0.4918 ppm	0.4946 ppm	0.5074 ppm	5.2093 ppm	0.6359 ppm
Concentration per Run 1	0.5014 ppm	0.5108 ppm	0.4949 ppm	0.4975 ppm	0.5096 ppm	5.2995 ppm	0.6427 ppm
Concentration per Run 2	0.5009 ppm	0.5089 ppm	0.4924 ppm	0.4950 ppm	0.5045 ppm	5.1854 ppm	0.6378 ppm
Concentration per Run 3	0.4985 ppm	0.5072 ppm	0.4881 ppm	0.4911 ppm	0.5082 ppm	5.1429 ppm	0.6271 ppm
Recovery Percentage 1	100.058 %	101.791 %	98.357 %	98.911 %	101.489 %	104.186 %	127.179 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.7 %	0.5 %	1.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4965 ppm	0.4910 ppm	0.4950 ppm	10.1755 ppm	0.5032 ppm	0.4933 ppm	0.4870 ppm
Concentration per Run 1	0.4984 ppm	0.4908 ppm	0.4895 ppm	10.2759 ppm	0.5052 ppm	0.4955 ppm	0.4898 ppm
Concentration per Run 2	0.4972 ppm	0.4922 ppm	0.4964 ppm	10.0995 ppm	0.5041 ppm	0.4957 ppm	0.4866 ppm
Concentration per Run 3	0.4938 ppm	0.4900 ppm	0.4989 ppm	10.1510 ppm	0.5004 ppm	0.4887 ppm	0.4847 ppm
Recovery Percentage 1	99.294 %	98.198 %	98.993 %	101.755 %	100.646 %	98.663 %	97.408 %
Concentration RSD	0.5 %	0.2 %	1.0 %	0.9 %	0.5 %	0.8 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4786 ppm	5.4957 ppm	0.4989 ppm	0.4966 ppm	0.4999 ppm	0.5010 ppm	0.4910 ppm
Concentration per Run 1	0.4806 ppm	5.5039 ppm	0.4954 ppm	0.4979 ppm	0.5031 ppm	0.5009 ppm	0.4950 ppm
Concentration per Run 2	0.4816 ppm	5.5097 ppm	0.4989 ppm	0.4919 ppm	0.4989 ppm	0.5037 ppm	0.4898 ppm
Concentration per Run 3	0.4737 ppm	5.4734 ppm	0.5025 ppm	0.5001 ppm	0.4978 ppm	0.4984 ppm	0.4882 ppm
Recovery Percentage 1	95.730 %	104.679 %	99.790 %	99.326 %	99.989 %	100.198 %	98.198 %
Concentration RSD	0.9 %	0.4 %	0.7 %	0.9 %	0.5 %	0.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5003 ppm	109.1803 %	110.1035 %	106.4170 %	96.6325 %	100.8465 %	97.9095 %
Concentration per Run 1	0.5029 ppm	108.0266 %	110.1423 %	105.6163 %	96.1056 %	100.9017 %	97.5708 %
Concentration per Run 2	0.5002 ppm	109.5759 %	109.3937 %	106.6798 %	97.2470 %	100.2869 %	98.4591 %
Concentration per Run 3	0.4977 ppm	109.9383 %	110.7747 %	106.9550 %	96.5448 %	101.3509 %	97.6986 %
Recovery Percentage 1	100.052 %						
Concentration RSD	0.5 %	0.9 %	0.6 %	0.7 %	0.6 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: ICB
Analysis started at: 6/15/2024 9:20:18 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0097 ppm	-0.0007 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 1	0.0001 ppm	0.0129 ppm	0.0017 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0047 ppm	-0.0018 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0038 ppm
Concentration per Run 3	-0.0001 ppm	0.0115 ppm	-0.0022 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	-0.0017 ppm
Recovery Percentage 1	0.685 %	9.717 %	-24.890 %	2.000 %	1.251 %	2.436 %	1.866 %
Concentration RSD	252.0 %	45.5 %	287.3 %	59.5 %	153.0 %	22.3 %	165.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0067 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0062 ppm	-0.0406 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	-0.0002 ppm	0.0009 ppm	0.0075 ppm	0.0334 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0064 ppm	0.0114 ppm	-0.0021 ppm
Recovery Percentage 1	1.109 %	-1.621 %	-1.120 %	3.400 %	13.433 %	0.056 %	-0.662 %
Concentration RSD	46.2 %	93.4 %	114.0 %	154.7 %	10.8 %	2,730.1 %	2,864.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0001 ppm	0.0005 ppm	-0.0290 ppm	0.0001 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0006 ppm	-0.0241 ppm	-0.0002 ppm	0.0011 ppm	0.0043 ppm
Concentration per Run 2	0.0020 ppm	0.0000 ppm	0.0004 ppm	-0.0323 ppm	0.0002 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0005 ppm	-0.0308 ppm	0.0003 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	0.899 %	0.702 %	1.062 %	-1.452 %	0.360 %	5.456 %	2.124 %
Concentration RSD	108.5 %	111.6 %	23.5 %	15.1 %	269.1 %	99.0 %	262.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0065 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0011 ppm	-0.0056 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	-0.0017 ppm	-0.0075 ppm	0.0005 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	0.0003 ppm
Concentration per Run 3	0.0013 ppm	-0.0064 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Recovery Percentage 1	2.229 %	-1.300 %	0.134 %	0.621 %	-0.417 %	0.132 %	2.822 %
Concentration RSD	748.9 %	14.7 %	774.2 %	152.5 %	420.9 %	3,902.2 %	28.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	102.9283 %	103.1775 %	101.8623 %	98.2956 %	99.5528 %	98.5896 %
Concentration per Run 1	0.0008 ppm	101.3685 %	102.6105 %	100.5422 %	97.7880 %	99.8109 %	98.3107 %
Concentration per Run 2	0.0010 ppm	102.7001 %	103.2059 %	102.4562 %	98.3565 %	99.3046 %	99.0599 %
Concentration per Run 3	0.0009 ppm	104.7164 %	103.7160 %	102.5884 %	98.7424 %	99.5429 %	98.3981 %
Recovery Percentage 1	17.859 %						
Concentration RSD	13.7 %	1.6 %	0.5 %	1.1 %	0.5 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LLOQ
Analysis started at: 6/15/2024 9:24:15 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	0.1161 ppm	0.0047 ppm	0.0334 ppm	**0.0165 ppm**	0.0054 ppm	**0.1314 ppm**
Concentration per Run 1	0.0082 ppm	0.1185 ppm	0.0039 ppm	0.0337 ppm	0.0165 ppm	0.0054 ppm	0.1286 ppm
Concentration per Run 2	0.0074 ppm	0.1236 ppm	0.0053 ppm	0.0329 ppm	0.0164 ppm	0.0054 ppm	0.1329 ppm
Concentration per Run 3	0.0075 ppm	0.1062 ppm	0.0048 ppm	0.0337 ppm	0.0164 ppm	0.0054 ppm	0.1328 ppm
Recovery Percentage 1	110.119 %	116.096 %	93.163 %	111.418 %	164.547 %	107.717 %	131.399 %
Concentration RSD	6.0 %	7.7 %	16.1 %	1.3 %	**0.4 %**	0.5 %	**1.9 %**

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0043 ppm	0.0230 ppm	0.0109 ppm	**0.0128 ppm**	**0.0862 ppm**	2.9282 ppm	**0.0128 ppm**
Concentration per Run 1	0.0043 ppm	0.0237 ppm	0.0111 ppm	0.0131 ppm	0.0853 ppm	2.9327 ppm	0.0139 ppm
Concentration per Run 2	0.0044 ppm	0.0228 ppm	0.0107 ppm	0.0126 ppm	0.0833 ppm	2.9390 ppm	0.0119 ppm
Concentration per Run 3	0.0043 ppm	0.0224 ppm	0.0109 ppm	0.0126 ppm	0.0900 ppm	2.9128 ppm	0.0125 ppm
Recovery Percentage 1	86.438 %	114.844 %	109.369 %	127.543 %	172.408 %	117.126 %	127.639 %
Concentration RSD	0.9 %	2.9 %	1.9 %	**2.2 %**	**3.9 %**	0.5 %	**7.8 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1153 ppm	0.0114 ppm	0.0524 ppm	2.2791 ppm	**0.0360 ppm**	0.0106 ppm	**0.0392 ppm**
Concentration per Run 1	0.1177 ppm	0.0118 ppm	0.0517 ppm	2.2851 ppm	0.0352 ppm	0.0111 ppm	0.0378 ppm
Concentration per Run 2	0.1152 ppm	0.0114 ppm	0.0530 ppm	2.2828 ppm	0.0363 ppm	0.0106 ppm	0.0409 ppm
Concentration per Run 3	0.1131 ppm	0.0111 ppm	0.0524 ppm	2.2695 ppm	0.0363 ppm	0.0102 ppm	0.0390 ppm
Recovery Percentage 1	115.334 %	114.261 %	104.732 %	113.956 %	143.809 %	106.453 %	78.477 %
Concentration RSD	2.0 %	3.0 %	1.3 %	0.4 %	**1.7 %**	3.9 %	**3.9 %**

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0082 ppm	0.5562 ppm	0.0497 ppm	0.0112 ppm	0.0547 ppm	**0.0222 ppm**	0.0111 ppm
Concentration per Run 1	0.0073 ppm	0.5591 ppm	0.0498 ppm	0.0112 ppm	0.0554 ppm	0.0218 ppm	0.0111 ppm
Concentration per Run 2	0.0081 ppm	0.5587 ppm	0.0500 ppm	0.0112 ppm	0.0542 ppm	0.0229 ppm	0.0112 ppm
Concentration per Run 3	0.0093 ppm	0.5509 ppm	0.0492 ppm	0.0113 ppm	0.0544 ppm	0.0220 ppm	0.0111 ppm
Recovery Percentage 1	82.069 %	111.248 %	99.343 %	112.368 %	109.363 %	111.112 %	111.321 %
Concentration RSD	12.4 %	0.8 %	0.9 %	0.7 %	1.2 %	2.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0068 ppm**	104.0006 %	105.5978 %	103.0399 %	98.4661 %	102.1721 %	99.1022 %
Concentration per Run 1	0.0069 ppm	103.1995 %	105.7412 %	102.4416 %	98.5573 %	102.8855 %	99.2269 %
Concentration per Run 2	0.0068 ppm	103.8047 %	105.1773 %	102.7105 %	98.6189 %	101.7388 %	98.7879 %
Concentration per Run 3	0.0068 ppm	104.9975 %	105.8749 %	103.9677 %	98.2222 %	101.8921 %	99.2918 %
Recovery Percentage 1	136.831 %						
Concentration RSD	**1.0 %**	0.9 %	0.4 %	0.8 %	0.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: ICSA
Analysis started at: 6/15/2024 9:28:12 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	513.3078 ppm	-0.0015 ppm	-0.0008 ppm	0.0022 ppm	0.0001 ppm	472.2476 ppm
Concentration per Run 1	0.0009 ppm	512.1598 ppm	-0.0013 ppm	0.0004 ppm	0.0024 ppm	0.0001 ppm	470.9353 ppm
Concentration per Run 2	0.0004 ppm	513.7216 ppm	0.0007 ppm	-0.0017 ppm	0.0023 ppm	0.0001 ppm	473.2553 ppm
Concentration per Run 3	0.0007 ppm	514.0421 ppm	-0.0039 ppm	-0.0011 ppm	0.0020 ppm	0.0001 ppm	472.5522 ppm
Recovery Percentage 1	9.265 %	513,307.822 %	-50.268 %	-2.670 %	22.217 %	2.889 %	472,247.606 %
Concentration RSD	40.6 %	0.2 %	153.3 %	136.5 %	10.3 %	9.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0001 ppm	-0.0007 ppm	0.0010 ppm	190.2724 ppm	0.0386 ppm	0.0036 ppm
Concentration per Run 1	0.0008 ppm	0.0000 ppm	-0.0003 ppm	0.0013 ppm	189.8016 ppm	0.0431 ppm	0.0049 ppm
Concentration per Run 2	0.0005 ppm	-0.0004 ppm	-0.0008 ppm	0.0009 ppm	190.5972 ppm	0.0335 ppm	0.0025 ppm
Concentration per Run 3	0.0006 ppm	0.0002 ppm	-0.0009 ppm	0.0008 ppm	190.4183 ppm	0.0391 ppm	0.0035 ppm
Recovery Percentage 1	12.755 %	-0.336 %	-6.555 %	9.900 %	380,544.741 %	1.542 %	36.256 %
Concentration RSD	22.3 %	474.6 %	45.9 %	29.0 %	0.2 %	12.5 %	31.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	479.6797 ppm	0.0019 ppm	-0.0023 ppm	0.0582 ppm	-0.0007 ppm	-0.0087 ppm	-0.0021 ppm
Concentration per Run 1	481.6325 ppm	0.0019 ppm	-0.0025 ppm	0.0628 ppm	-0.0011 ppm	-0.0057 ppm	-0.0043 ppm
Concentration per Run 2	478.7591 ppm	0.0018 ppm	-0.0023 ppm	0.0502 ppm	-0.0010 ppm	-0.0112 ppm	0.0000 ppm
Concentration per Run 3	478.6475 ppm	0.0021 ppm	-0.0020 ppm	0.0615 ppm	-0.0001 ppm	-0.0091 ppm	-0.0019 ppm
Recovery Percentage 1	479,679.707 %	19.323 %	-4.555 %	2.908 %	-2.958 %	-86.958 %	-4.184 %
Concentration RSD	0.4 %	6.8 %	11.8 %	11.9 %	75.5 %	32.0 %	103.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0121 ppm	0.0013 ppm	0.0004 ppm	-0.0001 ppm	0.0026 ppm	-0.0016 ppm
Concentration per Run 1	-0.0046 ppm	0.0145 ppm	0.0011 ppm	0.0004 ppm	-0.0002 ppm	0.0029 ppm	-0.0016 ppm
Concentration per Run 2	0.0038 ppm	0.0124 ppm	0.0011 ppm	0.0006 ppm	-0.0002 ppm	0.0040 ppm	-0.0016 ppm
Concentration per Run 3	0.0006 ppm	0.0093 ppm	0.0016 ppm	0.0004 ppm	0.0001 ppm	0.0010 ppm	-0.0017 ppm
Recovery Percentage 1	-0.674 %	2.413 %	2.543 %	4.451 %	-1.093 %	13.099 %	-16.405 %
Concentration RSD	6,294.8 %	21.8 %	19.7 %	21.1 %	166.5 %	58.2 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	95.6826 %	104.1654 %	82.4625 %	81.6311 %	94.3136 %	82.9962 %
Concentration per Run 1	0.0009 ppm	95.2465 %	104.6470 %	82.3641 %	81.9622 %	94.8438 %	82.9077 %
Concentration per Run 2	0.0017 ppm	95.7356 %	103.9933 %	82.4564 %	81.5956 %	94.2993 %	83.3267 %
Concentration per Run 3	0.0018 ppm	96.0657 %	103.8559 %	82.5669 %	81.3353 %	93.7977 %	82.7541 %
Recovery Percentage 1	29.199 %						
Concentration RSD	35.0 %	0.4 %	0.4 %	0.1 %	0.4 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LDR 500 Fe
Analysis started at: 6/15/2024 9:35:46 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	0.0537 ppm	0.0007 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 1	-0.0010 ppm	0.0563 ppm	0.0001 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 2	-0.0005 ppm	0.0611 ppm	0.0024 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	0.0074 ppm
Concentration per Run 3	-0.0014 ppm	0.0438 ppm	-0.0004 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0039 ppm
Concentration RSD	48.7 %	16.6 %	211.3 %	25.9 %	48.6 %	65.4 %	44.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	-0.0014 ppm	-0.0025 ppm	-0.0051 ppm	461.0511 ppm	-0.0858 ppm	0.0004 ppm
Concentration per Run 1	0.0010 ppm	-0.0014 ppm	-0.0022 ppm	-0.0053 ppm	463.1263 ppm	-0.0990 ppm	-0.0005 ppm
Concentration per Run 2	0.0010 ppm	-0.0018 ppm	-0.0027 ppm	-0.0052 ppm	459.2921 ppm	-0.0860 ppm	0.0017 ppm
Concentration per Run 3	0.0008 ppm	-0.0010 ppm	-0.0025 ppm	-0.0049 ppm	460.7350 ppm	-0.0723 ppm	-0.0001 ppm
Concentration RSD	10.7 %	29.4 %	10.4 %	4.5 %	0.4 %	15.6 %	326.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0004 ppm	-0.0042 ppm	-0.0242 ppm	-0.0020 ppm	0.0011 ppm	0.0083 ppm
Concentration per Run 1	-0.0022 ppm	0.0006 ppm	-0.0040 ppm	-0.0156 ppm	-0.0020 ppm	0.0004 ppm	0.0089 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	-0.0045 ppm	-0.0284 ppm	-0.0021 ppm	0.0016 ppm	0.0061 ppm
Concentration per Run 3	0.0007 ppm	0.0003 ppm	-0.0042 ppm	-0.0284 ppm	-0.0019 ppm	0.0013 ppm	0.0099 ppm
Concentration RSD	163.5 %	34.7 %	6.5 %	30.6 %	7.0 %	57.6 %	23.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	-0.0071 ppm	0.0011 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0029 ppm	-0.0050 ppm	0.0004 ppm	0.0003 ppm	-0.0004 ppm	-0.0014 ppm	-0.0005 ppm
Concentration per Run 2	0.0025 ppm	-0.0085 ppm	0.0011 ppm	0.0005 ppm	-0.0002 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0012 ppm	-0.0077 ppm	0.0019 ppm	0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0006 ppm
Concentration RSD	162.4 %	25.8 %	70.0 %	67.7 %	44.1 %	745.1 %	2,004.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	110.3508 %	110.7046 %	98.5993 %	94.3692 %	100.3571 %	95.5342 %
Concentration per Run 1	-0.0004 ppm	109.4460 %	110.2527 %	98.6226 %	94.6032 %	100.0277 %	95.8859 %
Concentration per Run 2	-0.0006 ppm	110.5380 %	110.9882 %	98.5947 %	94.4068 %	100.5678 %	95.3898 %
Concentration per Run 3	-0.0007 ppm	111.0683 %	110.8729 %	98.5805 %	94.0975 %	100.4758 %	95.3269 %
Concentration RSD	32.6 %	0.7 %	0.4 %	0.0 %	0.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LDR 1000 Ca
Analysis started at: 6/15/2024 9:39:47 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0007 ppm	0.0005 ppm	-0.0002 ppm	0.0023 ppm	0.0000 ppm	994.8117 ppm
Concentration per Run 1	-0.0012 ppm	-0.0083 ppm	-0.0007 ppm	-0.0005 ppm	0.0021 ppm	0.0000 ppm	1,001.6017 ppm
Concentration per Run 2	-0.0007 ppm	0.0008 ppm	-0.0008 ppm	0.0016 ppm	0.0025 ppm	0.0000 ppm	994.7750 ppm
Concentration per Run 3	-0.0004 ppm	0.0054 ppm	0.0028 ppm	-0.0016 ppm	0.0022 ppm	0.0000 ppm	988.0584 ppm
Concentration RSD	53.0 %	986.1 %	448.3 %	957.6 %	9.4 %	1,832.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0009 ppm	0.0007 ppm	0.0011 ppm	0.0267 ppm	0.0368 ppm	0.0020 ppm
Concentration per Run 1	0.0003 ppm	0.0016 ppm	0.0007 ppm	0.0011 ppm	0.0260 ppm	0.0418 ppm	0.0037 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	0.0006 ppm	0.0013 ppm	0.0272 ppm	0.0055 ppm	0.0016 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0008 ppm	0.0269 ppm	0.0632 ppm	0.0007 ppm
Concentration RSD	64.5 %	76.9 %	8.1 %	23.9 %	2.3 %	79.1 %	77.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0030 ppm	0.0003 ppm	-0.0014 ppm	-0.0113 ppm	0.0003 ppm	0.0035 ppm	-0.0018 ppm
Concentration per Run 1	0.0038 ppm	0.0004 ppm	-0.0016 ppm	-0.0114 ppm	0.0003 ppm	0.0026 ppm	-0.0030 ppm
Concentration per Run 2	0.0021 ppm	0.0003 ppm	-0.0016 ppm	-0.0107 ppm	0.0003 ppm	0.0042 ppm	-0.0016 ppm
Concentration per Run 3	0.0031 ppm	0.0003 ppm	-0.0011 ppm	-0.0119 ppm	0.0002 ppm	0.0038 ppm	-0.0009 ppm
Concentration RSD	28.7 %	25.5 %	21.8 %	5.2 %	34.1 %	23.3 %	59.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	-0.0026 ppm	-0.0007 ppm	0.0003 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0042 ppm	-0.0027 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 2	0.0036 ppm	-0.0049 ppm	-0.0008 ppm	0.0002 ppm	-0.0006 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	-0.0005 ppm	0.0004 ppm	-0.0001 ppm	-0.0009 ppm	0.0004 ppm
Concentration RSD	81.7 %	86.8 %	25.1 %	30.2 %	110.1 %	355.2 %	17.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	88.2424 %	98.4273 %	82.1737 %	84.9115 %	95.8712 %	87.0823 %
Concentration per Run 1	0.0013 ppm	86.5883 %	97.6616 %	81.4732 %	84.2126 %	96.0891 %	87.3410 %
Concentration per Run 2	0.0013 ppm	88.0754 %	98.0387 %	82.1712 %	84.9031 %	95.3106 %	86.9201 %
Concentration per Run 3	0.0015 ppm	90.0635 %	99.5815 %	82.8768 %	85.6187 %	96.2141 %	86.9858 %
Concentration RSD	10.2 %	2.0 %	1.0 %	0.9 %	0.8 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: SIC Multi
Analysis started at: 6/15/2024 9:45:00 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0242 ppm	0.0003 ppm	0.0021 ppm	0.0002 ppm	-0.0015 ppm	0.0789 ppm
Concentration per Run 1	-0.0008 ppm	0.0267 ppm	-0.0015 ppm	0.0019 ppm	0.0002 ppm	-0.0015 ppm	0.0768 ppm
Concentration per Run 2	-0.0007 ppm	0.0221 ppm	0.0009 ppm	0.0026 ppm	0.0004 ppm	-0.0015 ppm	0.0819 ppm
Concentration per Run 3	-0.0008 ppm	0.0238 ppm	0.0014 ppm	0.0017 ppm	0.0001 ppm	-0.0014 ppm	0.0779 ppm
Recovery Percentage 1	-11.173 %	24.220 %	8.388 %	6.867 %	2.321 %	-36.932 %	78.851 %
Concentration RSD	9.3 %	9.6 %	595.6 %	22.6 %	61.9 %	5.9 %	3.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	19.9995 ppm	-0.0014 ppm	0.0449 ppm	-0.0256 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	20.1934 ppm	-0.0013 ppm	0.0454 ppm	-0.0052 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	19.9784 ppm	-0.0019 ppm	0.0455 ppm	-0.0451 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	19.8268 ppm	-0.0011 ppm	0.0437 ppm	-0.0264 ppm	0.0011 ppm
Recovery Percentage 1	-1.462 %	2.060 %	199,995.102 %	-14.184 %	89.701 %	-1.023 %	7.578 %
Concentration RSD	78.0 %	20.5 %	0.9 %	27.9 %	2.2 %	78.2 %	43.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0053 ppm	20.4047 ppm	-0.0014 ppm	-0.0311 ppm	-0.0005 ppm	-0.0023 ppm	-0.0127 ppm
Concentration per Run 1	-0.0080 ppm	20.4004 ppm	-0.0015 ppm	-0.0251 ppm	-0.0002 ppm	-0.0027 ppm	-0.0146 ppm
Concentration per Run 2	-0.0048 ppm	20.4039 ppm	-0.0012 ppm	-0.0327 ppm	-0.0010 ppm	-0.0017 ppm	-0.0116 ppm
Concentration per Run 3	-0.0031 ppm	20.4099 ppm	-0.0014 ppm	-0.0354 ppm	-0.0005 ppm	-0.0026 ppm	-0.0120 ppm
Recovery Percentage 1	-5.281 %	204,047.248 %	-2.754 %	-1.553 %	-2.196 %	-23.403 %	-25.437 %
Concentration RSD	46.5 %	0.0 %	10.3 %	17.2 %	77.6 %	25.1 %	12.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.1200 ppm	-0.0040 ppm	0.0005 ppm	19.6321 ppm	-0.0052 ppm	10.1195 ppm
Concentration per Run 1	-0.0012 ppm	0.0941 ppm	-0.0032 ppm	0.0005 ppm	19.8040 ppm	-0.0105 ppm	10.1821 ppm
Concentration per Run 2	-0.0006 ppm	0.1160 ppm	-0.0030 ppm	0.0003 ppm	19.6095 ppm	-0.0033 ppm	10.1364 ppm
Concentration per Run 3	0.0015 ppm	0.1499 ppm	-0.0058 ppm	0.0005 ppm	19.4828 ppm	-0.0019 ppm	10.0398 ppm
Recovery Percentage 1	-0.979 %	24.000 %	-8.028 %	4.502 %	196,321.252 %	-26.159 %	101,194.687 %
Concentration RSD	1,441.3 %	23.4 %	39.6 %	25.0 %	0.8 %	88.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	111.6558 %	111.8909 %	89.5748 %	98.2951 %	102.3109 %	99.9468 %
Concentration per Run 1	0.0018 ppm	110.4994 %	112.7379 %	89.1200 %	97.8789 %	103.3853 %	99.9475 %
Concentration per Run 2	0.0016 ppm	111.8061 %	111.7834 %	89.5133 %	98.4630 %	102.0641 %	100.0050 %
Concentration per Run 3	0.0016 ppm	112.6619 %	111.1515 %	90.0910 %	98.5435 %	101.4833 %	99.8879 %
Recovery Percentage 1	33.511 %						
Concentration RSD	5.6 %	1.0 %	0.7 %	0.5 %	0.4 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LDR Check
Analysis started at: 6/15/2024 9:48:58 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	0.0831 ppm	22.3515 ppm	19.0542 ppm	19.7723 ppm	5.0224 ppm	0.0288 ppm
Concentration per Run 1	0.0008 ppm	0.0882 ppm	22.4248 ppm	19.1390 ppm	19.7066 ppm	5.0120 ppm	0.0318 ppm
Concentration per Run 2	0.0014 ppm	0.0779 ppm	22.2867 ppm	19.0417 ppm	19.7256 ppm	5.0103 ppm	0.0253 ppm
Concentration per Run 3	0.0009 ppm	0.0832 ppm	22.3431 ppm	18.9819 ppm	19.8848 ppm	5.0450 ppm	0.0292 ppm
Recovery Percentage 1			111.758 %	95.271 %	98.862 %		0.000 %
Concentration RSD	32.5 %	6.2 %	0.3 %	0.4 %	0.5 %	0.4 %	11.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.9489 ppm	4.9502 ppm	0.0047 ppm	19.1334 ppm	0.0897 ppm	527.8559 ppm	19.1973 ppm
Concentration per Run 1	4.9776 ppm	4.9768 ppm	0.0049 ppm	19.2209 ppm	0.0884 ppm	525.1829 ppm	19.1141 ppm
Concentration per Run 2	4.9580 ppm	4.9458 ppm	0.0049 ppm	19.1113 ppm	0.0892 ppm	527.3733 ppm	19.1368 ppm
Concentration per Run 3	4.9111 ppm	4.9280 ppm	0.0042 ppm	19.0681 ppm	0.0914 ppm	531.0115 ppm	19.3409 ppm
Recovery Percentage 1	98.977 %	99.004 %		95.667 %	0.000 %	105.571 %	95.986 %
Concentration RSD	0.7 %	0.5 %	9.0 %	0.4 %	1.7 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0047 ppm	4.9672 ppm	427.6944 ppm	9.7389 ppm	50.9523 ppm	4.8908 ppm
Concentration per Run 1	-0.0003 ppm	0.0049 ppm	4.8933 ppm	427.0800 ppm	9.7305 ppm	51.0522 ppm	4.8581 ppm
Concentration per Run 2	-0.0010 ppm	0.0046 ppm	4.9864 ppm	427.7118 ppm	9.7843 ppm	50.9295 ppm	4.8920 ppm
Concentration per Run 3	-0.0023 ppm	0.0047 ppm	5.0217 ppm	428.2914 ppm	9.7019 ppm	50.8752 ppm	4.9222 ppm
Recovery Percentage 1		0.000 %	99.343 %	85.539 %	97.389 %	101.905 %	97.815 %
Concentration RSD	86.4 %	3.3 %	1.3 %	0.1 %	0.4 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.2780 ppm	21.4447 ppm	8.0543 ppm	4.9689 ppm	0.0154 ppm	4.8689 ppm	0.0000 ppm
Concentration per Run 1	5.2899 ppm	21.4136 ppm	8.0578 ppm	4.9502 ppm	0.0165 ppm	4.8916 ppm	0.0002 ppm
Concentration per Run 2	5.2678 ppm	21.4612 ppm	8.0982 ppm	4.9391 ppm	0.0153 ppm	4.8500 ppm	0.0001 ppm
Concentration per Run 3	5.2763 ppm	21.4593 ppm	8.0069 ppm	5.0174 ppm	0.0146 ppm	4.8651 ppm	-0.0002 ppm
Recovery Percentage 1	105.560 %	107.223 %	80.543 %	99.378 %	0.000 %	97.378 %	0.000 %
Concentration RSD	0.2 %	0.1 %	0.6 %	0.9 %	6.2 %	0.4 %	752.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.4081 ppm	102.2198 %	108.3861 %	92.0674 %	84.8261 %	96.8024 %	85.8146 %
Concentration per Run 1	19.4546 ppm	101.1080 %	108.7550 %	92.1378 %	84.1505 %	97.1977 %	85.9741 %
Concentration per Run 2	19.5074 ppm	102.3253 %	108.2969 %	91.8164 %	84.9310 %	96.8206 %	85.6064 %
Concentration per Run 3	19.2622 ppm	103.2260 %	108.1062 %	92.2480 %	85.3967 %	96.3889 %	85.8633 %
Recovery Percentage 1	97.040 %						
Concentration RSD	0.7 %	1.0 %	0.3 %	0.2 %	0.7 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LDR 10 SN
Analysis started at: 6/15/2024 9:59:25 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0092 ppm	0.0033 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 1	0.0002 ppm	0.0197 ppm	0.0029 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 2	-0.0002 ppm	0.0046 ppm	0.0037 ppm	0.0027 ppm	0.0001 ppm	0.0001 ppm	0.0043 ppm
Concentration per Run 3	-0.0001 ppm	0.0032 ppm	0.0034 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0053 ppm
Concentration RSD	517.5 %	99.7 %	12.2 %	41.7 %	27.9 %	74.1 %	10.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0032 ppm	0.0872 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0027 ppm	0.1025 ppm	0.0028 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0002 ppm	-0.0002 ppm	0.0046 ppm	0.0709 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm	0.0882 ppm	0.0005 ppm
Concentration RSD	110.9 %	245.2 %	1,230.4 %	52.9 %	36.3 %	18.2 %	67.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0002 ppm	0.0066 ppm	-0.0040 ppm	-0.0006 ppm	-0.0001 ppm	0.0131 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0075 ppm	-0.0061 ppm	-0.0003 ppm	0.0004 ppm	0.0145 ppm
Concentration per Run 2	0.0017 ppm	0.0002 ppm	0.0066 ppm	-0.0047 ppm	-0.0009 ppm	0.0002 ppm	0.0142 ppm
Concentration per Run 3	0.0007 ppm	0.0004 ppm	0.0057 ppm	-0.0012 ppm	-0.0008 ppm	-0.0007 ppm	0.0107 ppm
Concentration RSD	130.9 %	48.1 %	13.1 %	63.7 %	48.5 %	954.6 %	15.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	0.0300 ppm	9.4141 ppm	0.0002 ppm	0.0016 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0035 ppm	0.0316 ppm	9.4830 ppm	0.0003 ppm	0.0015 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0301 ppm	9.4393 ppm	0.0002 ppm	0.0017 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0025 ppm	0.0285 ppm	9.3198 ppm	0.0002 ppm	0.0016 ppm	-0.0008 ppm	0.0000 ppm
Concentration RSD	91.2 %	5.1 %	0.9 %	33.2 %	4.8 %	266.5 %	73.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	141.4737 %	116.0692 %	121.9135 %	100.1267 %	100.3575 %	99.9931 %
Concentration per Run 1	0.0007 ppm	146.5333 %	116.2027 %	124.0035 %	99.5528 %	99.9823 %	100.2809 %
Concentration per Run 2	0.0005 ppm	141.5019 %	116.0250 %	121.3531 %	100.4507 %	100.2696 %	99.7877 %
Concentration per Run 3	0.0008 ppm	136.3859 %	115.9798 %	120.3838 %	100.3768 %	100.8207 %	99.9106 %
Concentration RSD	22.9 %	3.6 %	0.1 %	1.5 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: xLDR 20 AS
Analysis started at: 6/15/2024 10:03:33 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0161 ppm	75.0601 ppm	-0.0133 ppm	0.0000 ppm	0.0000 ppm	0.0095 ppm
Concentration per Run 1	0.0003 ppm	0.0241 ppm	74.9310 ppm	-0.0141 ppm	0.0000 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 2	-0.0001 ppm	0.0115 ppm	75.8598 ppm	-0.0121 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 3	0.0005 ppm	0.0127 ppm	74.3895 ppm	-0.0138 ppm	0.0000 ppm	0.0000 ppm	0.0113 ppm
Concentration RSD	138.6 %	43.2 %	1.0 %	8.1 %	39.9 %	550.4 %	18.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0218 ppm	0.0548 ppm	0.0009 ppm
Concentration per Run 1	-0.0004 ppm	-0.0004 ppm	-0.0003 ppm	0.0004 ppm	0.0199 ppm	0.0727 ppm	0.0010 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0231 ppm	0.0492 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0226 ppm	0.0425 ppm	0.0000 ppm
Concentration RSD	42.1 %	293.1 %	228.9 %	28.8 %	8.0 %	29.0 %	101.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0020 ppm	0.0034 ppm	-0.0004 ppm	-0.0133 ppm	-0.0008 ppm	-0.0002 ppm	0.0031 ppm
Concentration per Run 1	0.0012 ppm	0.0034 ppm	-0.0007 ppm	-0.0137 ppm	-0.0004 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	0.0024 ppm	0.0034 ppm	-0.0001 ppm	-0.0126 ppm	-0.0020 ppm	-0.0001 ppm	0.0046 ppm
Concentration per Run 3	0.0024 ppm	0.0034 ppm	-0.0004 ppm	-0.0137 ppm	0.0000 ppm	-0.0006 ppm	0.0001 ppm
Concentration RSD	32.9 %	0.6 %	73.5 %	5.0 %	126.8 %	199.9 %	83.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0025 ppm	0.0104 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 1	0.0030 ppm	-0.0019 ppm	0.0105 ppm	0.0003 ppm	-0.0003 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	-0.0028 ppm	0.0103 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 3	-0.0005 ppm	-0.0027 ppm	0.0105 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	0.0003 ppm
Concentration RSD	132.7 %	18.2 %	1.1 %	78.8 %	22.1 %	44.5 %	79.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	109.4991 %	108.8265 %	106.8500 %	101.2410 %	102.0304 %	101.1571 %
Concentration per Run 1	0.0012 ppm	108.0602 %	108.2313 %	106.1912 %	101.0676 %	101.8310 %	101.2177 %
Concentration per Run 2	0.0007 ppm	109.0216 %	108.7775 %	106.9915 %	100.9777 %	102.0989 %	101.1047 %
Concentration per Run 3	0.0009 ppm	111.4155 %	109.4708 %	107.3673 %	101.6778 %	102.1613 %	101.1490 %
Concentration RSD	24.3 %	1.6 %	0.6 %	0.6 %	0.4 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: xLDR 20 PPM AS
Analysis started at: 6/15/2024 10:12:00 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0082 ppm	16.2540 ppm	-0.0033 ppm	-0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	0.0002 ppm	0.0098 ppm	16.0799 ppm	-0.0050 ppm	-0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	0.0003 ppm	0.0099 ppm	16.2439 ppm	-0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0053 ppm
Concentration per Run 3	0.0000 ppm	0.0049 ppm	16.4381 ppm	-0.0026 ppm	-0.0001 ppm	0.0000 ppm	0.0086 ppm
Concentration RSD	127.1 %	35.3 %	1.1 %	45.6 %	29.7 %	134.2 %	23.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm	0.0047 ppm	0.0186 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	-0.0009 ppm	0.0052 ppm	0.0211 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0030 ppm	0.0159 ppm	-0.0017 ppm
Concentration per Run 3	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	-0.0007 ppm	0.0059 ppm	0.0188 ppm	0.0014 ppm
Concentration RSD	41.4 %	51.5 %	112.5 %	32.1 %	32.2 %	13.9 %	614.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0010 ppm	-0.0011 ppm	-0.0230 ppm	-0.0006 ppm	-0.0013 ppm	0.0022 ppm
Concentration per Run 1	0.0013 ppm	0.0007 ppm	-0.0010 ppm	-0.0262 ppm	-0.0008 ppm	-0.0014 ppm	0.0006 ppm
Concentration per Run 2	0.0009 ppm	0.0012 ppm	-0.0009 ppm	-0.0172 ppm	-0.0006 ppm	-0.0014 ppm	0.0011 ppm
Concentration per Run 3	0.0018 ppm	0.0010 ppm	-0.0013 ppm	-0.0256 ppm	-0.0004 ppm	-0.0010 ppm	0.0048 ppm
Concentration RSD	36.4 %	28.0 %	17.8 %	22.0 %	38.2 %	19.2 %	105.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	-0.0033 ppm	0.0028 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0043 ppm	-0.0003 ppm	0.0031 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	-0.0039 ppm	0.0029 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0031 ppm	-0.0057 ppm	0.0025 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration RSD	117.1 %	83.4 %	10.9 %	152.2 %	101.1 %	6.7 %	253.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	139.0315 %	117.2813 %	121.9755 %	100.1509 %	101.2685 %	100.3748 %
Concentration per Run 1	0.0004 ppm	143.5145 %	118.0454 %	123.9761 %	99.7317 %	101.0912 %	100.6411 %
Concentration per Run 2	0.0006 ppm	138.1924 %	118.5862 %	121.8556 %	99.7885 %	102.7354 %	100.4988 %
Concentration per Run 3	0.0003 ppm	135.3875 %	115.2123 %	120.0949 %	100.9324 %	99.9789 %	99.9844 %
Concentration RSD	33.0 %	3.0 %	1.5 %	1.6 %	0.7 %	1.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LDR 10 AS
Analysis started at: 6/15/2024 10:17:40 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0045 ppm	9.6033 ppm	-0.0026 ppm	0.0000 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 1	-0.0002 ppm	-0.0006 ppm	9.6375 ppm	-0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0071 ppm
Concentration per Run 2	-0.0001 ppm	0.0107 ppm	9.5984 ppm	-0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 3	-0.0007 ppm	0.0035 ppm	9.5739 ppm	-0.0031 ppm	-0.0001 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	106.1 %	126.3 %	0.3 %	25.0 %	1,006.1 %	168.7 %	15.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0040 ppm	0.0343 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	-0.0005 ppm	-0.0001 ppm	-0.0002 ppm	0.0047 ppm	0.0304 ppm	-0.0012 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0034 ppm	0.0312 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0004 ppm	0.0038 ppm	0.0414 ppm	0.0012 ppm
Concentration RSD	21.8 %	413.1 %	73.4 %	586.6 %	16.9 %	17.9 %	1,275.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0018 ppm	0.0005 ppm	-0.0017 ppm	-0.0282 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0022 ppm	0.0004 ppm	-0.0014 ppm	-0.0233 ppm	-0.0004 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 2	0.0028 ppm	0.0004 ppm	-0.0018 ppm	-0.0354 ppm	-0.0008 ppm	-0.0011 ppm	0.0013 ppm
Concentration per Run 3	0.0003 ppm	0.0007 ppm	-0.0019 ppm	-0.0261 ppm	0.0002 ppm	-0.0004 ppm	0.0008 ppm
Concentration RSD	74.0 %	32.2 %	17.6 %	22.5 %	158.0 %	364.4 %	278.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0064 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	-0.0056 ppm	0.0007 ppm	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	0.0011 ppm	-0.0062 ppm	0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0017 ppm	-0.0074 ppm	-0.0010 ppm	0.0000 ppm	-0.0004 ppm	-0.0011 ppm	0.0002 ppm
Concentration RSD	382.3 %	14.6 %	649.4 %	224.9 %	50.3 %	69.0 %	339.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	106.4238 %	107.4202 %	105.6425 %	99.1988 %	101.3115 %	99.8638 %
Concentration per Run 1	0.0007 ppm	104.5410 %	106.9534 %	105.6776 %	98.7119 %	101.4882 %	100.5568 %
Concentration per Run 2	0.0005 ppm	106.5996 %	107.0983 %	105.4393 %	99.3954 %	101.0772 %	99.5371 %
Concentration per Run 3	0.0003 ppm	108.1306 %	108.2088 %	105.8106 %	99.4890 %	101.3691 %	99.4974 %
Concentration RSD	33.8 %	1.7 %	0.6 %	0.2 %	0.4 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LDR 500 Na
Analysis started at: 6/15/2024 10:21:41 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0012 ppm	0.0071 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 1	0.0001 ppm	-0.0028 ppm	0.0080 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0125 ppm
Concentration per Run 2	-0.0003 ppm	0.0033 ppm	0.0082 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 3	0.0001 ppm	-0.0043 ppm	0.0050 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	794.9 %	325.0 %	25.2 %	117.5 %	365.2 %	176.1 %	32.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0040 ppm	0.2679 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0045 ppm	0.2597 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0005 ppm	0.0050 ppm	0.2686 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0024 ppm	0.2753 ppm	0.0000 ppm
Concentration RSD	97.6 %	121.1 %	194.4 %	23.3 %	34.5 %	2.9 %	147.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0011 ppm	0.0000 ppm	-0.0017 ppm	**484.3441 ppm**	-0.0004 ppm	-0.0005 ppm	-0.0023 ppm
Concentration per Run 1	0.0006 ppm	0.0000 ppm	-0.0016 ppm	487.6715 ppm	-0.0010 ppm	-0.0006 ppm	-0.0016 ppm
Concentration per Run 2	0.0012 ppm	0.0000 ppm	-0.0015 ppm	483.5061 ppm	0.0007 ppm	-0.0004 ppm	-0.0015 ppm
Concentration per Run 3	0.0013 ppm	0.0001 ppm	-0.0019 ppm	481.8547 ppm	-0.0009 ppm	-0.0003 ppm	-0.0037 ppm
Concentration RSD	35.6 %	1,079.3 %	11.9 %	0.6 %	236.8 %	29.6 %	55.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	-0.0055 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0017 ppm	-0.0056 ppm	0.0007 ppm	0.0001 ppm	-0.0004 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run 2	-0.0019 ppm	-0.0054 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0055 ppm	0.0004 ppm	0.0001 ppm	-0.0006 ppm	0.0011 ppm	0.0000 ppm
Concentration RSD	92.5 %	1.6 %	100.3 %	499.5 %	25.2 %	167.0 %	183.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	94.5669 %	103.3250 %	90.7401 %	87.2420 %	97.1877 %	90.8149 %
Concentration per Run 1	0.0010 ppm	93.1657 %	102.2607 %	90.2241 %	87.0676 %	96.9692 %	91.0887 %
Concentration per Run 2	0.0011 ppm	94.7162 %	103.3966 %	90.9269 %	87.2198 %	96.8958 %	90.8800 %
Concentration per Run 3	0.0008 ppm	95.8189 %	104.3178 %	91.0691 %	87.4385 %	97.6980 %	90.4760 %
Concentration RSD	14.1 %	1.4 %	1.0 %	0.5 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 10:30:26 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5135 ppm	0.5035 ppm	0.4828 ppm	0.5060 ppm	0.5056 ppm	0.5121 ppm	0.4957 ppm
Concentration per Run 1	0.5171 ppm	0.5121 ppm	0.4872 ppm	0.5089 ppm	0.5085 ppm	0.5144 ppm	0.4984 ppm
Concentration per Run 2	0.5133 ppm	0.4990 ppm	0.4839 ppm	0.5058 ppm	0.5062 ppm	0.5117 ppm	0.4964 ppm
Concentration per Run 3	0.5101 ppm	0.4994 ppm	0.4774 ppm	0.5034 ppm	0.5020 ppm	0.5103 ppm	0.4922 ppm
Recovery Percentage 1	102.707 %	100.696 %	96.567 %	101.208 %	101.115 %	102.424 %	99.132 %
Concentration RSD	0.7 %	1.5 %	1.0 %	0.5 %	0.7 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5123 ppm	0.5195 ppm	0.5011 ppm	0.5059 ppm	0.5187 ppm	5.3679 ppm	0.5060 ppm
Concentration per Run 1	0.5173 ppm	0.5238 ppm	0.5065 ppm	0.5116 ppm	0.5241 ppm	5.4107 ppm	0.5127 ppm
Concentration per Run 2	0.5125 ppm	0.5193 ppm	0.5009 ppm	0.5061 ppm	0.5206 ppm	5.3783 ppm	0.5031 ppm
Concentration per Run 3	0.5070 ppm	0.5155 ppm	0.4958 ppm	0.5001 ppm	0.5113 ppm	5.3146 ppm	0.5022 ppm
Recovery Percentage 1	102.456 %	103.909 %	100.219 %	101.184 %	103.732 %	107.357 %	101.199 %
Concentration RSD	1.0 %	0.8 %	1.1 %	1.1 %	1.3 %	0.9 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5101 ppm	0.4983 ppm	0.5088 ppm	10.3006 ppm	0.5164 ppm	0.5004 ppm	0.4988 ppm
Concentration per Run 1	0.5161 ppm	0.5000 ppm	0.5076 ppm	10.3150 ppm	0.5229 ppm	0.5039 ppm	0.5023 ppm
Concentration per Run 2	0.5089 ppm	0.4984 ppm	0.5095 ppm	10.3297 ppm	0.5182 ppm	0.5006 ppm	0.4994 ppm
Concentration per Run 3	0.5053 ppm	0.4964 ppm	0.5095 ppm	10.2571 ppm	0.5082 ppm	0.4965 ppm	0.4946 ppm
Recovery Percentage 1	102.019 %	99.651 %	101.768 %	103.006 %	103.287 %	100.073 %	99.755 %
Concentration RSD	1.1 %	0.4 %	0.2 %	0.4 %	1.5 %	0.7 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4878 ppm	5.2429 ppm	0.5167 ppm	0.5112 ppm	0.5090 ppm	0.5118 ppm	0.5007 ppm
Concentration per Run 1	0.4917 ppm	5.2848 ppm	0.5160 ppm	0.5112 ppm	0.5133 ppm	0.5154 ppm	0.5055 ppm
Concentration per Run 2	0.4877 ppm	5.2412 ppm	0.5192 ppm	0.5131 ppm	0.5080 ppm	0.5114 ppm	0.5012 ppm
Concentration per Run 3	0.4840 ppm	5.2028 ppm	0.5150 ppm	0.5092 ppm	0.5057 ppm	0.5086 ppm	0.4954 ppm
Recovery Percentage 1	97.563 %	99.865 %	103.348 %	102.233 %	101.804 %	102.366 %	100.141 %
Concentration RSD	0.8 %	0.8 %	0.4 %	0.4 %	0.8 %	0.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5125 ppm	108.5944 %	110.0237 %	105.9934 %	97.2078 %	100.8629 %	97.4892 %
Concentration per Run 1	0.5173 ppm	107.2426 %	109.5168 %	105.3080 %	97.0821 %	100.6941 %	97.7173 %
Concentration per Run 2	0.5150 ppm	108.2835 %	109.8631 %	106.0213 %	96.8405 %	100.7850 %	97.2393 %
Concentration per Run 3	0.5052 ppm	110.2570 %	110.6912 %	106.6508 %	97.7007 %	101.1094 %	97.5110 %
Recovery Percentage 1	102.493 %						
Concentration RSD	1.3 %	1.4 %	0.5 %	0.6 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 10:34:28 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0114 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0050 ppm
Concentration per Run 1	-0.0002 ppm	0.0139 ppm	0.0016 ppm	-0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0067 ppm
Concentration per Run 2	-0.0003 ppm	0.0092 ppm	-0.0017 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 3	0.0002 ppm	0.0111 ppm	0.0026 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	0.0072 ppm
Recovery Percentage 1	-1.660 %	11.397 %	28.351 %	1.647 %	-0.444 %	2.509 %	5.011 %
Concentration RSD	219.1 %	21.1 %	264.5 %	316.1 %	225.6 %	21.8 %	66.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0081 ppm	-0.0016 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0091 ppm	0.0091 ppm	0.0016 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0006 ppm	0.0008 ppm	0.0077 ppm	0.0011 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0003 ppm	0.0005 ppm	0.0075 ppm	-0.0149 ppm	-0.0017 ppm
Recovery Percentage 1	1.792 %	1.711 %	-1.442 %	5.784 %	16.196 %	-0.064 %	-5.952 %
Concentration RSD	76.4 %	110.8 %	316.6 %	29.4 %	10.5 %	770.9 %	323.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0002 ppm	0.0003 ppm	-0.0177 ppm	-0.0005 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0020 ppm	0.0002 ppm	0.0001 ppm	-0.0170 ppm	-0.0001 ppm	0.0017 ppm	0.0016 ppm
Concentration per Run 2	-0.0007 ppm	0.0003 ppm	0.0004 ppm	-0.0196 ppm	-0.0011 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 3	0.0018 ppm	0.0001 ppm	0.0006 ppm	-0.0165 ppm	-0.0003 ppm	-0.0008 ppm	0.0029 ppm
Recovery Percentage 1	1.004 %	2.056 %	0.694 %	-0.885 %	-1.989 %	0.811 %	2.812 %
Concentration RSD	149.1 %	46.9 %	70.4 %	9.4 %	113.8 %	1,709.4 %	113.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0078 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	-0.0080 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	0.0011 ppm	-0.0067 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	-0.0013 ppm	-0.0087 ppm	0.0011 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-4.129 %	-1.558 %	0.722 %	0.852 %	0.131 %	-4.667 %	0.878 %
Concentration RSD	322.4 %	13.2 %	189.0 %	87.2 %	1,346.4 %	82.7 %	141.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	102.4124 %	104.3248 %	102.2169 %	97.8535 %	101.0788 %	98.9211 %
Concentration per Run 1	0.0012 ppm	100.6303 %	103.5579 %	101.6183 %	97.3535 %	100.5465 %	99.0499 %
Concentration per Run 2	0.0012 ppm	102.4516 %	104.2317 %	101.8646 %	97.9135 %	101.2479 %	98.6122 %
Concentration per Run 3	0.0009 ppm	104.1554 %	105.1849 %	103.1677 %	98.2935 %	101.4420 %	99.1011 %
Recovery Percentage 1	21.978 %						
Concentration RSD	11.9 %	1.7 %	0.8 %	0.8 %	0.5 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LLOQ 005 ZN
Analysis started at: 6/15/2024 10:40:53 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0056 ppm	0.0054 ppm	0.0056 ppm	0.0046 ppm	0.0049 ppm	0.0050 ppm	0.0159 ppm
Concentration per Run 1	0.0059 ppm	-0.0039 ppm	0.0039 ppm	0.0054 ppm	0.0051 ppm	0.0052 ppm	0.0143 ppm
Concentration per Run 2	0.0054 ppm	0.0106 ppm	0.0069 ppm	0.0042 ppm	0.0050 ppm	0.0050 ppm	0.0154 ppm
Concentration per Run 3	0.0054 ppm	0.0094 ppm	0.0058 ppm	0.0041 ppm	0.0047 ppm	0.0049 ppm	0.0179 ppm
Recovery Percentage 1	111.175 %	0.000 %	111.060 %	0.000 %	0.000 %	100.198 %	0.000 %
Concentration RSD	5.1 %	149.3 %	26.8 %	15.7 %	4.4 %	3.1 %	11.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0052 ppm	0.0056 ppm	0.0050 ppm	0.0057 ppm	0.0094 ppm	0.0484 ppm	0.0006 ppm
Concentration per Run 1	0.0053 ppm	0.0058 ppm	0.0051 ppm	0.0059 ppm	0.0087 ppm	0.0713 ppm	0.0002 ppm
Concentration per Run 2	0.0052 ppm	0.0055 ppm	0.0052 ppm	0.0054 ppm	0.0090 ppm	0.0607 ppm	0.0008 ppm
Concentration per Run 3	0.0051 ppm	0.0054 ppm	0.0047 ppm	0.0056 ppm	0.0103 ppm	0.0132 ppm	0.0008 ppm
Recovery Percentage 1	104.642 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.4 %	4.2 %	5.5 %	4.0 %	9.2 %	63.9 %	53.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0065 ppm	0.0050 ppm	0.0037 ppm	0.0786 ppm	0.0049 ppm	0.0049 ppm	0.0065 ppm
Concentration per Run 1	0.0062 ppm	0.0051 ppm	0.0042 ppm	0.0822 ppm	0.0052 ppm	0.0052 ppm	0.0054 ppm
Concentration per Run 2	0.0068 ppm	0.0047 ppm	0.0035 ppm	0.0826 ppm	0.0054 ppm	0.0038 ppm	0.0106 ppm
Concentration per Run 3	0.0065 ppm	0.0051 ppm	0.0035 ppm	0.0709 ppm	0.0042 ppm	0.0057 ppm	0.0035 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.7 %	4.5 %	11.3 %	8.5 %	13.1 %	20.6 %	56.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0057 ppm	0.0491 ppm	0.0043 ppm	0.0050 ppm	0.0051 ppm	0.0047 ppm	0.0053 ppm
Concentration per Run 1	0.0048 ppm	0.0508 ppm	0.0041 ppm	0.0051 ppm	0.0051 ppm	0.0045 ppm	0.0055 ppm
Concentration per Run 2	0.0063 ppm	0.0492 ppm	0.0048 ppm	0.0052 ppm	0.0050 ppm	0.0040 ppm	0.0049 ppm
Concentration per Run 3	0.0059 ppm	0.0473 ppm	0.0042 ppm	0.0049 ppm	0.0051 ppm	0.0056 ppm	0.0054 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	14.2 %	3.6 %	8.6 %	3.3 %	1.1 %	17.0 %	5.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	106.2227 %	107.5702 %	104.0823 %	98.7380 %	101.4243 %	98.6321 %
Concentration per Run 1	0.0056 ppm	104.9986 %	105.4433 %	103.1783 %	99.1515 %	100.5126 %	98.4988 %
Concentration per Run 2	0.0056 ppm	106.3128 %	107.4921 %	104.4251 %	98.6731 %	101.7259 %	98.9336 %
Concentration per Run 3	0.0057 ppm	107.3569 %	109.7753 %	104.6436 %	98.3893 %	102.0344 %	98.4637 %
Recovery Percentage 1	112.385 %						
Concentration RSD	1.3 %	1.1 %	2.0 %	0.8 %	0.4 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LLOQ 01 BA CU Li Ni
Analysis started at: 6/15/2024 10:44:55 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0108 ppm	0.2756 ppm	0.0096 ppm	0.0103 ppm	0.0106 ppm	0.0103 ppm	0.1066 ppm
Concentration per Run 1	0.0105 ppm	0.2886 ppm	0.0100 ppm	0.0112 ppm	0.0107 ppm	0.0103 ppm	0.1076 ppm
Concentration per Run 2	0.0110 ppm	0.2718 ppm	0.0090 ppm	0.0098 ppm	0.0105 ppm	0.0102 ppm	0.1069 ppm
Concentration per Run 3	0.0109 ppm	0.2663 ppm	0.0098 ppm	0.0097 ppm	0.0105 ppm	0.0102 ppm	0.1054 ppm
Recovery Percentage 1	0.000 %	0.000 %	96.070 %	102.575 %	105.619 %	0.000 %	0.000 %
Concentration RSD	2.5 %	4.2 %	5.8 %	8.4 %	1.2 %	0.4 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0110 ppm	0.0115 ppm	0.0107 ppm	0.0114 ppm	0.2641 ppm	0.3759 ppm	**0.0136 ppm**
Concentration per Run 1	0.0110 ppm	0.0112 ppm	0.0108 ppm	0.0117 ppm	0.2671 ppm	0.3741 ppm	0.0154 ppm
Concentration per Run 2	0.0111 ppm	0.0118 ppm	0.0109 ppm	0.0113 ppm	0.2617 ppm	0.3716 ppm	0.0132 ppm
Concentration per Run 3	0.0108 ppm	0.0113 ppm	0.0103 ppm	0.0113 ppm	0.2634 ppm	0.3819 ppm	0.0122 ppm
Recovery Percentage 1	0.000 %	114.605 %	106.752 %	114.147 %	0.000 %	0.000 %	136.086 %
Concentration RSD	1.6 %	2.9 %	3.0 %	1.8 %	1.1 %	1.4 %	**12.0 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1138 ppm	0.0107 ppm	0.0092 ppm	0.2495 ppm	0.0106 ppm	0.0104 ppm	0.0134 ppm
Concentration per Run 1	0.1141 ppm	0.0108 ppm	0.0094 ppm	0.2489 ppm	0.0099 ppm	0.0107 ppm	0.0152 ppm
Concentration per Run 2	0.1146 ppm	0.0107 ppm	0.0088 ppm	0.2538 ppm	0.0110 ppm	0.0112 ppm	0.0118 ppm
Concentration per Run 3	0.1127 ppm	0.0105 ppm	0.0096 ppm	0.2457 ppm	0.0110 ppm	0.0094 ppm	0.0133 ppm
Recovery Percentage 1	0.000 %	106.623 %	92.360 %	0.000 %	106.054 %	104.093 %	0.000 %
Concentration RSD	0.9 %	1.1 %	4.4 %	1.6 %	6.1 %	8.7 %	12.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0096 ppm	0.0941 ppm	0.0107 ppm	0.0106 ppm	0.0106 ppm	0.0105 ppm	0.0105 ppm
Concentration per Run 1	0.0080 ppm	0.0964 ppm	0.0102 ppm	0.0110 ppm	0.0110 ppm	0.0101 ppm	0.0105 ppm
Concentration per Run 2	0.0110 ppm	0.0932 ppm	0.0109 ppm	0.0103 ppm	0.0103 ppm	0.0122 ppm	0.0106 ppm
Concentration per Run 3	0.0099 ppm	0.0927 ppm	0.0109 ppm	0.0105 ppm	0.0104 ppm	0.0092 ppm	0.0105 ppm
Recovery Percentage 1	96.280 %	0.000 %	106.529 %	106.296 %	105.606 %	104.950 %	105.243 %
Concentration RSD	16.0 %	2.1 %	3.8 %	3.3 %	3.9 %	15.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0110 ppm	102.1162 %	105.0336 %	103.2420 %	98.3072 %	101.9011 %	99.4370 %
Concentration per Run 1	0.0114 ppm	100.6245 %	104.2901 %	102.0259 %	97.9879 %	101.7353 %	99.2155 %
Concentration per Run 2	0.0109 ppm	101.9119 %	105.1892 %	103.7700 %	98.0974 %	101.9992 %	99.8696 %
Concentration per Run 3	0.0107 ppm	103.8121 %	105.6215 %	103.9301 %	98.8363 %	101.9689 %	99.2260 %
Recovery Percentage 1	109.816 %						
Concentration RSD	3.0 %	1.6 %	0.6 %	1.0 %	0.5 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LLOQ 05 FE Sb
Analysis started at: 6/15/2024 10:48:52 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	0.0537 ppm	0.0475 ppm	0.0492 ppm	0.0519 ppm	0.0504 ppm	0.1100 ppm
Concentration per Run 1	0.0530 ppm	0.0621 ppm	0.0492 ppm	0.0491 ppm	0.0518 ppm	0.0504 ppm	0.1090 ppm
Concentration per Run 2	0.0522 ppm	0.0512 ppm	0.0471 ppm	0.0492 ppm	0.0518 ppm	0.0503 ppm	0.1136 ppm
Concentration per Run 3	0.0512 ppm	0.0477 ppm	0.0462 ppm	0.0492 ppm	0.0519 ppm	0.0505 ppm	0.1073 ppm
Recovery Percentage 1	0.000 %	107.372 %	0.000 %	0.000 %	0.000 %	0.000 %	219.908 %
Concentration RSD	1.7 %	14.0 %	3.2 %	0.2 %	0.1 %	0.3 %	3.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0509 ppm	0.0530 ppm	0.0507 ppm	0.0525 ppm	0.0661 ppm	0.5663 ppm	0.0010 ppm
Concentration per Run 1	0.0518 ppm	0.0538 ppm	0.0516 ppm	0.0540 ppm	0.0669 ppm	0.6102 ppm	0.0001 ppm
Concentration per Run 2	0.0509 ppm	0.0528 ppm	0.0501 ppm	0.0523 ppm	0.0657 ppm	0.5318 ppm	0.0017 ppm
Concentration per Run 3	0.0499 ppm	0.0525 ppm	0.0504 ppm	0.0513 ppm	0.0658 ppm	0.5568 ppm	0.0011 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	132.192 %	22.652 %	0.000 %
Concentration RSD	1.9 %	1.4 %	1.6 %	2.5 %	1.0 %	7.1 %	85.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0535 ppm	0.0509 ppm	0.0508 ppm	0.9938 ppm	0.0519 ppm	0.0518 ppm	0.0468 ppm
Concentration per Run 1	0.0556 ppm	0.0511 ppm	0.0512 ppm	0.9992 ppm	0.0529 ppm	0.0526 ppm	0.0493 ppm
Concentration per Run 2	0.0517 ppm	0.0511 ppm	0.0505 ppm	0.9948 ppm	0.0516 ppm	0.0525 ppm	0.0461 ppm
Concentration per Run 3	0.0531 ppm	0.0505 ppm	0.0505 ppm	0.9875 ppm	0.0510 ppm	0.0504 ppm	0.0452 ppm
Recovery Percentage 1	106.922 %	0.000 %	0.000 %	99.385 %	0.000 %	0.000 %	93.686 %
Concentration RSD	3.8 %	0.7 %	0.8 %	0.6 %	1.9 %	2.4 %	4.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0470 ppm	0.5274 ppm	0.0439 ppm	0.0503 ppm	0.0515 ppm	0.0510 ppm	0.0506 ppm
Concentration per Run 1	0.0445 ppm	0.5372 ppm	0.0435 ppm	0.0503 ppm	0.0525 ppm	0.0511 ppm	0.0514 ppm
Concentration per Run 2	0.0495 ppm	0.5253 ppm	0.0425 ppm	0.0501 ppm	0.0510 ppm	0.0513 ppm	0.0506 ppm
Concentration per Run 3	0.0470 ppm	0.5196 ppm	0.0456 ppm	0.0504 ppm	0.0509 ppm	0.0506 ppm	0.0498 ppm
Recovery Percentage 1	0.000 %	105.472 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	5.3 %	1.7 %	3.6 %	0.3 %	1.6 %	0.7 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0508 ppm	108.7665 %	109.9292 %	106.3499 %	99.0804 %	102.3690 %	99.7267 %
Concentration per Run 1	0.0518 ppm	106.6899 %	110.0694 %	105.1767 %	98.5580 %	103.1063 %	99.3732 %
Concentration per Run 2	0.0506 ppm	109.5018 %	109.6016 %	106.9426 %	99.7840 %	101.9526 %	100.3562 %
Concentration per Run 3	0.0499 ppm	110.1078 %	110.1166 %	106.9306 %	98.8992 %	102.0482 %	99.4506 %
Recovery Percentage 1	101.539 %						
Concentration RSD	1.9 %	1.7 %	0.3 %	1.0 %	0.6 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LLOQ 05 FE
Analysis started at: 6/15/2024 10:52:48 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0523 ppm	0.0578 ppm	0.0477 ppm	0.0495 ppm	0.0527 ppm	0.0518 ppm	0.0540 ppm
Concentration per Run 1	0.0526 ppm	0.0547 ppm	0.0481 ppm	0.0510 ppm	0.0528 ppm	0.0515 ppm	0.0534 ppm
Concentration per Run 2	0.0522 ppm	0.0664 ppm	0.0462 ppm	0.0495 ppm	0.0525 ppm	0.0521 ppm	0.0534 ppm
Concentration per Run 3	0.0520 ppm	0.0523 ppm	0.0489 ppm	0.0480 ppm	0.0527 ppm	0.0517 ppm	0.0553 ppm
Recovery Percentage 1	0.000 %	115.565 %	0.000 %	0.000 %	0.000 %	0.000 %	108.053 %
Concentration RSD	0.6 %	13.0 %	2.9 %	3.1 %	0.3 %	0.7 %	2.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.0533 ppm	0.0511 ppm	0.0520 ppm	0.0568 ppm	0.5690 ppm	0.0562 ppm
Concentration per Run 1	0.0520 ppm	0.0538 ppm	0.0518 ppm	0.0526 ppm	0.0575 ppm	0.5777 ppm	0.0589 ppm
Concentration per Run 2	0.0507 ppm	0.0532 ppm	0.0508 ppm	0.0518 ppm	0.0572 ppm	0.5641 ppm	0.0541 ppm
Concentration per Run 3	0.0504 ppm	0.0529 ppm	0.0507 ppm	0.0516 ppm	0.0557 ppm	0.5654 ppm	0.0556 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	113.648 %	22.762 %	0.000 %
Concentration RSD	1.7 %	0.9 %	1.1 %	1.1 %	1.7 %	1.3 %	4.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0520 ppm	0.0518 ppm	0.0497 ppm	1.0372 ppm	0.0519 ppm	0.0515 ppm	0.0478 ppm
Concentration per Run 1	0.0528 ppm	0.0520 ppm	0.0499 ppm	1.0415 ppm	0.0529 ppm	0.0519 ppm	0.0519 ppm
Concentration per Run 2	0.0520 ppm	0.0518 ppm	0.0492 ppm	1.0407 ppm	0.0514 ppm	0.0515 ppm	0.0429 ppm
Concentration per Run 3	0.0513 ppm	0.0517 ppm	0.0499 ppm	1.0295 ppm	0.0514 ppm	0.0510 ppm	0.0486 ppm
Recovery Percentage 1	104.072 %	0.000 %	0.000 %	103.724 %	0.000 %	0.000 %	95.636 %
Concentration RSD	1.5 %	0.3 %	0.8 %	0.6 %	1.7 %	0.9 %	9.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0491 ppm	0.5490 ppm	0.0486 ppm	0.0543 ppm	0.0505 ppm	0.0507 ppm	0.0499 ppm
Concentration per Run 1	0.0469 ppm	0.5583 ppm	0.0487 ppm	0.0540 ppm	0.0515 ppm	0.0527 ppm	0.0504 ppm
Concentration per Run 2	0.0500 ppm	0.5471 ppm	0.0496 ppm	0.0548 ppm	0.0502 ppm	0.0505 ppm	0.0498 ppm
Concentration per Run 3	0.0504 ppm	0.5417 ppm	0.0477 ppm	0.0542 ppm	0.0500 ppm	0.0490 ppm	0.0496 ppm
Recovery Percentage 1	0.000 %	109.807 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	3.9 %	1.5 %	1.9 %	0.8 %	1.6 %	3.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0514 ppm	105.4767 %	106.9005 %	105.0152 %	99.3392 %	101.7410 %	100.1850 %
Concentration per Run 1	0.0527 ppm	103.3069 %	105.9772 %	104.3205 %	98.3367 %	101.0697 %	100.4492 %
Concentration per Run 2	0.0505 ppm	106.2314 %	107.1863 %	105.6642 %	100.2181 %	102.1390 %	100.5540 %
Concentration per Run 3	0.0511 ppm	106.8919 %	107.5381 %	105.0608 %	99.4627 %	102.0144 %	99.5518 %
Recovery Percentage 1	102.864 %						
Concentration RSD	2.2 %	1.8 %	0.8 %	0.6 %	1.0 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: LLOQ .1 CA
Analysis started at: 6/15/2024 10:56:47 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.1178 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.1009 ppm
Concentration per Run 1	0.0002 ppm	0.1159 ppm	0.0017 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.1026 ppm
Concentration per Run 2	-0.0004 ppm	0.1167 ppm	-0.0007 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.1006 ppm
Concentration per Run 3	-0.0004 ppm	0.1209 ppm	0.0002 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0995 ppm
Recovery Percentage 1	0.000 %	117.844 %	0.000 %	0.000 %	0.000 %	0.000 %	100.869 %
Concentration RSD	149.9 %	2.3 %	302.0 %	663.9 %	301.1 %	3,034.3 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0004 ppm	0.0012 ppm	0.0024 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0004 ppm	0.0004 ppm	0.0117 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0005 ppm	0.0014 ppm	0.0255 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0018 ppm	-0.0301 ppm	0.0011 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	292.2 %	118.6 %	38.1 %	22.2 %	56.5 %	1,211.9 %	19.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1096 ppm	0.0001 ppm	-0.0015 ppm	-0.0535 ppm	-0.0008 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.1118 ppm	0.0000 ppm	-0.0012 ppm	-0.0545 ppm	-0.0006 ppm	0.0007 ppm	-0.0008 ppm
Concentration per Run 2	0.1087 ppm	0.0002 ppm	-0.0014 ppm	-0.0544 ppm	-0.0008 ppm	0.0008 ppm	-0.0020 ppm
Concentration per Run 3	0.1084 ppm	0.0000 ppm	-0.0019 ppm	-0.0518 ppm	-0.0010 ppm	-0.0018 ppm	0.0006 ppm
Recovery Percentage 1	109.616 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.7 %	104.5 %	24.0 %	2.8 %	22.6 %	1,481.1 %	183.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	-0.0065 ppm	-0.0010 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0036 ppm	-0.0066 ppm	-0.0010 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	-0.0026 ppm	-0.0061 ppm	-0.0006 ppm	-0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0067 ppm	-0.0015 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1,051.5 %	5.3 %	45.0 %	296.8 %	58.0 %	131.5 %	99.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	103.8771 %	105.6064 %	103.4263 %	99.0557 %	101.8195 %	100.4752 %
Concentration per Run 1	0.0002 ppm	101.5969 %	104.8608 %	103.0182 %	97.8738 %	101.3821 %	101.1323 %
Concentration per Run 2	0.0001 ppm	104.2708 %	105.4855 %	103.2618 %	99.6258 %	101.6419 %	100.0434 %
Concentration per Run 3	0.0000 ppm	105.7636 %	106.4729 %	103.9989 %	99.6675 %	102.4344 %	100.2499 %
Recovery Percentage 1	0.000 %						
Concentration RSD	91.4 %	2.0 %	0.8 %	0.5 %	1.0 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 11:00:44 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5160 ppm	0.5091 ppm	0.4829 ppm	0.5122 ppm	0.5064 ppm	0.5138 ppm	0.4966 ppm
Concentration per Run 1	0.5203 ppm	0.5150 ppm	0.4864 ppm	0.5186 ppm	0.5059 ppm	0.5162 ppm	0.5009 ppm
Concentration per Run 2	0.5164 ppm	0.5059 ppm	0.4813 ppm	0.5119 ppm	0.5073 ppm	0.5137 ppm	0.4980 ppm
Concentration per Run 3	0.5113 ppm	0.5063 ppm	0.4810 ppm	0.5061 ppm	0.5058 ppm	0.5115 ppm	0.4910 ppm
Recovery Percentage 1	103.194 %	101.819 %	96.577 %	102.441 %	101.270 %	102.754 %	99.329 %
Concentration RSD	0.9 %	1.0 %	0.6 %	1.2 %	0.2 %	0.5 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5151 ppm	0.5228 ppm	0.5036 ppm	0.5100 ppm	0.5229 ppm	5.3572 ppm	0.5058 ppm
Concentration per Run 1	0.5218 ppm	0.5298 ppm	0.5111 ppm	0.5180 ppm	0.5267 ppm	5.4371 ppm	0.5089 ppm
Concentration per Run 2	0.5141 ppm	0.5215 ppm	0.5014 ppm	0.5111 ppm	0.5208 ppm	5.2902 ppm	0.5026 ppm
Concentration per Run 3	0.5092 ppm	0.5173 ppm	0.4983 ppm	0.5008 ppm	0.5213 ppm	5.3443 ppm	0.5059 ppm
Recovery Percentage 1	103.014 %	104.569 %	100.725 %	101.998 %	104.581 %	107.144 %	101.157 %
Concentration RSD	1.2 %	1.2 %	1.3 %	1.7 %	0.6 %	1.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5072 ppm	0.4985 ppm	0.5080 ppm	10.2754 ppm	0.5173 ppm	0.4987 ppm	0.4997 ppm
Concentration per Run 1	0.5124 ppm	0.4999 ppm	0.5088 ppm	10.3039 ppm	0.5271 ppm	0.5032 ppm	0.5026 ppm
Concentration per Run 2	0.5070 ppm	0.4990 ppm	0.5079 ppm	10.2840 ppm	0.5136 ppm	0.4992 ppm	0.5003 ppm
Concentration per Run 3	0.5021 ppm	0.4967 ppm	0.5072 ppm	10.2383 ppm	0.5111 ppm	0.4935 ppm	0.4961 ppm
Recovery Percentage 1	101.430 %	99.706 %	101.595 %	102.754 %	103.457 %	99.736 %	99.938 %
Concentration RSD	1.0 %	0.3 %	0.2 %	0.3 %	1.7 %	1.0 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4884 ppm	5.2784 ppm	0.5179 ppm	0.5142 ppm	0.5104 ppm	0.5104 ppm	0.5038 ppm
Concentration per Run 1	0.4907 ppm	5.3464 ppm	0.5191 ppm	0.5170 ppm	0.5184 ppm	0.5127 ppm	0.5109 ppm
Concentration per Run 2	0.4894 ppm	5.2688 ppm	0.5139 ppm	0.5128 ppm	0.5080 ppm	0.5095 ppm	0.5026 ppm
Concentration per Run 3	0.4851 ppm	5.2201 ppm	0.5207 ppm	0.5126 ppm	0.5048 ppm	0.5091 ppm	0.4979 ppm
Recovery Percentage 1	97.677 %	100.541 %	103.574 %	102.834 %	102.080 %	102.086 %	100.758 %
Concentration RSD	0.6 %	1.2 %	0.7 %	0.5 %	1.4 %	0.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5129 ppm	108.2135 %	109.6265 %	106.5069 %	96.8546 %	100.6107 %	98.3855 %
Concentration per Run 1	0.5219 ppm	106.3545 %	109.5162 %	105.8066 %	96.3087 %	100.8733 %	98.4544 %
Concentration per Run 2	0.5093 ppm	108.2349 %	109.5565 %	106.4446 %	96.8228 %	100.5006 %	98.3273 %
Concentration per Run 3	0.5074 ppm	110.0511 %	109.8069 %	107.2695 %	97.4324 %	100.4582 %	98.3749 %
Recovery Percentage 1	102.580 %						
Concentration RSD	1.5 %	1.7 %	0.1 %	0.7 %	0.6 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 11:04:41 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0075 ppm	-0.0007 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 1	-0.0002 ppm	0.0107 ppm	-0.0009 ppm	0.0020 ppm	-0.0001 ppm	0.0002 ppm	0.0054 ppm
Concentration per Run 2	0.0004 ppm	-0.0043 ppm	-0.0004 ppm	-0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0036 ppm
Concentration per Run 3	0.0001 ppm	0.0160 ppm	-0.0009 ppm	0.0021 ppm	0.0001 ppm	0.0002 ppm	0.0026 ppm
Recovery Percentage 1	1.270 %	7.477 %	-23.619 %	3.653 %	0.675 %	3.670 %	3.888 %
Concentration RSD	319.5 %	140.8 %	43.5 %	146.6 %	173.2 %	22.1 %	36.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0007 ppm	0.0080 ppm	0.0116 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0004 ppm	0.0011 ppm	0.0089 ppm	0.0097 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0008 ppm	0.0005 ppm	0.0072 ppm	0.0305 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0080 ppm	-0.0052 ppm	0.0008 ppm
Recovery Percentage 1	1.003 %	2.221 %	-3.522 %	7.130 %	16.042 %	0.465 %	12.414 %
Concentration RSD	92.0 %	28.0 %	138.6 %	43.8 %	10.8 %	154.2 %	150.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0004 ppm	-0.0002 ppm	-0.0302 ppm	-0.0004 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	-0.0026 ppm	0.0004 ppm	-0.0005 ppm	-0.0315 ppm	0.0003 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.0003 ppm	-0.0312 ppm	-0.0001 ppm	-0.0001 ppm	-0.0026 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	-0.0004 ppm	-0.0280 ppm	-0.0014 ppm	0.0001 ppm	-0.0017 ppm
Recovery Percentage 1	-0.668 %	3.854 %	-0.361 %	-1.512 %	-1.656 %	-0.207 %	-3.243 %
Concentration RSD	246.2 %	21.5 %	256.8 %	6.3 %	217.5 %	614.0 %	64.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	-0.0063 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0044 ppm	-0.0056 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0023 ppm	-0.0067 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0018 ppm	0.0004 ppm
Concentration per Run 3	0.0031 ppm	-0.0067 ppm	-0.0004 ppm	0.0003 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	32.512 %	-1.267 %	0.562 %	1.183 %	-1.345 %	-0.871 %	1.405 %
Concentration RSD	32.5 %	10.2 %	329.3 %	180.9 %	127.3 %	1,093.5 %	197.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	103.0245 %	104.4122 %	102.5115 %	98.3769 %	100.5958 %	99.0285 %
Concentration per Run 1	0.0010 ppm	101.1341 %	103.9636 %	102.1817 %	97.6660 %	100.6661 %	99.6427 %
Concentration per Run 2	0.0011 ppm	103.5663 %	104.1766 %	102.5643 %	99.1966 %	100.2822 %	99.1278 %
Concentration per Run 3	0.0009 ppm	104.3730 %	105.0965 %	102.7884 %	98.2682 %	100.8392 %	98.3152 %
Recovery Percentage 1	20.191 %						
Concentration RSD	11.5 %	1.6 %	0.6 %	0.3 %	0.8 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934448-1 WG1934448
Analysis started at: 6/15/2024 11:08:48 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0097 ppm	0.0003 ppm	0.0054 ppm	0.0003 ppm	0.0000 ppm	0.0450 ppm
Concentration per Run 1	0.0000 ppm	0.0161 ppm	0.0002 ppm	0.0043 ppm	0.0003 ppm	0.0000 ppm	0.0454 ppm
Concentration per Run 2	0.0001 ppm	0.0059 ppm	0.0000 ppm	0.0059 ppm	0.0005 ppm	0.0001 ppm	0.0432 ppm
Concentration per Run 3	-0.0004 ppm	0.0071 ppm	0.0008 ppm	0.0062 ppm	0.0002 ppm	0.0000 ppm	0.0465 ppm
Concentration RSD	346.2 %	57.3 %	129.4 %	18.4 %	48.6 %	211.7 %	3.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0029 ppm	0.0084 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0004 ppm	-0.0002 ppm	0.0037 ppm	0.0022 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0006 ppm	0.0008 ppm	0.0076 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0041 ppm	0.0155 ppm	-0.0004 ppm
Concentration RSD	376.5 %	980.9 %	218.6 %	760.0 %	63.0 %	79.1 %	145.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0111 ppm	0.0002 ppm	-0.0018 ppm	0.2775 ppm	-0.0004 ppm	-0.0003 ppm	0.0019 ppm
Concentration per Run 1	0.0104 ppm	0.0003 ppm	-0.0019 ppm	0.2758 ppm	0.0002 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	0.0128 ppm	0.0001 ppm	-0.0019 ppm	0.2773 ppm	-0.0014 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0100 ppm	0.0002 ppm	-0.0017 ppm	0.2793 ppm	-0.0001 ppm	0.0004 ppm	0.0069 ppm
Concentration RSD	13.8 %	70.6 %	5.5 %	0.6 %	194.5 %	323.1 %	221.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0024 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	-0.0029 ppm	0.0012 ppm	0.0002 ppm	-0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0013 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 3	0.0015 ppm	-0.0031 ppm	0.0011 ppm	0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0001 ppm
Concentration RSD	11,545.9 %	41.1 %	93.5 %	69.3 %	68.5 %	54.3 %	286.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	111.0643 %	108.5782 %	107.1935 %	97.9702 %	100.2933 %	98.5150 %
Concentration per Run 1	0.0007 ppm	110.1876 %	108.5561 %	107.2027 %	98.2205 %	100.4290 %	98.7980 %
Concentration per Run 2	0.0005 ppm	111.0145 %	108.3306 %	107.1983 %	97.7772 %	100.2919 %	98.6645 %
Concentration per Run 3	0.0007 ppm	111.9907 %	108.8478 %	107.1796 %	97.9129 %	100.1590 %	98.0826 %
Concentration RSD	12.5 %	0.8 %	0.2 %	0.0 %	0.2 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934448-2 WG1934448
Analysis started at: 6/15/2024 11:12:42 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0465 ppm	1.8914 ppm	0.1139 ppm	0.9158 ppm	1.8664 ppm	0.0469 ppm	9.7077 ppm
Concentration per Run 1	0.0468 ppm	1.8432 ppm	0.1151 ppm	0.9231 ppm	1.8299 ppm	0.0460 ppm	9.5153 ppm
Concentration per Run 2	0.0465 ppm	1.9172 ppm	0.1136 ppm	0.9109 ppm	1.8847 ppm	0.0474 ppm	9.8251 ppm
Concentration per Run 3	0.0462 ppm	1.9136 ppm	0.1129 ppm	0.9135 ppm	1.8844 ppm	0.0473 ppm	9.7828 ppm
Concentration RSD	0.7 %	2.2 %	1.0 %	0.7 %	1.7 %	1.7 %	1.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0499 ppm	0.4595 ppm	0.1830 ppm	0.2340 ppm	0.9663 ppm	10.1621 ppm	0.0024 ppm
Concentration per Run 1	0.0503 ppm	0.4625 ppm	0.1846 ppm	0.2364 ppm	0.9494 ppm	9.9933 ppm	0.0015 ppm
Concentration per Run 2	0.0495 ppm	0.4584 ppm	0.1827 ppm	0.2325 ppm	0.9755 ppm	10.2421 ppm	0.0026 ppm
Concentration per Run 3	0.0498 ppm	0.4576 ppm	0.1816 ppm	0.2332 ppm	0.9741 ppm	10.2509 ppm	0.0032 ppm
Concentration RSD	0.8 %	0.6 %	0.8 %	0.9 %	1.5 %	1.4 %	35.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3940 ppm	0.4722 ppm	0.9956 ppm	9.9456 ppm	0.4607 ppm	0.5082 ppm	0.4558 ppm
Concentration per Run 1	9.4498 ppm	0.4627 ppm	0.9970 ppm	9.6971 ppm	0.4651 ppm	0.5111 ppm	0.4612 ppm
Concentration per Run 2	9.3843 ppm	0.4770 ppm	0.9879 ppm	10.0892 ppm	0.4589 ppm	0.5066 ppm	0.4548 ppm
Concentration per Run 3	9.3479 ppm	0.4769 ppm	1.0019 ppm	10.0505 ppm	0.4581 ppm	0.5068 ppm	0.4514 ppm
Concentration RSD	0.5 %	1.7 %	0.7 %	2.2 %	0.8 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1080 ppm	0.9536 ppm	0.9731 ppm	0.9474 ppm	0.9570 ppm	0.1153 ppm	0.4655 ppm
Concentration per Run 1	0.1115 ppm	0.9603 ppm	0.9786 ppm	0.9285 ppm	0.9626 ppm	0.1142 ppm	0.4706 ppm
Concentration per Run 2	0.1068 ppm	0.9513 ppm	0.9629 ppm	0.9590 ppm	0.9559 ppm	0.1148 ppm	0.4638 ppm
Concentration per Run 3	0.1058 ppm	0.9492 ppm	0.9778 ppm	0.9549 ppm	0.9525 ppm	0.1168 ppm	0.4620 ppm
Concentration RSD	2.8 %	0.6 %	0.9 %	1.7 %	0.5 %	1.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4621 ppm	109.8477 %	109.0355 %	104.6278 %	94.0194 %	98.5646 %	95.8992 %
Concentration per Run 1	0.4667 ppm	108.1424 %	110.3856 %	103.0893 %	93.1829 %	99.1870 %	94.7954 %
Concentration per Run 2	0.4598 ppm	110.5330 %	108.5645 %	105.3694 %	94.4471 %	97.9970 %	96.6918 %
Concentration per Run 3	0.4600 ppm	110.8677 %	108.1565 %	105.4245 %	94.4282 %	98.5097 %	96.2103 %
Concentration RSD	0.8 %	1.4 %	1.1 %	1.3 %	0.8 %	0.6 %	1.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432391-01 WG1934448
Analysis started at: 6/15/2024 11:16:37 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0063 ppm	0.0003 ppm	0.0087 ppm	0.0371 ppm	0.0000 ppm	227.9979 ppm
Concentration per Run 1	-0.0002 ppm	0.0053 ppm	0.0012 ppm	0.0072 ppm	0.0371 ppm	0.0000 ppm	227.4287 ppm
Concentration per Run 2	0.0003 ppm	0.0080 ppm	0.0006 ppm	0.0091 ppm	0.0372 ppm	0.0000 ppm	227.8226 ppm
Concentration per Run 3	0.0001 ppm	0.0055 ppm	-0.0010 ppm	0.0097 ppm	0.0371 ppm	0.0001 ppm	228.7424 ppm
Concentration RSD	339.7 %	23.7 %	405.7 %	14.8 %	0.1 %	205.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0004 ppm	0.0013 ppm	1.2817 ppm	3.3467 ppm	0.0068 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0014 ppm	1.2862 ppm	3.3807 ppm	0.0101 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0006 ppm	0.0011 ppm	1.2805 ppm	3.3432 ppm	0.0048 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0005 ppm	0.0013 ppm	1.2782 ppm	3.3162 ppm	0.0056 ppm
Concentration RSD	465.8 %	15.6 %	44.2 %	11.9 %	0.3 %	1.0 %	42.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.0144 ppm	0.0194 ppm	0.0031 ppm	1.0482 ppm	0.0002 ppm	0.0015 ppm	0.0041 ppm
Concentration per Run 1	3.0033 ppm	0.0194 ppm	0.0030 ppm	1.0468 ppm	0.0007 ppm	0.0015 ppm	0.0034 ppm
Concentration per Run 2	3.0092 ppm	0.0193 ppm	0.0036 ppm	1.0480 ppm	-0.0008 ppm	0.0010 ppm	0.0036 ppm
Concentration per Run 3	3.0305 ppm	0.0194 ppm	0.0026 ppm	1.0497 ppm	0.0007 ppm	0.0019 ppm	0.0053 ppm
Concentration RSD	0.5 %	0.5 %	17.1 %	0.1 %	398.6 %	31.5 %	25.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	2.6474 ppm	0.0018 ppm	0.4398 ppm	-0.0001 ppm	-0.0038 ppm	0.0004 ppm
Concentration per Run 1	0.0022 ppm	2.6437 ppm	0.0021 ppm	0.4420 ppm	0.0002 ppm	-0.0037 ppm	0.0003 ppm
Concentration per Run 2	-0.0022 ppm	2.6547 ppm	0.0011 ppm	0.4386 ppm	-0.0003 ppm	-0.0030 ppm	0.0003 ppm
Concentration per Run 3	0.0036 ppm	2.6439 ppm	0.0021 ppm	0.4387 ppm	-0.0001 ppm	-0.0047 ppm	0.0005 ppm
Concentration RSD	261.3 %	0.2 %	34.3 %	0.4 %	372.6 %	22.3 %	34.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	107.2775 %	106.9041 %	95.2874 %	89.0265 %	96.2303 %	89.6020 %
Concentration per Run 1	0.0006 ppm	107.1984 %	107.9336 %	95.4664 %	88.7326 %	97.3510 %	89.8139 %
Concentration per Run 2	0.0006 ppm	107.4458 %	106.7848 %	95.0909 %	89.4422 %	95.9775 %	89.4172 %
Concentration per Run 3	0.0004 ppm	107.1884 %	105.9938 %	95.3050 %	88.9048 %	95.3626 %	89.5750 %
Concentration RSD	18.9 %	0.1 %	0.9 %	0.2 %	0.4 %	1.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934448-3 WG1934448
Analysis started at: 6/15/2024 11:20:32 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0470 ppm	1.8773 ppm	0.1202 ppm	0.9236 ppm	1.9129 ppm	0.0465 ppm	228.2637 ppm
Concentration per Run 1	0.0471 ppm	1.8804 ppm	0.1214 ppm	0.9227 ppm	1.9138 ppm	0.0466 ppm	228.2380 ppm
Concentration per Run 2	0.0467 ppm	1.8757 ppm	0.1186 ppm	0.9294 ppm	1.9125 ppm	0.0466 ppm	228.7873 ppm
Concentration per Run 3	0.0472 ppm	1.8758 ppm	0.1208 ppm	0.9186 ppm	1.9124 ppm	0.0463 ppm	227.7658 ppm
Concentration RSD	0.6 %	0.1 %	1.2 %	0.6 %	0.0 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0483 ppm	0.4416 ppm	0.1792 ppm	0.2286 ppm	2.1668 ppm	13.5193 ppm	0.0044 ppm
Concentration per Run 1	0.0485 ppm	0.4435 ppm	0.1801 ppm	0.2295 ppm	2.1642 ppm	13.5078 ppm	0.0051 ppm
Concentration per Run 2	0.0485 ppm	0.4441 ppm	0.1789 ppm	0.2294 ppm	2.1716 ppm	13.5188 ppm	0.0053 ppm
Concentration per Run 3	0.0479 ppm	0.4373 ppm	0.1786 ppm	0.2268 ppm	2.1646 ppm	13.5315 ppm	0.0028 ppm
Concentration RSD	0.7 %	0.9 %	0.4 %	0.7 %	0.2 %	0.1 %	31.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.9920 ppm	0.4815 ppm	0.9822 ppm	11.1235 ppm	0.4419 ppm	0.5109 ppm	0.4662 ppm
Concentration per Run 1	12.0578 ppm	0.4807 ppm	0.9758 ppm	11.1111 ppm	0.4436 ppm	0.5116 ppm	0.4700 ppm
Concentration per Run 2	12.0212 ppm	0.4816 ppm	0.9832 ppm	11.1801 ppm	0.4401 ppm	0.5106 ppm	0.4653 ppm
Concentration per Run 3	11.8971 ppm	0.4821 ppm	0.9878 ppm	11.0793 ppm	0.4420 ppm	0.5104 ppm	0.4634 ppm
Concentration RSD	0.7 %	0.1 %	0.6 %	0.5 %	0.4 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1155 ppm	3.6859 ppm	0.9452 ppm	1.3626 ppm	0.9491 ppm	0.1143 ppm	0.4644 ppm
Concentration per Run 1	0.1181 ppm	3.7058 ppm	0.9375 ppm	1.3647 ppm	0.9538 ppm	0.1143 ppm	0.4663 ppm
Concentration per Run 2	0.1125 ppm	3.6866 ppm	0.9448 ppm	1.3649 ppm	0.9490 ppm	0.1139 ppm	0.4649 ppm
Concentration per Run 3	0.1161 ppm	3.6653 ppm	0.9532 ppm	1.3581 ppm	0.9445 ppm	0.1147 ppm	0.4620 ppm
Concentration RSD	2.5 %	0.5 %	0.8 %	0.3 %	0.5 %	0.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4460 ppm	104.9718 %	107.6343 %	95.2949 %	89.3205 %	97.4079 %	90.4385 %
Concentration per Run 1	0.4475 ppm	103.9991 %	108.4380 %	95.6498 %	89.0151 %	98.3398 %	90.8159 %
Concentration per Run 2	0.4466 ppm	104.5762 %	106.7977 %	94.8269 %	89.1245 %	97.0748 %	90.0927 %
Concentration per Run 3	0.4439 ppm	106.3400 %	107.6671 %	95.4080 %	89.8220 %	96.8090 %	90.4069 %
Concentration RSD	0.4 %	1.2 %	0.8 %	0.4 %	0.5 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934448-4 WG1934448
Analysis started at: 6/15/2024 11:24:28 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0130 ppm	-0.0002 ppm	0.0088 ppm	0.0333 ppm	0.0000 ppm	205.8406 ppm
Concentration per Run 1	0.0005 ppm	0.0147 ppm	-0.0013 ppm	0.0084 ppm	0.0334 ppm	0.0001 ppm	206.2998 ppm
Concentration per Run 2	0.0005 ppm	0.0136 ppm	-0.0008 ppm	0.0098 ppm	0.0332 ppm	0.0000 ppm	205.5640 ppm
Concentration per Run 3	-0.0005 ppm	0.0106 ppm	0.0014 ppm	0.0082 ppm	0.0334 ppm	0.0000 ppm	205.6580 ppm
Concentration RSD	346.5 %	16.4 %	690.3 %	9.8 %	0.3 %	73.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0012 ppm	0.0000 ppm	0.0009 ppm	1.1529 ppm	3.0480 ppm	0.0055 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	-0.0003 ppm	0.0009 ppm	1.1540 ppm	3.0959 ppm	0.0076 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0008 ppm	1.1508 ppm	3.0304 ppm	0.0034 ppm
Concentration per Run 3	-0.0001 ppm	0.0011 ppm	0.0002 ppm	0.0010 ppm	1.1539 ppm	3.0176 ppm	0.0056 ppm
Concentration RSD	71.0 %	14.8 %	865.9 %	13.7 %	0.2 %	1.4 %	37.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.8895 ppm	0.0174 ppm	0.0023 ppm	0.9360 ppm	-0.0006 ppm	0.0020 ppm	0.0003 ppm
Concentration per Run 1	2.9260 ppm	0.0174 ppm	0.0024 ppm	0.9357 ppm	-0.0010 ppm	0.0015 ppm	0.0020 ppm
Concentration per Run 2	2.8746 ppm	0.0173 ppm	0.0025 ppm	0.9352 ppm	0.0000 ppm	0.0016 ppm	-0.0008 ppm
Concentration per Run 3	2.8679 ppm	0.0174 ppm	0.0021 ppm	0.9369 ppm	-0.0007 ppm	0.0029 ppm	-0.0002 ppm
Concentration RSD	1.1 %	0.4 %	9.4 %	0.1 %	93.2 %	38.9 %	463.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	2.5317 ppm	0.0013 ppm	0.3972 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm
Concentration per Run 1	-0.0020 ppm	2.5619 ppm	0.0014 ppm	0.3984 ppm	0.0001 ppm	-0.0015 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	2.5211 ppm	0.0016 ppm	0.3951 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm
Concentration per Run 3	-0.0028 ppm	2.5120 ppm	0.0009 ppm	0.3983 ppm	0.0001 ppm	-0.0015 ppm	0.0002 ppm
Concentration RSD	113.8 %	1.0 %	28.4 %	0.5 %	46.5 %	4.0 %	42.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	105.3438 %	108.6492 %	97.6979 %	91.1961 %	98.7705 %	91.9635 %
Concentration per Run 1	0.0004 ppm	103.9216 %	107.5618 %	97.2988 %	90.6915 %	97.9763 %	91.8165 %
Concentration per Run 2	0.0004 ppm	106.1888 %	109.0027 %	98.0885 %	91.9888 %	99.0499 %	92.1180 %
Concentration per Run 3	0.0002 ppm	105.9210 %	109.3832 %	97.7064 %	90.9079 %	99.2854 %	91.9559 %
Concentration RSD	37.2 %	1.2 %	0.9 %	0.4 %	0.8 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 11:28:23 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5157 ppm	0.5043 ppm	0.4802 ppm	0.5079 ppm	0.5048 ppm	0.5125 ppm	0.5063 ppm
Concentration per Run 1	0.5185 ppm	0.4982 ppm	0.4823 ppm	0.5109 ppm	0.5073 ppm	0.5159 ppm	0.5117 ppm
Concentration per Run 2	0.5163 ppm	0.5118 ppm	0.4779 ppm	0.5076 ppm	0.5052 ppm	0.5121 ppm	0.5053 ppm
Concentration per Run 3	0.5123 ppm	0.5028 ppm	0.4805 ppm	0.5052 ppm	0.5019 ppm	0.5094 ppm	0.5018 ppm
Recovery Percentage 1	103.136 %	100.852 %	96.044 %	101.581 %	100.962 %	102.492 %	101.250 %
Concentration RSD	0.6 %	1.4 %	0.5 %	0.6 %	0.5 %	0.6 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5141 ppm	0.5206 ppm	0.5038 ppm	0.5067 ppm	0.5218 ppm	5.3202 ppm	0.5068 ppm
Concentration per Run 1	0.5197 ppm	0.5252 ppm	0.5082 ppm	0.5117 ppm	0.5228 ppm	5.3984 ppm	0.5128 ppm
Concentration per Run 2	0.5127 ppm	0.5214 ppm	0.5026 ppm	0.5069 ppm	0.5221 ppm	5.2934 ppm	0.5054 ppm
Concentration per Run 3	0.5100 ppm	0.5154 ppm	0.5004 ppm	0.5015 ppm	0.5204 ppm	5.2687 ppm	0.5021 ppm
Recovery Percentage 1	102.818 %	104.129 %	100.754 %	101.340 %	104.357 %	106.403 %	101.352 %
Concentration RSD	1.0 %	1.0 %	0.8 %	1.0 %	0.2 %	1.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5108 ppm	0.4969 ppm	0.5061 ppm	10.2698 ppm	0.5194 ppm	0.5015 ppm	0.5003 ppm
Concentration per Run 1	0.5133 ppm	0.4988 ppm	0.5051 ppm	10.3244 ppm	0.5239 ppm	0.5059 ppm	0.5042 ppm
Concentration per Run 2	0.5135 ppm	0.4959 ppm	0.5063 ppm	10.2312 ppm	0.5185 ppm	0.4993 ppm	0.4977 ppm
Concentration per Run 3	0.5057 ppm	0.4959 ppm	0.5070 ppm	10.2539 ppm	0.5159 ppm	0.4994 ppm	0.4989 ppm
Recovery Percentage 1	102.165 %	99.371 %	101.226 %	102.698 %	103.886 %	100.306 %	100.061 %
Concentration RSD	0.9 %	0.3 %	0.2 %	0.5 %	0.8 %	0.8 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4872 ppm	5.2657 ppm	0.5208 ppm	0.5131 ppm	0.5106 ppm	0.5092 ppm	0.5024 ppm
Concentration per Run 1	0.4867 ppm	5.3085 ppm	0.5201 ppm	0.5161 ppm	0.5134 ppm	0.5122 ppm	0.5068 ppm
Concentration per Run 2	0.4885 ppm	5.2745 ppm	0.5207 ppm	0.5113 ppm	0.5121 ppm	0.5074 ppm	0.5003 ppm
Concentration per Run 3	0.4865 ppm	5.2141 ppm	0.5215 ppm	0.5119 ppm	0.5063 ppm	0.5079 ppm	0.5002 ppm
Recovery Percentage 1	97.445 %	100.299 %	104.157 %	102.619 %	102.118 %	101.831 %	100.489 %
Concentration RSD	0.2 %	0.9 %	0.1 %	0.5 %	0.7 %	0.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5150 ppm	108.6101 %	109.7576 %	106.6138 %	96.8640 %	100.5618 %	98.4996 %
Concentration per Run 1	0.5181 ppm	107.5893 %	109.3073 %	105.9492 %	96.6732 %	100.6076 %	98.8236 %
Concentration per Run 2	0.5144 ppm	108.4524 %	109.9117 %	106.7328 %	97.0014 %	100.5106 %	98.5606 %
Concentration per Run 3	0.5123 ppm	109.7886 %	110.0537 %	107.1596 %	96.9175 %	100.5673 %	98.1145 %
Recovery Percentage 1	102.992 %						
Concentration RSD	0.6 %	1.0 %	0.4 %	0.6 %	0.2 %	0.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 11:32:19 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0094 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0124 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 2	-0.0005 ppm	0.0094 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0025 ppm
Concentration per Run 3	-0.0001 ppm	0.0063 ppm	-0.0010 ppm	-0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	-4.846 %	9.356 %	9.602 %	-1.076 %	0.460 %	1.249 %	-0.031 %
Concentration RSD	52.7 %	33.1 %	376.0 %	229.4 %	309.2 %	29.4 %	7,276.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0028 ppm	-0.0005 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0004 ppm	0.0023 ppm	-0.0106 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0016 ppm	-0.0012 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0044 ppm	0.0103 ppm	-0.0011 ppm
Recovery Percentage 1	0.016 %	0.121 %	-1.613 %	4.487 %	5.509 %	-0.020 %	-5.294 %
Concentration RSD	3,196.6 %	844.9 %	131.1 %	13.7 %	53.5 %	2,050.7 %	167.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0477 ppm	-0.0007 ppm	-0.0007 ppm	-0.0017 ppm
Concentration per Run 1	-0.0014 ppm	-0.0002 ppm	0.0004 ppm	-0.0444 ppm	-0.0011 ppm	-0.0005 ppm	-0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0465 ppm	-0.0004 ppm	-0.0008 ppm	-0.0032 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	-0.0002 ppm	-0.0521 ppm	-0.0007 ppm	-0.0007 ppm	0.0006 ppm
Recovery Percentage 1	-0.242 %	-0.255 %	0.131 %	-2.383 %	-2.984 %	-6.595 %	-3.342 %
Concentration RSD	478.5 %	767.5 %	466.5 %	8.3 %	50.2 %	23.2 %	120.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0096 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0011 ppm	-0.0106 ppm	-0.0005 ppm	0.0001 ppm	-0.0006 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0005 ppm	-0.0091 ppm	-0.0004 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0091 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-2.026 %	-1.920 %	-0.654 %	0.819 %	-4.485 %	-0.869 %	0.058 %
Concentration RSD	396.3 %	9.2 %	51.0 %	87.9 %	36.0 %	470.9 %	1,912.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	100.0341 %	102.0043 %	100.5740 %	98.4094 %	101.1880 %	99.5689 %
Concentration per Run 1	0.0010 ppm	97.9705 %	101.7884 %	99.1162 %	96.9368 %	101.5181 %	99.2479 %
Concentration per Run 2	0.0006 ppm	100.6341 %	101.8944 %	100.9002 %	99.3463 %	101.1056 %	99.7118 %
Concentration per Run 3	0.0006 ppm	101.4978 %	102.3302 %	101.7055 %	98.9452 %	100.9403 %	99.7470 %
Recovery Percentage 1	14.357 %						
Concentration RSD	31.4 %	1.8 %	0.3 %	1.3 %	1.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934516-1 WG1934516
Analysis started at: 6/15/2024 11:41:13 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0069 ppm	0.0004 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 1	-0.0004 ppm	0.0076 ppm	-0.0012 ppm	-0.0018 ppm	-0.0002 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 2	0.0000 ppm	0.0048 ppm	0.0009 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	-0.0001 ppm	0.0082 ppm	0.0015 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0035 ppm
Concentration RSD	137.3 %	26.2 %	377.0 %	334.9 %	42.5 %	1,535.0 %	31.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0047 ppm	0.0089 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0002 ppm	-0.0003 ppm	0.0028 ppm	0.0069 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0008 ppm	0.0049 ppm	0.0172 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0062 ppm	0.0027 ppm	0.0001 ppm
Concentration RSD	75.2 %	265.0 %	414.1 %	56.8 %	36.4 %	83.8 %	125.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0002 ppm	-0.0014 ppm	-0.0250 ppm	-0.0009 ppm	-0.0005 ppm	-0.0005 ppm
Concentration per Run 1	0.0027 ppm	0.0001 ppm	-0.0011 ppm	-0.0249 ppm	-0.0009 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	-0.0012 ppm	-0.0260 ppm	-0.0003 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	-0.0017 ppm	-0.0241 ppm	-0.0015 ppm	-0.0003 ppm	-0.0006 ppm
Concentration RSD	116.2 %	77.6 %	22.8 %	3.8 %	62.4 %	72.6 %	131.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0040 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	-0.0006 ppm	-0.0025 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0006 ppm	-0.0056 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0058 ppm	-0.0020 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	132.1 %	73.2 %	99.7 %	273.2 %	2,163.2 %	142.2 %	454.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	129.2810 %	115.9071 %	120.2279 %	101.0773 %	102.3178 %	101.5567 %
Concentration per Run 1	0.0003 ppm	130.2850 %	115.8900 %	120.6302 %	100.8402 %	102.0149 %	101.3207 %
Concentration per Run 2	0.0004 ppm	129.7615 %	115.9824 %	120.4460 %	101.4327 %	102.2143 %	101.7506 %
Concentration per Run 3	0.0005 ppm	127.7965 %	115.8490 %	119.6075 %	100.9591 %	102.7242 %	101.5988 %
Concentration RSD	22.4 %	1.0 %	0.1 %	0.5 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934516-2 WG1934516
Analysis started at: 6/15/2024 11:45:20 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0547 ppm	2.0613 ppm	0.1232 ppm	1.0657 ppm	2.0350 ppm	0.0512 ppm	10.4020 ppm
Concentration per Run 1	0.0557 ppm	2.0850 ppm	0.1244 ppm	1.0848 ppm	2.0547 ppm	0.0519 ppm	10.4875 ppm
Concentration per Run 2	0.0543 ppm	2.0523 ppm	0.1226 ppm	1.0667 ppm	2.0186 ppm	0.0512 ppm	10.3950 ppm
Concentration per Run 3	0.0541 ppm	2.0466 ppm	0.1228 ppm	1.0458 ppm	2.0318 ppm	0.0507 ppm	10.3236 ppm
Concentration RSD	1.6 %	1.0 %	0.8 %	1.8 %	0.9 %	1.1 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0583 ppm	0.5351 ppm	0.2112 ppm	0.2719 ppm	1.0488 ppm	10.8538 ppm	-0.0002 ppm
Concentration per Run 1	0.0592 ppm	0.5473 ppm	0.2158 ppm	0.2781 ppm	1.0582 ppm	11.0507 ppm	-0.0004 ppm
Concentration per Run 2	0.0584 ppm	0.5329 ppm	0.2118 ppm	0.2704 ppm	1.0417 ppm	10.7936 ppm	0.0005 ppm
Concentration per Run 3	0.0573 ppm	0.5252 ppm	0.2060 ppm	0.2672 ppm	1.0464 ppm	10.7171 ppm	-0.0007 ppm
Concentration RSD	1.7 %	2.1 %	2.3 %	2.1 %	0.8 %	1.6 %	281.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8390 ppm	0.5120 ppm	1.0030 ppm	10.6580 ppm	0.5365 ppm	0.5549 ppm	0.4458 ppm
Concentration per Run 1	11.0716 ppm	0.5161 ppm	1.0039 ppm	10.7550 ppm	0.5472 ppm	0.5611 ppm	0.4504 ppm
Concentration per Run 2	10.8339 ppm	0.5121 ppm	1.0028 ppm	10.6353 ppm	0.5382 ppm	0.5545 ppm	0.4395 ppm
Concentration per Run 3	10.6114 ppm	0.5080 ppm	1.0022 ppm	10.5837 ppm	0.5240 ppm	0.5493 ppm	0.4473 ppm
Concentration RSD	2.1 %	0.8 %	0.1 %	0.8 %	2.2 %	1.1 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1256 ppm	1.0998 ppm	0.9335 ppm	1.0147 ppm	1.0802 ppm	0.1296 ppm	0.5368 ppm
Concentration per Run 1	0.1241 ppm	1.1221 ppm	0.9396 ppm	1.0268 ppm	1.0995 ppm	0.1324 ppm	0.5478 ppm
Concentration per Run 2	0.1256 ppm	1.0992 ppm	0.9338 ppm	1.0102 ppm	1.0803 ppm	0.1293 ppm	0.5353 ppm
Concentration per Run 3	0.1270 ppm	1.0780 ppm	0.9271 ppm	1.0071 ppm	1.0606 ppm	0.1272 ppm	0.5273 ppm
Concentration RSD	1.2 %	2.0 %	0.7 %	1.0 %	1.8 %	2.0 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5430 ppm	99.3046 %	104.7576 %	97.5618 %	96.4215 %	101.8294 %	98.1922 %
Concentration per Run 1	0.5549 ppm	97.1106 %	104.2350 %	95.6759 %	95.1265 %	102.4342 %	97.2123 %
Concentration per Run 2	0.5452 ppm	99.4866 %	104.7167 %	97.4658 %	96.6697 %	101.5440 %	98.1825 %
Concentration per Run 3	0.5288 ppm	101.3166 %	105.3210 %	99.5437 %	97.4684 %	101.5100 %	99.1819 %
Concentration RSD	2.4 %	2.1 %	0.5 %	2.0 %	1.2 %	0.5 %	1.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432371-03 WG1934516
Analysis started at: 6/15/2024 11:49:16 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.4024 ppm	0.0004 ppm	0.0895 ppm	0.0337 ppm	0.0000 ppm	81.2903 ppm
Concentration per Run 1	-0.0002 ppm	0.3953 ppm	0.0001 ppm	0.0909 ppm	0.0339 ppm	0.0000 ppm	81.7767 ppm
Concentration per Run 2	-0.0008 ppm	0.4100 ppm	0.0012 ppm	0.0892 ppm	0.0339 ppm	0.0000 ppm	80.8879 ppm
Concentration per Run 3	0.0000 ppm	0.4020 ppm	-0.0001 ppm	0.0884 ppm	0.0332 ppm	0.0000 ppm	81.2065 ppm
Concentration RSD	126.5 %	1.8 %	182.6 %	1.4 %	1.2 %	145.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0036 ppm	0.0017 ppm	0.0045 ppm	0.7340 ppm	7.5844 ppm	0.0026 ppm
Concentration per Run 1	-0.0001 ppm	0.0039 ppm	0.0021 ppm	0.0046 ppm	0.7398 ppm	7.6384 ppm	0.0028 ppm
Concentration per Run 2	-0.0001 ppm	0.0038 ppm	0.0015 ppm	0.0047 ppm	0.7316 ppm	7.5642 ppm	0.0038 ppm
Concentration per Run 3	0.0000 ppm	0.0031 ppm	0.0016 ppm	0.0043 ppm	0.7307 ppm	7.5505 ppm	0.0013 ppm
Concentration RSD	163.8 %	11.8 %	17.7 %	4.7 %	0.7 %	0.6 %	48.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.5027 ppm	0.2089 ppm	0.0211 ppm	70.2553 ppm	0.0127 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	11.7124 ppm	0.2099 ppm	0.0215 ppm	70.6505 ppm	0.0127 ppm	0.0011 ppm	-0.0013 ppm
Concentration per Run 2	11.5193 ppm	0.2085 ppm	0.0209 ppm	70.0225 ppm	0.0128 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 3	11.2766 ppm	0.2083 ppm	0.0210 ppm	70.0928 ppm	0.0125 ppm	0.0009 ppm	0.0027 ppm
Concentration RSD	1.9 %	0.4 %	1.5 %	0.5 %	1.2 %	151.6 %	1,145.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	8.1370 ppm	0.0029 ppm	0.2836 ppm	0.0228 ppm	0.0006 ppm	0.0017 ppm
Concentration per Run 1	0.0027 ppm	8.2424 ppm	0.0031 ppm	0.2859 ppm	0.0226 ppm	0.0003 ppm	0.0017 ppm
Concentration per Run 2	-0.0011 ppm	8.1728 ppm	0.0027 ppm	0.2841 ppm	0.0234 ppm	0.0003 ppm	0.0019 ppm
Concentration per Run 3	0.0012 ppm	7.9959 ppm	0.0028 ppm	0.2809 ppm	0.0224 ppm	0.0014 ppm	0.0016 ppm
Concentration RSD	212.6 %	1.6 %	6.6 %	0.9 %	2.3 %	100.1 %	8.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0040 ppm	96.4401 %	103.3833 %	93.6857 %	93.6102 %	101.2235 %	96.3046 %
Concentration per Run 1	0.0042 ppm	94.8466 %	102.3591 %	92.7407 %	92.8074 %	100.9038 %	96.2186 %
Concentration per Run 2	0.0040 ppm	96.3734 %	104.6358 %	93.5702 %	93.6807 %	102.0708 %	96.2060 %
Concentration per Run 3	0.0039 ppm	98.1003 %	103.1551 %	94.7461 %	94.3424 %	100.6959 %	96.4891 %
Concentration RSD	3.3 %	1.7 %	1.1 %	1.1 %	0.8 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934516-3 WG1934516
Analysis started at: 6/15/2024 11:53:13 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0542 ppm	2.4174 ppm	0.1308 ppm	1.1506 ppm	2.0444 ppm	0.0518 ppm	87.2301 ppm
Concentration per Run 1	0.0549 ppm	2.4403 ppm	0.1314 ppm	1.1664 ppm	2.0483 ppm	0.0518 ppm	87.6944 ppm
Concentration per Run 2	0.0545 ppm	2.4127 ppm	0.1296 ppm	1.1535 ppm	2.0383 ppm	0.0520 ppm	87.2601 ppm
Concentration per Run 3	0.0532 ppm	2.3991 ppm	0.1314 ppm	1.1318 ppm	2.0466 ppm	0.0515 ppm	86.7359 ppm
Concentration RSD	1.6 %	0.9 %	0.8 %	1.5 %	0.3 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0571 ppm	0.5235 ppm	0.2105 ppm	0.2721 ppm	1.7099 ppm	18.0589 ppm	0.0019 ppm
Concentration per Run 1	0.0584 ppm	0.5358 ppm	0.2149 ppm	0.2774 ppm	1.7074 ppm	18.2351 ppm	0.0023 ppm
Concentration per Run 2	0.0568 ppm	0.5215 ppm	0.2094 ppm	0.2728 ppm	1.7152 ppm	17.9707 ppm	0.0025 ppm
Concentration per Run 3	0.0560 ppm	0.5131 ppm	0.2074 ppm	0.2661 ppm	1.7071 ppm	17.9709 ppm	0.0009 ppm
Concentration RSD	2.1 %	2.2 %	1.8 %	2.1 %	0.3 %	0.8 %	46.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.4025 ppm	0.7056 ppm	1.0137 ppm	77.4705 ppm	0.5321 ppm	0.5485 ppm	0.5455 ppm
Concentration per Run 1	21.8047 ppm	0.7101 ppm	1.0115 ppm	77.9231 ppm	0.5434 ppm	0.5570 ppm	0.5524 ppm
Concentration per Run 2	21.3282 ppm	0.7043 ppm	1.0103 ppm	77.4856 ppm	0.5313 ppm	0.5459 ppm	0.5461 ppm
Concentration per Run 3	21.0745 ppm	0.7026 ppm	1.0194 ppm	77.0026 ppm	0.5217 ppm	0.5427 ppm	0.5380 ppm
Concentration RSD	1.7 %	0.6 %	0.5 %	0.6 %	2.0 %	1.4 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1295 ppm	9.0624 ppm	0.9348 ppm	1.2633 ppm	1.0998 ppm	0.1260 ppm	0.5390 ppm
Concentration per Run 1	0.1324 ppm	9.2011 ppm	0.9358 ppm	1.2669 ppm	1.1176 ppm	0.1260 ppm	0.5485 ppm
Concentration per Run 2	0.1288 ppm	9.0644 ppm	0.9304 ppm	1.2626 ppm	1.0984 ppm	0.1266 ppm	0.5391 ppm
Concentration per Run 3	0.1274 ppm	8.9218 ppm	0.9383 ppm	1.2604 ppm	1.0833 ppm	0.1254 ppm	0.5294 ppm
Concentration RSD	2.0 %	1.5 %	0.4 %	0.3 %	1.6 %	0.5 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5378 ppm	97.3929 %	105.1340 %	92.8496 %	93.3589 %	101.6080 %	95.3528 %
Concentration per Run 1	0.5511 ppm	95.5078 %	104.8171 %	91.7239 %	92.5355 %	102.1553 %	95.0751 %
Concentration per Run 2	0.5348 ppm	97.8368 %	105.1221 %	92.5247 %	93.9659 %	101.7017 %	95.0915 %
Concentration per Run 3	0.5276 ppm	98.8340 %	105.4628 %	94.3003 %	93.5754 %	100.9670 %	95.8918 %
Concentration RSD	2.2 %	1.8 %	0.3 %	1.4 %	0.8 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934516-4 WG1934516
Analysis started at: 6/15/2024 11:57:10 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.3774 ppm	0.0003 ppm	0.0840 ppm	0.0320 ppm	0.0000 ppm	77.1709 ppm
Concentration per Run 1	-0.0005 ppm	0.3769 ppm	0.0014 ppm	0.0868 ppm	0.0324 ppm	0.0000 ppm	77.8522 ppm
Concentration per Run 2	0.0001 ppm	0.3776 ppm	0.0000 ppm	0.0839 ppm	0.0318 ppm	0.0001 ppm	76.9683 ppm
Concentration per Run 3	0.0000 ppm	0.3776 ppm	-0.0006 ppm	0.0814 ppm	0.0317 ppm	0.0000 ppm	76.6923 ppm
Concentration RSD	263.0 %	0.1 %	355.1 %	3.2 %	1.2 %	359.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0030 ppm	0.0018 ppm	0.0042 ppm	0.7006 ppm	7.2176 ppm	0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0032 ppm	0.0016 ppm	0.0045 ppm	0.7069 ppm	7.3250 ppm	0.0045 ppm
Concentration per Run 2	0.0001 ppm	0.0031 ppm	0.0017 ppm	0.0039 ppm	0.6952 ppm	7.1820 ppm	0.0033 ppm
Concentration per Run 3	0.0001 ppm	0.0028 ppm	0.0022 ppm	0.0041 ppm	0.6996 ppm	7.1458 ppm	0.0011 ppm
Concentration RSD	110.7 %	7.1 %	18.2 %	7.4 %	0.8 %	1.3 %	58.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8700 ppm	0.1980 ppm	0.0206 ppm	66.7351 ppm	0.0120 ppm	0.0010 ppm	-0.0009 ppm
Concentration per Run 1	11.0360 ppm	0.1993 ppm	0.0210 ppm	67.1762 ppm	0.0121 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 2	10.8759 ppm	0.1976 ppm	0.0204 ppm	66.6856 ppm	0.0115 ppm	0.0019 ppm	-0.0015 ppm
Concentration per Run 3	10.6982 ppm	0.1971 ppm	0.0203 ppm	66.3436 ppm	0.0123 ppm	0.0010 ppm	0.0005 ppm
Concentration RSD	1.6 %	0.6 %	2.0 %	0.6 %	3.5 %	102.8 %	139.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	7.6922 ppm	0.0019 ppm	0.2683 ppm	0.0214 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 1	-0.0006 ppm	7.7788 ppm	0.0017 ppm	0.2689 ppm	0.0217 ppm	-0.0003 ppm	0.0016 ppm
Concentration per Run 2	0.0029 ppm	7.7179 ppm	0.0020 ppm	0.2688 ppm	0.0215 ppm	0.0013 ppm	0.0013 ppm
Concentration per Run 3	0.0014 ppm	7.5799 ppm	0.0020 ppm	0.2671 ppm	0.0211 ppm	0.0006 ppm	0.0017 ppm
Concentration RSD	141.6 %	1.3 %	8.6 %	0.4 %	1.6 %	145.0 %	12.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0038 ppm	96.9123 %	103.0746 %	93.3545 %	94.4211 %	101.2440 %	96.1307 %
Concentration per Run 1	0.0037 ppm	95.6199 %	102.2061 %	92.5453 %	93.7384 %	101.2282 %	96.2399 %
Concentration per Run 2	0.0039 ppm	96.7743 %	103.7338 %	93.2030 %	94.5202 %	101.6580 %	96.0569 %
Concentration per Run 3	0.0037 ppm	98.3428 %	103.2838 %	94.3152 %	95.0046 %	100.8458 %	96.0954 %
Concentration RSD	3.4 %	1.4 %	0.8 %	1.0 %	0.7 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934516-5 WG1934516
Analysis started at: 6/15/2024 12:01:07 PM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0537 ppm	2.7399 ppm	0.1388 ppm	1.2433 ppm	2.1430 ppm	0.0542 ppm	90.3970 ppm
Concentration per Run 1	0.0546 ppm	2.7812 ppm	0.1394 ppm	1.2505 ppm	2.1613 ppm	0.0545 ppm	91.1089 ppm
Concentration per Run 2	0.0539 ppm	2.7252 ppm	0.1390 ppm	1.2492 ppm	2.1405 ppm	0.0542 ppm	90.4007 ppm
Concentration per Run 3	0.0527 ppm	2.7132 ppm	0.1380 ppm	1.2301 ppm	2.1273 ppm	0.0538 ppm	89.6816 ppm
Concentration RSD	1.8 %	1.3 %	0.5 %	0.9 %	0.8 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0599 ppm	0.5494 ppm	0.2222 ppm	0.2844 ppm	1.8678 ppm	19.1733 ppm	0.0041 ppm
Concentration per Run 1	0.0607 ppm	0.5558 ppm	0.2254 ppm	0.2886 ppm	1.8735 ppm	19.4391 ppm	0.0052 ppm
Concentration per Run 2	0.0599 ppm	0.5525 ppm	0.2224 ppm	0.2844 ppm	1.8681 ppm	19.1331 ppm	0.0027 ppm
Concentration per Run 3	0.0590 ppm	0.5398 ppm	0.2188 ppm	0.2801 ppm	1.8619 ppm	18.9477 ppm	0.0043 ppm
Concentration RSD	1.4 %	1.5 %	1.5 %	1.5 %	0.3 %	1.3 %	30.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.6207 ppm	0.7342 ppm	1.0820 ppm	80.2659 ppm	0.5590 ppm	0.5844 ppm	0.4088 ppm
Concentration per Run 1	22.9905 ppm	0.7411 ppm	1.0699 ppm	80.8307 ppm	0.5657 ppm	0.5908 ppm	0.4023 ppm
Concentration per Run 2	22.6843 ppm	0.7336 ppm	1.0885 ppm	80.4295 ppm	0.5610 ppm	0.5827 ppm	0.4097 ppm
Concentration per Run 3	22.1873 ppm	0.7278 ppm	1.0875 ppm	79.5376 ppm	0.5503 ppm	0.5797 ppm	0.4145 ppm
Concentration RSD	1.8 %	0.9 %	1.0 %	0.8 %	1.4 %	1.0 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1391 ppm	10.3849 ppm	1.0415 ppm	1.3642 ppm	1.2066 ppm	0.1345 ppm	0.5674 ppm
Concentration per Run 1	0.1403 ppm	10.5762 ppm	1.0297 ppm	1.3729 ppm	1.2184 ppm	0.1378 ppm	0.5744 ppm
Concentration per Run 2	0.1404 ppm	10.3645 ppm	1.0454 ppm	1.3660 ppm	1.2096 ppm	0.1326 ppm	0.5669 ppm
Concentration per Run 3	0.1365 ppm	10.2140 ppm	1.0494 ppm	1.3535 ppm	1.1917 ppm	0.1332 ppm	0.5609 ppm
Concentration RSD	1.6 %	1.8 %	1.0 %	0.7 %	1.1 %	2.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5658 ppm	96.9281 %	104.8110 %	92.3315 %	93.3639 %	101.2851 %	95.5714 %
Concentration per Run 1	0.5726 ppm	95.8711 %	104.1046 %	91.4924 %	93.3092 %	101.2583 %	95.6158 %
Concentration per Run 2	0.5665 ppm	96.2068 %	104.2952 %	92.2080 %	92.7353 %	101.0178 %	95.3051 %
Concentration per Run 3	0.5583 ppm	98.7066 %	106.0332 %	93.2941 %	94.0473 %	101.5793 %	95.7934 %
Concentration RSD	1.3 %	1.6 %	1.0 %	1.0 %	0.7 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934516-6d5 WG1934516
Analysis started at: 6/15/2024 12:05:05 PM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0785 ppm	0.0003 ppm	0.0158 ppm	0.0061 ppm	0.0000 ppm	15.1127 ppm
Concentration per Run 1	-0.0006 ppm	0.0858 ppm	0.0016 ppm	0.0159 ppm	0.0061 ppm	0.0000 ppm	15.1525 ppm
Concentration per Run 2	-0.0005 ppm	0.0761 ppm	-0.0004 ppm	0.0145 ppm	0.0061 ppm	0.0000 ppm	15.0813 ppm
Concentration per Run 3	0.0000 ppm	0.0736 ppm	-0.0002 ppm	0.0171 ppm	0.0061 ppm	0.0000 ppm	15.1043 ppm
Concentration RSD	100.1 %	8.2 %	356.5 %	8.2 %	0.2 %	296.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0009 ppm	0.1387 ppm	1.4285 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0008 ppm	0.1386 ppm	1.4555 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0010 ppm	0.1378 ppm	1.4191 ppm	0.0011 ppm
Concentration per Run 3	-0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0009 ppm	0.1396 ppm	1.4110 ppm	0.0018 ppm
Concentration RSD	172.5 %	23.7 %	127.7 %	11.0 %	0.6 %	1.7 %	69.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.0971 ppm	0.0385 ppm	0.0070 ppm	13.0927 ppm	0.0015 ppm	-0.0001 ppm	0.0041 ppm
Concentration per Run 1	2.1295 ppm	0.0389 ppm	0.0074 ppm	13.1767 ppm	0.0013 ppm	-0.0009 ppm	0.0021 ppm
Concentration per Run 2	2.1059 ppm	0.0383 ppm	0.0072 ppm	13.0616 ppm	0.0013 ppm	0.0002 ppm	0.0042 ppm
Concentration per Run 3	2.0558 ppm	0.0383 ppm	0.0063 ppm	13.0398 ppm	0.0019 ppm	0.0005 ppm	0.0058 ppm
Concentration RSD	1.8 %	0.8 %	8.2 %	0.6 %	22.9 %	1,156.0 %	45.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	1.4083 ppm	0.0037 ppm	0.0512 ppm	0.0040 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0024 ppm	1.4365 ppm	0.0039 ppm	0.0510 ppm	0.0044 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	1.3997 ppm	0.0037 ppm	0.0515 ppm	0.0040 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0006 ppm	1.3888 ppm	0.0035 ppm	0.0512 ppm	0.0038 ppm	0.0008 ppm	0.0003 ppm
Concentration RSD	116.7 %	1.8 %	4.7 %	0.5 %	7.4 %	1,111.8 %	11.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	102.7411 %	106.9010 %	101.8782 %	97.1810 %	102.3540 %	99.1076 %
Concentration per Run 1	0.0009 ppm	100.7785 %	106.4003 %	100.9382 %	96.4101 %	102.7650 %	99.0631 %
Concentration per Run 2	0.0008 ppm	102.8996 %	106.3008 %	101.6718 %	97.1514 %	101.2978 %	98.9554 %
Concentration per Run 3	0.0011 ppm	104.5453 %	108.0019 %	103.0247 %	97.9814 %	102.9992 %	99.3043 %
Concentration RSD	15.0 %	1.8 %	0.9 %	1.0 %	0.8 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432371-04 WG1934516
Analysis started at: 6/15/2024 12:09:03 PM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.8679 ppm	0.0012 ppm	0.0506 ppm	0.0217 ppm	0.0001 ppm	77.2468 ppm
Concentration per Run 1	0.0003 ppm	0.8584 ppm	0.0010 ppm	0.0507 ppm	0.0219 ppm	0.0001 ppm	77.6003 ppm
Concentration per Run 2	0.0004 ppm	0.8758 ppm	0.0020 ppm	0.0520 ppm	0.0216 ppm	0.0000 ppm	77.2504 ppm
Concentration per Run 3	0.0000 ppm	0.8693 ppm	0.0007 ppm	0.0489 ppm	0.0216 ppm	0.0001 ppm	76.8898 ppm
Concentration RSD	98.8 %	1.0 %	54.8 %	3.1 %	0.8 %	55.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0886 ppm	0.0038 ppm	0.0086 ppm	1.8864 ppm	9.1076 ppm	0.0050 ppm
Concentration per Run 1	0.0002 ppm	0.0912 ppm	0.0033 ppm	0.0085 ppm	1.8964 ppm	9.1784 ppm	0.0065 ppm
Concentration per Run 2	0.0001 ppm	0.0883 ppm	0.0044 ppm	0.0091 ppm	1.8889 ppm	9.0883 ppm	0.0024 ppm
Concentration per Run 3	0.0002 ppm	0.0863 ppm	0.0036 ppm	0.0080 ppm	1.8740 ppm	9.0560 ppm	0.0061 ppm
Concentration RSD	19.5 %	2.8 %	15.4 %	6.4 %	0.6 %	0.7 %	45.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3065 ppm	3.6251 ppm	0.0196 ppm	48.4780 ppm	0.0975 ppm	0.0007 ppm	0.0009 ppm
Concentration per Run 1	9.5201 ppm	3.6501 ppm	0.0193 ppm	48.7927 ppm	0.0975 ppm	0.0015 ppm	0.0020 ppm
Concentration per Run 2	9.2853 ppm	3.6213 ppm	0.0195 ppm	48.4442 ppm	0.0983 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 3	9.1141 ppm	3.6038 ppm	0.0199 ppm	48.1970 ppm	0.0968 ppm	0.0019 ppm	0.0003 ppm
Concentration RSD	2.2 %	0.6 %	1.5 %	0.6 %	0.7 %	238.0 %	103.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	9.8363 ppm	0.0007 ppm	0.2128 ppm	0.0500 ppm	0.0004 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	10.0005 ppm	0.0000 ppm	0.2139 ppm	0.0506 ppm	-0.0006 ppm	0.0028 ppm
Concentration per Run 2	-0.0008 ppm	9.8713 ppm	0.0012 ppm	0.2129 ppm	0.0502 ppm	0.0014 ppm	0.0025 ppm
Concentration per Run 3	-0.0003 ppm	9.6372 ppm	0.0010 ppm	0.2116 ppm	0.0493 ppm	0.0005 ppm	0.0025 ppm
Concentration RSD	115.0 %	1.9 %	91.1 %	0.5 %	1.3 %	224.4 %	6.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0099 ppm	96.4788 %	103.8523 %	93.9640 %	94.5413 %	102.0690 %	96.9026 %
Concentration per Run 1	0.0100 ppm	94.3057 %	103.0641 %	93.3345 %	93.0971 %	101.9917 %	97.2992 %
Concentration per Run 2	0.0099 ppm	96.5995 %	104.1566 %	94.1324 %	94.8894 %	102.2985 %	96.9801 %
Concentration per Run 3	0.0099 ppm	98.5311 %	104.3362 %	94.4249 %	95.6373 %	101.9167 %	96.4285 %
Concentration RSD	0.4 %	2.2 %	0.7 %	0.6 %	1.4 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 12:13:00 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5183 ppm	0.5048 ppm	0.4824 ppm	0.5118 ppm	0.5027 ppm	0.5093 ppm	0.4949 ppm
Concentration per Run 1	0.5253 ppm	0.5178 ppm	0.4877 ppm	0.5207 ppm	0.5032 ppm	0.5104 ppm	0.5019 ppm
Concentration per Run 2	0.5168 ppm	0.4977 ppm	0.4771 ppm	0.5105 ppm	0.5028 ppm	0.5075 ppm	0.4891 ppm
Concentration per Run 3	0.5128 ppm	0.4989 ppm	0.4823 ppm	0.5043 ppm	0.5022 ppm	0.5099 ppm	0.4935 ppm
Recovery Percentage 1	103.661 %	100.962 %	96.476 %	102.367 %	100.546 %	101.850 %	98.970 %
Concentration RSD	1.2 %	2.2 %	1.1 %	1.6 %	0.1 %	0.3 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5167 ppm	0.5224 ppm	0.5066 ppm	0.5118 ppm	0.5206 ppm	5.3101 ppm	0.5031 ppm
Concentration per Run 1	0.5258 ppm	0.5311 ppm	0.5152 ppm	0.5214 ppm	0.5258 ppm	5.3778 ppm	0.5123 ppm
Concentration per Run 2	0.5141 ppm	0.5192 ppm	0.5062 ppm	0.5097 ppm	0.5183 ppm	5.3070 ppm	0.5012 ppm
Concentration per Run 3	0.5101 ppm	0.5169 ppm	0.4984 ppm	0.5043 ppm	0.5178 ppm	5.2456 ppm	0.4958 ppm
Recovery Percentage 1	103.335 %	104.482 %	101.320 %	102.363 %	104.118 %	106.203 %	100.616 %
Concentration RSD	1.6 %	1.5 %	1.7 %	1.7 %	0.9 %	1.2 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5131 ppm	0.4967 ppm	0.5108 ppm	10.2701 ppm	0.5206 ppm	0.5000 ppm	0.5032 ppm
Concentration per Run 1	0.5234 ppm	0.4984 ppm	0.5146 ppm	10.3255 ppm	0.5326 ppm	0.5052 ppm	0.5121 ppm
Concentration per Run 2	0.5113 ppm	0.4961 ppm	0.5084 ppm	10.2195 ppm	0.5183 ppm	0.4973 ppm	0.5005 ppm
Concentration per Run 3	0.5047 ppm	0.4955 ppm	0.5095 ppm	10.2652 ppm	0.5108 ppm	0.4975 ppm	0.4971 ppm
Recovery Percentage 1	102.623 %	99.337 %	102.168 %	102.701 %	104.114 %	99.995 %	100.648 %
Concentration RSD	1.8 %	0.3 %	0.6 %	0.5 %	2.1 %	0.9 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4902 ppm	5.2963 ppm	0.5197 ppm	0.5099 ppm	0.5142 ppm	0.5115 ppm	0.5071 ppm
Concentration per Run 1	0.4953 ppm	5.3831 ppm	0.5274 ppm	0.5098 ppm	0.5223 ppm	0.5169 ppm	0.5149 ppm
Concentration per Run 2	0.4855 ppm	5.2764 ppm	0.5166 ppm	0.5089 ppm	0.5133 ppm	0.5087 ppm	0.5063 ppm
Concentration per Run 3	0.4898 ppm	5.2294 ppm	0.5150 ppm	0.5109 ppm	0.5070 ppm	0.5088 ppm	0.5001 ppm
Recovery Percentage 1	98.041 %	100.882 %	103.930 %	101.972 %	102.841 %	102.292 %	101.419 %
Concentration RSD	1.0 %	1.5 %	1.3 %	0.2 %	1.5 %	0.9 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5157 ppm	107.7794 %	110.5966 %	106.1004 %	96.9679 %	101.4840 %	98.3624 %
Concentration per Run 1	0.5266 ppm	105.3917 %	109.9634 %	105.4783 %	95.6917 %	101.3196 %	98.5812 %
Concentration per Run 2	0.5148 ppm	108.5448 %	111.6686 %	106.0558 %	97.9440 %	102.2787 %	98.1088 %
Concentration per Run 3	0.5056 ppm	109.4017 %	110.1579 %	106.7671 %	97.2681 %	100.8536 %	98.3973 %
Recovery Percentage 1	103.132 %						
Concentration RSD	2.0 %	2.0 %	0.8 %	0.6 %	1.2 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 12:16:56 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0016 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	-0.0076 ppm	0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	-0.0004 ppm	0.0084 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 3	-0.0008 ppm	0.0040 ppm	-0.0003 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	-6.056 %	1.575 %	2.455 %	-0.567 %	-0.584 %	1.533 %	0.234 %
Concentration RSD	92.8 %	525.0 %	1,307.1 %	187.4 %	199.8 %	49.8 %	496.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0006 ppm	0.0034 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0032 ppm	-0.0080 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0008 ppm	0.0037 ppm	-0.0018 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0008 ppm	0.0033 ppm	0.0073 ppm	-0.0004 ppm
Recovery Percentage 1	0.523 %	2.111 %	-2.605 %	6.403 %	6.824 %	-0.033 %	2.447 %
Concentration RSD	50.6 %	21.8 %	107.2 %	37.5 %	8.6 %	920.5 %	270.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0351 ppm	-0.0010 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 1	-0.0008 ppm	-0.0001 ppm	-0.0003 ppm	-0.0383 ppm	-0.0009 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0334 ppm	-0.0011 ppm	0.0004 ppm	-0.0018 ppm
Concentration per Run 3	0.0019 ppm	0.0000 ppm	-0.0007 ppm	-0.0337 ppm	-0.0011 ppm	-0.0008 ppm	-0.0006 ppm
Recovery Percentage 1	0.348 %	-0.154 %	-0.200 %	-1.756 %	-4.170 %	1.495 %	-1.848 %
Concentration RSD	403.4 %	386.5 %	719.7 %	7.8 %	10.6 %	558.5 %	87.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0094 ppm	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 1	0.0022 ppm	-0.0072 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	0.0008 ppm	-0.0110 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 3	-0.0019 ppm	-0.0101 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	-0.0004 ppm
Recovery Percentage 1	3.796 %	-1.886 %	-0.255 %	1.750 %	-2.427 %	-1.648 %	-2.646 %
Concentration RSD	541.1 %	21.2 %	127.8 %	73.8 %	46.4 %	176.0 %	36.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	99.4314 %	102.2236 %	100.1121 %	98.8120 %	101.0675 %	99.7017 %
Concentration per Run 1	0.0009 ppm	97.8952 %	102.2019 %	99.5984 %	97.8304 %	101.7354 %	100.4979 %
Concentration per Run 2	0.0007 ppm	99.1033 %	101.8912 %	100.1652 %	98.9826 %	100.5946 %	99.5547 %
Concentration per Run 3	0.0006 ppm	101.2956 %	102.5778 %	100.5726 %	99.6230 %	100.8725 %	99.0526 %
Recovery Percentage 1	14.307 %						
Concentration RSD	22.3 %	1.7 %	0.3 %	0.5 %	0.9 %	0.6 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934432-1 WG1934432
Analysis started at: 6/15/2024 12:22:31 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0139 ppm	-0.0009 ppm	-0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0128 ppm
Concentration per Run 1	-0.0002 ppm	0.0135 ppm	-0.0013 ppm	-0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Concentration per Run 2	-0.0001 ppm	0.0135 ppm	-0.0011 ppm	-0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0131 ppm
Concentration per Run 3	0.0001 ppm	0.0147 ppm	-0.0004 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0128 ppm
Concentration RSD	150.7 %	5.1 %	47.7 %	54.1 %	107.6 %	292.0 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0051 ppm	-0.0167 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0044 ppm	-0.0225 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0065 ppm	-0.0120 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0045 ppm	-0.0157 ppm	-0.0011 ppm
Concentration RSD	47.4 %	65.9 %	812,449.5 %	80.2 %	22.9 %	32.0 %	334.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0011 ppm	0.0003 ppm	-0.0014 ppm	-0.0119 ppm	-0.0011 ppm	-0.0004 ppm	-0.0026 ppm
Concentration per Run 1	0.0012 ppm	0.0004 ppm	-0.0013 ppm	-0.0162 ppm	-0.0016 ppm	-0.0010 ppm	-0.0020 ppm
Concentration per Run 2	-0.0004 ppm	0.0002 ppm	-0.0012 ppm	-0.0068 ppm	-0.0006 ppm	0.0003 ppm	-0.0038 ppm
Concentration per Run 3	0.0025 ppm	0.0002 ppm	-0.0017 ppm	-0.0125 ppm	-0.0012 ppm	-0.0004 ppm	-0.0018 ppm
Concentration RSD	134.3 %	56.1 %	17.8 %	40.0 %	45.0 %	172.6 %	42.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	-0.0055 ppm	-0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0017 ppm	-0.0010 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0025 ppm	-0.0069 ppm	-0.0014 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0011 ppm	-0.0085 ppm	-0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	186.6 %	72.4 %	68.5 %	128.2 %	67.9 %	239.0 %	227.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	121.8087 %	112.8506 %	115.6215 %	101.3076 %	102.9525 %	101.8874 %
Concentration per Run 1	0.0009 ppm	122.7297 %	112.2908 %	116.2315 %	101.2208 %	102.1328 %	102.1592 %
Concentration per Run 2	0.0010 ppm	120.5688 %	113.7684 %	115.4561 %	100.5023 %	103.8609 %	101.6388 %
Concentration per Run 3	0.0009 ppm	122.1277 %	112.4927 %	115.1768 %	102.1998 %	102.8639 %	101.8642 %
Concentration RSD	7.5 %	0.9 %	0.7 %	0.5 %	0.8 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934432-2 WG1934432
Analysis started at: 6/15/2024 12:26:36 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0549 ppm	2.0792 ppm	0.1246 ppm	1.0673 ppm	2.0290 ppm	0.0515 ppm	10.4128 ppm
Concentration per Run 1	0.0562 ppm	2.0896 ppm	0.1255 ppm	1.0862 ppm	2.0395 ppm	0.0518 ppm	10.4798 ppm
Concentration per Run 2	0.0548 ppm	2.0736 ppm	0.1234 ppm	1.0666 ppm	2.0365 ppm	0.0518 ppm	10.4124 ppm
Concentration per Run 3	0.0537 ppm	2.0742 ppm	0.1248 ppm	1.0491 ppm	2.0109 ppm	0.0508 ppm	10.3464 ppm
Concentration RSD	2.3 %	0.4 %	0.8 %	1.7 %	0.8 %	1.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0587 ppm	0.5393 ppm	0.2131 ppm	0.2742 ppm	1.0436 ppm	10.8528 ppm	0.0010 ppm
Concentration per Run 1	0.0597 ppm	0.5513 ppm	0.2177 ppm	0.2796 ppm	1.0450 ppm	10.9348 ppm	0.0028 ppm
Concentration per Run 2	0.0587 ppm	0.5390 ppm	0.2123 ppm	0.2748 ppm	1.0496 ppm	10.8245 ppm	-0.0003 ppm
Concentration per Run 3	0.0577 ppm	0.5277 ppm	0.2092 ppm	0.2682 ppm	1.0362 ppm	10.7990 ppm	0.0005 ppm
Concentration RSD	1.7 %	2.2 %	2.0 %	2.1 %	0.7 %	0.7 %	160.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8534 ppm	0.5148 ppm	1.0050 ppm	10.6917 ppm	0.5402 ppm	0.5561 ppm	0.4544 ppm
Concentration per Run 1	11.0805 ppm	0.5179 ppm	1.0021 ppm	10.7834 ppm	0.5533 ppm	0.5622 ppm	0.4554 ppm
Concentration per Run 2	10.8207 ppm	0.5137 ppm	1.0085 ppm	10.7236 ppm	0.5368 ppm	0.5548 ppm	0.4570 ppm
Concentration per Run 3	10.6589 ppm	0.5129 ppm	1.0045 ppm	10.5680 ppm	0.5305 ppm	0.5515 ppm	0.4508 ppm
Concentration RSD	2.0 %	0.5 %	0.3 %	1.0 %	2.2 %	1.0 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1256 ppm	1.1010 ppm	0.9397 ppm	1.0132 ppm	1.0843 ppm	0.1317 ppm	0.5400 ppm
Concentration per Run 1	0.1254 ppm	1.1225 ppm	0.9434 ppm	1.0171 ppm	1.1057 ppm	0.1330 ppm	0.5473 ppm
Concentration per Run 2	0.1283 ppm	1.1041 ppm	0.9293 ppm	1.0198 ppm	1.0810 ppm	0.1325 ppm	0.5403 ppm
Concentration per Run 3	0.1229 ppm	1.0763 ppm	0.9464 ppm	1.0026 ppm	1.0662 ppm	0.1297 ppm	0.5326 ppm
Concentration RSD	2.2 %	2.1 %	1.0 %	0.9 %	1.8 %	1.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5451 ppm	99.5830 %	104.8618 %	98.0778 %	97.0600 %	102.0910 %	98.6446 %
Concentration per Run 1	0.5568 ppm	98.1126 %	104.3900 %	97.0107 %	96.3759 %	102.5609 %	98.8157 %
Concentration per Run 2	0.5410 ppm	99.7738 %	105.1341 %	98.1744 %	97.7325 %	102.3859 %	98.5762 %
Concentration per Run 3	0.5375 ppm	100.8625 %	105.0614 %	99.0483 %	97.0715 %	101.3261 %	98.5420 %
Concentration RSD	1.9 %	1.4 %	0.4 %	1.0 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430662-02 WG1934432
Analysis started at: 6/15/2024 12:30:31 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0033 ppm	0.0004 ppm	0.0227 ppm	0.0321 ppm	0.0000 ppm	129.5309 ppm
Concentration per Run 1	0.0000 ppm	-0.0074 ppm	0.0016 ppm	0.0230 ppm	0.0324 ppm	0.0000 ppm	130.4586 ppm
Concentration per Run 2	0.0001 ppm	0.0159 ppm	-0.0006 ppm	0.0238 ppm	0.0321 ppm	0.0000 ppm	129.0813 ppm
Concentration per Run 3	0.0002 ppm	0.0014 ppm	0.0004 ppm	0.0213 ppm	0.0319 ppm	0.0000 ppm	129.0527 ppm
Concentration RSD	132.0 %	353.8 %	250.1 %	5.5 %	0.8 %	89.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0011 ppm	2.1441 ppm	1.2241 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0011 ppm	2.1597 ppm	1.2626 ppm	0.0043 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0009 ppm	2.1399 ppm	1.2176 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0011 ppm	2.1328 ppm	1.1921 ppm	0.0031 ppm
Concentration RSD	172.9 %	66.0 %	518.3 %	13.3 %	0.7 %	2.9 %	16.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6447 ppm	0.3391 ppm	0.0030 ppm	34.9619 ppm	0.0012 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 1	9.8603 ppm	0.3417 ppm	0.0031 ppm	35.2552 ppm	0.0020 ppm	-0.0006 ppm	-0.0006 ppm
Concentration per Run 2	9.6474 ppm	0.3381 ppm	0.0032 ppm	34.8268 ppm	0.0019 ppm	0.0005 ppm	-0.0017 ppm
Concentration per Run 3	9.4263 ppm	0.3374 ppm	0.0027 ppm	34.8039 ppm	-0.0003 ppm	-0.0005 ppm	-0.0003 ppm
Concentration RSD	2.3 %	0.7 %	10.0 %	0.7 %	110.8 %	300.9 %	86.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	8.4919 ppm	0.0016 ppm	0.8332 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0024 ppm	8.6343 ppm	0.0021 ppm	0.8457 ppm	-0.0007 ppm	-0.0024 ppm	-0.0001 ppm
Concentration per Run 2	-0.0027 ppm	8.5016 ppm	0.0013 ppm	0.8256 ppm	-0.0002 ppm	0.0021 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	8.3397 ppm	0.0014 ppm	0.8282 ppm	0.0000 ppm	0.0021 ppm	-0.0001 ppm
Concentration RSD	99.6 %	1.7 %	25.4 %	1.3 %	134.4 %	433.5 %	468.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	95.2851 %	103.0274 %	93.0624 %	93.4382 %	101.4714 %	96.1207 %
Concentration per Run 1	0.0027 ppm	93.5297 %	101.6435 %	91.7018 %	92.4421 %	100.7522 %	95.6309 %
Concentration per Run 2	0.0026 ppm	94.9738 %	103.6237 %	93.0958 %	93.3526 %	101.9507 %	96.2427 %
Concentration per Run 3	0.0025 ppm	97.3517 %	103.8151 %	94.3895 %	94.5199 %	101.7114 %	96.4886 %
Concentration RSD	4.1 %	2.0 %	1.2 %	1.4 %	1.1 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934432-3 WG1934432
Analysis started at: 6/15/2024 12:34:27 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0562 ppm	1.9832 ppm	0.1352 ppm	1.1289 ppm	1.9946 ppm	0.0502 ppm	131.2068 ppm
Concentration per Run 1	0.0570 ppm	1.9726 ppm	0.1365 ppm	1.1449 ppm	1.9812 ppm	0.0499 ppm	130.3165 ppm
Concentration per Run 2	0.0562 ppm	1.9880 ppm	0.1344 ppm	1.1292 ppm	1.9964 ppm	0.0504 ppm	131.4505 ppm
Concentration per Run 3	0.0553 ppm	1.9891 ppm	0.1346 ppm	1.1125 ppm	2.0061 ppm	0.0503 ppm	131.8533 ppm
Concentration RSD	1.5 %	0.5 %	0.9 %	1.4 %	0.6 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0588 ppm	0.5362 ppm	0.2158 ppm	0.2786 ppm	3.0333 ppm	11.7653 ppm	0.0028 ppm
Concentration per Run 1	0.0597 ppm	0.5445 ppm	0.2193 ppm	0.2836 ppm	3.0134 ppm	11.7390 ppm	0.0047 ppm
Concentration per Run 2	0.0585 ppm	0.5358 ppm	0.2162 ppm	0.2787 ppm	3.0409 ppm	11.7692 ppm	0.0029 ppm
Concentration per Run 3	0.0582 ppm	0.5283 ppm	0.2118 ppm	0.2736 ppm	3.0455 ppm	11.7878 ppm	0.0009 ppm
Concentration RSD	1.4 %	1.5 %	1.7 %	1.8 %	0.6 %	0.2 %	67.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.3574 ppm	0.8148 ppm	1.0335 ppm	43.1447 ppm	0.5399 ppm	0.5700 ppm	0.5096 ppm
Concentration per Run 1	20.7381 ppm	0.8103 ppm	1.0297 ppm	42.7481 ppm	0.5479 ppm	0.5780 ppm	0.5114 ppm
Concentration per Run 2	20.3777 ppm	0.8158 ppm	1.0319 ppm	43.3068 ppm	0.5398 ppm	0.5665 ppm	0.5160 ppm
Concentration per Run 3	19.9566 ppm	0.8183 ppm	1.0390 ppm	43.3792 ppm	0.5320 ppm	0.5656 ppm	0.5014 ppm
Concentration RSD	1.9 %	0.5 %	0.5 %	0.8 %	1.5 %	1.2 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1342 ppm	9.7776 ppm	0.9545 ppm	1.7662 ppm	1.1173 ppm	0.1325 ppm	0.5573 ppm
Concentration per Run 1	0.1365 ppm	9.9322 ppm	0.9492 ppm	1.7556 ppm	1.1338 ppm	0.1359 ppm	0.5659 ppm
Concentration per Run 2	0.1333 ppm	9.7575 ppm	0.9517 ppm	1.7626 ppm	1.1178 ppm	0.1335 ppm	0.5574 ppm
Concentration per Run 3	0.1329 ppm	9.6431 ppm	0.9625 ppm	1.7804 ppm	1.1002 ppm	0.1281 ppm	0.5485 ppm
Concentration RSD	1.5 %	1.5 %	0.7 %	0.7 %	1.5 %	3.0 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5506 ppm	96.2324 %	109.4573 %	91.6811 %	93.2478 %	102.2473 %	94.8351 %
Concentration per Run 1	0.5598 ppm	94.3971 %	110.3800 %	90.1786 %	92.4269 %	104.8100 %	94.8462 %
Concentration per Run 2	0.5511 ppm	96.3371 %	108.8175 %	91.6381 %	93.6815 %	101.1465 %	94.5983 %
Concentration per Run 3	0.5409 ppm	97.9630 %	109.1745 %	93.2266 %	93.6352 %	100.7855 %	95.0610 %
Concentration RSD	1.7 %	1.9 %	0.7 %	1.7 %	0.8 %	2.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934432-4 WG1934432
Analysis started at: 6/15/2024 12:38:23 PM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0012 ppm	0.0003 ppm	0.0228 ppm	0.0324 ppm	0.0000 ppm	129.8700 ppm
Concentration per Run 1	0.0001 ppm	-0.0072 ppm	-0.0016 ppm	0.0224 ppm	0.0326 ppm	0.0000 ppm	130.7800 ppm
Concentration per Run 2	0.0003 ppm	0.0075 ppm	0.0008 ppm	0.0233 ppm	0.0323 ppm	0.0000 ppm	129.6138 ppm
Concentration per Run 3	-0.0003 ppm	0.0031 ppm	0.0016 ppm	0.0226 ppm	0.0322 ppm	0.0000 ppm	129.2163 ppm
Concentration RSD	1,650.5 %	650.4 %	590.8 %	2.0 %	0.7 %	57.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0012 ppm	2.1626 ppm	1.2329 ppm	0.0025 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	2.1823 ppm	1.2670 ppm	0.0028 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0012 ppm	2.1573 ppm	1.2271 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0011 ppm	2.1481 ppm	1.2044 ppm	0.0019 ppm
Concentration RSD	528.1 %	46.7 %	250.3 %	8.9 %	0.8 %	2.6 %	20.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7122 ppm	0.3404 ppm	0.0036 ppm	35.0875 ppm	0.0011 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	9.9146 ppm	0.3436 ppm	0.0042 ppm	35.3525 ppm	0.0013 ppm	0.0003 ppm	0.0029 ppm
Concentration per Run 2	9.7131 ppm	0.3396 ppm	0.0032 ppm	34.9871 ppm	0.0015 ppm	0.0002 ppm	-0.0034 ppm
Concentration per Run 3	9.5088 ppm	0.3381 ppm	0.0034 ppm	34.9228 ppm	0.0005 ppm	0.0001 ppm	0.0028 ppm
Concentration RSD	2.1 %	0.8 %	14.9 %	0.7 %	45.7 %	45.9 %	464.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	8.5709 ppm	0.0020 ppm	0.8411 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	8.7477 ppm	0.0029 ppm	0.8421 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0047 ppm	8.5797 ppm	0.0022 ppm	0.8378 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	8.3851 ppm	0.0008 ppm	0.8432 ppm	0.0000 ppm	-0.0017 ppm	0.0001 ppm
Concentration RSD	105.7 %	2.1 %	53.5 %	0.3 %	71.3 %	152.7 %	106.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	95.2960 %	102.9715 %	92.5944 %	93.5034 %	100.9820 %	95.6880 %
Concentration per Run 1	0.0029 ppm	92.9206 %	102.1026 %	91.5753 %	92.0343 %	100.9826 %	95.7221 %
Concentration per Run 2	0.0028 ppm	95.6187 %	103.4678 %	92.6917 %	93.8278 %	101.4196 %	95.5711 %
Concentration per Run 3	0.0029 ppm	97.3486 %	103.3441 %	93.5160 %	94.6481 %	100.5439 %	95.7708 %
Concentration RSD	0.4 %	2.3 %	0.7 %	1.1 %	1.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934432-5 WG1934432
Analysis started at: 6/15/2024 12:42:20 PM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0595 ppm	2.0582 ppm	0.1441 ppm	1.2996 ppm	2.0590 ppm	0.0514 ppm	125.8516 ppm
Concentration per Run 1	0.0624 ppm	1.9732 ppm	0.1457 ppm	1.3844 ppm	1.9880 ppm	0.0497 ppm	120.1567 ppm
Concentration per Run 2	0.0595 ppm	2.0809 ppm	0.1431 ppm	1.2826 ppm	2.0700 ppm	0.0515 ppm	127.2273 ppm
Concentration per Run 3	0.0565 ppm	2.1204 ppm	0.1437 ppm	1.2317 ppm	2.1191 ppm	0.0529 ppm	130.1707 ppm
Concentration RSD	5.0 %	3.7 %	0.9 %	6.0 %	3.2 %	3.2 %	4.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0658 ppm	0.5988 ppm	0.2414 ppm	0.3126 ppm	2.9669 ppm	12.3399 ppm	0.0041 ppm
Concentration per Run 1	0.0705 ppm	0.6405 ppm	0.2586 ppm	0.3329 ppm	2.8633 ppm	11.9013 ppm	0.0047 ppm
Concentration per Run 2	0.0650 ppm	0.5914 ppm	0.2372 ppm	0.3096 ppm	2.9827 ppm	12.4383 ppm	0.0031 ppm
Concentration per Run 3	0.0620 ppm	0.5646 ppm	0.2286 ppm	0.2954 ppm	3.0545 ppm	12.6800 ppm	0.0046 ppm
Concentration RSD	6.6 %	6.4 %	6.4 %	6.1 %	3.3 %	3.2 %	21.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.2151 ppm	0.8118 ppm	1.1653 ppm	42.2620 ppm	0.6032 ppm	0.6164 ppm	0.4538 ppm
Concentration per Run 1	23.6801 ppm	0.7801 ppm	1.2192 ppm	40.2329 ppm	0.6460 ppm	0.6243 ppm	0.4637 ppm
Concentration per Run 2	21.9058 ppm	0.8167 ppm	1.1512 ppm	42.9542 ppm	0.5923 ppm	0.6155 ppm	0.4539 ppm
Concentration per Run 3	21.0595 ppm	0.8385 ppm	1.1254 ppm	43.5987 ppm	0.5712 ppm	0.6093 ppm	0.4438 ppm
Concentration RSD	6.0 %	3.6 %	4.2 %	4.2 %	6.4 %	1.2 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1454 ppm	10.2485 ppm	1.1550 ppm	1.7906 ppm	1.2940 ppm	0.1432 ppm	0.6237 ppm
Concentration per Run 1	0.1475 ppm	10.8905 ppm	1.2516 ppm	1.7276 ppm	1.3777 ppm	0.1440 ppm	0.6619 ppm
Concentration per Run 2	0.1474 ppm	10.1045 ppm	1.1231 ppm	1.8031 ppm	1.2772 ppm	0.1422 ppm	0.6185 ppm
Concentration per Run 3	0.1412 ppm	9.7504 ppm	1.0904 ppm	1.8411 ppm	1.2270 ppm	0.1433 ppm	0.5908 ppm
Concentration RSD	2.5 %	5.7 %	7.4 %	3.2 %	5.9 %	0.7 %	5.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6241 ppm	94.1372 %	113.5647 %	92.2660 %	89.4261 %	107.3268 %	95.2829 %
Concentration per Run 1	0.6705 ppm	88.7542 %	118.5470 %	91.5706 %	82.6902 %	113.8230 %	95.3937 %
Concentration per Run 2	0.6130 ppm	95.3506 %	112.4562 %	92.4590 %	91.6497 %	106.6963 %	95.3664 %
Concentration per Run 3	0.5887 ppm	98.3067 %	109.6908 %	92.7684 %	93.9384 %	101.4611 %	95.0887 %
Concentration RSD	6.7 %	5.2 %	4.0 %	0.7 %	6.6 %	5.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934432-6d5 WG1934432
Analysis started at: 6/15/2024 12:46:16 PM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0014 ppm	-0.0011 ppm	0.0039 ppm	0.0060 ppm	0.0000 ppm	24.2308 ppm
Concentration per Run 1	-0.0003 ppm	0.0051 ppm	-0.0009 ppm	0.0053 ppm	0.0060 ppm	0.0000 ppm	24.2597 ppm
Concentration per Run 2	-0.0004 ppm	0.0026 ppm	-0.0012 ppm	0.0024 ppm	0.0060 ppm	0.0000 ppm	24.3220 ppm
Concentration per Run 3	-0.0007 ppm	-0.0034 ppm	-0.0012 ppm	0.0040 ppm	0.0060 ppm	-0.0001 ppm	24.1108 ppm
Concentration RSD	42.3 %	306.0 %	13.1 %	37.8 %	0.4 %	75.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.4051 ppm	0.2373 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0007 ppm	0.4044 ppm	0.2390 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0004 ppm	0.4063 ppm	0.2453 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.4046 ppm	0.2276 ppm	0.0008 ppm
Concentration RSD	568.0 %	139.1 %	1,105.0 %	41.6 %	0.3 %	3.8 %	90.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7506 ppm	0.0634 ppm	0.0035 ppm	6.5051 ppm	0.0001 ppm	-0.0003 ppm	0.0050 ppm
Concentration per Run 1	1.7770 ppm	0.0634 ppm	0.0040 ppm	6.5163 ppm	0.0008 ppm	0.0006 ppm	0.0065 ppm
Concentration per Run 2	1.7509 ppm	0.0638 ppm	0.0029 ppm	6.5342 ppm	-0.0002 ppm	-0.0004 ppm	0.0028 ppm
Concentration per Run 3	1.7240 ppm	0.0631 ppm	0.0036 ppm	6.4646 ppm	-0.0002 ppm	-0.0009 ppm	0.0059 ppm
Concentration RSD	1.5 %	0.5 %	15.6 %	0.6 %	411.7 %	297.0 %	39.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	1.4543 ppm	0.0035 ppm	0.1557 ppm	-0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	1.4774 ppm	0.0022 ppm	0.1556 ppm	-0.0004 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	1.4529 ppm	0.0040 ppm	0.1555 ppm	-0.0002 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	1.4326 ppm	0.0045 ppm	0.1559 ppm	-0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration RSD	58.9 %	1.5 %	34.2 %	0.1 %	72.8 %	63.6 %	221.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	101.6376 %	105.4701 %	100.7674 %	97.3470 %	101.3284 %	98.9397 %
Concentration per Run 1	0.0009 ppm	99.2373 %	104.4863 %	100.4268 %	96.3309 %	101.2481 %	99.7039 %
Concentration per Run 2	0.0007 ppm	101.6062 %	105.6535 %	100.8715 %	97.6326 %	101.4847 %	98.7081 %
Concentration per Run 3	0.0007 ppm	104.0692 %	106.2704 %	101.0040 %	98.0775 %	101.2523 %	98.4072 %
Concentration RSD	13.1 %	2.4 %	0.9 %	0.3 %	0.9 %	0.1 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430662-03 WG1934432
Analysis started at: 6/15/2024 12:50:13 PM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0020 ppm	-0.0004 ppm	0.0222 ppm	0.0312 ppm	0.0000 ppm	128.9622 ppm
Concentration per Run 1	-0.0001 ppm	-0.0028 ppm	-0.0007 ppm	0.0244 ppm	0.0315 ppm	0.0000 ppm	130.2498 ppm
Concentration per Run 2	-0.0003 ppm	-0.0013 ppm	-0.0023 ppm	0.0230 ppm	0.0312 ppm	0.0000 ppm	128.9160 ppm
Concentration per Run 3	0.0000 ppm	-0.0019 ppm	0.0020 ppm	0.0192 ppm	0.0310 ppm	-0.0001 ppm	127.7207 ppm
Concentration RSD	123.0 %	38.7 %	605.2 %	12.2 %	0.8 %	95.4 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	2.0548 ppm	1.3103 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	2.0632 ppm	1.3296 ppm	0.0070 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0010 ppm	2.0541 ppm	1.2939 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0004 ppm	2.0472 ppm	1.3074 ppm	0.0031 ppm
Concentration RSD	37.0 %	283.0 %	45.1 %	46.8 %	0.4 %	1.4 %	77.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6177 ppm	0.3413 ppm	-0.0004 ppm	35.1501 ppm	0.0012 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	9.7994 ppm	0.3429 ppm	-0.0002 ppm	35.5905 ppm	0.0011 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	9.6143 ppm	0.3419 ppm	-0.0004 ppm	35.0866 ppm	0.0016 ppm	-0.0003 ppm	-0.0013 ppm
Concentration per Run 3	9.4394 ppm	0.3390 ppm	-0.0006 ppm	34.7732 ppm	0.0009 ppm	0.0001 ppm	-0.0007 ppm
Concentration RSD	1.9 %	0.6 %	52.9 %	1.2 %	33.2 %	4,320.0 %	160.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	8.4657 ppm	-0.0002 ppm	0.8360 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	8.6034 ppm	0.0001 ppm	0.8414 ppm	-0.0004 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	8.4750 ppm	-0.0008 ppm	0.8325 ppm	-0.0006 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	-0.0040 ppm	8.3186 ppm	0.0001 ppm	0.8341 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	119.9 %	1.7 %	303.3 %	0.6 %	19.2 %	173.0 %	297.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	95.6314 %	102.8134 %	92.6021 %	93.5878 %	100.8032 %	95.4275 %
Concentration per Run 1	0.0030 ppm	93.9893 %	102.2570 %	91.8545 %	92.8214 %	101.3045 %	95.7512 %
Concentration per Run 2	0.0029 ppm	95.9165 %	102.8549 %	92.6230 %	94.1429 %	100.7685 %	95.3289 %
Concentration per Run 3	0.0026 ppm	96.9885 %	103.3282 %	93.3288 %	93.7991 %	100.3365 %	95.2024 %
Concentration RSD	6.5 %	1.6 %	0.5 %	0.8 %	0.7 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430662-04 WG1934432
Analysis started at: 6/15/2024 12:54:10 PM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0042 ppm	-0.0002 ppm	0.0241 ppm	0.0350 ppm	-0.0001 ppm	129.5652 ppm
Concentration per Run 1	-0.0002 ppm	-0.0123 ppm	0.0017 ppm	0.0256 ppm	0.0351 ppm	-0.0001 ppm	130.4313 ppm
Concentration per Run 2	0.0000 ppm	0.0089 ppm	0.0006 ppm	0.0240 ppm	0.0349 ppm	-0.0001 ppm	129.1821 ppm
Concentration per Run 3	-0.0002 ppm	-0.0093 ppm	-0.0029 ppm	0.0227 ppm	0.0351 ppm	-0.0001 ppm	129.0821 ppm
Concentration RSD	87.9 %	272.5 %	1,107.4 %	5.9 %	0.3 %	17.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0007 ppm	1.6210 ppm	1.4973 ppm	0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0015 ppm	0.0000 ppm	0.0006 ppm	1.6318 ppm	1.5095 ppm	0.0046 ppm
Concentration per Run 2	-0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0010 ppm	1.6127 ppm	1.5161 ppm	0.0039 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm	1.6184 ppm	1.4665 ppm	-0.0012 ppm
Concentration RSD	76.1 %	43.8 %	143.7 %	36.4 %	0.6 %	1.8 %	130.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6823 ppm	0.4871 ppm	-0.0008 ppm	19.5928 ppm	0.0020 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	10.9590 ppm	0.4903 ppm	-0.0011 ppm	19.7066 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	10.7165 ppm	0.4865 ppm	-0.0007 ppm	19.5549 ppm	0.0019 ppm	0.0010 ppm	0.0025 ppm
Concentration per Run 3	10.3713 ppm	0.4844 ppm	-0.0005 ppm	19.5170 ppm	0.0019 ppm	0.0000 ppm	-0.0012 ppm
Concentration RSD	2.8 %	0.6 %	38.2 %	0.5 %	4.8 %	159.0 %	427.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	7.5154 ppm	-0.0007 ppm	0.7940 ppm	-0.0005 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	7.6742 ppm	-0.0004 ppm	0.7968 ppm	-0.0004 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0027 ppm	7.5775 ppm	-0.0001 ppm	0.7922 ppm	-0.0006 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0019 ppm	7.2944 ppm	-0.0015 ppm	0.7930 ppm	-0.0005 ppm	0.0005 ppm	0.0003 ppm
Concentration RSD	390.2 %	2.6 %	118.3 %	0.3 %	27.2 %	191.1 %	295.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	96.6082 %	104.8904 %	96.6549 %	94.7345 %	101.5429 %	98.5640 %
Concentration per Run 1	0.0019 ppm	94.4435 %	104.1327 %	95.4938 %	93.4678 %	101.4393 %	99.2805 %
Concentration per Run 2	0.0019 ppm	96.2519 %	105.5940 %	97.7394 %	94.6918 %	102.0506 %	99.7748 %
Concentration per Run 3	0.0017 ppm	99.1293 %	104.9444 %	96.7315 %	96.0440 %	101.1388 %	96.6368 %
Concentration RSD	7.0 %	2.4 %	0.7 %	1.2 %	1.4 %	0.5 %	1.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430662-06 WG1934432
Analysis started at: 6/15/2024 12:58:08 PM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0090 ppm	-0.0003 ppm	0.0002 ppm	0.0050 ppm	0.0000 ppm	32.4326 ppm
Concentration per Run 1	-0.0006 ppm	0.0082 ppm	0.0009 ppm	0.0011 ppm	0.0052 ppm	-0.0001 ppm	32.7156 ppm
Concentration per Run 2	0.0000 ppm	0.0044 ppm	-0.0014 ppm	0.0009 ppm	0.0049 ppm	0.0000 ppm	32.4207 ppm
Concentration per Run 3	-0.0003 ppm	0.0145 ppm	-0.0004 ppm	-0.0015 ppm	0.0049 ppm	0.0000 ppm	32.1614 ppm
Concentration RSD	102.5 %	56.0 %	426.7 %	944.1 %	3.1 %	422.4 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0115 ppm	0.1996 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0007 ppm	0.0112 ppm	0.2043 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0120 ppm	0.1943 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0115 ppm	0.2001 ppm	-0.0001 ppm
Concentration RSD	44.2 %	1,795.9 %	77.4 %	16.4 %	3.2 %	2.5 %	100.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.5417 ppm	0.0020 ppm	-0.0012 ppm	3.0110 ppm	-0.0003 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	3.6122 ppm	0.0022 ppm	-0.0016 ppm	3.0271 ppm	-0.0004 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 2	3.5429 ppm	0.0018 ppm	-0.0014 ppm	3.0171 ppm	-0.0004 ppm	-0.0001 ppm	-0.0027 ppm
Concentration per Run 3	3.4699 ppm	0.0021 ppm	-0.0007 ppm	2.9887 ppm	-0.0001 ppm	-0.0009 ppm	0.0039 ppm
Concentration RSD	2.0 %	11.3 %	40.1 %	0.7 %	59.0 %	122.2 %	940.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	4.5341 ppm	-0.0011 ppm	0.1920 ppm	-0.0003 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0017 ppm	4.6088 ppm	-0.0010 ppm	0.1947 ppm	-0.0004 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0002 ppm	4.5334 ppm	-0.0017 ppm	0.1909 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	-0.0023 ppm	4.4601 ppm	-0.0005 ppm	0.1905 ppm	-0.0002 ppm	-0.0011 ppm	0.0004 ppm
Concentration RSD	76.3 %	1.6 %	59.0 %	1.2 %	33.1 %	83.2 %	57.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	98.9223 %	103.0502 %	98.1408 %	97.8840 %	102.0686 %	99.2262 %
Concentration per Run 1	0.0031 ppm	97.3170 %	101.9725 %	97.3422 %	96.9359 %	101.6137 %	99.5869 %
Concentration per Run 2	0.0031 ppm	98.8185 %	102.9218 %	98.4265 %	98.0377 %	101.8435 %	99.5709 %
Concentration per Run 3	0.0026 ppm	100.6314 %	104.2563 %	98.6536 %	98.6785 %	102.7484 %	98.5208 %
Concentration RSD	8.9 %	1.7 %	1.1 %	0.7 %	0.9 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 1:02:06 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5192 ppm	0.5060 ppm	0.4841 ppm	0.5112 ppm	0.5044 ppm	0.5119 ppm	0.4992 ppm
Concentration per Run 1	0.5240 ppm	0.5016 ppm	0.4866 ppm	0.5187 ppm	0.5067 ppm	0.5145 ppm	0.4985 ppm
Concentration per Run 2	0.5207 ppm	0.5123 ppm	0.4808 ppm	0.5090 ppm	0.5031 ppm	0.5103 ppm	0.5025 ppm
Concentration per Run 3	0.5130 ppm	0.5041 ppm	0.4851 ppm	0.5060 ppm	0.5035 ppm	0.5108 ppm	0.4966 ppm
Recovery Percentage 1	103.848 %	101.200 %	96.829 %	102.249 %	100.888 %	102.378 %	99.841 %
Concentration RSD	1.1 %	1.1 %	0.6 %	1.3 %	0.4 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5162 ppm	0.5240 ppm	0.5066 ppm	0.5114 ppm	0.5219 ppm	5.3204 ppm	0.5083 ppm
Concentration per Run 1	0.5237 ppm	0.5302 ppm	0.5129 ppm	0.5198 ppm	0.5236 ppm	5.3714 ppm	0.5091 ppm
Concentration per Run 2	0.5142 ppm	0.5237 ppm	0.5078 ppm	0.5114 ppm	0.5198 ppm	5.3290 ppm	0.5093 ppm
Concentration per Run 3	0.5108 ppm	0.5180 ppm	0.4991 ppm	0.5032 ppm	0.5225 ppm	5.2607 ppm	0.5066 ppm
Recovery Percentage 1	103.244 %	104.791 %	101.322 %	102.290 %	104.390 %	106.407 %	101.661 %
Concentration RSD	1.3 %	1.2 %	1.4 %	1.6 %	0.4 %	1.1 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5109 ppm	0.4982 ppm	0.5091 ppm	10.3006 ppm	0.5203 ppm	0.5053 ppm	0.5015 ppm
Concentration per Run 1	0.5181 ppm	0.4996 ppm	0.5092 ppm	10.3446 ppm	0.5285 ppm	0.5073 ppm	0.5050 ppm
Concentration per Run 2	0.5106 ppm	0.4981 ppm	0.5081 ppm	10.3063 ppm	0.5209 ppm	0.5038 ppm	0.4998 ppm
Concentration per Run 3	0.5039 ppm	0.4969 ppm	0.5100 ppm	10.2507 ppm	0.5116 ppm	0.5047 ppm	0.4998 ppm
Recovery Percentage 1	102.176 %	99.638 %	101.823 %	103.006 %	104.064 %	101.055 %	100.308 %
Concentration RSD	1.4 %	0.3 %	0.2 %	0.5 %	1.6 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4891 ppm	5.2893 ppm	0.5167 ppm	0.5122 ppm	0.5134 ppm	0.5140 ppm	0.5057 ppm
Concentration per Run 1	0.4904 ppm	5.3477 ppm	0.5184 ppm	0.5162 ppm	0.5198 ppm	0.5130 ppm	0.5122 ppm
Concentration per Run 2	0.4878 ppm	5.2826 ppm	0.5148 ppm	0.5101 ppm	0.5144 ppm	0.5153 ppm	0.5055 ppm
Concentration per Run 3	0.4890 ppm	5.2374 ppm	0.5169 ppm	0.5102 ppm	0.5060 ppm	0.5137 ppm	0.4994 ppm
Recovery Percentage 1	97.811 %	100.748 %	103.336 %	102.438 %	102.686 %	102.801 %	101.140 %
Concentration RSD	0.3 %	1.0 %	0.3 %	0.7 %	1.4 %	0.2 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5158 ppm	107.8276 %	109.6020 %	106.0731 %	96.6875 %	100.6992 %	98.1594 %
Concentration per Run 1	0.5221 ppm	106.5301 %	109.8580 %	106.0359 %	96.5367 %	101.5566 %	98.4912 %
Concentration per Run 2	0.5173 ppm	108.0836 %	108.9588 %	105.8547 %	96.9261 %	100.1598 %	98.0349 %
Concentration per Run 3	0.5080 ppm	108.8691 %	109.9892 %	106.3287 %	96.5996 %	100.3812 %	97.9520 %
Recovery Percentage 1	103.166 %						
Concentration RSD	1.4 %	1.1 %	0.5 %	0.2 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 1:06:03 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0053 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0036 ppm	0.0001 ppm	0.0011 ppm	-0.0001 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0093 ppm	-0.0008 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0031 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-0.711 %	5.334 %	-7.761 %	1.763 %	-0.312 %	1.267 %	-1.062 %
Concentration RSD	81.8 %	65.1 %	218.4 %	134.3 %	326.7 %	25.7 %	97.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0032 ppm	-0.0093 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0036 ppm	-0.0098 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	0.0013 ppm	-0.0438 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0048 ppm	0.0257 ppm	-0.0012 ppm
Recovery Percentage 1	0.202 %	-0.061 %	-0.605 %	7.186 %	6.476 %	-0.371 %	-9.908 %
Concentration RSD	333.5 %	1,751.0 %	558.7 %	43.0 %	54.4 %	374.6 %	82.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0453 ppm	-0.0002 ppm	-0.0003 ppm	-0.0012 ppm
Concentration per Run 1	-0.0004 ppm	0.0002 ppm	-0.0006 ppm	-0.0448 ppm	-0.0004 ppm	-0.0013 ppm	0.0018 ppm
Concentration per Run 2	0.0016 ppm	0.0002 ppm	0.0000 ppm	-0.0478 ppm	0.0002 ppm	-0.0001 ppm	-0.0043 ppm
Concentration per Run 3	-0.0014 ppm	0.0000 ppm	0.0003 ppm	-0.0434 ppm	-0.0003 ppm	0.0006 ppm	-0.0010 ppm
Recovery Percentage 1	-0.069 %	1.317 %	-0.174 %	-2.267 %	-0.684 %	-2.731 %	-2.350 %
Concentration RSD	2,191.2 %	105.4 %	553.1 %	5.0 %	215.4 %	342.4 %	258.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0096 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0023 ppm	-0.0073 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 2	-0.0008 ppm	-0.0102 ppm	-0.0009 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0047 ppm	-0.0113 ppm	-0.0007 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	20.755 %	-1.919 %	-1.335 %	0.581 %	-2.513 %	0.748 %	-1.205 %
Concentration RSD	134.9 %	21.3 %	40.7 %	121.0 %	90.4 %	475.3 %	40.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	98.9715 %	102.5745 %	100.4013 %	98.3177 %	102.2821 %	100.0174 %
Concentration per Run 1	0.0004 ppm	97.2812 %	102.4561 %	98.8376 %	97.4721 %	102.9408 %	99.5592 %
Concentration per Run 2	0.0007 ppm	99.3242 %	102.1287 %	100.5982 %	98.6682 %	101.5403 %	100.2056 %
Concentration per Run 3	0.0006 ppm	100.3091 %	103.1387 %	101.7681 %	98.8129 %	102.3653 %	100.2873 %
Recovery Percentage 1	10.901 %						
Concentration RSD	30.4 %	1.6 %	0.5 %	1.5 %	0.7 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430662-07 WG1934432
Analysis started at: 6/15/2024 1:14:07 PM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0088 ppm	-0.0009 ppm	0.0176 ppm	0.0169 ppm	0.0000 ppm	111.0395 ppm
Concentration per Run 1	-0.0005 ppm	0.0046 ppm	0.0000 ppm	0.0180 ppm	0.0172 ppm	0.0000 ppm	111.8574 ppm
Concentration per Run 2	-0.0001 ppm	0.0127 ppm	-0.0019 ppm	0.0185 ppm	0.0170 ppm	0.0000 ppm	110.8400 ppm
Concentration per Run 3	-0.0003 ppm	0.0091 ppm	-0.0008 ppm	0.0164 ppm	0.0166 ppm	0.0000 ppm	110.4210 ppm
Concentration RSD	64.6 %	46.4 %	110.8 %	6.2 %	1.6 %	345.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0033 ppm	0.0000 ppm	0.0009 ppm	0.2641 ppm	1.4202 ppm	0.0026 ppm
Concentration per Run 1	-0.0001 ppm	0.0029 ppm	-0.0002 ppm	0.0007 ppm	0.2646 ppm	1.4456 ppm	0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0036 ppm	-0.0001 ppm	0.0010 ppm	0.2639 ppm	1.4306 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0035 ppm	0.0002 ppm	0.0011 ppm	0.2637 ppm	1.3845 ppm	0.0026 ppm
Concentration RSD	128.3 %	11.2 %	402.0 %	23.1 %	0.2 %	2.2 %	39.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.0611 ppm	0.4093 ppm	-0.0013 ppm	16.9020 ppm	0.0015 ppm	-0.0003 ppm	-0.0017 ppm
Concentration per Run 1	7.1898 ppm	0.4122 ppm	-0.0009 ppm	17.0349 ppm	0.0018 ppm	-0.0009 ppm	-0.0029 ppm
Concentration per Run 2	7.0588 ppm	0.4090 ppm	-0.0015 ppm	16.8665 ppm	0.0008 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 3	6.9347 ppm	0.4067 ppm	-0.0015 ppm	16.8047 ppm	0.0020 ppm	0.0001 ppm	-0.0016 ppm
Concentration RSD	1.8 %	0.7 %	29.2 %	0.7 %	41.5 %	228.4 %	70.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	6.2886 ppm	-0.0009 ppm	0.6808 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0026 ppm	6.3986 ppm	-0.0006 ppm	0.6827 ppm	-0.0004 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	6.3110 ppm	-0.0003 ppm	0.6822 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	-0.0041 ppm	6.1562 ppm	-0.0019 ppm	0.6776 ppm	-0.0004 ppm	0.0018 ppm	-0.0002 ppm
Concentration RSD	80.8 %	2.0 %	92.3 %	0.4 %	91.3 %	466.3 %	154.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	97.0346 %	103.1191 %	94.5385 %	94.8945 %	101.0809 %	96.1674 %
Concentration per Run 1	0.0014 ppm	95.3783 %	102.1884 %	94.0662 %	94.1283 %	101.1113 %	96.3467 %
Concentration per Run 2	0.0013 ppm	96.6489 %	103.6329 %	94.4359 %	94.7211 %	101.4903 %	96.2519 %
Concentration per Run 3	0.0010 ppm	99.0766 %	103.5360 %	95.1134 %	95.8340 %	100.6411 %	95.9036 %
Concentration RSD	16.2 %	1.9 %	0.8 %	0.6 %	0.9 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430662-12 WG1934432
Analysis started at: 6/15/2024 1:18:11 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0100 ppm	-0.0005 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0312 ppm
Concentration per Run 1	-0.0001 ppm	0.0119 ppm	0.0003 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0322 ppm
Concentration per Run 2	0.0002 ppm	0.0066 ppm	-0.0016 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0329 ppm
Concentration per Run 3	0.0000 ppm	0.0115 ppm	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0285 ppm
Concentration RSD	254.5 %	29.3 %	173.5 %	31.2 %	143.6 %	242.7 %	7.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0078 ppm	-0.0012 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0083 ppm	0.0096 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0074 ppm	0.0045 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0003 ppm	0.0077 ppm	-0.0177 ppm	0.0037 ppm
Concentration RSD	242.2 %	1,175.8 %	205.3 %	46.2 %	5.9 %	1,201.8 %	130.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0024 ppm	0.0003 ppm	-0.0016 ppm	-0.0218 ppm	-0.0007 ppm	-0.0005 ppm	-0.0028 ppm
Concentration per Run 1	0.0028 ppm	0.0003 ppm	-0.0018 ppm	-0.0254 ppm	-0.0005 ppm	-0.0006 ppm	-0.0021 ppm
Concentration per Run 2	0.0022 ppm	0.0002 ppm	-0.0020 ppm	-0.0212 ppm	-0.0004 ppm	-0.0005 ppm	-0.0022 ppm
Concentration per Run 3	0.0022 ppm	0.0003 ppm	-0.0011 ppm	-0.0187 ppm	-0.0011 ppm	-0.0003 ppm	-0.0041 ppm
Concentration RSD	14.2 %	26.6 %	31.5 %	15.5 %	57.3 %	30.9 %	39.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	-0.0090 ppm	-0.0014 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0008 ppm	-0.0062 ppm	-0.0012 ppm	0.0001 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0015 ppm	-0.0098 ppm	-0.0021 ppm	0.0001 ppm	-0.0006 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0019 ppm	-0.0109 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration RSD	1,725.7 %	27.2 %	36.9 %	73.3 %	93.1 %	119.7 %	136.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	104.3827 %	105.5046 %	107.1104 %	105.2351 %	102.5604 %	102.8065 %
Concentration per Run 1	0.0008 ppm	98.1912 %	105.2205 %	107.6266 %	100.0057 %	102.5379 %	104.9264 %
Concentration per Run 2	0.0006 ppm	98.3905 %	105.1366 %	107.0717 %	99.7817 %	101.8176 %	102.2957 %
Concentration per Run 3	0.0002 ppm	116.5664 %	106.1567 %	106.6329 %	115.9179 %	103.3257 %	101.1972 %
Concentration RSD	56.4 %	10.1 %	0.5 %	0.5 %	8.8 %	0.7 %	1.9 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 1:22:12 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5162 ppm	0.5081 ppm	0.4801 ppm	0.5090 ppm	0.5030 ppm	0.5104 ppm	0.4975 ppm
Concentration per Run 1	0.5228 ppm	0.5010 ppm	0.4834 ppm	0.5139 ppm	0.5034 ppm	0.5109 ppm	0.4979 ppm
Concentration per Run 2	0.5160 ppm	0.5078 ppm	0.4792 ppm	0.5069 ppm	0.5042 ppm	0.5094 ppm	0.4982 ppm
Concentration per Run 3	0.5096 ppm	0.5155 ppm	0.4776 ppm	0.5062 ppm	0.5013 ppm	0.5108 ppm	0.4965 ppm
Recovery Percentage 1	103.231 %	101.619 %	96.016 %	101.802 %	100.592 %	102.071 %	99.510 %
Concentration RSD	1.3 %	1.4 %	0.6 %	0.8 %	0.3 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5168 ppm	0.5231 ppm	0.5061 ppm	0.5098 ppm	0.5182 ppm	5.3270 ppm	0.5098 ppm
Concentration per Run 1	0.5267 ppm	0.5324 ppm	0.5142 ppm	0.5189 ppm	0.5170 ppm	5.4326 ppm	0.5160 ppm
Concentration per Run 2	0.5160 ppm	0.5221 ppm	0.5066 ppm	0.5089 ppm	0.5196 ppm	5.2976 ppm	0.5093 ppm
Concentration per Run 3	0.5077 ppm	0.5147 ppm	0.4974 ppm	0.5014 ppm	0.5179 ppm	5.2509 ppm	0.5042 ppm
Recovery Percentage 1	103.366 %	104.614 %	101.220 %	101.950 %	103.637 %	106.540 %	101.964 %
Concentration RSD	1.8 %	1.7 %	1.7 %	1.7 %	0.3 %	1.8 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5132 ppm	0.4986 ppm	0.5085 ppm	10.2754 ppm	0.5200 ppm	0.5024 ppm	0.4998 ppm
Concentration per Run 1	0.5228 ppm	0.5000 ppm	0.5120 ppm	10.3156 ppm	0.5294 ppm	0.5057 ppm	0.5019 ppm
Concentration per Run 2	0.5108 ppm	0.4982 ppm	0.5089 ppm	10.2560 ppm	0.5213 ppm	0.5015 ppm	0.5004 ppm
Concentration per Run 3	0.5061 ppm	0.4975 ppm	0.5047 ppm	10.2547 ppm	0.5092 ppm	0.5000 ppm	0.4972 ppm
Recovery Percentage 1	102.647 %	99.710 %	101.709 %	102.754 %	103.993 %	100.474 %	99.969 %
Concentration RSD	1.7 %	0.3 %	0.7 %	0.3 %	2.0 %	0.6 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4879 ppm	5.2734 ppm	0.5192 ppm	0.5097 ppm	0.5122 ppm	0.5108 ppm	0.5050 ppm
Concentration per Run 1	0.4907 ppm	5.3564 ppm	0.5223 ppm	0.5080 ppm	0.5187 ppm	0.5136 ppm	0.5124 ppm
Concentration per Run 2	0.4897 ppm	5.2666 ppm	0.5211 ppm	0.5105 ppm	0.5115 ppm	0.5107 ppm	0.5048 ppm
Concentration per Run 3	0.4835 ppm	5.1973 ppm	0.5141 ppm	0.5107 ppm	0.5064 ppm	0.5082 ppm	0.4979 ppm
Recovery Percentage 1	97.587 %	100.447 %	103.836 %	101.947 %	102.442 %	102.169 %	101.007 %
Concentration RSD	0.8 %	1.5 %	0.9 %	0.3 %	1.2 %	0.5 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5160 ppm	108.2310 %	109.8902 %	106.2656 %	97.2385 %	101.0299 %	98.2048 %
Concentration per Run 1	0.5258 ppm	106.0255 %	109.4826 %	105.7137 %	95.9987 %	101.2366 %	98.3411 %
Concentration per Run 2	0.5176 ppm	108.5813 %	110.3001 %	107.0930 %	97.7995 %	101.4133 %	98.8570 %
Concentration per Run 3	0.5045 ppm	110.0863 %	109.8878 %	105.9903 %	97.9173 %	100.4396 %	97.4161 %
Recovery Percentage 1	103.197 %						
Concentration RSD	2.1 %	1.9 %	0.4 %	0.7 %	1.1 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 1:26:09 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	-0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0071 ppm	-0.0013 ppm	-0.0019 ppm	0.0002 ppm	0.0001 ppm	-0.0028 ppm
Concentration per Run 2	0.0001 ppm	0.0020 ppm	-0.0007 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0018 ppm
Concentration per Run 3	0.0001 ppm	0.0060 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm
Recovery Percentage 1	2.245 %	0.282 %	-28.300 %	-0.337 %	0.669 %	1.666 %	-0.114 %
Concentration RSD	29.4 %	2,380.6 %	44.1 %	1,579.8 %	162.7 %	19.5 %	3,362.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0042 ppm	-0.0061 ppm	0.0010 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0016 ppm	-0.0170 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0060 ppm	-0.0259 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0048 ppm	0.0247 ppm	0.0021 ppm
Recovery Percentage 1	1.136 %	-0.253 %	-1.047 %	5.433 %	8.311 %	-0.243 %	10.148 %
Concentration RSD	170.8 %	563.5 %	158.2 %	32.7 %	54.6 %	444.4 %	152.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0002 ppm	-0.0005 ppm	-0.0455 ppm	-0.0011 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 1	-0.0017 ppm	0.0004 ppm	-0.0005 ppm	-0.0457 ppm	-0.0013 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run 2	0.0012 ppm	-0.0001 ppm	-0.0002 ppm	-0.0386 ppm	-0.0003 ppm	0.0006 ppm	0.0013 ppm
Concentration per Run 3	0.0027 ppm	0.0001 ppm	-0.0006 ppm	-0.0522 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	0.735 %	1.630 %	-0.902 %	-2.274 %	-4.247 %	0.665 %	1.856 %
Concentration RSD	305.4 %	141.4 %	48.3 %	14.9 %	60.4 %	708.4 %	88.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	-0.0117 ppm	0.0004 ppm	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0028 ppm	-0.0112 ppm	0.0009 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0005 ppm	-0.0112 ppm	0.0002 ppm	0.0001 ppm	-0.0006 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	-0.0126 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	-6.048 %	-2.330 %	0.869 %	0.715 %	-4.950 %	-1.693 %	1.739 %
Concentration RSD	360.9 %	7.2 %	89.3 %	68.0 %	13.0 %	137.0 %	113.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	98.7286 %	101.1772 %	100.2046 %	98.3608 %	100.9944 %	99.8742 %
Concentration per Run 1	0.0005 ppm	96.6617 %	100.7740 %	99.3024 %	97.2612 %	101.6113 %	100.2306 %
Concentration per Run 2	0.0005 ppm	98.9406 %	101.1259 %	100.1657 %	98.7794 %	100.9034 %	99.5933 %
Concentration per Run 3	0.0005 ppm	100.5835 %	101.6317 %	101.1457 %	99.0418 %	100.4687 %	99.7987 %
Recovery Percentage 1	9.904 %						
Concentration RSD	3.7 %	2.0 %	0.4 %	0.9 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934441-1 WG1934441
Analysis started at: 6/15/2024 1:38:39 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0211 ppm	-0.0009 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0142 ppm
Concentration per Run 1	-0.0004 ppm	0.0191 ppm	-0.0025 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0148 ppm
Concentration per Run 2	-0.0005 ppm	0.0198 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 3	0.0002 ppm	0.0246 ppm	-0.0002 ppm	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0145 ppm
Concentration RSD	180.1 %	14.2 %	154.4 %	56.0 %	54.6 %	208.0 %	5.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0748 ppm	-0.0236 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0740 ppm	-0.0314 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0758 ppm	-0.0054 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0745 ppm	-0.0342 ppm	-0.0005 ppm
Concentration RSD	123.2 %	76.9 %	102.2 %	63.4 %	1.3 %	67.2 %	67.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0035 ppm	0.0004 ppm	-0.0015 ppm	-0.0340 ppm	-0.0004 ppm	0.0002 ppm	-0.0016 ppm
Concentration per Run 1	0.0034 ppm	0.0004 ppm	-0.0013 ppm	-0.0336 ppm	-0.0003 ppm	0.0003 ppm	-0.0030 ppm
Concentration per Run 2	0.0044 ppm	0.0003 ppm	-0.0016 ppm	-0.0324 ppm	0.0000 ppm	-0.0005 ppm	-0.0009 ppm
Concentration per Run 3	0.0027 ppm	0.0005 ppm	-0.0017 ppm	-0.0361 ppm	-0.0010 ppm	0.0006 ppm	-0.0009 ppm
Concentration RSD	24.5 %	24.1 %	15.6 %	5.5 %	118.0 %	371.4 %	78.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0032 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 2	0.0007 ppm	-0.0033 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0005 ppm	-0.0074 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm	0.0002 ppm
Concentration RSD	178.5 %	133.3 %	55.7 %	347.4 %	77.5 %	82.1 %	280.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	127.6433 %	114.4084 %	119.5057 %	100.0736 %	101.2948 %	100.3432 %
Concentration per Run 1	0.0011 ppm	128.7458 %	115.9170 %	120.1122 %	99.7689 %	102.4709 %	100.1661 %
Concentration per Run 2	0.0012 ppm	127.6424 %	113.2252 %	119.7131 %	99.9843 %	100.4266 %	100.4029 %
Concentration per Run 3	0.0014 ppm	126.5415 %	114.0831 %	118.6918 %	100.4675 %	100.9868 %	100.4605 %
Concentration RSD	10.6 %	0.9 %	1.2 %	0.6 %	0.4 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934441-2D2 WG1934441
Analysis started at: 6/15/2024 1:42:48 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0535 ppm	2.0821 ppm	0.1254 ppm	1.0690 ppm	2.0608 ppm	0.0517 ppm	10.5654 ppm
Concentration per Run 1	0.0544 ppm	2.1013 ppm	0.1277 ppm	1.0919 ppm	2.0785 ppm	0.0520 ppm	10.6234 ppm
Concentration per Run 2	0.0538 ppm	2.0795 ppm	0.1226 ppm	1.0655 ppm	2.0561 ppm	0.0518 ppm	10.5880 ppm
Concentration per Run 3	0.0523 ppm	2.0656 ppm	0.1260 ppm	1.0496 ppm	2.0478 ppm	0.0513 ppm	10.4849 ppm
Concentration RSD	2.1 %	0.9 %	2.0 %	2.0 %	0.8 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0578 ppm	0.5320 ppm	0.2091 ppm	0.2711 ppm	1.0635 ppm	10.9512 ppm	0.0017 ppm
Concentration per Run 1	0.0588 ppm	0.5430 ppm	0.2138 ppm	0.2771 ppm	1.0617 ppm	11.0549 ppm	0.0026 ppm
Concentration per Run 2	0.0581 ppm	0.5327 ppm	0.2096 ppm	0.2707 ppm	1.0693 ppm	11.0052 ppm	0.0019 ppm
Concentration per Run 3	0.0566 ppm	0.5202 ppm	0.2039 ppm	0.2654 ppm	1.0596 ppm	10.7936 ppm	0.0007 ppm
Concentration RSD	1.9 %	2.2 %	2.4 %	2.2 %	0.5 %	1.3 %	56.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8256 ppm	0.5182 ppm	1.0778 ppm	10.8391 ppm	0.5305 ppm	0.5656 ppm	0.5413 ppm
Concentration per Run 1	11.0441 ppm	0.5218 ppm	1.0828 ppm	10.8857 ppm	0.5404 ppm	0.5731 ppm	0.5500 ppm
Concentration per Run 2	10.8350 ppm	0.5191 ppm	1.0800 ppm	10.8663 ppm	0.5312 ppm	0.5628 ppm	0.5390 ppm
Concentration per Run 3	10.5976 ppm	0.5136 ppm	1.0704 ppm	10.7653 ppm	0.5199 ppm	0.5608 ppm	0.5350 ppm
Concentration RSD	2.1 %	0.8 %	0.6 %	0.6 %	1.9 %	1.2 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1252 ppm	1.0660 ppm	1.0201 ppm	1.0225 ppm	1.0834 ppm	0.1260 ppm	0.5332 ppm
Concentration per Run 1	0.1265 ppm	1.0865 ppm	1.0278 ppm	1.0260 ppm	1.1043 ppm	0.1275 ppm	0.5450 ppm
Concentration per Run 2	0.1230 ppm	1.0640 ppm	1.0145 ppm	1.0234 ppm	1.0855 ppm	0.1252 ppm	0.5338 ppm
Concentration per Run 3	0.1262 ppm	1.0474 ppm	1.0181 ppm	1.0179 ppm	1.0603 ppm	0.1254 ppm	0.5209 ppm
Concentration RSD	1.6 %	1.8 %	0.7 %	0.4 %	2.0 %	1.0 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5306 ppm	103.2876 %	106.7533 %	100.8217 %	95.9717 %	99.6750 %	97.2373 %
Concentration per Run 1	0.5422 ppm	100.9977 %	106.5277 %	99.6666 %	95.1317 %	99.8647 %	97.1151 %
Concentration per Run 2	0.5315 ppm	103.4708 %	105.8466 %	100.9109 %	96.3977 %	99.2735 %	97.1290 %
Concentration per Run 3	0.5182 ppm	105.3943 %	107.8856 %	101.8876 %	96.3858 %	99.8869 %	97.4679 %
Concentration RSD	2.3 %	2.1 %	1.0 %	1.1 %	0.8 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2429828-07d2 WG1934441
Analysis started at: 6/15/2024 1:46:44 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	32.4215 ppm	0.0057 ppm	0.0138 ppm	0.1921 ppm	0.0013 ppm	10.9365 ppm
Concentration per Run 1	0.0006 ppm	32.6525 ppm	0.0057 ppm	0.0143 ppm	0.1939 ppm	0.0013 ppm	11.0044 ppm
Concentration per Run 2	0.0002 ppm	32.4128 ppm	0.0035 ppm	0.0149 ppm	0.1918 ppm	0.0013 ppm	10.9315 ppm
Concentration per Run 3	0.0003 ppm	32.1993 ppm	0.0078 ppm	0.0123 ppm	0.1906 ppm	0.0012 ppm	10.8737 ppm
Concentration RSD	54.0 %	0.7 %	37.8 %	10.1 %	0.9 %	1.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0300 ppm	0.2283 ppm	0.2126 ppm	41.1422 ppm	0.6026 ppm	0.0384 ppm
Concentration per Run 1	0.0021 ppm	0.0306 ppm	0.2326 ppm	0.2184 ppm	41.3196 ppm	0.6224 ppm	0.0390 ppm
Concentration per Run 2	0.0020 ppm	0.0293 ppm	0.2276 ppm	0.2106 ppm	41.0737 ppm	0.6075 ppm	0.0396 ppm
Concentration per Run 3	0.0022 ppm	0.0302 ppm	0.2248 ppm	0.2088 ppm	41.0334 ppm	0.5780 ppm	0.0365 ppm
Concentration RSD	3.9 %	2.3 %	1.7 %	2.4 %	0.4 %	3.7 %	4.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6775 ppm	0.3800 ppm	0.0013 ppm	0.2592 ppm	0.1072 ppm	0.0338 ppm	0.0004 ppm
Concentration per Run 1	9.8869 ppm	0.3819 ppm	0.0012 ppm	0.2626 ppm	0.1092 ppm	0.0332 ppm	0.0028 ppm
Concentration per Run 2	9.6502 ppm	0.3800 ppm	0.0011 ppm	0.2589 ppm	0.1064 ppm	0.0352 ppm	-0.0009 ppm
Concentration per Run 3	9.4954 ppm	0.3782 ppm	0.0016 ppm	0.2562 ppm	0.1059 ppm	0.0330 ppm	-0.0008 ppm
Concentration RSD	2.0 %	0.5 %	22.4 %	1.2 %	1.7 %	3.6 %	572.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.9093 ppm	0.0023 ppm	0.0469 ppm	3.0068 ppm	-0.0008 ppm	0.1724 ppm
Concentration per Run 1	0.0027 ppm	5.0218 ppm	0.0023 ppm	0.0475 ppm	3.0626 ppm	-0.0011 ppm	0.1747 ppm
Concentration per Run 2	-0.0001 ppm	4.8472 ppm	0.0021 ppm	0.0466 ppm	3.0005 ppm	0.0005 ppm	0.1747 ppm
Concentration per Run 3	-0.0021 ppm	4.8589 ppm	0.0025 ppm	0.0467 ppm	2.9574 ppm	-0.0020 ppm	0.1679 ppm
Concentration RSD	1,220.4 %	2.0 %	8.2 %	1.0 %	1.8 %	151.0 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0079 ppm	105.2039 %	111.1896 %	101.1461 %	107.4437 %	113.8767 %	109.9141 %
Concentration per Run 1	2.0486 ppm	102.6075 %	110.5377 %	100.1340 %	106.3423 %	114.1485 %	109.9751 %
Concentration per Run 2	2.0081 ppm	106.2448 %	111.8398 %	100.9097 %	108.1591 %	114.3009 %	109.6602 %
Concentration per Run 3	1.9669 ppm	106.7593 %	111.1913 %	102.3945 %	107.8295 %	113.1806 %	110.1070 %
Concentration RSD	2.0 %	2.2 %	0.6 %	1.1 %	0.9 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2429828-08d2 WG1934441
Analysis started at: 6/15/2024 1:50:41 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	61.6498 ppm	0.0217 ppm	0.0218 ppm	0.2549 ppm	0.0022 ppm	22.9950 ppm
Concentration per Run 1	0.0019 ppm	61.7240 ppm	0.0220 ppm	0.0224 ppm	0.2557 ppm	0.0021 ppm	22.9987 ppm
Concentration per Run 2	0.0016 ppm	61.6841 ppm	0.0217 ppm	0.0212 ppm	0.2551 ppm	0.0022 ppm	23.0549 ppm
Concentration per Run 3	0.0014 ppm	61.5413 ppm	0.0215 ppm	0.0219 ppm	0.2540 ppm	0.0022 ppm	22.9314 ppm
Concentration RSD	15.0 %	0.2 %	1.2 %	2.7 %	0.3 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0736 ppm	0.4226 ppm	3.2927 ppm	106.6470 ppm	1.0556 ppm	0.0681 ppm
Concentration per Run 1	0.0024 ppm	0.0753 ppm	0.4307 ppm	3.3461 ppm	106.9480 ppm	1.0625 ppm	0.0694 ppm
Concentration per Run 2	0.0023 ppm	0.0739 ppm	0.4225 ppm	3.3043 ppm	106.8158 ppm	1.0683 ppm	0.0685 ppm
Concentration per Run 3	0.0022 ppm	0.0717 ppm	0.4146 ppm	3.2278 ppm	106.1773 ppm	1.0361 ppm	0.0665 ppm
Concentration RSD	3.2 %	2.4 %	1.9 %	1.8 %	0.4 %	1.6 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.2937 ppm	0.8283 ppm	0.0021 ppm	1.5859 ppm	0.2626 ppm	1.3757 ppm	0.0083 ppm
Concentration per Run 1	28.9122 ppm	0.8298 ppm	0.0016 ppm	1.5964 ppm	0.2686 ppm	1.3870 ppm	0.0102 ppm
Concentration per Run 2	28.2661 ppm	0.8286 ppm	0.0027 ppm	1.5890 ppm	0.2617 ppm	1.3783 ppm	0.0073 ppm
Concentration per Run 3	27.7029 ppm	0.8266 ppm	0.0020 ppm	1.5722 ppm	0.2576 ppm	1.3619 ppm	0.0073 ppm
Concentration RSD	2.1 %	0.2 %	25.9 %	0.8 %	2.1 %	0.9 %	20.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	4.4001 ppm	0.0625 ppm	0.0967 ppm	6.9929 ppm	0.0013 ppm	0.3410 ppm
Concentration per Run 1	0.0025 ppm	4.4905 ppm	0.0613 ppm	0.0974 ppm	7.1236 ppm	0.0013 ppm	0.3467 ppm
Concentration per Run 2	0.0013 ppm	4.4276 ppm	0.0628 ppm	0.0968 ppm	6.9835 ppm	0.0017 ppm	0.3385 ppm
Concentration per Run 3	0.0026 ppm	4.2821 ppm	0.0635 ppm	0.0961 ppm	6.8717 ppm	0.0010 ppm	0.3378 ppm
Concentration RSD	35.0 %	2.4 %	1.8 %	0.7 %	1.8 %	29.2 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.8204 ppm	111.6540 %	118.5169 %	100.0665 %	111.3614 %	120.1655 %	114.2396 %
Concentration per Run 1	2.8818 ppm	109.0394 %	118.4366 %	99.5380 %	110.5094 %	120.6932 %	114.7920 %
Concentration per Run 2	2.8067 ppm	111.7276 %	117.8222 %	99.5177 %	111.5132 %	119.3617 %	113.4127 %
Concentration per Run 3	2.7728 ppm	114.1949 %	119.2918 %	101.1437 %	112.0615 %	120.4416 %	114.5143 %
Concentration RSD	2.0 %	2.3 %	0.6 %	0.9 %	0.7 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: eL2432356-01d2 WG1934441
Analysis started at: 6/15/2024 1:54:39 PM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0537 ppm	0.0221 ppm	0.1097 ppm	0.0139 ppm	0.0028 ppm	0.0001 ppm	29.2148 ppm
Concentration per Run 1	0.0544 ppm	0.0212 ppm	0.1089 ppm	0.0147 ppm	0.0029 ppm	0.0002 ppm	29.2440 ppm
Concentration per Run 2	0.0537 ppm	0.0310 ppm	0.1091 ppm	0.0138 ppm	0.0027 ppm	0.0002 ppm	29.2562 ppm
Concentration per Run 3	0.0530 ppm	0.0140 ppm	0.1109 ppm	0.0131 ppm	0.0029 ppm	0.0001 ppm	29.1441 ppm
Concentration RSD	1.3 %	38.8 %	1.0 %	5.8 %	3.8 %	27.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0019 ppm	0.0023 ppm	**482.3123 ppm**	0.2740 ppm	32.7788 ppm	0.0021 ppm
Concentration per Run 1	0.0004 ppm	0.0023 ppm	0.0022 ppm	494.8114 ppm	0.2761 ppm	32.9029 ppm	0.0022 ppm
Concentration per Run 2	0.0004 ppm	0.0019 ppm	0.0023 ppm	482.9502 ppm	0.2752 ppm	32.8783 ppm	0.0034 ppm
Concentration per Run 3	0.0004 ppm	0.0015 ppm	0.0024 ppm	469.1753 ppm	0.2708 ppm	32.5552 ppm	0.0009 ppm
Concentration RSD	4.4 %	22.5 %	3.0 %	2.7 %	1.0 %	0.6 %	59.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.0019 ppm	0.0180 ppm	-0.0009 ppm	**543.3329 ppm**	0.0773 ppm	0.5011 ppm	0.0246 ppm
Concentration per Run 1	4.0851 ppm	0.0181 ppm	-0.0010 ppm	544.4273 ppm	0.0789 ppm	0.5048 ppm	0.0254 ppm
Concentration per Run 2	3.9997 ppm	0.0181 ppm	-0.0014 ppm	542.8450 ppm	0.0771 ppm	0.5008 ppm	0.0234 ppm
Concentration per Run 3	3.9209 ppm	0.0179 ppm	-0.0004 ppm	542.7264 ppm	0.0760 ppm	0.4975 ppm	0.0251 ppm
Concentration RSD	2.1 %	0.5 %	58.5 %	0.2 %	1.9 %	0.7 %	4.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0240 ppm	0.1270 ppm	2.1658 ppm	0.0094 ppm	0.0084 ppm	-0.0001 ppm	-0.0142 ppm
Concentration per Run 1	0.0244 ppm	0.1278 ppm	2.1784 ppm	0.0094 ppm	0.0080 ppm	0.0006 ppm	-0.0142 ppm
Concentration per Run 2	0.0243 ppm	0.1293 ppm	2.1643 ppm	0.0094 ppm	0.0087 ppm	-0.0005 ppm	-0.0143 ppm
Concentration per Run 3	0.0233 ppm	0.1239 ppm	2.1548 ppm	0.0093 ppm	0.0083 ppm	-0.0003 ppm	-0.0142 ppm
Concentration RSD	2.6 %	2.2 %	0.5 %	0.6 %	3.9 %	839.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	9.1962 ppm	96.4885 %	107.9568 %	89.5153 %	85.4925 %	97.9734 %	**10.5729 %**
Concentration per Run 1	9.4010 ppm	93.9797 %	108.1435 %	88.9790 %	84.2060 %	98.4309 %	**10.0108 %**
Concentration per Run 2	9.1931 ppm	96.6500 %	107.1108 %	89.5106 %	85.7365 %	97.0952 %	**10.3401 %**
Concentration per Run 3	8.9943 ppm	98.8357 %	108.6162 %	90.0562 %	86.5349 %	98.3942 %	**11.3677 %**
Concentration RSD	2.2 %	2.5 %	0.7 %	0.6 %	1.4 %	0.8 %	**6.7 %**

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-01d2 WG1934441
Analysis started at: 6/15/2024 1:58:38 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	15.8316 ppm	0.0088 ppm	0.0080 ppm	0.0560 ppm	0.0007 ppm	123.7706 ppm
Concentration per Run 1	-0.0001 ppm	15.8738 ppm	0.0075 ppm	0.0090 ppm	0.0561 ppm	0.0007 ppm	124.1554 ppm
Concentration per Run 2	-0.0006 ppm	15.8387 ppm	0.0094 ppm	0.0077 ppm	0.0563 ppm	0.0007 ppm	123.6293 ppm
Concentration per Run 3	0.0002 ppm	15.7823 ppm	0.0096 ppm	0.0074 ppm	0.0554 ppm	0.0007 ppm	123.5271 ppm
Concentration RSD	256.1 %	0.3 %	12.9 %	10.5 %	0.9 %	3.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0171 ppm	0.0227 ppm	0.0428 ppm	38.9463 ppm	1.5116 ppm	0.0376 ppm
Concentration per Run 1	0.0004 ppm	0.0171 ppm	0.0233 ppm	0.0440 ppm	38.9286 ppm	1.5393 ppm	0.0416 ppm
Concentration per Run 2	0.0002 ppm	0.0170 ppm	0.0225 ppm	0.0424 ppm	38.8699 ppm	1.5011 ppm	0.0338 ppm
Concentration per Run 3	0.0002 ppm	0.0171 ppm	0.0223 ppm	0.0419 ppm	39.0403 ppm	1.4944 ppm	0.0374 ppm
Concentration RSD	32.0 %	0.2 %	2.4 %	2.6 %	0.2 %	1.6 %	10.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.7445 ppm	0.7501 ppm	-0.0001 ppm	6.0057 ppm	0.0453 ppm	0.0248 ppm	-0.0017 ppm
Concentration per Run 1	29.2532 ppm	0.7514 ppm	0.0000 ppm	6.0395 ppm	0.0460 ppm	0.0249 ppm	-0.0001 ppm
Concentration per Run 2	28.7332 ppm	0.7508 ppm	-0.0002 ppm	5.9782 ppm	0.0455 ppm	0.0253 ppm	-0.0019 ppm
Concentration per Run 3	28.2472 ppm	0.7479 ppm	0.0000 ppm	5.9993 ppm	0.0444 ppm	0.0242 ppm	-0.0031 ppm
Concentration RSD	1.8 %	0.2 %	96.8 %	0.5 %	1.8 %	2.3 %	89.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	2.5767 ppm	0.0018 ppm	0.1457 ppm	0.2543 ppm	0.0005 ppm	0.0388 ppm
Concentration per Run 1	-0.0028 ppm	2.6050 ppm	0.0013 ppm	0.1452 ppm	0.2610 ppm	0.0024 ppm	0.0395 ppm
Concentration per Run 2	-0.0017 ppm	2.5977 ppm	0.0027 ppm	0.1466 ppm	0.2526 ppm	-0.0008 ppm	0.0386 ppm
Concentration per Run 3	-0.0021 ppm	2.5274 ppm	0.0013 ppm	0.1454 ppm	0.2493 ppm	0.0001 ppm	0.0383 ppm
Concentration RSD	24.4 %	1.7 %	46.0 %	0.5 %	2.4 %	298.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1882 ppm	100.3297 %	106.5306 %	96.2199 %	104.6749 %	111.7450 %	106.5384 %
Concentration per Run 1	0.1920 ppm	98.9186 %	105.9208 %	94.8266 %	104.6130 %	111.6629 %	106.4763 %
Concentration per Run 2	0.1869 ppm	100.0645 %	106.5518 %	96.5724 %	104.4314 %	111.4886 %	106.7816 %
Concentration per Run 3	0.1857 ppm	102.0059 %	107.1191 %	97.2607 %	104.9803 %	112.0837 %	106.3574 %
Concentration RSD	1.8 %	1.6 %	0.6 %	1.3 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934441-3d2 WG1934441
Analysis started at: 6/15/2024 2:02:34 PM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0533 ppm	19.4734 ppm	0.1371 ppm	1.0380 ppm	2.0539 ppm	0.0517 ppm	138.3464 ppm
Concentration per Run 1	0.0547 ppm	19.5418 ppm	0.1390 ppm	1.0644 ppm	2.0601 ppm	0.0518 ppm	138.6081 ppm
Concentration per Run 2	0.0525 ppm	19.4235 ppm	0.1364 ppm	1.0304 ppm	2.0548 ppm	0.0518 ppm	138.4472 ppm
Concentration per Run 3	0.0527 ppm	19.4549 ppm	0.1359 ppm	1.0192 ppm	2.0470 ppm	0.0516 ppm	137.9840 ppm
Concentration RSD	2.2 %	0.3 %	1.2 %	2.3 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0552 ppm	0.5184 ppm	0.2246 ppm	0.2986 ppm	42.3046 ppm	12.1175 ppm	0.0363 ppm
Concentration per Run 1	0.0570 ppm	0.5338 ppm	0.2315 ppm	0.3073 ppm	42.4088 ppm	12.1622 ppm	0.0374 ppm
Concentration per Run 2	0.0547 ppm	0.5147 ppm	0.2238 ppm	0.2967 ppm	42.3526 ppm	12.1294 ppm	0.0362 ppm
Concentration per Run 3	0.0539 ppm	0.5067 ppm	0.2186 ppm	0.2918 ppm	42.1524 ppm	12.0609 ppm	0.0352 ppm
Concentration RSD	2.9 %	2.7 %	2.9 %	2.6 %	0.3 %	0.4 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.9614 ppm	1.5356 ppm	1.0398 ppm	15.8941 ppm	0.5383 ppm	0.5729 ppm	0.5179 ppm
Concentration per Run 1	37.0065 ppm	1.5384 ppm	1.0501 ppm	15.9346 ppm	0.5517 ppm	0.5774 ppm	0.5332 ppm
Concentration per Run 2	35.7386 ppm	1.5355 ppm	1.0387 ppm	15.8722 ppm	0.5366 ppm	0.5712 ppm	0.5153 ppm
Concentration per Run 3	35.1391 ppm	1.5327 ppm	1.0306 ppm	15.8756 ppm	0.5266 ppm	0.5700 ppm	0.5051 ppm
Concentration RSD	2.7 %	0.2 %	0.9 %	0.2 %	2.3 %	0.7 %	2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1241 ppm	3.5909 ppm	0.9031 ppm	1.1649 ppm	1.7336 ppm	0.1223 ppm	0.5805 ppm
Concentration per Run 1	0.1229 ppm	3.7152 ppm	0.9263 ppm	1.1615 ppm	1.7797 ppm	0.1223 ppm	0.5961 ppm
Concentration per Run 2	0.1241 ppm	3.5720 ppm	0.8898 ppm	1.1668 ppm	1.7277 ppm	0.1206 ppm	0.5778 ppm
Concentration per Run 3	0.1252 ppm	3.4854 ppm	0.8934 ppm	1.1665 ppm	1.6933 ppm	0.1240 ppm	0.5674 ppm
Concentration RSD	0.9 %	3.2 %	2.2 %	0.3 %	2.5 %	1.4 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6622 ppm	102.8033 %	109.3762 %	96.3607 %	102.4592 %	111.4603 %	105.6691 %
Concentration per Run 1	0.6802 ppm	99.7239 %	109.6913 %	95.4030 %	99.8181 %	112.3910 %	105.4794 %
Concentration per Run 2	0.6584 ppm	103.6735 %	109.3686 %	96.5091 %	103.8186 %	111.2831 %	105.5735 %
Concentration per Run 3	0.6481 ppm	105.0125 %	109.0688 %	97.1701 %	103.7409 %	110.7067 %	105.9545 %
Concentration RSD	2.5 %	2.7 %	0.3 %	0.9 %	2.2 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934441-4d2 WG1934441
Analysis started at: 6/15/2024 2:06:31 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	15.4186 ppm	0.0130 ppm	0.0104 ppm	0.0613 ppm	0.0008 ppm	139.6026 ppm
Concentration per Run 1	0.0003 ppm	15.5178 ppm	0.0142 ppm	0.0124 ppm	0.0618 ppm	0.0008 ppm	140.5982 ppm
Concentration per Run 2	-0.0002 ppm	15.4672 ppm	0.0134 ppm	0.0098 ppm	0.0616 ppm	0.0007 ppm	139.7945 ppm
Concentration per Run 3	0.0002 ppm	15.2709 ppm	0.0113 ppm	0.0088 ppm	0.0605 ppm	0.0008 ppm	138.4151 ppm
Concentration RSD	300.1 %	0.8 %	11.9 %	18.0 %	1.1 %	4.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0146 ppm	0.0250 ppm	0.0396 ppm	39.3622 ppm	1.6525 ppm	0.0370 ppm
Concentration per Run 1	0.0003 ppm	0.0154 ppm	0.0252 ppm	0.0407 ppm	39.4909 ppm	1.6853 ppm	0.0386 ppm
Concentration per Run 2	0.0004 ppm	0.0138 ppm	0.0252 ppm	0.0397 ppm	39.3718 ppm	1.6695 ppm	0.0369 ppm
Concentration per Run 3	0.0003 ppm	0.0145 ppm	0.0245 ppm	0.0386 ppm	39.2240 ppm	1.6028 ppm	0.0355 ppm
Concentration RSD	15.7 %	5.4 %	1.6 %	2.6 %	0.3 %	2.7 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.8816 ppm	0.9364 ppm	0.0030 ppm	4.9758 ppm	0.0420 ppm	0.0320 ppm	0.0028 ppm
Concentration per Run 1	27.4277 ppm	0.9415 ppm	0.0030 ppm	5.0243 ppm	0.0431 ppm	0.0320 ppm	0.0050 ppm
Concentration per Run 2	26.8632 ppm	0.9402 ppm	0.0029 ppm	4.9757 ppm	0.0423 ppm	0.0328 ppm	0.0021 ppm
Concentration per Run 3	26.3539 ppm	0.9274 ppm	0.0032 ppm	4.9274 ppm	0.0406 ppm	0.0311 ppm	0.0011 ppm
Concentration RSD	2.0 %	0.8 %	4.6 %	1.0 %	3.1 %	2.7 %	74.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	2.8348 ppm	0.0012 ppm	0.2017 ppm	0.3314 ppm	0.0012 ppm	0.0433 ppm
Concentration per Run 1	-0.0028 ppm	2.8997 ppm	0.0013 ppm	0.2027 ppm	0.3370 ppm	0.0017 ppm	0.0443 ppm
Concentration per Run 2	-0.0004 ppm	2.8025 ppm	0.0006 ppm	0.2014 ppm	0.3307 ppm	0.0011 ppm	0.0430 ppm
Concentration per Run 3	0.0005 ppm	2.8022 ppm	0.0016 ppm	0.2011 ppm	0.3264 ppm	0.0009 ppm	0.0425 ppm
Concentration RSD	193.3 %	2.0 %	45.5 %	0.4 %	1.6 %	31.8 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1568 ppm	100.4470 %	108.1058 %	97.1774 %	109.4219 %	118.9765 %	113.0880 %
Concentration per Run 1	0.1604 ppm	97.9737 %	106.9159 %	96.3446 %	108.1327 %	118.4900 %	112.9767 %
Concentration per Run 2	0.1560 ppm	101.0684 %	108.1614 %	97.3856 %	110.3128 %	119.0465 %	113.5104 %
Concentration per Run 3	0.1539 ppm	102.2988 %	109.2401 %	97.8019 %	109.8203 %	119.3930 %	112.7768 %
Concentration RSD	2.1 %	2.2 %	1.1 %	0.8 %	1.0 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934441-5d2 WG1934441
Analysis started at: 6/15/2024 2:10:27 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0514 ppm	17.1726 ppm	0.1452 ppm	1.1174 ppm	2.1250 ppm	0.0528 ppm	129.2909 ppm
Concentration per Run 1	0.0521 ppm	17.2355 ppm	0.1477 ppm	1.1458 ppm	2.1323 ppm	0.0532 ppm	129.8153 ppm
Concentration per Run 2	0.0518 ppm	17.2317 ppm	0.1440 ppm	1.1141 ppm	2.1313 ppm	0.0526 ppm	129.4016 ppm
Concentration per Run 3	0.0502 ppm	17.0506 ppm	0.1438 ppm	1.0924 ppm	2.1115 ppm	0.0525 ppm	128.6558 ppm
Concentration RSD	2.0 %	0.6 %	1.5 %	2.4 %	0.6 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0577 ppm	0.5390 ppm	0.2350 ppm	0.3098 ppm	38.3715 ppm	12.8416 ppm	0.0356 ppm
Concentration per Run 1	0.0592 ppm	0.5544 ppm	0.2400 ppm	0.3181 ppm	38.6051 ppm	13.0416 ppm	0.0382 ppm
Concentration per Run 2	0.0579 ppm	0.5371 ppm	0.2348 ppm	0.3094 ppm	38.2803 ppm	12.8408 ppm	0.0358 ppm
Concentration per Run 3	0.0561 ppm	0.5254 ppm	0.2301 ppm	0.3020 ppm	38.2290 ppm	12.6424 ppm	0.0328 ppm
Concentration RSD	2.7 %	2.7 %	2.1 %	2.6 %	0.5 %	1.6 %	7.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.8459 ppm	1.2332 ppm	1.0213 ppm	17.1467 ppm	0.5692 ppm	0.5907 ppm	0.4160 ppm
Concentration per Run 1	39.6932 ppm	1.2371 ppm	1.0243 ppm	17.2521 ppm	0.5847 ppm	0.5966 ppm	0.4177 ppm
Concentration per Run 2	38.9274 ppm	1.2356 ppm	1.0225 ppm	17.0881 ppm	0.5701 ppm	0.5904 ppm	0.4148 ppm
Concentration per Run 3	37.9170 ppm	1.2268 ppm	1.0171 ppm	17.1000 ppm	0.5527 ppm	0.5850 ppm	0.4153 ppm
Concentration RSD	2.3 %	0.5 %	0.4 %	0.5 %	2.8 %	1.0 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1310 ppm	3.5758 ppm	0.9457 ppm	1.2069 ppm	1.3774 ppm	0.1332 ppm	0.5869 ppm
Concentration per Run 1	0.1327 ppm	3.6785 ppm	0.9541 ppm	1.2168 ppm	1.4028 ppm	0.1349 ppm	0.5987 ppm
Concentration per Run 2	0.1313 ppm	3.5734 ppm	0.9513 ppm	1.1966 ppm	1.3760 ppm	0.1324 ppm	0.5874 ppm
Concentration per Run 3	0.1290 ppm	3.4754 ppm	0.9317 ppm	1.2072 ppm	1.3534 ppm	0.1323 ppm	0.5746 ppm
Concentration RSD	1.4 %	2.8 %	1.3 %	0.8 %	1.8 %	1.1 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7163 ppm	99.7946 %	107.0132 %	94.2257 %	103.2962 %	110.8974 %	104.8652 %
Concentration per Run 1	0.7369 ppm	97.4096 %	106.6813 %	93.0416 %	102.5120 %	111.2611 %	104.6012 %
Concentration per Run 2	0.7185 ppm	99.7920 %	107.1989 %	94.3969 %	103.1018 %	110.9483 %	104.9728 %
Concentration per Run 3	0.6935 ppm	102.1822 %	107.1593 %	95.2385 %	104.2748 %	110.4828 %	105.0214 %
Concentration RSD	3.0 %	2.4 %	0.3 %	1.2 %	0.9 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934441-6d10 WG1934441
Analysis started at: 6/15/2024 2:14:24 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	3.1100 ppm	0.0011 ppm	0.0019 ppm	0.0111 ppm	0.0001 ppm	24.7661 ppm
Concentration per Run 1	-0.0001 ppm	3.1231 ppm	0.0011 ppm	0.0020 ppm	0.0110 ppm	0.0001 ppm	24.8663 ppm
Concentration per Run 2	0.0004 ppm	3.1050 ppm	0.0022 ppm	0.0009 ppm	0.0110 ppm	0.0001 ppm	24.8438 ppm
Concentration per Run 3	-0.0004 ppm	3.1021 ppm	0.0001 ppm	0.0029 ppm	0.0111 ppm	0.0001 ppm	24.5882 ppm
Concentration RSD	2,088.3 %	0.4 %	93.4 %	51.1 %	0.2 %	22.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0036 ppm	0.0044 ppm	0.0077 ppm	7.7968 ppm	0.2724 ppm	0.0088 ppm
Concentration per Run 1	-0.0001 ppm	0.0037 ppm	0.0044 ppm	0.0082 ppm	7.8598 ppm	0.2710 ppm	0.0086 ppm
Concentration per Run 2	0.0001 ppm	0.0038 ppm	0.0046 ppm	0.0076 ppm	7.7913 ppm	0.2969 ppm	0.0091 ppm
Concentration per Run 3	0.0000 ppm	0.0033 ppm	0.0041 ppm	0.0073 ppm	7.7392 ppm	0.2492 ppm	0.0086 ppm
Concentration RSD	523.8 %	7.6 %	6.2 %	6.3 %	0.8 %	8.8 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7552 ppm	0.1487 ppm	0.0025 ppm	1.1347 ppm	0.0086 ppm	0.0046 ppm	0.0028 ppm
Concentration per Run 1	5.8571 ppm	0.1494 ppm	0.0028 ppm	1.1375 ppm	0.0083 ppm	0.0051 ppm	0.0055 ppm
Concentration per Run 2	5.7402 ppm	0.1488 ppm	0.0022 ppm	1.1362 ppm	0.0084 ppm	0.0047 ppm	0.0006 ppm
Concentration per Run 3	5.6683 ppm	0.1479 ppm	0.0024 ppm	1.1305 ppm	0.0090 ppm	0.0040 ppm	0.0023 ppm
Concentration RSD	1.7 %	0.5 %	11.2 %	0.3 %	4.0 %	12.1 %	89.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	0.4846 ppm	0.0029 ppm	0.0284 ppm	0.0494 ppm	-0.0003 ppm	0.0076 ppm
Concentration per Run 1	0.0030 ppm	0.4722 ppm	0.0037 ppm	0.0287 ppm	0.0496 ppm	-0.0006 ppm	0.0078 ppm
Concentration per Run 2	0.0014 ppm	0.4994 ppm	0.0025 ppm	0.0283 ppm	0.0505 ppm	-0.0004 ppm	0.0077 ppm
Concentration per Run 3	-0.0005 ppm	0.4824 ppm	0.0026 ppm	0.0282 ppm	0.0482 ppm	0.0001 ppm	0.0074 ppm
Concentration RSD	136.0 %	2.8 %	22.9 %	1.0 %	2.4 %	117.3 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0371 ppm	101.4835 %	105.9586 %	100.4958 %	99.1921 %	103.6967 %	100.6957 %
Concentration per Run 1	0.0379 ppm	99.8388 %	105.3158 %	99.6633 %	98.8872 %	103.5803 %	100.7063 %
Concentration per Run 2	0.0370 ppm	101.6551 %	105.8464 %	100.5980 %	99.4620 %	103.8735 %	100.8117 %
Concentration per Run 3	0.0365 ppm	102.9567 %	106.7137 %	101.2262 %	99.2272 %	103.6361 %	100.5692 %
Concentration RSD	2.0 %	1.5 %	0.7 %	0.8 %	0.3 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 2:18:21 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5123 ppm	0.5080 ppm	0.4759 ppm	0.5086 ppm	0.5075 ppm	0.5130 ppm	0.5005 ppm
Concentration per Run 1	0.5167 ppm	0.5133 ppm	0.4785 ppm	0.5137 ppm	0.5066 ppm	0.5124 ppm	0.5054 ppm
Concentration per Run 2	0.5137 ppm	0.5026 ppm	0.4761 ppm	0.5084 ppm	0.5111 ppm	0.5141 ppm	0.4975 ppm
Concentration per Run 3	0.5064 ppm	0.5080 ppm	0.4732 ppm	0.5036 ppm	0.5048 ppm	0.5125 ppm	0.4987 ppm
Recovery Percentage 1	102.455 %	101.597 %	95.187 %	101.711 %	101.502 %	102.596 %	100.109 %
Concentration RSD	1.0 %	1.1 %	0.6 %	1.0 %	0.6 %	0.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5147 ppm	0.5216 ppm	0.5029 ppm	0.5093 ppm	0.5236 ppm	5.2868 ppm	0.5091 ppm
Concentration per Run 1	0.5206 ppm	0.5272 ppm	0.5100 ppm	0.5158 ppm	0.5264 ppm	5.3875 ppm	0.5137 ppm
Concentration per Run 2	0.5140 ppm	0.5216 ppm	0.5024 ppm	0.5095 ppm	0.5234 ppm	5.2337 ppm	0.5065 ppm
Concentration per Run 3	0.5097 ppm	0.5159 ppm	0.4963 ppm	0.5026 ppm	0.5211 ppm	5.2391 ppm	0.5070 ppm
Recovery Percentage 1	102.949 %	104.312 %	100.583 %	101.864 %	104.724 %	105.736 %	101.815 %
Concentration RSD	1.1 %	1.1 %	1.4 %	1.3 %	0.5 %	1.7 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5117 ppm	0.4998 ppm	0.5077 ppm	10.2731 ppm	0.5160 ppm	0.4978 ppm	0.5020 ppm
Concentration per Run 1	0.5155 ppm	0.5025 ppm	0.5068 ppm	10.2639 ppm	0.5239 ppm	0.5027 ppm	0.5052 ppm
Concentration per Run 2	0.5131 ppm	0.4990 ppm	0.5069 ppm	10.3380 ppm	0.5159 ppm	0.4966 ppm	0.5016 ppm
Concentration per Run 3	0.5066 ppm	0.4978 ppm	0.5093 ppm	10.2173 ppm	0.5081 ppm	0.4941 ppm	0.4992 ppm
Recovery Percentage 1	102.347 %	99.951 %	101.537 %	102.731 %	103.194 %	99.554 %	100.404 %
Concentration RSD	0.9 %	0.5 %	0.3 %	0.6 %	1.5 %	0.9 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4820 ppm	5.2539 ppm	0.5227 ppm	0.5153 ppm	0.5104 ppm	0.5034 ppm	0.5039 ppm
Concentration per Run 1	0.4853 ppm	5.3013 ppm	0.5277 ppm	0.5156 ppm	0.5158 ppm	0.5093 ppm	0.5108 ppm
Concentration per Run 2	0.4815 ppm	5.2566 ppm	0.5196 ppm	0.5154 ppm	0.5104 ppm	0.5008 ppm	0.5036 ppm
Concentration per Run 3	0.4791 ppm	5.2036 ppm	0.5209 ppm	0.5148 ppm	0.5050 ppm	0.5000 ppm	0.4973 ppm
Recovery Percentage 1	96.393 %	100.073 %	104.547 %	103.051 %	102.083 %	100.679 %	100.782 %
Concentration RSD	0.6 %	0.9 %	0.8 %	0.1 %	1.1 %	1.0 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5138 ppm	107.9838 %	109.6121 %	106.9490 %	96.6668 %	100.3575 %	98.7843 %
Concentration per Run 1	0.5215 ppm	106.2279 %	108.8033 %	106.4263 %	96.0391 %	100.2271 %	99.0114 %
Concentration per Run 2	0.5139 ppm	108.0366 %	109.7645 %	106.8361 %	96.7222 %	100.2682 %	98.5700 %
Concentration per Run 3	0.5062 ppm	109.6870 %	110.2684 %	107.5846 %	97.2392 %	100.5773 %	98.7716 %
Recovery Percentage 1	102.770 %						
Concentration RSD	1.5 %	1.6 %	0.7 %	0.5 %	0.6 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 2:22:19 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0065 ppm	-0.0009 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0079 ppm	-0.0027 ppm	-0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	-0.0006 ppm	0.0006 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0111 ppm	-0.0005 ppm	-0.0013 ppm	-0.0002 ppm	0.0000 ppm	-0.0028 ppm
Recovery Percentage 1	-2.378 %	6.519 %	-28.583 %	-2.547 %	-0.209 %	0.522 %	-0.056 %
Concentration RSD	218.3 %	82.8 %	197.4 %	77.4 %	844.1 %	157.9 %	4,271.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0040 ppm	-0.0096 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0015 ppm	-0.0028 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0047 ppm	0.0033 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0004 ppm	0.0058 ppm	-0.0294 ppm	0.0012 ppm
Recovery Percentage 1	1.502 %	0.323 %	-3.764 %	5.425 %	8.002 %	-0.385 %	-1.785 %
Concentration RSD	55.6 %	489.2 %	3.9 %	29.3 %	55.0 %	180.8 %	1,405.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0000 ppm	-0.0002 ppm	-0.0440 ppm	-0.0005 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0449 ppm	0.0005 ppm	0.0018 ppm	-0.0006 ppm
Concentration per Run 2	-0.0014 ppm	-0.0003 ppm	-0.0002 ppm	-0.0450 ppm	-0.0013 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	-0.0003 ppm	-0.0420 ppm	-0.0007 ppm	-0.0008 ppm	-0.0011 ppm
Recovery Percentage 1	-0.741 %	0.050 %	-0.342 %	-2.200 %	-2.089 %	2.465 %	-0.548 %
Concentration RSD	78.7 %	6,172.6 %	110.9 %	3.8 %	173.5 %	564.9 %	397.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0104 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	-0.0094 ppm	0.0011 ppm	0.0001 ppm	-0.0005 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0014 ppm	-0.0103 ppm	-0.0007 ppm	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0019 ppm	-0.0116 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0014 ppm	0.0001 ppm
Recovery Percentage 1	13.443 %	-2.082 %	-0.123 %	0.164 %	-2.524 %	-4.216 %	0.658 %
Concentration RSD	44.1 %	10.6 %	1,666.2 %	636.5 %	79.4 %	59.1 %	145.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	98.1838 %	101.3488 %	100.1902 %	98.2842 %	101.3304 %	100.1234 %
Concentration per Run 1	0.0004 ppm	96.4530 %	101.2456 %	99.0411 %	97.6479 %	101.6140 %	100.3748 %
Concentration per Run 2	0.0004 ppm	97.8766 %	101.2588 %	99.8790 %	98.3954 %	101.4162 %	99.8256 %
Concentration per Run 3	0.0008 ppm	100.2218 %	101.5420 %	101.6507 %	98.8092 %	100.9609 %	100.1699 %
Recovery Percentage 1	10.621 %						
Concentration RSD	40.4 %	1.9 %	0.2 %	1.3 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: eL2432356-01d20 WG1934441
Analysis started at: 6/15/2024 2:26:46 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0050 ppm	0.0065 ppm	0.0089 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	2.8650 ppm
Concentration per Run 1	0.0051 ppm	0.0030 ppm	0.0089 ppm	0.0029 ppm	0.0002 ppm	0.0001 ppm	2.8753 ppm
Concentration per Run 2	0.0050 ppm	-0.0027 ppm	0.0092 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	2.8625 ppm
Concentration per Run 3	0.0050 ppm	0.0191 ppm	0.0085 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	2.8572 ppm
Concentration RSD	1.4 %	175.4 %	3.8 %	108.1 %	78.0 %	65.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	**90.9598 ppm**	0.0295 ppm	3.1540 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	92.6030 ppm	0.0302 ppm	3.2183 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0001 ppm	90.4446 ppm	0.0301 ppm	3.1304 ppm	-0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0000 ppm	89.8319 ppm	0.0282 ppm	3.1135 ppm	-0.0003 ppm
Concentration RSD	1,460.2 %	221.3 %	54,383.5 %	1.6 %	3.8 %	1.8 %	439.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4172 ppm	0.0019 ppm	-0.0018 ppm	55.5992 ppm	0.0072 ppm	0.0480 ppm	0.0020 ppm
Concentration per Run 1	0.4218 ppm	0.0018 ppm	-0.0015 ppm	55.7606 ppm	0.0077 ppm	0.0499 ppm	0.0020 ppm
Concentration per Run 2	0.4157 ppm	0.0019 ppm	-0.0016 ppm	55.5878 ppm	0.0078 ppm	0.0495 ppm	0.0023 ppm
Concentration per Run 3	0.4140 ppm	0.0021 ppm	-0.0024 ppm	55.4491 ppm	0.0062 ppm	0.0447 ppm	0.0018 ppm
Concentration RSD	1.0 %	8.6 %	25.2 %	0.3 %	12.1 %	6.1 %	12.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.0046 ppm	0.2048 ppm	0.0009 ppm	0.0006 ppm	-0.0007 ppm	-0.0014 ppm
Concentration per Run 1	0.0038 ppm	0.0049 ppm	0.2054 ppm	0.0008 ppm	0.0007 ppm	0.0006 ppm	-0.0012 ppm
Concentration per Run 2	0.0020 ppm	0.0056 ppm	0.2033 ppm	0.0010 ppm	0.0007 ppm	-0.0009 ppm	-0.0014 ppm
Concentration per Run 3	0.0043 ppm	0.0033 ppm	0.2058 ppm	0.0009 ppm	0.0005 ppm	-0.0019 ppm	-0.0015 ppm
Concentration RSD	35.4 %	26.2 %	0.6 %	9.5 %	14.3 %	176.2 %	10.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9200 ppm	102.8286 %	111.4002 %	102.2793 %	96.4371 %	103.9062 %	91.0900 %
Concentration per Run 1	0.9351 ppm	100.9753 %	110.3211 %	99.7103 %	95.8427 %	103.0930 %	89.5768 %
Concentration per Run 2	0.9100 ppm	103.3488 %	112.5510 %	100.3012 %	96.6373 %	104.8832 %	89.3458 %
Concentration per Run 3	0.9148 ppm	104.1618 %	111.3285 %	106.8265 %	96.8313 %	103.7425 %	94.3475 %
Concentration RSD	1.4 %	1.6 %	1.0 %	3.9 %	0.5 %	0.9 %	3.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432371-01d2 WG1934441
Analysis started at: 6/15/2024 2:30:45 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	59.4782 ppm	0.0828 ppm	0.0096 ppm	0.3043 ppm	0.0052 ppm	10.3048 ppm
Concentration per Run 1	0.0005 ppm	59.6451 ppm	0.0820 ppm	0.0102 ppm	0.3050 ppm	0.0053 ppm	10.3196 ppm
Concentration per Run 2	0.0002 ppm	58.8837 ppm	0.0829 ppm	0.0099 ppm	0.3022 ppm	0.0053 ppm	10.2561 ppm
Concentration per Run 3	0.0003 ppm	59.9059 ppm	0.0834 ppm	0.0087 ppm	0.3058 ppm	0.0051 ppm	10.3387 ppm
Concentration RSD	48.1 %	0.9 %	0.8 %	8.4 %	0.6 %	2.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1713 ppm	0.3150 ppm	0.2105 ppm	173.7775 ppm	20.9959 ppm	0.1208 ppm
Concentration per Run 1	0.0016 ppm	0.1732 ppm	0.3184 ppm	0.2139 ppm	174.4602 ppm	21.0664 ppm	0.1214 ppm
Concentration per Run 2	0.0016 ppm	0.1717 ppm	0.3156 ppm	0.2104 ppm	173.3339 ppm	20.8493 ppm	0.1207 ppm
Concentration per Run 3	0.0016 ppm	0.1690 ppm	0.3111 ppm	0.2073 ppm	173.5383 ppm	21.0719 ppm	0.1205 ppm
Concentration RSD	0.7 %	1.3 %	1.2 %	1.6 %	0.3 %	0.6 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	47.7673 ppm	3.7851 ppm	0.0028 ppm	3.1171 ppm	0.8598 ppm	0.0997 ppm	0.0035 ppm
Concentration per Run 1	48.3392 ppm	3.7951 ppm	0.0031 ppm	3.1211 ppm	0.8682 ppm	0.1017 ppm	0.0035 ppm
Concentration per Run 2	47.8154 ppm	3.7572 ppm	0.0030 ppm	3.1061 ppm	0.8623 ppm	0.0982 ppm	0.0041 ppm
Concentration per Run 3	47.1474 ppm	3.8031 ppm	0.0024 ppm	3.1239 ppm	0.8489 ppm	0.0993 ppm	0.0031 ppm
Concentration RSD	1.3 %	0.6 %	14.7 %	0.3 %	1.1 %	1.8 %	14.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	5.3294 ppm	0.0047 ppm	0.0439 ppm	4.6330 ppm	0.0041 ppm	0.2935 ppm
Concentration per Run 1	-0.0018 ppm	5.4502 ppm	0.0049 ppm	0.0441 ppm	4.6843 ppm	0.0044 ppm	0.2957 ppm
Concentration per Run 2	-0.0014 ppm	5.3365 ppm	0.0045 ppm	0.0441 ppm	4.6327 ppm	0.0027 ppm	0.2931 ppm
Concentration per Run 3	-0.0065 ppm	5.2013 ppm	0.0046 ppm	0.0437 ppm	4.5820 ppm	0.0053 ppm	0.2916 ppm
Concentration RSD	87.9 %	2.3 %	4.9 %	0.5 %	1.1 %	31.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4861 ppm	111.6863 %	115.8689 %	98.9012 %	119.3652 %	127.2755 %	119.2552 %
Concentration per Run 1	0.4901 ppm	109.7987 %	115.8782 %	98.5919 %	119.2985 %	127.7022 %	119.7192 %
Concentration per Run 2	0.4883 ppm	111.3522 %	116.2536 %	98.9262 %	119.1509 %	127.4368 %	119.3201 %
Concentration per Run 3	0.4798 ppm	113.9080 %	115.4749 %	99.1854 %	119.6463 %	126.6874 %	118.7262 %
Concentration RSD	1.1 %	1.9 %	0.3 %	0.3 %	0.2 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432371-02d2 WG1934441
Analysis started at: 6/15/2024 2:34:42 PM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	33.4804 ppm	0.0173 ppm	0.0044 ppm	0.1722 ppm	0.0018 ppm	4.2625 ppm
Concentration per Run 1	0.0007 ppm	33.5707 ppm	0.0185 ppm	0.0030 ppm	0.1732 ppm	0.0019 ppm	4.2843 ppm
Concentration per Run 2	0.0007 ppm	33.7008 ppm	0.0168 ppm	0.0057 ppm	0.1725 ppm	0.0017 ppm	4.2665 ppm
Concentration per Run 3	0.0011 ppm	33.1697 ppm	0.0167 ppm	0.0046 ppm	0.1709 ppm	0.0019 ppm	4.2367 ppm
Concentration RSD	25.7 %	0.8 %	6.0 %	31.1 %	0.7 %	5.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0540 ppm	0.0969 ppm	0.1322 ppm	76.6032 ppm	4.0425 ppm	0.0506 ppm
Concentration per Run 1	0.0006 ppm	0.0552 ppm	0.0995 ppm	0.1342 ppm	76.7107 ppm	4.1114 ppm	0.0521 ppm
Concentration per Run 2	0.0007 ppm	0.0538 ppm	0.0961 ppm	0.1328 ppm	76.4525 ppm	4.0553 ppm	0.0511 ppm
Concentration per Run 3	0.0006 ppm	0.0531 ppm	0.0950 ppm	0.1296 ppm	76.6464 ppm	3.9608 ppm	0.0486 ppm
Concentration RSD	6.4 %	2.0 %	2.5 %	1.8 %	0.2 %	1.9 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1283 ppm	2.5224 ppm	0.0000 ppm	0.5722 ppm	0.3080 ppm	0.0506 ppm	0.0013 ppm
Concentration per Run 1	16.4459 ppm	2.5286 ppm	0.0001 ppm	0.5688 ppm	0.3137 ppm	0.0504 ppm	0.0032 ppm
Concentration per Run 2	16.0960 ppm	2.5278 ppm	-0.0003 ppm	0.5694 ppm	0.3070 ppm	0.0517 ppm	-0.0010 ppm
Concentration per Run 3	15.8429 ppm	2.5109 ppm	0.0001 ppm	0.5784 ppm	0.3032 ppm	0.0499 ppm	0.0017 ppm
Concentration RSD	1.9 %	0.4 %	580.0 %	0.9 %	1.7 %	1.8 %	163.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	4.3419 ppm	0.0018 ppm	0.0175 ppm	1.4391 ppm	0.0016 ppm	0.1121 ppm
Concentration per Run 1	-0.0034 ppm	4.4026 ppm	0.0012 ppm	0.0178 ppm	1.4642 ppm	0.0015 ppm	0.1139 ppm
Concentration per Run 2	-0.0014 ppm	4.3438 ppm	0.0026 ppm	0.0171 ppm	1.4384 ppm	0.0018 ppm	0.1118 ppm
Concentration per Run 3	0.0000 ppm	4.2794 ppm	0.0015 ppm	0.0177 ppm	1.4148 ppm	0.0013 ppm	0.1108 ppm
Concentration RSD	108.7 %	1.4 %	42.6 %	2.0 %	1.7 %	15.5 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1870 ppm	105.7501 %	111.1735 %	101.2133 %	106.7376 %	113.8085 %	107.9048 %
Concentration per Run 1	0.1905 ppm	103.7330 %	110.9807 %	101.1153 %	106.2258 %	114.0568 %	109.0433 %
Concentration per Run 2	0.1862 ppm	105.9426 %	110.0142 %	100.4845 %	107.3536 %	112.4690 %	106.9365 %
Concentration per Run 3	0.1841 ppm	107.5748 %	112.5255 %	102.0399 %	106.6335 %	114.8996 %	107.7347 %
Concentration RSD	1.7 %	1.8 %	1.1 %	0.8 %	0.5 %	1.1 %	1.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432423-01d2 WG1934441
Analysis started at: 6/15/2024 2:38:39 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	104.0904 ppm	0.0252 ppm	0.0114 ppm	0.3498 ppm	0.0038 ppm	21.9353 ppm
Concentration per Run 1	0.0005 ppm	104.1018 ppm	0.0275 ppm	0.0114 ppm	0.3519 ppm	0.0038 ppm	21.9691 ppm
Concentration per Run 2	0.0006 ppm	104.5099 ppm	0.0253 ppm	0.0109 ppm	0.3486 ppm	0.0037 ppm	21.9414 ppm
Concentration per Run 3	0.0002 ppm	103.6594 ppm	0.0229 ppm	0.0119 ppm	0.3490 ppm	0.0038 ppm	21.8953 ppm
Concentration RSD	43.1 %	0.4 %	9.2 %	4.4 %	0.5 %	2.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0340 ppm	0.0945 ppm	0.0596 ppm	134.0610 ppm	2.9745 ppm	0.0593 ppm
Concentration per Run 1	0.0014 ppm	0.0347 ppm	0.0962 ppm	0.0607 ppm	135.1577 ppm	3.0014 ppm	0.0612 ppm
Concentration per Run 2	0.0014 ppm	0.0342 ppm	0.0948 ppm	0.0593 ppm	133.4490 ppm	2.9734 ppm	0.0591 ppm
Concentration per Run 3	0.0015 ppm	0.0332 ppm	0.0925 ppm	0.0586 ppm	133.5764 ppm	2.9487 ppm	0.0576 ppm
Concentration RSD	4.0 %	2.2 %	2.0 %	1.8 %	0.7 %	0.9 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5433 ppm	1.2940 ppm	-0.0001 ppm	1.0439 ppm	0.0831 ppm	0.0617 ppm	-0.0012 ppm
Concentration per Run 1	22.0076 ppm	1.2944 ppm	-0.0007 ppm	1.0435 ppm	0.0845 ppm	0.0613 ppm	-0.0031 ppm
Concentration per Run 2	21.5594 ppm	1.2965 ppm	0.0007 ppm	1.0456 ppm	0.0831 ppm	0.0622 ppm	0.0012 ppm
Concentration per Run 3	21.0628 ppm	1.2910 ppm	-0.0002 ppm	1.0427 ppm	0.0817 ppm	0.0614 ppm	-0.0017 ppm
Concentration RSD	2.2 %	0.2 %	813.3 %	0.1 %	1.7 %	0.8 %	186.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	5.3103 ppm	0.0027 ppm	0.0589 ppm	0.4644 ppm	0.0019 ppm	0.1643 ppm
Concentration per Run 1	-0.0024 ppm	5.4191 ppm	0.0025 ppm	0.0596 ppm	0.4723 ppm	0.0007 ppm	0.1681 ppm
Concentration per Run 2	-0.0007 ppm	5.2714 ppm	0.0025 ppm	0.0584 ppm	0.4661 ppm	0.0023 ppm	0.1645 ppm
Concentration per Run 3	-0.0025 ppm	5.2405 ppm	0.0031 ppm	0.0588 ppm	0.4548 ppm	0.0025 ppm	0.1602 ppm
Concentration RSD	53.7 %	1.8 %	11.7 %	1.0 %	1.9 %	54.1 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2877 ppm	106.1935 %	114.2395 %	100.2817 %	110.8654 %	120.8087 %	113.0279 %
Concentration per Run 1	0.2955 ppm	103.4364 %	114.1610 %	99.6648 %	110.0446 %	121.0701 %	113.1910 %
Concentration per Run 2	0.2870 ppm	106.7703 %	114.1964 %	100.3444 %	111.1594 %	120.4475 %	113.0858 %
Concentration per Run 3	0.2806 ppm	108.3737 %	114.3612 %	100.8360 %	111.3922 %	120.9087 %	112.8070 %
Concentration RSD	2.6 %	2.4 %	0.1 %	0.6 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432423-02d2 WG1934441
Analysis started at: 6/15/2024 2:42:36 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	48.3462 ppm	0.0309 ppm	0.0131 ppm	0.1435 ppm	0.0021 ppm	135.2067 ppm
Concentration per Run 1	0.0000 ppm	48.4997 ppm	0.0318 ppm	0.0139 ppm	0.1442 ppm	0.0021 ppm	135.7131 ppm
Concentration per Run 2	0.0001 ppm	48.5546 ppm	0.0300 ppm	0.0122 ppm	0.1437 ppm	0.0021 ppm	135.2998 ppm
Concentration per Run 3	0.0004 ppm	47.9844 ppm	0.0308 ppm	0.0133 ppm	0.1424 ppm	0.0021 ppm	134.6074 ppm
Concentration RSD	111.2 %	0.7 %	2.9 %	6.5 %	0.6 %	1.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0368 ppm	0.0555 ppm	0.1125 ppm	107.1495 ppm	3.3652 ppm	0.0650 ppm
Concentration per Run 1	0.0012 ppm	0.0369 ppm	0.0566 ppm	0.1152 ppm	107.9988 ppm	3.4240 ppm	0.0657 ppm
Concentration per Run 2	0.0011 ppm	0.0371 ppm	0.0552 ppm	0.1114 ppm	106.6404 ppm	3.3527 ppm	0.0647 ppm
Concentration per Run 3	0.0011 ppm	0.0364 ppm	0.0547 ppm	0.1110 ppm	106.8091 ppm	3.3190 ppm	0.0645 ppm
Concentration RSD	4.3 %	1.0 %	1.8 %	2.1 %	0.7 %	1.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.4594 ppm	4.0446 ppm	-0.0008 ppm	0.7949 ppm	0.0695 ppm	0.0601 ppm	0.0010 ppm
Concentration per Run 1	54.5954 ppm	4.0598 ppm	-0.0010 ppm	0.8010 ppm	0.0719 ppm	0.0609 ppm	0.0009 ppm
Concentration per Run 2	53.3943 ppm	4.0562 ppm	-0.0005 ppm	0.7876 ppm	0.0692 ppm	0.0597 ppm	0.0025 ppm
Concentration per Run 3	52.3885 ppm	4.0178 ppm	-0.0007 ppm	0.7962 ppm	0.0675 ppm	0.0597 ppm	-0.0004 ppm
Concentration RSD	2.1 %	0.6 %	33.3 %	0.9 %	3.2 %	1.1 %	143.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0037 ppm	4.5725 ppm	0.0010 ppm	0.1777 ppm	0.6598 ppm	0.0014 ppm	0.1131 ppm
Concentration per Run 1	-0.0035 ppm	4.6687 ppm	0.0015 ppm	0.1794 ppm	0.6699 ppm	0.0015 ppm	0.1154 ppm
Concentration per Run 2	-0.0036 ppm	4.5528 ppm	0.0000 ppm	0.1760 ppm	0.6593 ppm	0.0011 ppm	0.1135 ppm
Concentration per Run 3	-0.0040 ppm	4.4960 ppm	0.0014 ppm	0.1778 ppm	0.6501 ppm	0.0015 ppm	0.1105 ppm
Concentration RSD	6.8 %	1.9 %	82.7 %	1.0 %	1.5 %	14.9 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3662 ppm	103.8726 %	111.3642 %	96.0011 %	118.6505 %	129.5524 %	119.2123 %
Concentration per Run 1	0.3739 ppm	101.3873 %	110.8079 %	95.6603 %	117.6912 %	129.3134 %	119.8318 %
Concentration per Run 2	0.3669 ppm	104.2526 %	111.2634 %	95.5795 %	119.0542 %	129.4991 %	118.6556 %
Concentration per Run 3	0.3579 ppm	105.9780 %	112.0213 %	96.7635 %	119.2063 %	129.8449 %	119.1495 %
Concentration RSD	2.2 %	2.2 %	0.6 %	0.7 %	0.7 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432423-03d2 WG1934441
Analysis started at: 6/15/2024 2:46:33 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	56.4405 ppm	0.0267 ppm	0.0073 ppm	0.3025 ppm	0.0024 ppm	9.2572 ppm
Concentration per Run 1	0.0000 ppm	56.6323 ppm	0.0270 ppm	0.0073 ppm	0.3044 ppm	0.0024 ppm	9.2714 ppm
Concentration per Run 2	0.0001 ppm	56.6863 ppm	0.0279 ppm	0.0060 ppm	0.3024 ppm	0.0024 ppm	9.2761 ppm
Concentration per Run 3	0.0003 ppm	56.0029 ppm	0.0253 ppm	0.0086 ppm	0.3008 ppm	0.0024 ppm	9.2241 ppm
Concentration RSD	132.4 %	0.7 %	4.9 %	17.9 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0307 ppm	0.0636 ppm	0.0730 ppm	101.7537 ppm	1.9513 ppm	0.0509 ppm
Concentration per Run 1	0.0012 ppm	0.0314 ppm	0.0645 ppm	0.0744 ppm	101.6703 ppm	1.9768 ppm	0.0531 ppm
Concentration per Run 2	0.0011 ppm	0.0304 ppm	0.0635 ppm	0.0729 ppm	102.0823 ppm	1.9762 ppm	0.0512 ppm
Concentration per Run 3	0.0012 ppm	0.0302 ppm	0.0627 ppm	0.0717 ppm	101.5085 ppm	1.9009 ppm	0.0484 ppm
Concentration RSD	3.7 %	2.2 %	1.5 %	1.8 %	0.3 %	2.2 %	4.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.4406 ppm	3.6851 ppm	-0.0004 ppm	1.2899 ppm	0.0607 ppm	0.1126 ppm	-0.0009 ppm
Concentration per Run 1	15.7927 ppm	3.6921 ppm	0.0001 ppm	1.2846 ppm	0.0631 ppm	0.1138 ppm	-0.0035 ppm
Concentration per Run 2	15.3868 ppm	3.7016 ppm	-0.0007 ppm	1.2903 ppm	0.0596 ppm	0.1118 ppm	0.0013 ppm
Concentration per Run 3	15.1423 ppm	3.6617 ppm	-0.0006 ppm	1.2948 ppm	0.0594 ppm	0.1120 ppm	-0.0004 ppm
Concentration RSD	2.1 %	0.6 %	99.4 %	0.4 %	3.4 %	1.0 %	288.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	4.2065 ppm	0.0018 ppm	0.0570 ppm	0.4775 ppm	0.0011 ppm	0.1206 ppm
Concentration per Run 1	-0.0012 ppm	4.2989 ppm	0.0015 ppm	0.0573 ppm	0.4863 ppm	0.0015 ppm	0.1230 ppm
Concentration per Run 2	0.0007 ppm	4.1994 ppm	0.0018 ppm	0.0566 ppm	0.4779 ppm	0.0009 ppm	0.1201 ppm
Concentration per Run 3	-0.0027 ppm	4.1212 ppm	0.0020 ppm	0.0571 ppm	0.4684 ppm	0.0009 ppm	0.1188 ppm
Concentration RSD	158.2 %	2.1 %	13.4 %	0.6 %	1.9 %	33.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3156 ppm	107.0420 %	113.6292 %	103.2427 %	112.1672 %	121.0042 %	115.7233 %
Concentration per Run 1	0.3226 ppm	104.2524 %	113.7659 %	102.6079 %	111.2271 %	121.5134 %	116.0936 %
Concentration per Run 2	0.3139 ppm	107.8367 %	114.0515 %	103.7401 %	113.0775 %	121.3855 %	116.2004 %
Concentration per Run 3	0.3103 ppm	109.0368 %	113.0703 %	103.3800 %	112.1971 %	120.1137 %	114.8758 %
Concentration RSD	2.0 %	2.3 %	0.4 %	0.6 %	0.8 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432423-04d2 WG1934441
Analysis started at: 6/15/2024 2:50:30 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	82.3463 ppm	0.0723 ppm	0.0214 ppm	0.4312 ppm	0.0045 ppm	96.6976 ppm
Concentration per Run 1	0.0008 ppm	82.7335 ppm	0.0739 ppm	0.0215 ppm	0.4340 ppm	0.0044 ppm	96.8885 ppm
Concentration per Run 2	0.0004 ppm	82.2822 ppm	0.0711 ppm	0.0221 ppm	0.4291 ppm	0.0045 ppm	96.8448 ppm
Concentration per Run 3	0.0014 ppm	82.0233 ppm	0.0718 ppm	0.0205 ppm	0.4305 ppm	0.0044 ppm	96.3594 ppm
Concentration RSD	63.0 %	0.4 %	2.0 %	3.8 %	0.6 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0478 ppm	0.1053 ppm	0.2594 ppm	185.7591 ppm	6.1121 ppm	0.1074 ppm
Concentration per Run 1	0.0028 ppm	0.0485 ppm	0.1074 ppm	0.2631 ppm	186.4535 ppm	6.2058 ppm	0.1097 ppm
Concentration per Run 2	0.0030 ppm	0.0475 ppm	0.1048 ppm	0.2596 ppm	186.1826 ppm	6.0780 ppm	0.1069 ppm
Concentration per Run 3	0.0030 ppm	0.0473 ppm	0.1036 ppm	0.2556 ppm	184.6413 ppm	6.0525 ppm	0.1057 ppm
Concentration RSD	4.7 %	1.3 %	1.8 %	1.5 %	0.5 %	1.3 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	78.8930 ppm	7.9235 ppm	-0.0003 ppm	1.4618 ppm	0.1274 ppm	0.1821 ppm	0.0002 ppm
Concentration per Run 1	80.2229 ppm	7.9533 ppm	-0.0006 ppm	1.4698 ppm	0.1294 ppm	0.1850 ppm	0.0009 ppm
Concentration per Run 2	78.6647 ppm	7.9287 ppm	-0.0004 ppm	1.4655 ppm	0.1272 ppm	0.1811 ppm	-0.0015 ppm
Concentration per Run 3	77.7915 ppm	7.8885 ppm	0.0003 ppm	1.4502 ppm	0.1256 ppm	0.1803 ppm	0.0012 ppm
Concentration RSD	1.6 %	0.4 %	176.3 %	0.7 %	1.5 %	1.4 %	771.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	5.6362 ppm	0.0010 ppm	0.0956 ppm	0.6157 ppm	0.0027 ppm	0.1712 ppm
Concentration per Run 1	-0.0012 ppm	5.7016 ppm	0.0009 ppm	0.0959 ppm	0.6225 ppm	0.0024 ppm	0.1751 ppm
Concentration per Run 2	-0.0010 ppm	5.6257 ppm	0.0013 ppm	0.0956 ppm	0.6152 ppm	0.0028 ppm	0.1710 ppm
Concentration per Run 3	-0.0020 ppm	5.5814 ppm	0.0007 ppm	0.0954 ppm	0.6093 ppm	0.0028 ppm	0.1674 ppm
Concentration RSD	39.3 %	1.1 %	33.2 %	0.3 %	1.1 %	7.5 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8132 ppm	111.3255 %	118.4609 %	101.3292 %	**190.8696 %**	**210.4012 %**	**194.4798 %**
Concentration per Run 1	0.8282 ppm	109.5948 %	116.5659 %	100.3030 %	**190.4519 %**	**207.1724 %**	**193.6058 %**
Concentration per Run 2	0.8091 ppm	111.8725 %	118.4392 %	102.1616 %	**191.8576 %**	**210.7421 %**	**196.0226 %**
Concentration per Run 3	0.8022 ppm	112.5092 %	120.3775 %	101.5231 %	**190.2995 %**	**213.2891 %**	**193.8110 %**
Concentration RSD	1.7 %	1.4 %	1.6 %	0.9 %	**0.5 %**	**1.5 %**	**0.7 %**

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432423-05d2 WG1934441
Analysis started at: 6/15/2024 2:54:27 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	31.2899 ppm	0.0376 ppm	0.0301 ppm	0.1552 ppm	0.0015 ppm	830.8328 ppm
Concentration per Run 1	0.0000 ppm	31.3864 ppm	0.0378 ppm	0.0325 ppm	0.1553 ppm	0.0015 ppm	832.4340 ppm
Concentration per Run 2	-0.0002 ppm	31.1921 ppm	0.0361 ppm	0.0277 ppm	0.1559 ppm	0.0015 ppm	829.6407 ppm
Concentration per Run 3	0.0000 ppm	31.2911 ppm	0.0390 ppm	0.0300 ppm	0.1545 ppm	0.0015 ppm	830.4237 ppm
Concentration RSD	208.8 %	0.3 %	3.8 %	8.0 %	0.4 %	1.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0327 ppm	0.0580 ppm	0.1643 ppm	110.5749 ppm	3.5445 ppm	0.0687 ppm
Concentration per Run 1	0.0014 ppm	0.0331 ppm	0.0599 ppm	0.1677 ppm	110.6127 ppm	3.5962 ppm	0.0702 ppm
Concentration per Run 2	0.0015 ppm	0.0334 ppm	0.0575 ppm	0.1639 ppm	110.4754 ppm	3.5240 ppm	0.0687 ppm
Concentration per Run 3	0.0014 ppm	0.0315 ppm	0.0567 ppm	0.1613 ppm	110.6366 ppm	3.5131 ppm	0.0671 ppm
Concentration RSD	3.3 %	3.2 %	2.9 %	1.9 %	0.1 %	1.3 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	300.4515 ppm	4.6437 ppm	-0.0009 ppm	1.0731 ppm	0.0668 ppm	0.0911 ppm	-0.0021 ppm
Concentration per Run 1	308.8096 ppm	4.6535 ppm	-0.0010 ppm	1.0744 ppm	0.0692 ppm	0.0911 ppm	-0.0015 ppm
Concentration per Run 2	298.7892 ppm	4.6388 ppm	-0.0002 ppm	1.0745 ppm	0.0660 ppm	0.0915 ppm	-0.0048 ppm
Concentration per Run 3	293.7558 ppm	4.6387 ppm	-0.0014 ppm	1.0703 ppm	0.0652 ppm	0.0908 ppm	0.0001 ppm
Concentration RSD	2.6 %	0.2 %	69.8 %	0.2 %	3.2 %	0.4 %	120.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0107 ppm	4.6080 ppm	0.0013 ppm	0.8678 ppm	0.6456 ppm	0.0018 ppm	0.1179 ppm
Concentration per Run 1	-0.0092 ppm	4.7226 ppm	0.0005 ppm	0.8676 ppm	0.6600 ppm	0.0018 ppm	0.1205 ppm
Concentration per Run 2	-0.0119 ppm	4.5873 ppm	0.0019 ppm	0.8634 ppm	0.6405 ppm	0.0014 ppm	0.1185 ppm
Concentration per Run 3	-0.0110 ppm	4.5141 ppm	0.0014 ppm	0.8725 ppm	0.6361 ppm	0.0023 ppm	0.1148 ppm
Concentration RSD	12.8 %	2.3 %	58.9 %	0.5 %	2.0 %	23.6 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4326 ppm	93.8525 %	106.0765 %	84.4177 %	105.5828 %	122.0955 %	108.3598 %
Concentration per Run 1	0.4477 ppm	91.5485 %	105.8211 %	84.0684 %	104.3021 %	122.4082 %	109.0800 %
Concentration per Run 2	0.4304 ppm	94.5301 %	106.5945 %	85.5360 %	106.3107 %	122.2163 %	109.7793 %
Concentration per Run 3	0.4199 ppm	95.4790 %	105.8138 %	83.6486 %	106.1355 %	121.6619 %	106.2200 %
Concentration RSD	3.2 %	2.2 %	0.4 %	1.2 %	1.1 %	0.3 %	1.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-04d2 WG1934441
Analysis started at: 6/15/2024 2:58:25 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	13.1250 ppm	0.0106 ppm	0.0082 ppm	0.0604 ppm	0.0006 ppm	111.4923 ppm
Concentration per Run 1	0.0001 ppm	13.1526 ppm	0.0115 ppm	0.0084 ppm	0.0602 ppm	0.0006 ppm	111.9722 ppm
Concentration per Run 2	-0.0002 ppm	13.1402 ppm	0.0094 ppm	0.0077 ppm	0.0603 ppm	0.0006 ppm	111.4287 ppm
Concentration per Run 3	-0.0001 ppm	13.0823 ppm	0.0110 ppm	0.0085 ppm	0.0606 ppm	0.0006 ppm	111.0760 ppm
Concentration RSD	263.6 %	0.3 %	10.0 %	5.4 %	0.3 %	3.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0129 ppm	0.0264 ppm	0.0360 ppm	33.6172 ppm	1.4905 ppm	0.0318 ppm
Concentration per Run 1	0.0000 ppm	0.0133 ppm	0.0272 ppm	0.0370 ppm	33.6895 ppm	1.5112 ppm	0.0339 ppm
Concentration per Run 2	0.0003 ppm	0.0129 ppm	0.0263 ppm	0.0364 ppm	33.4718 ppm	1.4969 ppm	0.0296 ppm
Concentration per Run 3	0.0003 ppm	0.0127 ppm	0.0256 ppm	0.0345 ppm	33.6904 ppm	1.4635 ppm	0.0320 ppm
Concentration RSD	77.9 %	2.5 %	3.1 %	3.7 %	0.4 %	1.6 %	6.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.8476 ppm	0.6691 ppm	0.0002 ppm	5.1952 ppm	0.0361 ppm	0.0279 ppm	0.0005 ppm
Concentration per Run 1	23.3789 ppm	0.6720 ppm	0.0000 ppm	5.2241 ppm	0.0367 ppm	0.0277 ppm	0.0016 ppm
Concentration per Run 2	22.9542 ppm	0.6695 ppm	0.0001 ppm	5.2024 ppm	0.0360 ppm	0.0279 ppm	-0.0007 ppm
Concentration per Run 3	22.2097 ppm	0.6657 ppm	0.0003 ppm	5.1591 ppm	0.0357 ppm	0.0282 ppm	0.0007 ppm
Concentration RSD	2.6 %	0.5 %	87.7 %	0.6 %	1.4 %	1.0 %	212.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	2.6179 ppm	0.0010 ppm	0.1237 ppm	0.3026 ppm	0.0005 ppm	0.0332 ppm
Concentration per Run 1	-0.0008 ppm	2.6753 ppm	0.0017 ppm	0.1235 ppm	0.3082 ppm	0.0000 ppm	0.0337 ppm
Concentration per Run 2	-0.0011 ppm	2.6232 ppm	0.0006 ppm	0.1234 ppm	0.3048 ppm	0.0002 ppm	0.0334 ppm
Concentration per Run 3	-0.0004 ppm	2.5552 ppm	0.0006 ppm	0.1241 ppm	0.2949 ppm	0.0013 ppm	0.0326 ppm
Concentration RSD	45.2 %	2.3 %	64.1 %	0.3 %	2.3 %	148.9 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1345 ppm	101.8092 %	108.1119 %	97.2735 %	103.2038 %	110.6989 %	104.6199 %
Concentration per Run 1	0.1367 ppm	99.2569 %	107.8377 %	96.7476 %	101.7387 %	111.4044 %	104.7740 %
Concentration per Run 2	0.1360 ppm	101.5608 %	108.7930 %	96.9891 %	103.0804 %	111.2790 %	104.2401 %
Concentration per Run 3	0.1309 ppm	104.6100 %	107.7050 %	98.0838 %	104.7922 %	109.4134 %	104.8457 %
Concentration RSD	2.3 %	2.6 %	0.5 %	0.7 %	1.5 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: eL2433393-05d2 WG1934441
Analysis started at: 6/15/2024 3:02:22 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	155.5805 ppm	0.0607 ppm	0.4189 ppm	1.6552 ppm	0.0199 ppm	1,007.5214 ppm
Concentration per Run 1	0.0004 ppm	155.8875 ppm	0.0634 ppm	0.4225 ppm	1.6515 ppm	0.0201 ppm	1,013.5931 ppm
Concentration per Run 2	0.0011 ppm	155.0987 ppm	0.0600 ppm	0.4203 ppm	1.6533 ppm	0.0199 ppm	1,005.2599 ppm
Concentration per Run 3	0.0005 ppm	155.7554 ppm	0.0587 ppm	0.4141 ppm	1.6609 ppm	0.0196 ppm	1,003.7111 ppm
Concentration RSD	54.9 %	0.3 %	4.0 %	1.0 %	0.3 %	1.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0100 ppm	0.0187 ppm	0.1221 ppm	0.1213 ppm	105.2502 ppm	10.7055 ppm	0.1955 ppm
Concentration per Run 1	0.0100 ppm	0.0183 ppm	0.1241 ppm	0.1235 ppm	105.6724 ppm	10.7659 ppm	0.1946 ppm
Concentration per Run 2	0.0101 ppm	0.0186 ppm	0.1223 ppm	0.1211 ppm	105.1770 ppm	10.6638 ppm	0.1943 ppm
Concentration per Run 3	0.0097 ppm	0.0190 ppm	0.1198 ppm	0.1192 ppm	104.9012 ppm	10.6867 ppm	0.1974 ppm
Concentration RSD	2.1 %	2.0 %	1.8 %	1.8 %	0.4 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	138.1361 ppm	16.7365 ppm	0.0035 ppm	9.1392 ppm	0.0585 ppm	7.3794 ppm	0.0003 ppm
Concentration per Run 1	140.4412 ppm	16.8117 ppm	0.0038 ppm	9.2231 ppm	0.0599 ppm	7.4463 ppm	0.0012 ppm
Concentration per Run 2	138.1797 ppm	16.6847 ppm	0.0037 ppm	9.1019 ppm	0.0584 ppm	7.3712 ppm	-0.0007 ppm
Concentration per Run 3	135.7873 ppm	16.7131 ppm	0.0029 ppm	9.0925 ppm	0.0572 ppm	7.3208 ppm	0.0004 ppm
Concentration RSD	1.7 %	0.4 %	14.2 %	0.8 %	2.4 %	0.9 %	307.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0051 ppm	8.9960 ppm	0.0291 ppm	2.1326 ppm	2.5408 ppm	-0.0007 ppm	0.1643 ppm
Concentration per Run 1	-0.0032 ppm	9.1277 ppm	0.0285 ppm	2.1510 ppm	2.5815 ppm	-0.0001 ppm	0.1676 ppm
Concentration per Run 2	-0.0073 ppm	9.0544 ppm	0.0298 ppm	2.1416 ppm	2.5439 ppm	-0.0010 ppm	0.1626 ppm
Concentration per Run 3	-0.0047 ppm	8.8061 ppm	0.0292 ppm	2.1051 ppm	2.4970 ppm	-0.0009 ppm	0.1626 ppm
Concentration RSD	41.0 %	1.9 %	2.2 %	1.1 %	1.7 %	74.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2908 ppm	98.9446 %	112.3747 %	85.6006 %	128.1398 %	150.0739 %	130.0469 %
Concentration per Run 1	2.3410 ppm	97.5441 %	112.6516 %	85.1091 %	128.2687 %	151.7351 %	130.8220 %
Concentration per Run 2	2.2892 ppm	98.5564 %	112.9203 %	85.4931 %	127.4562 %	150.5644 %	129.5076 %
Concentration per Run 3	2.2423 ppm	100.7334 %	111.5522 %	86.1996 %	128.6943 %	147.9223 %	129.8112 %
Concentration RSD	2.2 %	1.6 %	0.6 %	0.6 %	0.5 %	1.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 3:06:20 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5112 ppm	0.5122 ppm	0.4792 ppm	0.5026 ppm	0.5065 ppm	0.5117 ppm	0.5213 ppm
Concentration per Run 1	0.5136 ppm	0.5144 ppm	0.4807 ppm	0.5064 ppm	0.5072 ppm	0.5134 ppm	0.5253 ppm
Concentration per Run 2	0.5104 ppm	0.5076 ppm	0.4824 ppm	0.5033 ppm	0.5085 ppm	0.5100 ppm	0.5197 ppm
Concentration per Run 3	0.5095 ppm	0.5145 ppm	0.4744 ppm	0.4980 ppm	0.5039 ppm	0.5116 ppm	0.5189 ppm
Recovery Percentage 1	102.237 %	102.431 %	95.831 %	100.514 %	101.306 %	102.334 %	104.259 %
Concentration RSD	0.4 %	0.8 %	0.9 %	0.9 %	0.5 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5109 ppm	0.5176 ppm	0.5009 ppm	0.5054 ppm	0.5269 ppm	5.2373 ppm	0.5018 ppm
Concentration per Run 1	0.5162 ppm	0.5234 ppm	0.5063 ppm	0.5118 ppm	0.5295 ppm	5.3166 ppm	0.5086 ppm
Concentration per Run 2	0.5110 ppm	0.5160 ppm	0.5002 ppm	0.5043 ppm	0.5253 ppm	5.2119 ppm	0.4993 ppm
Concentration per Run 3	0.5055 ppm	0.5133 ppm	0.4964 ppm	0.5002 ppm	0.5258 ppm	5.1833 ppm	0.4974 ppm
Recovery Percentage 1	102.181 %	103.517 %	100.185 %	101.082 %	105.374 %	104.746 %	100.354 %
Concentration RSD	1.0 %	1.0 %	1.0 %	1.2 %	0.4 %	1.3 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5140 ppm	0.4980 ppm	0.5043 ppm	10.3089 ppm	0.5163 ppm	0.4986 ppm	0.4987 ppm
Concentration per Run 1	0.5190 ppm	0.5023 ppm	0.5030 ppm	10.3435 ppm	0.5225 ppm	0.5029 ppm	0.5035 ppm
Concentration per Run 2	0.5151 ppm	0.4965 ppm	0.5039 ppm	10.2733 ppm	0.5180 ppm	0.4981 ppm	0.4971 ppm
Concentration per Run 3	0.5077 ppm	0.4952 ppm	0.5060 ppm	10.3099 ppm	0.5083 ppm	0.4949 ppm	0.4955 ppm
Recovery Percentage 1	102.791 %	99.596 %	100.862 %	103.089 %	103.254 %	99.727 %	99.740 %
Concentration RSD	1.1 %	0.8 %	0.3 %	0.3 %	1.4 %	0.8 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4848 ppm	5.2372 ppm	0.5152 ppm	0.5106 ppm	0.5092 ppm	0.5060 ppm	0.5020 ppm
Concentration per Run 1	0.4872 ppm	5.2904 ppm	0.5149 ppm	0.5097 ppm	0.5154 ppm	0.5063 ppm	0.5077 ppm
Concentration per Run 2	0.4840 ppm	5.2308 ppm	0.5153 ppm	0.5110 ppm	0.5089 ppm	0.5083 ppm	0.5027 ppm
Concentration per Run 3	0.4833 ppm	5.1904 ppm	0.5154 ppm	0.5110 ppm	0.5035 ppm	0.5033 ppm	0.4955 ppm
Recovery Percentage 1	96.964 %	99.756 %	103.037 %	102.112 %	101.849 %	101.197 %	100.391 %
Concentration RSD	0.4 %	1.0 %	0.1 %	0.1 %	1.2 %	0.5 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5103 ppm	108.5178 %	110.4067 %	106.8190 %	97.2752 %	101.4310 %	99.0313 %
Concentration per Run 1	0.5179 ppm	106.7467 %	110.1300 %	105.6587 %	96.9209 %	101.6765 %	98.6170 %
Concentration per Run 2	0.5106 ppm	108.7761 %	110.3294 %	106.8617 %	97.6359 %	101.1930 %	98.9168 %
Concentration per Run 3	0.5024 ppm	110.0307 %	110.7607 %	107.9367 %	97.2686 %	101.4234 %	99.5600 %
Recovery Percentage 1	102.058 %						
Concentration RSD	1.5 %	1.5 %	0.3 %	1.1 %	0.4 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 3:10:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0010 ppm	0.0000 ppm	-0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0061 ppm	0.0002 ppm	-0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run 2	-0.0004 ppm	-0.0071 ppm	0.0000 ppm	-0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	-0.0001 ppm	0.0103 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0080 ppm
Recovery Percentage 1	-3.010 %	-0.953 %	-0.651 %	-3.172 %	0.896 %	1.638 %	3.059 %
Concentration RSD	88.1 %	1,025.2 %	965.4 %	113.3 %	105.7 %	41.1 %	161.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0042 ppm	-0.0207 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	-0.0002 ppm	0.0007 ppm	0.0035 ppm	-0.0183 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0048 ppm	-0.0202 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0045 ppm	-0.0236 ppm	-0.0002 ppm
Recovery Percentage 1	-0.076 %	1.216 %	-2.243 %	5.637 %	8.485 %	-0.829 %	2.893 %
Concentration RSD	1,533.7 %	151.8 %	20.1 %	37.5 %	15.9 %	13.1 %	409.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0432 ppm	-0.0003 ppm	-0.0011 ppm	0.0003 ppm
Concentration per Run 1	-0.0008 ppm	-0.0002 ppm	-0.0001 ppm	-0.0423 ppm	-0.0008 ppm	-0.0012 ppm	-0.0004 ppm
Concentration per Run 2	0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0451 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0003 ppm	-0.0004 ppm	-0.0423 ppm	-0.0004 ppm	-0.0018 ppm	0.0016 ppm
Recovery Percentage 1	0.707 %	1.162 %	-0.324 %	-2.161 %	-1.361 %	-10.567 %	0.601 %
Concentration RSD	185.5 %	203.9 %	137.7 %	3.7 %	123.9 %	78.6 %	364.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0071 ppm	-0.0007 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0013 ppm	-0.0059 ppm	-0.0013 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 2	0.0006 ppm	-0.0083 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 3	-0.0015 ppm	-0.0072 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	0.0001 ppm
Recovery Percentage 1	-7.427 %	-1.428 %	-1.497 %	0.433 %	-1.915 %	1.362 %	0.593 %
Concentration RSD	153.5 %	16.4 %	77.5 %	41.3 %	6.6 %	378.9 %	545.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	99.2050 %	101.4201 %	100.1336 %	98.3199 %	100.6779 %	99.7815 %
Concentration per Run 1	0.0007 ppm	97.1167 %	101.2426 %	99.1112 %	97.1548 %	101.6351 %	99.8805 %
Concentration per Run 2	0.0006 ppm	99.4363 %	101.3072 %	100.4258 %	98.6995 %	100.4531 %	99.8378 %
Concentration per Run 3	0.0005 ppm	101.0620 %	101.7103 %	100.8639 %	99.1053 %	99.9455 %	99.6263 %
Recovery Percentage 1	12.212 %						
Concentration RSD	15.9 %	2.0 %	0.2 %	0.9 %	1.0 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-06d2 WG1934441
Analysis started at: 6/15/2024 3:16:36 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	50.2057 ppm	0.0146 ppm	0.0266 ppm	0.2785 ppm	0.0026 ppm	68.3165 ppm
Concentration per Run 1	0.0004 ppm	50.2519 ppm	0.0135 ppm	0.0270 ppm	0.2796 ppm	0.0026 ppm	68.5639 ppm
Concentration per Run 2	0.0001 ppm	50.1651 ppm	0.0166 ppm	0.0263 ppm	0.2786 ppm	0.0027 ppm	68.2773 ppm
Concentration per Run 3	0.0006 ppm	50.2001 ppm	0.0138 ppm	0.0264 ppm	0.2774 ppm	0.0026 ppm	68.1082 ppm
Concentration RSD	60.3 %	0.1 %	12.0 %	1.3 %	0.4 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0333 ppm	0.0877 ppm	0.1392 ppm	74.0850 ppm	4.0339 ppm	0.1373 ppm
Concentration per Run 1	0.0019 ppm	0.0338 ppm	0.0890 ppm	0.1409 ppm	74.4755 ppm	4.0806 ppm	0.1378 ppm
Concentration per Run 2	0.0020 ppm	0.0330 ppm	0.0881 ppm	0.1396 ppm	74.2507 ppm	4.0443 ppm	0.1382 ppm
Concentration per Run 3	0.0019 ppm	0.0331 ppm	0.0859 ppm	0.1369 ppm	73.5287 ppm	3.9769 ppm	0.1359 ppm
Concentration RSD	3.1 %	1.3 %	1.8 %	1.5 %	0.7 %	1.3 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.0892 ppm	0.6570 ppm	0.0015 ppm	8.2165 ppm	0.1032 ppm	0.0715 ppm	-0.0030 ppm
Concentration per Run 1	52.0253 ppm	0.6595 ppm	0.0018 ppm	8.2880 ppm	0.1046 ppm	0.0738 ppm	-0.0045 ppm
Concentration per Run 2	51.0697 ppm	0.6559 ppm	0.0013 ppm	8.2498 ppm	0.1044 ppm	0.0698 ppm	-0.0030 ppm
Concentration per Run 3	50.1726 ppm	0.6557 ppm	0.0015 ppm	8.1116 ppm	0.1005 ppm	0.0709 ppm	-0.0013 ppm
Concentration RSD	1.8 %	0.3 %	15.2 %	1.1 %	2.2 %	2.9 %	53.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	3.3146 ppm	0.0020 ppm	0.1418 ppm	0.5532 ppm	0.0008 ppm	0.1368 ppm
Concentration per Run 1	0.0058 ppm	3.3787 ppm	0.0026 ppm	0.1429 ppm	0.5614 ppm	0.0004 ppm	0.1392 ppm
Concentration per Run 2	0.0021 ppm	3.3275 ppm	0.0024 ppm	0.1419 ppm	0.5530 ppm	0.0001 ppm	0.1366 ppm
Concentration per Run 3	0.0067 ppm	3.2377 ppm	0.0010 ppm	0.1405 ppm	0.5451 ppm	0.0019 ppm	0.1345 ppm
Concentration RSD	50.4 %	2.2 %	41.6 %	0.9 %	1.5 %	121.1 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3827 ppm	107.2044 %	114.9249 %	100.8620 %	114.6135 %	125.9736 %	117.1182 %
Concentration per Run 1	0.3899 ppm	105.1169 %	114.4361 %	100.3645 %	114.2175 %	126.1547 %	117.3741 %
Concentration per Run 2	0.3865 ppm	107.1937 %	115.4912 %	101.3504 %	114.4388 %	126.3585 %	117.5093 %
Concentration per Run 3	0.3717 ppm	109.3025 %	114.8475 %	100.8711 %	115.1841 %	125.4076 %	116.4711 %
Concentration RSD	2.5 %	2.0 %	0.5 %	0.5 %	0.4 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-09d2 WG1934441
Analysis started at: 6/15/2024 3:20:41 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	15.0696 ppm	0.0135 ppm	0.0756 ppm	0.4446 ppm	0.0009 ppm	166.1177 ppm
Concentration per Run 1	0.0002 ppm	15.0896 ppm	0.0124 ppm	0.0767 ppm	0.4475 ppm	0.0009 ppm	166.5970 ppm
Concentration per Run 2	0.0000 ppm	15.0853 ppm	0.0129 ppm	0.0751 ppm	0.4423 ppm	0.0009 ppm	166.0924 ppm
Concentration per Run 3	0.0003 ppm	15.0341 ppm	0.0151 ppm	0.0750 ppm	0.4441 ppm	0.0009 ppm	165.6637 ppm
Concentration RSD	79.4 %	0.2 %	10.7 %	1.3 %	0.6 %	1.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0107 ppm	0.0246 ppm	0.1165 ppm	36.2990 ppm	3.5109 ppm	0.0386 ppm
Concentration per Run 1	0.0010 ppm	0.0106 ppm	0.0249 ppm	0.1182 ppm	36.4294 ppm	3.5543 ppm	0.0404 ppm
Concentration per Run 2	0.0010 ppm	0.0105 ppm	0.0242 ppm	0.1165 ppm	36.3198 ppm	3.5155 ppm	0.0394 ppm
Concentration per Run 3	0.0010 ppm	0.0108 ppm	0.0246 ppm	0.1147 ppm	36.1477 ppm	3.4629 ppm	0.0361 ppm
Concentration RSD	1.9 %	1.5 %	1.6 %	1.5 %	0.4 %	1.3 %	5.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.2336 ppm	2.1607 ppm	0.0341 ppm	33.6773 ppm	0.0402 ppm	0.2823 ppm	0.0001 ppm
Concentration per Run 1	52.9052 ppm	2.1664 ppm	0.0342 ppm	33.8421 ppm	0.0410 ppm	0.2867 ppm	-0.0005 ppm
Concentration per Run 2	52.0875 ppm	2.1631 ppm	0.0337 ppm	33.6098 ppm	0.0394 ppm	0.2799 ppm	0.0013 ppm
Concentration per Run 3	51.7082 ppm	2.1525 ppm	0.0345 ppm	33.5800 ppm	0.0404 ppm	0.2803 ppm	-0.0006 ppm
Concentration RSD	1.2 %	0.3 %	1.2 %	0.4 %	2.0 %	1.3 %	1,668.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.5492 ppm	0.0135 ppm	0.3312 ppm	0.2264 ppm	0.0004 ppm	0.0451 ppm
Concentration per Run 1	0.0021 ppm	3.6071 ppm	0.0139 ppm	0.3326 ppm	0.2261 ppm	0.0013 ppm	0.0459 ppm
Concentration per Run 2	0.0017 ppm	3.5461 ppm	0.0138 ppm	0.3323 ppm	0.2278 ppm	0.0005 ppm	0.0450 ppm
Concentration per Run 3	-0.0032 ppm	3.4942 ppm	0.0127 ppm	0.3289 ppm	0.2254 ppm	-0.0005 ppm	0.0444 ppm
Concentration RSD	1,697.3 %	1.6 %	4.9 %	0.6 %	0.6 %	224.5 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5469 ppm	104.0345 %	111.8292 %	97.0533 %	100.4349 %	110.6847 %	102.2120 %
Concentration per Run 1	0.5544 ppm	102.3776 %	111.3430 %	96.3841 %	100.0682 %	110.7530 %	102.2969 %
Concentration per Run 2	0.5454 ppm	104.2877 %	112.5953 %	97.2054 %	100.6148 %	111.4391 %	101.9726 %
Concentration per Run 3	0.5410 ppm	105.4383 %	111.5493 %	97.5704 %	100.6217 %	109.8620 %	102.3664 %
Concentration RSD	1.2 %	1.5 %	0.6 %	0.6 %	0.3 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-12d2 WG1934441
Analysis started at: 6/15/2024 3:24:39 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	87.4226 ppm	0.0530 ppm	0.0628 ppm	0.6858 ppm	0.0070 ppm	315.2455 ppm
Concentration per Run 1	0.0002 ppm	87.8343 ppm	0.0541 ppm	0.0643 ppm	0.6885 ppm	0.0071 ppm	316.3597 ppm
Concentration per Run 2	0.0004 ppm	87.1725 ppm	0.0518 ppm	0.0620 ppm	0.6846 ppm	0.0070 ppm	314.4964 ppm
Concentration per Run 3	0.0004 ppm	87.2612 ppm	0.0531 ppm	0.0621 ppm	0.6844 ppm	0.0070 ppm	314.8804 ppm
Concentration RSD	46.0 %	0.4 %	2.2 %	2.1 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0380 ppm	0.0942 ppm	0.1804 ppm	102.7724 ppm	6.1088 ppm	0.1289 ppm
Concentration per Run 1	0.0029 ppm	0.0381 ppm	0.0952 ppm	0.1827 ppm	103.3195 ppm	6.1972 ppm	0.1313 ppm
Concentration per Run 2	0.0029 ppm	0.0381 ppm	0.0947 ppm	0.1801 ppm	102.3847 ppm	6.0801 ppm	0.1284 ppm
Concentration per Run 3	0.0030 ppm	0.0378 ppm	0.0928 ppm	0.1785 ppm	102.6128 ppm	6.0491 ppm	0.1270 ppm
Concentration RSD	1.6 %	0.5 %	1.4 %	1.2 %	0.5 %	1.3 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.1339 ppm	5.9296 ppm	0.0033 ppm	3.6611 ppm	0.0933 ppm	0.3877 ppm	0.0010 ppm
Concentration per Run 1	80.2956 ppm	5.9621 ppm	0.0031 ppm	3.6624 ppm	0.0946 ppm	0.3911 ppm	-0.0003 ppm
Concentration per Run 2	79.0406 ppm	5.9151 ppm	0.0033 ppm	3.6545 ppm	0.0928 ppm	0.3871 ppm	0.0005 ppm
Concentration per Run 3	78.0654 ppm	5.9115 ppm	0.0036 ppm	3.6665 ppm	0.0925 ppm	0.3850 ppm	0.0027 ppm
Concentration RSD	1.4 %	0.5 %	8.5 %	0.2 %	1.2 %	0.8 %	157.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	9.8953 ppm	0.0119 ppm	0.4675 ppm	0.6657 ppm	0.0014 ppm	0.1363 ppm
Concentration per Run 1	0.0000 ppm	10.0443 ppm	0.0116 ppm	0.4697 ppm	0.6758 ppm	0.0017 ppm	0.1382 ppm
Concentration per Run 2	0.0022 ppm	9.8903 ppm	0.0119 ppm	0.4656 ppm	0.6656 ppm	0.0010 ppm	0.1366 ppm
Concentration per Run 3	-0.0006 ppm	9.7513 ppm	0.0122 ppm	0.4672 ppm	0.6558 ppm	0.0014 ppm	0.1343 ppm
Concentration RSD	293.6 %	1.5 %	2.5 %	0.4 %	1.5 %	27.6 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6080 ppm	103.6619 %	113.4745 %	93.7313 %	113.0335 %	127.6425 %	115.7859 %
Concentration per Run 1	0.6168 ppm	102.4561 %	112.5689 %	93.1392 %	113.4442 %	127.0929 %	115.9988 %
Concentration per Run 2	0.6063 ppm	103.6167 %	114.5238 %	93.6688 %	112.9855 %	128.7759 %	115.3191 %
Concentration per Run 3	0.6010 ppm	104.9128 %	113.3308 %	94.3858 %	112.6709 %	127.0586 %	116.0399 %
Concentration RSD	1.3 %	1.2 %	0.9 %	0.7 %	0.3 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-13d2 WG1934441
Analysis started at: 6/15/2024 3:28:38 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	35.9567 ppm	0.0231 ppm	0.0449 ppm	0.2791 ppm	0.0018 ppm	846.4741 ppm
Concentration per Run 1	-0.0002 ppm	36.0345 ppm	0.0247 ppm	0.0454 ppm	0.2813 ppm	0.0018 ppm	851.3506 ppm
Concentration per Run 2	-0.0005 ppm	36.0986 ppm	0.0232 ppm	0.0453 ppm	0.2783 ppm	0.0019 ppm	846.9341 ppm
Concentration per Run 3	-0.0004 ppm	35.7370 ppm	0.0215 ppm	0.0439 ppm	0.2777 ppm	0.0018 ppm	841.1376 ppm
Concentration RSD	31.7 %	0.5 %	6.8 %	1.9 %	0.7 %	1.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0255 ppm	0.0577 ppm	0.0952 ppm	72.7134 ppm	4.1426 ppm	0.0902 ppm
Concentration per Run 1	0.0017 ppm	0.0267 ppm	0.0584 ppm	0.0974 ppm	73.1820 ppm	4.1455 ppm	0.0936 ppm
Concentration per Run 2	0.0015 ppm	0.0249 ppm	0.0580 ppm	0.0951 ppm	72.8188 ppm	4.1812 ppm	0.0895 ppm
Concentration per Run 3	0.0014 ppm	0.0249 ppm	0.0565 ppm	0.0932 ppm	72.1395 ppm	4.1009 ppm	0.0876 ppm
Concentration RSD	10.8 %	4.0 %	1.7 %	2.2 %	0.7 %	1.0 %	3.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	401.2779 ppm	2.4908 ppm	0.0011 ppm	3.1416 ppm	0.0680 ppm	0.1930 ppm	0.0001 ppm
Concentration per Run 1	411.2472 ppm	2.4976 ppm	0.0011 ppm	3.1557 ppm	0.0702 ppm	0.1936 ppm	-0.0005 ppm
Concentration per Run 2	399.9611 ppm	2.5033 ppm	0.0005 ppm	3.1344 ppm	0.0677 ppm	0.1929 ppm	0.0009 ppm
Concentration per Run 3	392.6255 ppm	2.4715 ppm	0.0017 ppm	3.1346 ppm	0.0662 ppm	0.1926 ppm	-0.0002 ppm
Concentration RSD	2.3 %	0.7 %	55.0 %	0.4 %	3.0 %	0.3 %	1,061.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0091 ppm	5.3866 ppm	0.0038 ppm	0.7694 ppm	0.7538 ppm	0.0018 ppm	0.1230 ppm
Concentration per Run 1	-0.0064 ppm	5.5044 ppm	0.0036 ppm	0.7733 ppm	0.7718 ppm	0.0013 ppm	0.1260 ppm
Concentration per Run 2	-0.0099 ppm	5.3652 ppm	0.0043 ppm	0.7702 ppm	0.7511 ppm	0.0025 ppm	0.1228 ppm
Concentration per Run 3	-0.0109 ppm	5.2902 ppm	0.0034 ppm	0.7646 ppm	0.7386 ppm	0.0016 ppm	0.1202 ppm
Concentration RSD	26.4 %	2.0 %	12.6 %	0.6 %	2.2 %	34.6 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4913 ppm	93.8211 %	106.3424 %	82.9533 %	105.6129 %	122.4310 %	107.2643 %
Concentration per Run 1	0.5040 ppm	91.4577 %	105.9093 %	82.5819 %	104.9340 %	122.9561 %	107.3999 %
Concentration per Run 2	0.4919 ppm	93.9604 %	105.5975 %	82.9994 %	105.6066 %	121.3088 %	107.5511 %
Concentration per Run 3	0.4779 ppm	96.0451 %	107.5203 %	83.2787 %	106.2981 %	123.0280 %	106.8420 %
Concentration RSD	2.7 %	2.4 %	1.0 %	0.4 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432356-01d50 WG1934441
Analysis started at: 6/15/2024 3:32:35 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	0.0159 ppm	0.0038 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	1.1827 ppm
Concentration per Run 1	0.0014 ppm	0.0283 ppm	0.0036 ppm	-0.0008 ppm	0.0005 ppm	0.0000 ppm	1.1890 ppm
Concentration per Run 2	0.0019 ppm	0.0097 ppm	0.0033 ppm	0.0014 ppm	0.0005 ppm	0.0001 ppm	1.1820 ppm
Concentration per Run 3	0.0015 ppm	0.0097 ppm	0.0044 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	1.1770 ppm
Concentration RSD	16.0 %	67.4 %	14.8 %	721.3 %	8.7 %	130.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	37.8453 ppm	0.0222 ppm	1.2486 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0004 ppm	38.3881 ppm	0.0221 ppm	1.2597 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0003 ppm	37.8111 ppm	0.0214 ppm	1.2425 ppm	0.0038 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	37.3368 ppm	0.0229 ppm	1.2437 ppm	-0.0007 ppm
Concentration RSD	298.3 %	250.3 %	476.5 %	1.4 %	3.4 %	0.8 %	347.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1697 ppm	0.0011 ppm	-0.0021 ppm	22.4008 ppm	0.0030 ppm	0.0189 ppm	0.0007 ppm
Concentration per Run 1	0.1734 ppm	0.0008 ppm	-0.0019 ppm	22.4984 ppm	0.0024 ppm	0.0183 ppm	-0.0014 ppm
Concentration per Run 2	0.1695 ppm	0.0012 ppm	-0.0024 ppm	22.3747 ppm	0.0026 ppm	0.0187 ppm	0.0031 ppm
Concentration per Run 3	0.1661 ppm	0.0013 ppm	-0.0021 ppm	22.3292 ppm	0.0041 ppm	0.0195 ppm	0.0005 ppm
Concentration RSD	2.1 %	24.7 %	11.7 %	0.4 %	31.3 %	3.3 %	319.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0005 ppm	0.0798 ppm	0.0003 ppm	0.0001 ppm	-0.0009 ppm	-0.0004 ppm
Concentration per Run 1	-0.0025 ppm	0.0017 ppm	0.0813 ppm	0.0003 ppm	0.0000 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0024 ppm	0.0011 ppm	0.0788 ppm	0.0004 ppm	0.0001 ppm	-0.0012 ppm	-0.0007 ppm
Concentration per Run 3	0.0031 ppm	-0.0013 ppm	0.0795 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm
Concentration RSD	308.7 %	329.7 %	1.6 %	11.5 %	48.5 %	126.8 %	76.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3594 ppm	104.4835 %	109.1598 %	102.3996 %	98.2063 %	103.4599 %	95.4307 %
Concentration per Run 1	0.3669 ppm	102.0896 %	108.4628 %	101.5358 %	97.1113 %	103.5128 %	95.4142 %
Concentration per Run 2	0.3599 ppm	104.6014 %	110.2298 %	102.5839 %	98.3768 %	104.2781 %	95.5022 %
Concentration per Run 3	0.3514 ppm	106.7595 %	108.7868 %	103.0791 %	99.1309 %	102.5888 %	95.3756 %
Concentration RSD	2.2 %	2.2 %	0.9 %	0.8 %	1.0 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433393-05d4 WG1934441
Analysis started at: 6/15/2024 3:36:32 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	81.1422 ppm	0.0281 ppm	0.2239 ppm	0.8647 ppm	0.0106 ppm	549.0966 ppm
Concentration per Run 1	0.0003 ppm	81.4144 ppm	0.0262 ppm	0.2311 ppm	0.8683 ppm	0.0106 ppm	550.8737 ppm
Concentration per Run 2	0.0008 ppm	81.0536 ppm	0.0286 ppm	0.2212 ppm	0.8673 ppm	0.0106 ppm	548.0149 ppm
Concentration per Run 3	0.0002 ppm	80.9587 ppm	0.0296 ppm	0.2192 ppm	0.8584 ppm	0.0105 ppm	548.4011 ppm
Concentration RSD	68.3 %	0.3 %	6.3 %	2.8 %	0.6 %	0.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0055 ppm	0.0101 ppm	0.0658 ppm	0.0658 ppm	56.7859 ppm	5.5446 ppm	0.1036 ppm
Concentration per Run 1	0.0056 ppm	0.0100 ppm	0.0679 ppm	0.0680 ppm	56.7834 ppm	5.5895 ppm	0.1050 ppm
Concentration per Run 2	0.0054 ppm	0.0104 ppm	0.0654 ppm	0.0655 ppm	56.7902 ppm	5.5110 ppm	0.1014 ppm
Concentration per Run 3	0.0054 ppm	0.0100 ppm	0.0642 ppm	0.0640 ppm	56.7840 ppm	5.5332 ppm	0.1043 ppm
Concentration RSD	2.7 %	2.4 %	2.9 %	3.0 %	0.0 %	0.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	74.5980 ppm	8.9720 ppm	0.0012 ppm	4.7645 ppm	0.0316 ppm	3.8516 ppm	-0.0015 ppm
Concentration per Run 1	76.4256 ppm	9.0003 ppm	0.0009 ppm	4.7796 ppm	0.0319 ppm	3.8761 ppm	0.0002 ppm
Concentration per Run 2	74.3241 ppm	8.9640 ppm	0.0009 ppm	4.7626 ppm	0.0323 ppm	3.8567 ppm	-0.0032 ppm
Concentration per Run 3	73.0444 ppm	8.9517 ppm	0.0017 ppm	4.7514 ppm	0.0305 ppm	3.8221 ppm	-0.0015 ppm
Concentration RSD	2.3 %	0.3 %	41.7 %	0.3 %	3.1 %	0.7 %	114.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	4.7119 ppm	0.0190 ppm	1.1266 ppm	1.3591 ppm	0.0005 ppm	0.0872 ppm
Concentration per Run 1	-0.0015 ppm	4.8534 ppm	0.0204 ppm	1.1276 ppm	1.3861 ppm	0.0004 ppm	0.0896 ppm
Concentration per Run 2	-0.0041 ppm	4.6783 ppm	0.0180 ppm	1.1305 ppm	1.3569 ppm	0.0001 ppm	0.0865 ppm
Concentration per Run 3	0.0005 ppm	4.6041 ppm	0.0186 ppm	1.1217 ppm	1.3342 ppm	0.0012 ppm	0.0853 ppm
Concentration RSD	133.9 %	2.7 %	6.6 %	0.4 %	1.9 %	108.1 %	2.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2645 ppm	97.6282 %	108.2577 %	88.3137 %	110.5449 %	124.0383 %	112.0236 %
Concentration per Run 1	1.3008 ppm	94.6827 %	107.8501 %	88.1628 %	108.9193 %	124.1721 %	112.7533 %
Concentration per Run 2	1.2535 ppm	98.0502 %	108.7682 %	88.0103 %	111.0795 %	124.8123 %	111.5119 %
Concentration per Run 3	1.2390 ppm	100.1517 %	108.1547 %	88.7679 %	111.6359 %	123.1304 %	111.8055 %
Concentration RSD	2.6 %	2.8 %	0.4 %	0.5 %	1.3 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 3:42:31 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5143 ppm	0.5072 ppm	0.4786 ppm	0.5062 ppm	0.5071 ppm	0.5121 ppm	0.5045 ppm
Concentration per Run 1	0.5204 ppm	0.5056 ppm	0.4808 ppm	0.5147 ppm	0.5061 ppm	0.5125 ppm	0.5032 ppm
Concentration per Run 2	0.5146 ppm	0.5088 ppm	0.4785 ppm	0.5041 ppm	0.5066 ppm	0.5111 ppm	0.5074 ppm
Concentration per Run 3	0.5078 ppm	0.5073 ppm	0.4764 ppm	0.4998 ppm	0.5087 ppm	0.5126 ppm	0.5029 ppm
Recovery Percentage 1	102.853 %	101.443 %	95.714 %	101.235 %	101.429 %	102.411 %	100.896 %
Concentration RSD	1.2 %	0.3 %	0.5 %	1.5 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5128 ppm	0.5205 ppm	0.5030 ppm	0.5087 ppm	0.5228 ppm	5.2467 ppm	0.5033 ppm
Concentration per Run 1	0.5217 ppm	0.5282 ppm	0.5123 ppm	0.5166 ppm	0.5228 ppm	5.2851 ppm	0.5075 ppm
Concentration per Run 2	0.5117 ppm	0.5199 ppm	0.5036 ppm	0.5070 ppm	0.5245 ppm	5.2482 ppm	0.5049 ppm
Concentration per Run 3	0.5050 ppm	0.5135 ppm	0.4930 ppm	0.5026 ppm	0.5210 ppm	5.2068 ppm	0.4974 ppm
Recovery Percentage 1	102.566 %	104.103 %	100.595 %	101.746 %	104.558 %	104.934 %	100.651 %
Concentration RSD	1.6 %	1.4 %	1.9 %	1.4 %	0.3 %	0.7 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5122 ppm	0.4982 ppm	0.5087 ppm	10.2658 ppm	0.5161 ppm	0.4978 ppm	0.4963 ppm
Concentration per Run 1	0.5212 ppm	0.4991 ppm	0.5099 ppm	10.3052 ppm	0.5273 ppm	0.4993 ppm	0.5010 ppm
Concentration per Run 2	0.5091 ppm	0.4986 ppm	0.5081 ppm	10.2459 ppm	0.5139 ppm	0.4957 ppm	0.4961 ppm
Concentration per Run 3	0.5065 ppm	0.4969 ppm	0.5082 ppm	10.2463 ppm	0.5072 ppm	0.4985 ppm	0.4919 ppm
Recovery Percentage 1	102.447 %	99.640 %	101.748 %	102.658 %	103.224 %	99.561 %	99.266 %
Concentration RSD	1.5 %	0.2 %	0.2 %	0.3 %	2.0 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4838 ppm	5.2541 ppm	0.5163 ppm	0.5137 ppm	0.5102 ppm	0.5073 ppm	0.5046 ppm
Concentration per Run 1	0.4861 ppm	5.3266 ppm	0.5207 ppm	0.5129 ppm	0.5186 ppm	0.5094 ppm	0.5116 ppm
Concentration per Run 2	0.4849 ppm	5.2388 ppm	0.5168 ppm	0.5134 ppm	0.5086 ppm	0.5075 ppm	0.5032 ppm
Concentration per Run 3	0.4803 ppm	5.1969 ppm	0.5116 ppm	0.5147 ppm	0.5034 ppm	0.5050 ppm	0.4989 ppm
Recovery Percentage 1	96.758 %	100.078 %	103.266 %	102.731 %	102.039 %	101.457 %	100.919 %
Concentration RSD	0.6 %	1.3 %	0.9 %	0.2 %	1.5 %	0.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5125 ppm	108.4701 %	110.5439 %	107.0547 %	97.1116 %	101.3047 %	98.6248 %
Concentration per Run 1	0.5218 ppm	106.9784 %	110.6657 %	106.8022 %	96.6787 %	101.9472 %	98.9250 %
Concentration per Run 2	0.5118 ppm	108.5491 %	110.1756 %	107.4578 %	97.1305 %	100.7828 %	99.0346 %
Concentration per Run 3	0.5038 ppm	109.8828 %	110.7903 %	106.9042 %	97.5256 %	101.1841 %	97.9147 %
Recovery Percentage 1	102.495 %						
Concentration RSD	1.8 %	1.3 %	0.3 %	0.3 %	0.4 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 3:46:31 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0016 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0003 ppm	0.0052 ppm	-0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0001 ppm	-0.0009 ppm	0.0004 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0040 ppm
Recovery Percentage 1	-0.292 %	1.593 %	6.557 %	1.341 %	0.225 %	0.636 %	-0.220 %
Concentration RSD	1,290.7 %	200.3 %	209.3 %	239.0 %	444.3 %	38.8 %	1,510.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0035 ppm	-0.0424 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0031 ppm	-0.0141 ppm	0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	-0.0005 ppm	0.0006 ppm	0.0029 ppm	-0.0579 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0045 ppm	-0.0553 ppm	0.0020 ppm
Recovery Percentage 1	-0.182 %	-0.634 %	-2.418 %	3.977 %	6.979 %	-1.697 %	4.767 %
Concentration RSD	1,449.3 %	224.6 %	117.3 %	61.9 %	25.6 %	57.9 %	364.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0005 ppm	-0.0501 ppm	-0.0006 ppm	-0.0008 ppm	0.0010 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	-0.0477 ppm	-0.0002 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	-0.0009 ppm	-0.0505 ppm	-0.0007 ppm	-0.0016 ppm	0.0029 ppm
Concentration per Run 3	-0.0005 ppm	0.0004 ppm	-0.0005 ppm	-0.0521 ppm	-0.0009 ppm	-0.0003 ppm	-0.0003 ppm
Recovery Percentage 1	-0.160 %	1.222 %	-1.099 %	-2.505 %	-2.288 %	-7.980 %	2.057 %
Concentration RSD	236.1 %	218.0 %	55.9 %	4.5 %	64.3 %	85.1 %	165.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0067 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0011 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0030 ppm	-0.0090 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 3	0.0020 ppm	-0.0099 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm
Recovery Percentage 1	-4.190 %	-1.331 %	-0.184 %	0.062 %	-0.908 %	-0.376 %	0.805 %
Concentration RSD	607.1 %	72.1 %	751.3 %	1,753.7 %	54.9 %	1,655.2 %	75.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	99.6963 %	101.9376 %	100.6802 %	98.3061 %	101.3145 %	99.7420 %
Concentration per Run 1	0.0004 ppm	98.1721 %	101.7316 %	99.9970 %	97.7397 %	101.8384 %	100.0507 %
Concentration per Run 2	0.0003 ppm	99.7955 %	102.2953 %	100.6312 %	98.3493 %	101.5659 %	99.8266 %
Concentration per Run 3	0.0006 ppm	101.1213 %	101.7858 %	101.4123 %	98.8294 %	100.5392 %	99.3487 %
Recovery Percentage 1	9.187 %						
Concentration RSD	33.2 %	1.5 %	0.3 %	0.7 %	0.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934738-1 WG1934738
Analysis started at: 6/15/2024 3:55:30 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0161 ppm	0.0004 ppm	-0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0393 ppm
Concentration per Run 1	0.0000 ppm	0.0200 ppm	0.0004 ppm	-0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0400 ppm
Concentration per Run 2	0.0001 ppm	0.0086 ppm	-0.0007 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0393 ppm
Concentration per Run 3	-0.0002 ppm	0.0198 ppm	0.0017 ppm	-0.0014 ppm	0.0002 ppm	-0.0001 ppm	0.0387 ppm
Concentration RSD	1,026.6 %	40.5 %	261.6 %	12.8 %	30.2 %	280.8 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0372 ppm	-0.0233 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0009 ppm	-0.0001 ppm	0.0368 ppm	-0.0146 ppm	0.0013 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0012 ppm	0.0000 ppm	0.0366 ppm	-0.0357 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0002 ppm	0.0381 ppm	-0.0195 ppm	0.0000 ppm
Concentration RSD	3,658.1 %	135.2 %	18.6 %	524.8 %	2.3 %	47.5 %	137.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0065 ppm	0.0012 ppm	-0.0017 ppm	-0.0328 ppm	0.0000 ppm	-0.0010 ppm	-0.0013 ppm
Concentration per Run 1	0.0062 ppm	0.0013 ppm	-0.0020 ppm	-0.0394 ppm	-0.0003 ppm	-0.0004 ppm	-0.0017 ppm
Concentration per Run 2	0.0068 ppm	0.0010 ppm	-0.0015 ppm	-0.0360 ppm	0.0004 ppm	-0.0017 ppm	-0.0007 ppm
Concentration per Run 3	0.0066 ppm	0.0012 ppm	-0.0017 ppm	-0.0230 ppm	-0.0002 ppm	-0.0008 ppm	-0.0014 ppm
Concentration RSD	4.8 %	13.9 %	16.7 %	26.5 %	834.2 %	67.9 %	41.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0016 ppm	0.0010 ppm	0.0001 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 1	-0.0012 ppm	0.0025 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0011 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm	-0.0013 ppm	-0.0003 ppm
Concentration per Run 3	0.0011 ppm	0.0013 ppm	0.0012 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm	0.0001 ppm
Concentration RSD	2,125.9 %	45.8 %	67.2 %	143.1 %	28.8 %	54.5 %	552.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	136.9286 %	113.8476 %	118.5929 %	99.8957 %	100.5198 %	99.5365 %
Concentration per Run 1	0.0021 ppm	142.3640 %	114.5360 %	120.2921 %	100.0440 %	100.6868 %	99.7107 %
Concentration per Run 2	0.0022 ppm	136.6002 %	113.3288 %	118.5899 %	100.2721 %	99.8099 %	99.2668 %
Concentration per Run 3	0.0021 ppm	131.8215 %	113.6779 %	116.8965 %	99.3711 %	101.0627 %	99.6321 %
Concentration RSD	3.2 %	3.9 %	0.5 %	1.4 %	0.5 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934738-2d2 WG1934738
Analysis started at: 6/15/2024 3:59:47 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0499 ppm	1.9719 ppm	0.1159 ppm	0.9939 ppm	1.9549 ppm	0.0494 ppm	10.0712 ppm
Concentration per Run 1	0.0506 ppm	1.9818 ppm	0.1175 ppm	1.0049 ppm	1.9630 ppm	0.0497 ppm	10.1078 ppm
Concentration per Run 2	0.0500 ppm	1.9763 ppm	0.1160 ppm	0.9923 ppm	1.9564 ppm	0.0491 ppm	10.0577 ppm
Concentration per Run 3	0.0493 ppm	1.9576 ppm	0.1143 ppm	0.9843 ppm	1.9454 ppm	0.0493 ppm	10.0480 ppm
Concentration RSD	1.3 %	0.6 %	1.4 %	1.0 %	0.5 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0535 ppm	0.4935 ppm	0.1962 ppm	0.2521 ppm	1.0206 ppm	10.3857 ppm	0.0005 ppm
Concentration per Run 1	0.0541 ppm	0.5003 ppm	0.2003 ppm	0.2560 ppm	1.0268 ppm	10.4989 ppm	-0.0009 ppm
Concentration per Run 2	0.0533 ppm	0.4925 ppm	0.1954 ppm	0.2506 ppm	1.0148 ppm	10.2484 ppm	0.0027 ppm
Concentration per Run 3	0.0531 ppm	0.4878 ppm	0.1929 ppm	0.2495 ppm	1.0201 ppm	10.4098 ppm	-0.0002 ppm
Concentration RSD	1.0 %	1.3 %	1.9 %	1.4 %	0.6 %	1.2 %	379.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1199 ppm	0.4924 ppm	1.0277 ppm	10.3190 ppm	0.4964 ppm	0.5339 ppm	0.5019 ppm
Concentration per Run 1	10.2879 ppm	0.4954 ppm	1.0296 ppm	10.3134 ppm	0.5048 ppm	0.5383 ppm	0.5089 ppm
Concentration per Run 2	10.0789 ppm	0.4908 ppm	1.0263 ppm	10.4351 ppm	0.4954 ppm	0.5317 ppm	0.5004 ppm
Concentration per Run 3	9.9928 ppm	0.4910 ppm	1.0273 ppm	10.2084 ppm	0.4891 ppm	0.5317 ppm	0.4964 ppm
Concentration RSD	1.5 %	0.5 %	0.2 %	1.1 %	1.6 %	0.7 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1161 ppm	1.0282 ppm	0.9899 ppm	0.9801 ppm	1.0156 ppm	0.1202 ppm	0.4992 ppm
Concentration per Run 1	0.1164 ppm	1.0482 ppm	0.9872 ppm	0.9880 ppm	1.0326 ppm	0.1198 ppm	0.5057 ppm
Concentration per Run 2	0.1152 ppm	1.0205 ppm	0.9904 ppm	0.9756 ppm	1.0143 ppm	0.1199 ppm	0.4988 ppm
Concentration per Run 3	0.1167 ppm	1.0159 ppm	0.9921 ppm	0.9767 ppm	1.0000 ppm	0.1208 ppm	0.4931 ppm
Concentration RSD	0.7 %	1.7 %	0.3 %	0.7 %	1.6 %	0.5 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4963 ppm	106.6593 %	108.4486 %	102.4047 %	95.9069 %	100.1191 %	96.5522 %
Concentration per Run 1	0.5037 ppm	105.0312 %	107.5812 %	101.3610 %	95.6391 %	99.6406 %	96.4439 %
Concentration per Run 2	0.4952 ppm	106.8961 %	108.8133 %	103.0602 %	96.1639 %	100.4729 %	96.9398 %
Concentration per Run 3	0.4899 ppm	108.0504 %	108.9514 %	102.7929 %	95.9176 %	100.2436 %	96.2729 %
Concentration RSD	1.4 %	1.4 %	0.7 %	0.9 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: eL2428271-13d2 WG1934738
Analysis started at: 6/15/2024 4:03:45 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	55.1652 ppm	0.2049 ppm	0.0658 ppm	0.5475 ppm	0.0024 ppm	25.7029 ppm
Concentration per Run 1	0.0026 ppm	55.2376 ppm	0.2058 ppm	0.0656 ppm	0.5454 ppm	0.0023 ppm	25.7251 ppm
Concentration per Run 2	0.0024 ppm	54.8757 ppm	0.2043 ppm	0.0654 ppm	0.5469 ppm	0.0024 ppm	25.5856 ppm
Concentration per Run 3	0.0025 ppm	55.3821 ppm	0.2045 ppm	0.0663 ppm	0.5501 ppm	0.0024 ppm	25.7978 ppm
Concentration RSD	4.1 %	0.5 %	0.4 %	0.8 %	0.4 %	2.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0134 ppm	0.1498 ppm	1.7640 ppm	1.1165 ppm	684.9616 ppm	3.5205 ppm	0.0700 ppm
Concentration per Run 1	0.0137 ppm	0.1515 ppm	1.7768 ppm	1.1252 ppm	685.2600 ppm	3.4979 ppm	0.0708 ppm
Concentration per Run 2	0.0133 ppm	0.1485 ppm	1.7612 ppm	1.1126 ppm	682.2839 ppm	3.5054 ppm	0.0686 ppm
Concentration per Run 3	0.0133 ppm	0.1494 ppm	1.7541 ppm	1.1118 ppm	687.3410 ppm	3.5582 ppm	0.0707 ppm
Concentration RSD	1.7 %	1.0 %	0.7 %	0.7 %	0.4 %	0.9 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.3671 ppm	6.7522 ppm	0.2063 ppm	1.3461 ppm	0.9788 ppm	1.4241 ppm	0.1434 ppm
Concentration per Run 1	19.4796 ppm	6.7563 ppm	0.2044 ppm	1.3450 ppm	0.9828 ppm	1.4237 ppm	0.1451 ppm
Concentration per Run 2	19.4154 ppm	6.7310 ppm	0.2065 ppm	1.3489 ppm	0.9840 ppm	1.4236 ppm	0.1415 ppm
Concentration per Run 3	19.2063 ppm	6.7695 ppm	0.2079 ppm	1.3444 ppm	0.9696 ppm	1.4249 ppm	0.1437 ppm
Concentration RSD	0.7 %	0.3 %	0.8 %	0.2 %	0.8 %	0.1 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	4.4097 ppm	0.1320 ppm	0.1520 ppm	2.6828 ppm	0.0025 ppm	0.3927 ppm
Concentration per Run 1	0.0050 ppm	4.4840 ppm	0.1310 ppm	0.1517 ppm	2.6945 ppm	0.0027 ppm	0.3957 ppm
Concentration per Run 2	0.0061 ppm	4.3996 ppm	0.1328 ppm	0.1524 ppm	2.6891 ppm	0.0039 ppm	0.3931 ppm
Concentration per Run 3	0.0038 ppm	4.3455 ppm	0.1323 ppm	0.1519 ppm	2.6647 ppm	0.0009 ppm	0.3893 ppm
Concentration RSD	23.4 %	1.6 %	0.7 %	0.2 %	0.6 %	58.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	5.4742 ppm	114.5393 %	118.2522 %	94.4164 %	110.3051 %	121.7560 %	112.5293 %
Concentration per Run 1	5.5090 ppm	113.4762 %	117.6430 %	94.5679 %	109.9217 %	121.3312 %	112.9000 %
Concentration per Run 2	5.5019 ppm	114.6305 %	119.2872 %	94.8581 %	110.2893 %	123.0213 %	113.0693 %
Concentration per Run 3	5.4116 ppm	115.5111 %	117.8265 %	93.8231 %	110.7044 %	120.9153 %	111.6185 %
Concentration RSD	1.0 %	0.9 %	0.8 %	0.6 %	0.4 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: eL2428271-14d2 WG1934738
Analysis started at: 6/15/2024 4:07:43 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	73.8575 ppm	0.2199 ppm	0.0726 ppm	0.5705 ppm	0.0028 ppm	28.5140 ppm
Concentration per Run 1	0.0019 ppm	73.6424 ppm	0.2167 ppm	0.0728 ppm	0.5722 ppm	0.0029 ppm	28.3509 ppm
Concentration per Run 2	0.0023 ppm	73.9592 ppm	0.2185 ppm	0.0735 ppm	0.5701 ppm	0.0027 ppm	28.4984 ppm
Concentration per Run 3	0.0023 ppm	73.9711 ppm	0.2244 ppm	0.0715 ppm	0.5692 ppm	0.0028 ppm	28.6927 ppm
Concentration RSD	10.3 %	0.3 %	1.8 %	1.4 %	0.3 %	2.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0120 ppm	0.2400 ppm	5.2089 ppm	1.1136 ppm	713.6053 ppm	5.0404 ppm	0.0981 ppm
Concentration per Run 1	0.0119 ppm	0.2414 ppm	5.2472 ppm	1.1208 ppm	719.3130 ppm	5.0634 ppm	0.0989 ppm
Concentration per Run 2	0.0119 ppm	0.2415 ppm	5.2039 ppm	1.1172 ppm	711.0755 ppm	5.0558 ppm	0.0988 ppm
Concentration per Run 3	0.0122 ppm	0.2371 ppm	5.1757 ppm	1.1029 ppm	710.4275 ppm	5.0021 ppm	0.0967 ppm
Concentration RSD	1.7 %	1.0 %	0.7 %	0.8 %	0.7 %	0.7 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.7762 ppm	10.9143 ppm	0.6808 ppm	1.5525 ppm	1.1124 ppm	2.4630 ppm	0.2117 ppm
Concentration per Run 1	26.0077 ppm	10.8960 ppm	0.6722 ppm	1.5529 ppm	1.1203 ppm	2.4322 ppm	0.2153 ppm
Concentration per Run 2	25.7999 ppm	10.9292 ppm	0.6836 ppm	1.5558 ppm	1.1124 ppm	2.4848 ppm	0.2117 ppm
Concentration per Run 3	25.5209 ppm	10.9178 ppm	0.6865 ppm	1.5487 ppm	1.1044 ppm	2.4720 ppm	0.2082 ppm
Concentration RSD	0.9 %	0.2 %	1.1 %	0.2 %	0.7 %	1.1 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0056 ppm	4.5349 ppm	0.0719 ppm	0.1729 ppm	3.0215 ppm	0.0021 ppm	0.5376 ppm
Concentration per Run 1	0.0060 ppm	4.5243 ppm	0.0733 ppm	0.1756 ppm	3.0519 ppm	0.0007 ppm	0.5422 ppm
Concentration per Run 2	0.0065 ppm	4.6200 ppm	0.0716 ppm	0.1713 ppm	3.0183 ppm	0.0023 ppm	0.5387 ppm
Concentration per Run 3	0.0044 ppm	4.4602 ppm	0.0707 ppm	0.1718 ppm	2.9945 ppm	0.0034 ppm	0.5318 ppm
Concentration RSD	19.2 %	1.8 %	1.9 %	1.4 %	1.0 %	64.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.9207 ppm	115.5175 %	121.2491 %	93.4890 %	111.8529 %	125.2471 %	112.8913 %
Concentration per Run 1	3.9397 ppm	114.6316 %	120.6020 %	94.4514 %	111.2638 %	124.6200 %	113.4613 %
Concentration per Run 2	3.9309 ppm	115.2226 %	121.8879 %	92.7388 %	111.6850 %	126.1291 %	111.9815 %
Concentration per Run 3	3.8915 ppm	116.6983 %	121.2573 %	93.2767 %	112.6098 %	124.9924 %	113.2311 %
Concentration RSD	0.7 %	0.9 %	0.5 %	0.9 %	0.6 %	0.6 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2428271-15d2 WG1934738
Analysis started at: 6/15/2024 4:11:42 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0021 ppm	133.9120 ppm	0.0834 ppm	0.0137 ppm	0.6603 ppm	0.0028 ppm	15.2491 ppm
Concentration per Run 1	0.0021 ppm	134.0171 ppm	0.0839 ppm	0.0142 ppm	0.6608 ppm	0.0028 ppm	15.2826 ppm
Concentration per Run 2	0.0022 ppm	133.8866 ppm	0.0831 ppm	0.0135 ppm	0.6605 ppm	0.0028 ppm	15.1819 ppm
Concentration per Run 3	0.0019 ppm	133.8322 ppm	0.0831 ppm	0.0134 ppm	0.6595 ppm	0.0028 ppm	15.2826 ppm
Concentration RSD	7.9 %	0.1 %	0.6 %	3.2 %	0.1 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0650 ppm	0.6939 ppm	0.7207 ppm	231.0986 ppm	5.4198 ppm	0.1208 ppm
Concentration per Run 1	0.0041 ppm	0.0660 ppm	0.7026 ppm	0.7342 ppm	230.7881 ppm	5.4610 ppm	0.1221 ppm
Concentration per Run 2	0.0040 ppm	0.0647 ppm	0.6894 ppm	0.7197 ppm	231.4240 ppm	5.3966 ppm	0.1186 ppm
Concentration per Run 3	0.0039 ppm	0.0643 ppm	0.6896 ppm	0.7083 ppm	231.0836 ppm	5.4018 ppm	0.1216 ppm
Concentration RSD	1.9 %	1.4 %	1.1 %	1.8 %	0.1 %	0.7 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.7241 ppm	2.6137 ppm	0.0864 ppm	0.8456 ppm	0.2014 ppm	1.2078 ppm	0.0237 ppm
Concentration per Run 1	20.0499 ppm	2.6139 ppm	0.0855 ppm	0.8353 ppm	0.2034 ppm	1.2105 ppm	0.0259 ppm
Concentration per Run 2	19.6567 ppm	2.6087 ppm	0.0867 ppm	0.8508 ppm	0.1988 ppm	1.2071 ppm	0.0242 ppm
Concentration per Run 3	19.4656 ppm	2.6185 ppm	0.0869 ppm	0.8507 ppm	0.2020 ppm	1.2059 ppm	0.0212 ppm
Concentration RSD	1.5 %	0.2 %	0.9 %	1.1 %	1.2 %	0.2 %	10.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0082 ppm	7.6667 ppm	0.0323 ppm	0.0904 ppm	0.5172 ppm	0.0027 ppm	0.3555 ppm
Concentration per Run 1	0.0073 ppm	7.9976 ppm	0.0319 ppm	0.0905 ppm	0.5347 ppm	0.0037 ppm	0.3628 ppm
Concentration per Run 2	0.0092 ppm	7.4306 ppm	0.0315 ppm	0.0904 ppm	0.5125 ppm	0.0026 ppm	0.3537 ppm
Concentration per Run 3	0.0081 ppm	7.5720 ppm	0.0336 ppm	0.0903 ppm	0.5044 ppm	0.0018 ppm	0.3502 ppm
Concentration RSD	11.5 %	3.8 %	3.4 %	0.2 %	3.0 %	35.5 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6149 ppm	113.2593 %	119.8309 %	103.2313 %	114.6214 %	125.8934 %	116.5163 %
Concentration per Run 1	1.6362 ppm	111.2667 %	120.6033 %	103.2619 %	113.6404 %	126.8618 %	117.3800 %
Concentration per Run 2	1.6008 ppm	113.4930 %	119.3276 %	103.6435 %	115.1309 %	125.6321 %	116.4398 %
Concentration per Run 3	1.6078 ppm	115.0181 %	119.5619 %	102.7885 %	115.0928 %	125.1862 %	115.7291 %
Concentration RSD	1.2 %	1.7 %	0.6 %	0.4 %	0.7 %	0.7 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-01d2 WG1934738
Analysis started at: 6/15/2024 4:15:40 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	74.1696 ppm	0.0575 ppm	0.0175 ppm	0.4223 ppm	0.0038 ppm	12.0840 ppm
Concentration per Run 1	0.0003 ppm	74.2010 ppm	0.0574 ppm	0.0188 ppm	0.4232 ppm	0.0039 ppm	12.1039 ppm
Concentration per Run 2	0.0010 ppm	74.1930 ppm	0.0572 ppm	0.0171 ppm	0.4208 ppm	0.0037 ppm	12.0879 ppm
Concentration per Run 3	0.0008 ppm	74.1149 ppm	0.0579 ppm	0.0165 ppm	0.4227 ppm	0.0038 ppm	12.0601 ppm
Concentration RSD	48.6 %	0.1 %	0.7 %	6.6 %	0.3 %	1.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0036 ppm	0.0719 ppm	0.1213 ppm	0.2250 ppm	176.2746 ppm	8.3716 ppm	0.1461 ppm
Concentration per Run 1	0.0035 ppm	0.0728 ppm	0.1232 ppm	0.2276 ppm	176.7626 ppm	8.4138 ppm	0.1475 ppm
Concentration per Run 2	0.0036 ppm	0.0720 ppm	0.1211 ppm	0.2249 ppm	175.9045 ppm	8.3486 ppm	0.1451 ppm
Concentration per Run 3	0.0036 ppm	0.0710 ppm	0.1196 ppm	0.2225 ppm	176.1566 ppm	8.3523 ppm	0.1455 ppm
Concentration RSD	1.5 %	1.2 %	1.5 %	1.1 %	0.3 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.3972 ppm	3.2653 ppm	0.0023 ppm	0.3935 ppm	0.1554 ppm	0.3244 ppm	0.0085 ppm
Concentration per Run 1	25.7460 ppm	3.2679 ppm	0.0022 ppm	0.3926 ppm	0.1583 ppm	0.3254 ppm	0.0061 ppm
Concentration per Run 2	25.3799 ppm	3.2642 ppm	0.0023 ppm	0.4002 ppm	0.1549 ppm	0.3265 ppm	0.0113 ppm
Concentration per Run 3	25.0658 ppm	3.2638 ppm	0.0024 ppm	0.3878 ppm	0.1531 ppm	0.3213 ppm	0.0080 ppm
Concentration RSD	1.3 %	0.1 %	3.1 %	1.6 %	1.7 %	0.8 %	31.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	19.6142 ppm	0.0147 ppm	0.1019 ppm	1.5826 ppm	0.0030 ppm	0.1663 ppm
Concentration per Run 1	0.0031 ppm	20.8148 ppm	0.0153 ppm	0.1026 ppm	1.6506 ppm	0.0030 ppm	0.1695 ppm
Concentration per Run 2	-0.0011 ppm	19.8403 ppm	0.0140 ppm	0.1016 ppm	1.5698 ppm	0.0012 ppm	0.1653 ppm
Concentration per Run 3	0.0009 ppm	18.1876 ppm	0.0147 ppm	0.1017 ppm	1.5273 ppm	0.0048 ppm	0.1641 ppm
Concentration RSD	221.2 %	6.8 %	4.5 %	0.5 %	4.0 %	60.7 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1293 ppm	111.1687 %	115.5476 %	101.1206 %	117.9974 %	127.5491 %	119.4964 %
Concentration per Run 1	1.1483 ppm	109.7403 %	115.2895 %	100.8070 %	117.6433 %	127.8062 %	119.8598 %
Concentration per Run 2	1.1191 ppm	111.4101 %	115.6432 %	100.8890 %	118.1262 %	127.3819 %	119.3180 %
Concentration per Run 3	1.1205 ppm	112.3557 %	115.7101 %	101.6656 %	118.2226 %	127.4592 %	119.3115 %
Concentration RSD	1.5 %	1.2 %	0.2 %	0.5 %	0.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934738-3d2 WG1934738
Analysis started at: 6/15/2024 4:19:38 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0477 ppm	81.7053 ppm	0.1804 ppm	0.9163 ppm	2.2816 ppm	0.0503 ppm	22.2258 ppm
Concentration per Run 1	0.0486 ppm	81.8100 ppm	0.1831 ppm	0.9301 ppm	2.2927 ppm	0.0506 ppm	22.2535 ppm
Concentration per Run 2	0.0474 ppm	81.6357 ppm	0.1760 ppm	0.9188 ppm	2.2829 ppm	0.0501 ppm	22.2171 ppm
Concentration per Run 3	0.0472 ppm	81.6701 ppm	0.1822 ppm	0.8999 ppm	2.2691 ppm	0.0503 ppm	22.2068 ppm
Concentration RSD	1.6 %	0.1 %	2.1 %	1.7 %	0.5 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0528 ppm	0.5161 ppm	0.3016 ppm	0.4729 ppm	170.4997 ppm	19.1049 ppm	0.1506 ppm
Concentration per Run 1	0.0536 ppm	0.5231 ppm	0.3074 ppm	0.4785 ppm	171.3639 ppm	19.3019 ppm	0.1530 ppm
Concentration per Run 2	0.0527 ppm	0.5164 ppm	0.3013 ppm	0.4726 ppm	170.3851 ppm	19.0051 ppm	0.1505 ppm
Concentration per Run 3	0.0522 ppm	0.5088 ppm	0.2960 ppm	0.4675 ppm	169.7501 ppm	19.0078 ppm	0.1482 ppm
Concentration RSD	1.4 %	1.4 %	1.9 %	1.2 %	0.5 %	0.9 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.0419 ppm	2.9107 ppm	0.9524 ppm	10.2535 ppm	0.6102 ppm	0.8650 ppm	0.4436 ppm
Concentration per Run 1	36.7432 ppm	2.9099 ppm	0.9530 ppm	10.2418 ppm	0.6215 ppm	0.8681 ppm	0.4511 ppm
Concentration per Run 2	35.8942 ppm	2.9092 ppm	0.9505 ppm	10.2856 ppm	0.6104 ppm	0.8655 ppm	0.4413 ppm
Concentration per Run 3	35.4883 ppm	2.9131 ppm	0.9538 ppm	10.2331 ppm	0.5987 ppm	0.8612 ppm	0.4383 ppm
Concentration RSD	1.8 %	0.1 %	0.2 %	0.3 %	1.9 %	0.4 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1113 ppm	26.5972 ppm	0.8228 ppm	1.0311 ppm	2.6407 ppm	0.1264 ppm	0.6346 ppm
Concentration per Run 1	0.1126 ppm	28.4004 ppm	0.8248 ppm	1.0391 ppm	2.6883 ppm	0.1241 ppm	0.6431 ppm
Concentration per Run 2	0.1090 ppm	26.0660 ppm	0.8275 ppm	1.0256 ppm	2.6358 ppm	0.1291 ppm	0.6383 ppm
Concentration per Run 3	0.1122 ppm	25.3253 ppm	0.8162 ppm	1.0285 ppm	2.5979 ppm	0.1261 ppm	0.6223 ppm
Concentration RSD	1.8 %	6.0 %	0.7 %	0.7 %	1.7 %	2.0 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6182 ppm	109.7303 %	115.5859 %	99.0933 %	114.9857 %	127.7226 %	118.8837 %
Concentration per Run 1	1.6479 ppm	107.8164 %	115.2231 %	99.0787 %	113.5355 %	127.1197 %	119.8069 %
Concentration per Run 2	1.6183 ppm	110.6652 %	116.6766 %	98.8079 %	115.9948 %	129.0689 %	118.1809 %
Concentration per Run 3	1.5885 ppm	110.7095 %	114.8581 %	99.3933 %	115.4267 %	126.9790 %	118.6633 %
Concentration RSD	1.8 %	1.5 %	0.8 %	0.3 %	1.1 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934738-4d2 WG1934738
Analysis started at: 6/15/2024 4:23:35 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	74.7589 ppm	0.0587 ppm	0.0215 ppm	1.5966 ppm	0.0038 ppm	12.5997 ppm
Concentration per Run 1	0.0006 ppm	74.8241 ppm	0.0596 ppm	0.0225 ppm	1.6042 ppm	0.0038 ppm	12.6466 ppm
Concentration per Run 2	0.0006 ppm	74.7425 ppm	0.0585 ppm	0.0218 ppm	1.5993 ppm	0.0038 ppm	12.6017 ppm
Concentration per Run 3	0.0008 ppm	74.7101 ppm	0.0582 ppm	0.0201 ppm	1.5863 ppm	0.0038 ppm	12.5509 ppm
Concentration RSD	20.7 %	0.1 %	1.3 %	5.8 %	0.6 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0663 ppm	0.1154 ppm	0.3972 ppm	174.9564 ppm	8.4414 ppm	0.1494 ppm
Concentration per Run 1	0.0040 ppm	0.0671 ppm	0.1167 ppm	0.4020 ppm	175.3575 ppm	8.4484 ppm	0.1540 ppm
Concentration per Run 2	0.0041 ppm	0.0664 ppm	0.1151 ppm	0.3969 ppm	175.5388 ppm	8.4602 ppm	0.1449 ppm
Concentration per Run 3	0.0041 ppm	0.0655 ppm	0.1145 ppm	0.3928 ppm	173.9729 ppm	8.4157 ppm	0.1494 ppm
Concentration RSD	1.9 %	1.2 %	1.0 %	1.2 %	0.5 %	0.3 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.6737 ppm	3.2753 ppm	0.0035 ppm	0.4839 ppm	0.1680 ppm	0.4681 ppm	0.0084 ppm
Concentration per Run 1	25.0523 ppm	3.2786 ppm	0.0036 ppm	0.4999 ppm	0.1700 ppm	0.4719 ppm	0.0119 ppm
Concentration per Run 2	24.6010 ppm	3.2780 ppm	0.0035 ppm	0.4724 ppm	0.1685 ppm	0.4670 ppm	0.0066 ppm
Concentration per Run 3	24.3679 ppm	3.2694 ppm	0.0035 ppm	0.4794 ppm	0.1654 ppm	0.4655 ppm	0.0068 ppm
Concentration RSD	1.4 %	0.2 %	1.7 %	3.0 %	1.4 %	0.7 %	35.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	24.4814 ppm	0.0427 ppm	0.1287 ppm	1.6983 ppm	0.0026 ppm	0.1783 ppm
Concentration per Run 1	0.0040 ppm	25.6616 ppm	0.0440 ppm	0.1298 ppm	1.7813 ppm	0.0025 ppm	0.1816 ppm
Concentration per Run 2	0.0035 ppm	24.2180 ppm	0.0419 ppm	0.1292 ppm	1.6558 ppm	0.0028 ppm	0.1783 ppm
Concentration per Run 3	-0.0002 ppm	23.5647 ppm	0.0423 ppm	0.1272 ppm	1.6579 ppm	0.0025 ppm	0.1749 ppm
Concentration RSD	95.4 %	4.4 %	2.6 %	1.0 %	4.2 %	6.1 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.8459 ppm	110.5732 %	115.9963 %	100.9413 %	120.8190 %	131.2245 %	123.1384 %
Concentration per Run 1	2.8816 ppm	108.4733 %	115.7790 %	100.3403 %	119.9558 %	131.3036 %	123.4225 %
Concentration per Run 2	2.8295 ppm	111.3710 %	116.3410 %	100.7761 %	121.4560 %	131.2666 %	122.5811 %
Concentration per Run 3	2.8266 ppm	111.8751 %	115.8690 %	101.7076 %	121.0454 %	131.1033 %	123.4116 %
Concentration RSD	1.1 %	1.7 %	0.3 %	0.7 %	0.6 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934738-5d2 WG1934738
Analysis started at: 6/15/2024 4:27:33 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0425 ppm	73.0878 ppm	0.1795 ppm	0.9799 ppm	2.3299 ppm	0.0519 ppm	21.6018 ppm
Concentration per Run 1	0.0432 ppm	73.1920 ppm	0.1833 ppm	0.9901 ppm	2.3324 ppm	0.0524 ppm	21.6795 ppm
Concentration per Run 2	0.0425 ppm	72.9701 ppm	0.1783 ppm	0.9746 ppm	2.3234 ppm	0.0515 ppm	21.5779 ppm
Concentration per Run 3	0.0420 ppm	73.1014 ppm	0.1770 ppm	0.9748 ppm	2.3340 ppm	0.0517 ppm	21.5478 ppm
Concentration RSD	1.4 %	0.2 %	1.8 %	0.9 %	0.2 %	0.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0543 ppm	0.5388 ppm	0.3064 ppm	0.4662 ppm	171.1083 ppm	18.6924 ppm	0.1418 ppm
Concentration per Run 1	0.0548 ppm	0.5439 ppm	0.3096 ppm	0.4720 ppm	172.1339 ppm	18.8085 ppm	0.1433 ppm
Concentration per Run 2	0.0547 ppm	0.5385 ppm	0.3064 ppm	0.4662 ppm	170.4683 ppm	18.6976 ppm	0.1416 ppm
Concentration per Run 3	0.0536 ppm	0.5338 ppm	0.3033 ppm	0.4604 ppm	170.7228 ppm	18.5711 ppm	0.1404 ppm
Concentration RSD	1.3 %	0.9 %	1.0 %	1.2 %	0.5 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.3745 ppm	3.6140 ppm	0.9648 ppm	10.7860 ppm	0.6244 ppm	0.8527 ppm	0.4326 ppm
Concentration per Run 1	34.7471 ppm	3.6239 ppm	0.9557 ppm	10.8198 ppm	0.6298 ppm	0.8576 ppm	0.4312 ppm
Concentration per Run 2	34.3749 ppm	3.6062 ppm	0.9698 ppm	10.7520 ppm	0.6267 ppm	0.8533 ppm	0.4311 ppm
Concentration per Run 3	34.0015 ppm	3.6120 ppm	0.9691 ppm	10.7862 ppm	0.6166 ppm	0.8471 ppm	0.4356 ppm
Concentration RSD	1.1 %	0.2 %	0.8 %	0.3 %	1.1 %	0.6 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1197 ppm	19.0798 ppm	0.8367 ppm	1.0962 ppm	2.4783 ppm	0.1351 ppm	0.6357 ppm
Concentration per Run 1	0.1205 ppm	20.0633 ppm	0.8286 ppm	1.1071 ppm	2.5411 ppm	0.1359 ppm	0.6442 ppm
Concentration per Run 2	0.1170 ppm	19.1174 ppm	0.8429 ppm	1.0895 ppm	2.4591 ppm	0.1337 ppm	0.6350 ppm
Concentration per Run 3	0.1217 ppm	18.0587 ppm	0.8385 ppm	1.0919 ppm	2.4346 ppm	0.1357 ppm	0.6280 ppm
Concentration RSD	2.0 %	5.3 %	0.9 %	0.9 %	2.3 %	0.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.5814 ppm	110.4427 %	114.9698 %	99.6114 %	116.2405 %	125.8759 %	118.1340 %
Concentration per Run 1	1.5952 ppm	109.1585 %	114.6222 %	99.1304 %	116.3543 %	125.7000 %	118.3975 %
Concentration per Run 2	1.5841 ppm	110.2964 %	114.9156 %	99.9365 %	116.0945 %	126.0740 %	118.4291 %
Concentration per Run 3	1.5651 ppm	111.8730 %	115.3715 %	99.7672 %	116.2728 %	125.8536 %	117.5752 %
Concentration RSD	1.0 %	1.2 %	0.3 %	0.4 %	0.1 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934738-6d10 WG1934738
Analysis started at: 6/15/2024 4:31:31 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	15.4380 ppm	0.0105 ppm	0.0050 ppm	0.0869 ppm	0.0008 ppm	2.4648 ppm
Concentration per Run 1	-0.0003 ppm	15.5378 ppm	0.0116 ppm	0.0052 ppm	0.0874 ppm	0.0008 ppm	2.4714 ppm
Concentration per Run 2	0.0001 ppm	15.4552 ppm	0.0095 ppm	0.0057 ppm	0.0874 ppm	0.0007 ppm	2.4712 ppm
Concentration per Run 3	-0.0001 ppm	15.3209 ppm	0.0105 ppm	0.0041 ppm	0.0859 ppm	0.0008 ppm	2.4517 ppm
Concentration RSD	174.3 %	0.7 %	10.0 %	16.1 %	1.0 %	6.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0152 ppm	0.0255 ppm	0.0467 ppm	37.2643 ppm	1.7540 ppm	0.0308 ppm
Concentration per Run 1	0.0007 ppm	0.0152 ppm	0.0260 ppm	0.0482 ppm	37.4898 ppm	1.8173 ppm	0.0315 ppm
Concentration per Run 2	0.0006 ppm	0.0153 ppm	0.0255 ppm	0.0464 ppm	37.2476 ppm	1.7464 ppm	0.0317 ppm
Concentration per Run 3	0.0007 ppm	0.0150 ppm	0.0251 ppm	0.0457 ppm	37.0554 ppm	1.6983 ppm	0.0291 ppm
Concentration RSD	1.4 %	0.8 %	1.8 %	2.8 %	0.6 %	3.4 %	4.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.4914 ppm	0.6773 ppm	0.0013 ppm	0.0461 ppm	0.0326 ppm	0.0636 ppm	0.0028 ppm
Concentration per Run 1	5.6068 ppm	0.6812 ppm	0.0012 ppm	0.0455 ppm	0.0336 ppm	0.0659 ppm	0.0050 ppm
Concentration per Run 2	5.4817 ppm	0.6780 ppm	0.0013 ppm	0.0531 ppm	0.0329 ppm	0.0621 ppm	0.0024 ppm
Concentration per Run 3	5.3856 ppm	0.6728 ppm	0.0014 ppm	0.0397 ppm	0.0313 ppm	0.0627 ppm	0.0012 ppm
Concentration RSD	2.0 %	0.6 %	8.9 %	14.5 %	3.7 %	3.2 %	69.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	4.2984 ppm	0.0046 ppm	0.0209 ppm	0.3411 ppm	0.0003 ppm	0.0358 ppm
Concentration per Run 1	-0.0019 ppm	4.6324 ppm	0.0041 ppm	0.0209 ppm	0.3477 ppm	0.0015 ppm	0.0365 ppm
Concentration per Run 2	-0.0001 ppm	4.2555 ppm	0.0050 ppm	0.0210 ppm	0.3385 ppm	-0.0018 ppm	0.0357 ppm
Concentration per Run 3	0.0024 ppm	4.0073 ppm	0.0047 ppm	0.0209 ppm	0.3371 ppm	0.0013 ppm	0.0353 ppm
Concentration RSD	1,493.8 %	7.3 %	10.0 %	0.3 %	1.7 %	538.7 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2399 ppm	107.8655 %	109.7642 %	105.3357 %	103.1255 %	107.2677 %	105.0819 %
Concentration per Run 1	0.2460 ppm	106.0378 %	109.8854 %	103.9299 %	102.9581 %	108.1394 %	104.7730 %
Concentration per Run 2	0.2405 ppm	107.8656 %	109.1818 %	105.5300 %	103.1024 %	106.4366 %	105.2497 %
Concentration per Run 3	0.2331 ppm	109.6932 %	110.2253 %	106.5472 %	103.3160 %	107.2272 %	105.2230 %
Concentration RSD	2.7 %	1.7 %	0.5 %	1.3 %	0.2 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 4:35:30 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5058 ppm	0.5053 ppm	0.4747 ppm	0.4984 ppm	0.5060 ppm	0.5100 ppm	0.4991 ppm
Concentration per Run 1	0.5085 ppm	0.5084 ppm	0.4748 ppm	0.4991 ppm	0.5069 ppm	0.5124 ppm	0.5005 ppm
Concentration per Run 2	0.5056 ppm	0.5058 ppm	0.4720 ppm	0.4986 ppm	0.5061 ppm	0.5105 ppm	0.4956 ppm
Concentration per Run 3	0.5032 ppm	0.5019 ppm	0.4775 ppm	0.4974 ppm	0.5050 ppm	0.5070 ppm	0.5012 ppm
Recovery Percentage 1	101.154 %	101.068 %	94.947 %	99.676 %	101.200 %	101.995 %	99.818 %
Concentration RSD	0.5 %	0.6 %	0.6 %	0.2 %	0.2 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5060 ppm	0.5135 ppm	0.4948 ppm	0.5013 ppm	0.5271 ppm	5.2493 ppm	0.5040 ppm
Concentration per Run 1	0.5089 ppm	0.5175 ppm	0.4987 ppm	0.5054 ppm	0.5305 ppm	5.3553 ppm	0.5098 ppm
Concentration per Run 2	0.5046 ppm	0.5118 ppm	0.4938 ppm	0.5004 ppm	0.5237 ppm	5.2153 ppm	0.5007 ppm
Concentration per Run 3	0.5045 ppm	0.5112 ppm	0.4920 ppm	0.4982 ppm	0.5272 ppm	5.1772 ppm	0.5015 ppm
Recovery Percentage 1	101.201 %	102.702 %	98.961 %	100.261 %	105.426 %	104.985 %	100.799 %
Concentration RSD	0.5 %	0.7 %	0.7 %	0.7 %	0.7 %	1.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5032 ppm	0.4980 ppm	0.4987 ppm	10.2345 ppm	0.5080 ppm	0.4958 ppm	0.4942 ppm
Concentration per Run 1	0.5070 ppm	0.5002 ppm	0.4929 ppm	10.2958 ppm	0.5118 ppm	0.4973 ppm	0.4985 ppm
Concentration per Run 2	0.5013 ppm	0.4989 ppm	0.4983 ppm	10.2460 ppm	0.5068 ppm	0.4966 ppm	0.4905 ppm
Concentration per Run 3	0.5012 ppm	0.4951 ppm	0.5050 ppm	10.1618 ppm	0.5052 ppm	0.4934 ppm	0.4937 ppm
Recovery Percentage 1	100.636 %	99.608 %	99.748 %	102.345 %	101.592 %	99.150 %	98.847 %
Concentration RSD	0.7 %	0.5 %	1.2 %	0.7 %	0.7 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4842 ppm	5.2469 ppm	0.5094 ppm	0.5100 ppm	0.5021 ppm	0.5031 ppm	0.4961 ppm
Concentration per Run 1	0.4878 ppm	5.2893 ppm	0.5055 ppm	0.5113 ppm	0.5060 ppm	0.5046 ppm	0.4998 ppm
Concentration per Run 2	0.4821 ppm	5.2206 ppm	0.5081 ppm	0.5099 ppm	0.5028 ppm	0.5015 ppm	0.4961 ppm
Concentration per Run 3	0.4828 ppm	5.2308 ppm	0.5145 ppm	0.5088 ppm	0.4976 ppm	0.5032 ppm	0.4924 ppm
Recovery Percentage 1	96.846 %	99.941 %	101.875 %	102.005 %	100.430 %	100.622 %	99.223 %
Concentration RSD	0.6 %	0.7 %	0.9 %	0.2 %	0.8 %	0.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5039 ppm	109.5194 %	110.7684 %	107.8299 %	97.1138 %	101.8192 %	99.0727 %
Concentration per Run 1	0.5068 ppm	107.7148 %	110.9522 %	107.1741 %	96.0887 %	102.2494 %	99.1028 %
Concentration per Run 2	0.5036 ppm	110.3210 %	110.6029 %	108.1070 %	98.0170 %	101.3229 %	99.1671 %
Concentration per Run 3	0.5013 ppm	110.5224 %	110.7501 %	108.2087 %	97.2356 %	101.8853 %	98.9484 %
Recovery Percentage 1	100.782 %						
Concentration RSD	0.6 %	1.4 %	0.2 %	0.5 %	1.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 4:39:28 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0039 ppm	0.0002 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	-0.0006 ppm	-0.0004 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 2	-0.0001 ppm	0.0062 ppm	0.0011 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 3	-0.0002 ppm	0.0060 ppm	-0.0006 ppm	-0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	-4.467 %	3.944 %	7.280 %	-2.009 %	-0.057 %	0.505 %	-1.495 %
Concentration RSD	83.6 %	95.0 %	403.2 %	74.9 %	2,637.2 %	55.0 %	92.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0049 ppm	-0.0145 ppm	0.0007 ppm
Concentration per Run 1	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0005 ppm	0.0053 ppm	-0.0313 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0009 ppm	-0.0003 ppm	0.0003 ppm	0.0045 ppm	0.0137 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0048 ppm	-0.0258 ppm	0.0015 ppm
Recovery Percentage 1	1.828 %	-0.105 %	-2.437 %	4.930 %	9.732 %	-0.580 %	6.641 %
Concentration RSD	124.1 %	4,059.3 %	35.3 %	41.6 %	8.4 %	169.3 %	209.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0002 ppm	-0.0002 ppm	-0.0549 ppm	-0.0007 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0528 ppm	-0.0010 ppm	-0.0007 ppm	-0.0031 ppm
Concentration per Run 2	0.0009 ppm	0.0002 ppm	0.0001 ppm	-0.0572 ppm	-0.0011 ppm	-0.0004 ppm	0.0024 ppm
Concentration per Run 3	-0.0017 ppm	0.0001 ppm	-0.0007 ppm	-0.0546 ppm	0.0000 ppm	-0.0009 ppm	0.0014 ppm
Recovery Percentage 1	-0.193 %	1.960 %	-0.447 %	-2.743 %	-2.838 %	-6.685 %	0.471 %
Concentration RSD	686.7 %	34.3 %	193.7 %	4.0 %	86.9 %	34.6 %	1,243.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0223 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0113 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0024 ppm	0.0003 ppm
Concentration per Run 2	-0.0020 ppm	0.0377 ppm	-0.0007 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0031 ppm	0.0179 ppm	-0.0009 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-12.591 %	4.462 %	-1.220 %	1.053 %	1.385 %	4.007 %	1.251 %
Concentration RSD	179.6 %	61.4 %	63.2 %	71.0 %	374.5 %	168.2 %	196.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	100.8383 %	101.6927 %	101.2510 %	99.5276 %	100.9123 %	100.2254 %
Concentration per Run 1	0.0006 ppm	99.4238 %	101.8624 %	100.3632 %	98.9482 %	101.5011 %	100.6381 %
Concentration per Run 2	0.0007 ppm	100.6224 %	101.3733 %	101.3759 %	99.4154 %	100.6719 %	100.0777 %
Concentration per Run 3	0.0005 ppm	102.4686 %	101.8424 %	102.0138 %	100.2191 %	100.5639 %	99.9604 %
Recovery Percentage 1	11.416 %						
Concentration RSD	17.4 %	1.5 %	0.3 %	0.8 %	0.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430419-09d2 WG1934738
Analysis started at: 6/15/2024 5:01:47 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	27.8909 ppm	0.0162 ppm	0.0186 ppm	0.1625 ppm	0.0013 ppm	94.0275 ppm
Concentration per Run 1	-0.0004 ppm	27.9836 ppm	0.0155 ppm	0.0189 ppm	0.1625 ppm	0.0014 ppm	94.4293 ppm
Concentration per Run 2	0.0000 ppm	27.8346 ppm	0.0174 ppm	0.0173 ppm	0.1631 ppm	0.0013 ppm	93.8915 ppm
Concentration per Run 3	0.0000 ppm	27.8545 ppm	0.0157 ppm	0.0195 ppm	0.1619 ppm	0.0013 ppm	93.7616 ppm
Concentration RSD	204.6 %	0.3 %	6.3 %	6.2 %	0.4 %	1.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0308 ppm	0.0755 ppm	0.0461 ppm	44.5691 ppm	3.7271 ppm	0.0592 ppm
Concentration per Run 1	0.0013 ppm	0.0309 ppm	0.0774 ppm	0.0467 ppm	44.7315 ppm	3.7565 ppm	0.0584 ppm
Concentration per Run 2	0.0013 ppm	0.0309 ppm	0.0750 ppm	0.0462 ppm	44.6216 ppm	3.7356 ppm	0.0597 ppm
Concentration per Run 3	0.0013 ppm	0.0306 ppm	0.0742 ppm	0.0453 ppm	44.3541 ppm	3.6893 ppm	0.0595 ppm
Concentration RSD	1.3 %	0.7 %	2.2 %	1.5 %	0.4 %	0.9 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	59.5298 ppm	0.5954 ppm	0.0020 ppm	9.4471 ppm	0.0728 ppm	0.0438 ppm	0.0008 ppm
Concentration per Run 1	60.5238 ppm	0.5979 ppm	0.0020 ppm	9.4540 ppm	0.0741 ppm	0.0432 ppm	-0.0001 ppm
Concentration per Run 2	59.4373 ppm	0.5951 ppm	0.0018 ppm	9.4714 ppm	0.0729 ppm	0.0441 ppm	0.0035 ppm
Concentration per Run 3	58.6284 ppm	0.5932 ppm	0.0020 ppm	9.4160 ppm	0.0714 ppm	0.0443 ppm	-0.0008 ppm
Concentration RSD	1.6 %	0.4 %	4.6 %	0.3 %	1.9 %	1.3 %	274.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	10.8290 ppm	0.0015 ppm	0.0906 ppm	0.9071 ppm	0.0011 ppm	0.1030 ppm
Concentration per Run 1	-0.0027 ppm	11.6191 ppm	0.0006 ppm	0.0911 ppm	0.9186 ppm	-0.0013 ppm	0.1049 ppm
Concentration per Run 2	0.0009 ppm	10.6827 ppm	0.0013 ppm	0.0906 ppm	0.8995 ppm	0.0014 ppm	0.1027 ppm
Concentration per Run 3	0.0012 ppm	10.1850 ppm	0.0025 ppm	0.0901 ppm	0.9032 ppm	0.0031 ppm	0.1013 ppm
Concentration RSD	926.0 %	6.7 %	63.8 %	0.6 %	1.1 %	210.8 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2800 ppm	106.7769 %	111.2682 %	99.4183 %	109.6267 %	117.7189 %	111.3717 %
Concentration per Run 1	0.2857 ppm	104.8930 %	111.1258 %	99.1610 %	109.3659 %	118.0683 %	111.2722 %
Concentration per Run 2	0.2794 ppm	106.8950 %	111.3088 %	99.3194 %	109.4634 %	117.6069 %	111.7577 %
Concentration per Run 3	0.2750 ppm	108.5426 %	111.3701 %	99.7745 %	110.0507 %	117.4813 %	111.0852 %
Concentration RSD	1.9 %	1.7 %	0.1 %	0.3 %	0.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430419-17d2 WG1934738
Analysis started at: 6/15/2024 5:05:52 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	111.5711 ppm	0.0251 ppm	0.0513 ppm	0.6468 ppm	0.0060 ppm	40.5894 ppm
Concentration per Run 1	0.0009 ppm	111.9090 ppm	0.0287 ppm	0.0520 ppm	0.6520 ppm	0.0061 ppm	40.6330 ppm
Concentration per Run 2	0.0006 ppm	111.7288 ppm	0.0230 ppm	0.0513 ppm	0.6452 ppm	0.0060 ppm	40.6736 ppm
Concentration per Run 3	0.0007 ppm	111.0756 ppm	0.0238 ppm	0.0508 ppm	0.6431 ppm	0.0060 ppm	40.4615 ppm
Concentration RSD	19.8 %	0.4 %	12.3 %	1.1 %	0.7 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0026 ppm	0.0713 ppm	0.1596 ppm	0.2381 ppm	144.2467 ppm	10.3512 ppm	0.2554 ppm
Concentration per Run 1	0.0027 ppm	0.0720 ppm	0.1599 ppm	0.2397 ppm	144.7743 ppm	10.4552 ppm	0.2591 ppm
Concentration per Run 2	0.0024 ppm	0.0712 ppm	0.1604 ppm	0.2383 ppm	144.0048 ppm	10.3264 ppm	0.2540 ppm
Concentration per Run 3	0.0027 ppm	0.0706 ppm	0.1585 ppm	0.2364 ppm	143.9610 ppm	10.2720 ppm	0.2532 ppm
Concentration RSD	5.6 %	1.0 %	0.6 %	0.7 %	0.3 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.7017 ppm	1.3134 ppm	0.0083 ppm	9.0640 ppm	0.2371 ppm	0.1474 ppm	0.0028 ppm
Concentration per Run 1	43.0658 ppm	1.3170 ppm	0.0082 ppm	9.0762 ppm	0.2385 ppm	0.1487 ppm	0.0008 ppm
Concentration per Run 2	42.6628 ppm	1.3167 ppm	0.0080 ppm	9.0400 ppm	0.2378 ppm	0.1485 ppm	0.0055 ppm
Concentration per Run 3	42.3765 ppm	1.3064 ppm	0.0086 ppm	9.0759 ppm	0.2350 ppm	0.1452 ppm	0.0022 ppm
Concentration RSD	0.8 %	0.5 %	3.6 %	0.2 %	0.8 %	1.3 %	83.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	15.8308 ppm	0.0055 ppm	0.1538 ppm	0.4508 ppm	0.0036 ppm	0.1951 ppm
Concentration per Run 1	0.0063 ppm	16.6259 ppm	0.0058 ppm	0.1544 ppm	0.4663 ppm	0.0043 ppm	0.1965 ppm
Concentration per Run 2	-0.0004 ppm	15.9839 ppm	0.0053 ppm	0.1534 ppm	0.4469 ppm	0.0047 ppm	0.1950 ppm
Concentration per Run 3	0.0012 ppm	14.8826 ppm	0.0055 ppm	0.1535 ppm	0.4393 ppm	0.0017 ppm	0.1939 ppm
Concentration RSD	148.1 %	5.6 %	4.3 %	0.4 %	3.1 %	45.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7547 ppm	115.3429 %	121.9426 %	105.1864 %	126.5874 %	139.4710 %	128.4994 %
Concentration per Run 1	0.7583 ppm	113.5546 %	121.8388 %	104.7402 %	125.3548 %	139.6885 %	128.8188 %
Concentration per Run 2	0.7548 ppm	116.2693 %	122.1684 %	104.9187 %	128.5815 %	139.7036 %	128.0452 %
Concentration per Run 3	0.7511 ppm	116.2048 %	121.8205 %	105.9004 %	125.8258 %	139.0209 %	128.6341 %
Concentration RSD	0.5 %	1.3 %	0.2 %	0.6 %	1.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2430419-19d2 WG1934738
Analysis started at: 6/15/2024 5:11:23 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	61.8820 ppm	0.0167 ppm	0.0430 ppm	0.3056 ppm	0.0033 ppm	121.6051 ppm
Concentration per Run 1	0.0004 ppm	61.6262 ppm	0.0177 ppm	0.0413 ppm	0.3039 ppm	0.0033 ppm	121.0699 ppm
Concentration per Run 2	0.0002 ppm	61.9115 ppm	0.0140 ppm	0.0444 ppm	0.3057 ppm	0.0032 ppm	121.4736 ppm
Concentration per Run 3	0.0000 ppm	62.1083 ppm	0.0183 ppm	0.0433 ppm	0.3073 ppm	0.0032 ppm	122.2719 ppm
Concentration RSD	102.5 %	0.4 %	13.7 %	3.7 %	0.6 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0519 ppm	3.8271 ppm	0.2015 ppm	83.2236 ppm	11.3608 ppm	0.2400 ppm
Concentration per Run 1	0.0010 ppm	0.0504 ppm	3.6694 ppm	0.1946 ppm	82.8833 ppm	11.3875 ppm	0.2428 ppm
Concentration per Run 2	0.0012 ppm	0.0519 ppm	3.8533 ppm	0.2018 ppm	83.3419 ppm	11.3682 ppm	0.2392 ppm
Concentration per Run 3	0.0012 ppm	0.0534 ppm	3.9584 ppm	0.2082 ppm	83.4457 ppm	11.3266 ppm	0.2380 ppm
Concentration RSD	11.0 %	2.9 %	3.8 %	3.4 %	0.4 %	0.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	89.2108 ppm	0.6163 ppm	0.0008 ppm	4.9185 ppm	0.1208 ppm	0.1383 ppm	-0.0039 ppm
Concentration per Run 1	85.8766 ppm	0.6149 ppm	0.0009 ppm	4.8850 ppm	0.1164 ppm	0.1356 ppm	-0.0043 ppm
Concentration per Run 2	89.8406 ppm	0.6150 ppm	0.0003 ppm	4.9294 ppm	0.1206 ppm	0.1384 ppm	-0.0043 ppm
Concentration per Run 3	91.9153 ppm	0.6189 ppm	0.0014 ppm	4.9412 ppm	0.1253 ppm	0.1410 ppm	-0.0030 ppm
Concentration RSD	3.4 %	0.4 %	60.9 %	0.6 %	3.7 %	1.9 %	18.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	11.8654 ppm	0.0034 ppm	0.1829 ppm	1.6601 ppm	0.0036 ppm	0.1238 ppm
Concentration per Run 1	-0.0014 ppm	11.6840 ppm	0.0039 ppm	0.1816 ppm	1.6035 ppm	0.0050 ppm	0.1192 ppm
Concentration per Run 2	-0.0025 ppm	11.9663 ppm	0.0027 ppm	0.1848 ppm	1.6680 ppm	0.0030 ppm	0.1239 ppm
Concentration per Run 3	-0.0015 ppm	11.9458 ppm	0.0035 ppm	0.1823 ppm	1.7088 ppm	0.0029 ppm	0.1281 ppm
Concentration RSD	33.5 %	1.3 %	18.2 %	0.9 %	3.2 %	32.0 %	3.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5505 ppm	132.5451 %	119.0525 %	107.2548 %	118.0130 %	126.2198 %	119.9747 %
Concentration per Run 1	0.5264 ppm	137.3654 %	118.3561 %	108.3780 %	118.0293 %	124.7680 %	119.7481 %
Concentration per Run 2	0.5557 ppm	131.5420 %	119.7800 %	107.2910 %	118.1389 %	126.9353 %	119.9627 %
Concentration per Run 3	0.5695 ppm	128.7280 %	119.0214 %	106.0953 %	117.8707 %	126.9562 %	120.2134 %
Concentration RSD	4.0 %	3.3 %	0.6 %	1.1 %	0.1 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432577-01d2 WG1934738
Analysis started at: 6/15/2024 5:15:35 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	74.2761 ppm	0.0618 ppm	0.1200 ppm	0.5644 ppm	0.0027 ppm	814.8583 ppm
Concentration per Run 1	0.0004 ppm	74.2177 ppm	0.0611 ppm	0.1207 ppm	0.5653 ppm	0.0027 ppm	815.5851 ppm
Concentration per Run 2	0.0005 ppm	74.3469 ppm	0.0611 ppm	0.1212 ppm	0.5607 ppm	0.0027 ppm	815.1570 ppm
Concentration per Run 3	0.0003 ppm	74.2638 ppm	0.0631 ppm	0.1180 ppm	0.5673 ppm	0.0027 ppm	813.8329 ppm
Concentration RSD	24.6 %	0.1 %	1.8 %	1.5 %	0.6 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0387 ppm	0.4175 ppm	0.3543 ppm	103.7344 ppm	7.4442 ppm	0.0673 ppm
Concentration per Run 1	0.0020 ppm	0.0399 ppm	0.4272 ppm	0.3624 ppm	103.7276 ppm	7.4684 ppm	0.0694 ppm
Concentration per Run 2	0.0020 ppm	0.0386 ppm	0.4225 ppm	0.3556 ppm	103.4707 ppm	7.4654 ppm	0.0672 ppm
Concentration per Run 3	0.0020 ppm	0.0375 ppm	0.4029 ppm	0.3450 ppm	104.0051 ppm	7.3988 ppm	0.0651 ppm
Concentration RSD	1.7 %	3.0 %	3.1 %	2.5 %	0.3 %	0.5 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.4255 ppm	2.1511 ppm	0.0331 ppm	3.4406 ppm	0.1412 ppm	0.4291 ppm	0.0077 ppm
Concentration per Run 1	59.8077 ppm	2.1506 ppm	0.0325 ppm	3.4589 ppm	0.1443 ppm	0.4283 ppm	0.0092 ppm
Concentration per Run 2	58.9809 ppm	2.1508 ppm	0.0339 ppm	3.4333 ppm	0.1434 ppm	0.4319 ppm	0.0066 ppm
Concentration per Run 3	56.4880 ppm	2.1520 ppm	0.0328 ppm	3.4296 ppm	0.1359 ppm	0.4270 ppm	0.0073 ppm
Concentration RSD	3.0 %	0.0 %	2.2 %	0.5 %	3.2 %	0.6 %	17.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0086 ppm	11.3715 ppm	0.0238 ppm	1.3608 ppm	4.3019 ppm	0.0038 ppm	0.2902 ppm
Concentration per Run 1	-0.0086 ppm	11.6423 ppm	0.0243 ppm	1.3598 ppm	4.3896 ppm	0.0027 ppm	0.2962 ppm
Concentration per Run 2	-0.0097 ppm	11.4950 ppm	0.0239 ppm	1.3617 ppm	4.3483 ppm	0.0048 ppm	0.2926 ppm
Concentration per Run 3	-0.0075 ppm	10.9773 ppm	0.0232 ppm	1.3610 ppm	4.1678 ppm	0.0040 ppm	0.2819 ppm
Concentration RSD	12.6 %	3.1 %	2.4 %	0.1 %	2.7 %	27.0 %	2.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6971 ppm	100.3042 %	109.4485 %	86.2932 %	97.7906 %	110.8062 %	99.0749 %
Concentration per Run 1	0.7155 ppm	97.6553 %	109.7009 %	86.3324 %	96.0082 %	111.6282 %	99.4114 %
Concentration per Run 2	0.7038 ppm	99.4547 %	109.5989 %	85.7599 %	97.4960 %	110.4033 %	98.7564 %
Concentration per Run 3	0.6719 ppm	103.8027 %	109.0458 %	86.7872 %	99.8676 %	110.3871 %	99.0568 %
Concentration RSD	3.2 %	3.2 %	0.3 %	0.6 %	2.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432577-02d2 WG1934738
Analysis started at: 6/15/2024 5:19:33 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	68.4535 ppm	0.0541 ppm	0.0948 ppm	0.4683 ppm	0.0024 ppm	711.4956 ppm
Concentration per Run 1	0.0002 ppm	68.3492 ppm	0.0558 ppm	0.0966 ppm	0.4723 ppm	0.0024 ppm	711.3108 ppm
Concentration per Run 2	0.0002 ppm	68.5887 ppm	0.0529 ppm	0.0936 ppm	0.4682 ppm	0.0023 ppm	711.1687 ppm
Concentration per Run 3	0.0001 ppm	68.4226 ppm	0.0536 ppm	0.0943 ppm	0.4645 ppm	0.0025 ppm	712.0073 ppm
Concentration RSD	32.0 %	0.2 %	2.7 %	1.7 %	0.8 %	3.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0371 ppm	0.2234 ppm	0.2262 ppm	95.3296 ppm	7.3438 ppm	0.0590 ppm
Concentration per Run 1	0.0017 ppm	0.0377 ppm	0.2252 ppm	0.2277 ppm	96.0575 ppm	7.3676 ppm	0.0597 ppm
Concentration per Run 2	0.0014 ppm	0.0370 ppm	0.2226 ppm	0.2267 ppm	94.7512 ppm	7.3271 ppm	0.0580 ppm
Concentration per Run 3	0.0014 ppm	0.0366 ppm	0.2223 ppm	0.2241 ppm	95.1801 ppm	7.3368 ppm	0.0594 ppm
Concentration RSD	12.3 %	1.6 %	0.7 %	0.8 %	0.7 %	0.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	73.1272 ppm	1.6596 ppm	0.0138 ppm	3.6387 ppm	0.0997 ppm	0.3556 ppm	0.0063 ppm
Concentration per Run 1	73.8960 ppm	1.6653 ppm	0.0136 ppm	3.6319 ppm	0.1013 ppm	0.3577 ppm	0.0074 ppm
Concentration per Run 2	73.1031 ppm	1.6579 ppm	0.0139 ppm	3.6230 ppm	0.0995 ppm	0.3560 ppm	0.0073 ppm
Concentration per Run 3	72.3823 ppm	1.6555 ppm	0.0139 ppm	3.6613 ppm	0.0984 ppm	0.3530 ppm	0.0041 ppm
Concentration RSD	1.0 %	0.3 %	1.2 %	0.6 %	1.5 %	0.7 %	29.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0074 ppm	10.7567 ppm	0.0232 ppm	1.6586 ppm	4.2331 ppm	0.0049 ppm	0.2598 ppm
Concentration per Run 1	-0.0097 ppm	10.8789 ppm	0.0228 ppm	1.6721 ppm	4.2678 ppm	0.0068 ppm	0.2621 ppm
Concentration per Run 2	-0.0043 ppm	10.7861 ppm	0.0223 ppm	1.6451 ppm	4.2345 ppm	0.0050 ppm	0.2587 ppm
Concentration per Run 3	-0.0082 ppm	10.6053 ppm	0.0245 ppm	1.6587 ppm	4.1970 ppm	0.0028 ppm	0.2586 ppm
Concentration RSD	38.0 %	1.3 %	5.0 %	0.8 %	0.8 %	41.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5636 ppm	101.4321 %	110.8531 %	86.4909 %	98.6833 %	112.4406 %	99.6267 %
Concentration per Run 1	0.5727 ppm	99.9482 %	110.4845 %	86.3229 %	98.2516 %	112.3373 %	99.9935 %
Concentration per Run 2	0.5604 ppm	101.7540 %	110.6590 %	86.4767 %	98.8998 %	112.1073 %	99.5288 %
Concentration per Run 3	0.5577 ppm	102.5941 %	111.4157 %	86.6731 %	98.8983 %	112.8770 %	99.3577 %
Concentration RSD	1.4 %	1.3 %	0.4 %	0.2 %	0.4 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432577-03d2 WG1934738
Analysis started at: 6/15/2024 5:23:31 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	72.6030 ppm	0.0591 ppm	0.0830 ppm	0.5067 ppm	0.0028 ppm	746.9239 ppm
Concentration per Run 1	0.0006 ppm	72.6521 ppm	0.0591 ppm	0.0845 ppm	0.5058 ppm	0.0029 ppm	748.4155 ppm
Concentration per Run 2	-0.0002 ppm	72.3406 ppm	0.0588 ppm	0.0827 ppm	0.5051 ppm	0.0028 ppm	744.3738 ppm
Concentration per Run 3	-0.0005 ppm	72.8164 ppm	0.0594 ppm	0.0818 ppm	0.5093 ppm	0.0028 ppm	747.9824 ppm
Concentration RSD	1,009.7 %	0.3 %	0.5 %	1.7 %	0.4 %	2.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0426 ppm	0.2680 ppm	0.2493 ppm	109.6533 ppm	8.8013 ppm	0.0648 ppm
Concentration per Run 1	0.0017 ppm	0.0430 ppm	0.2721 ppm	0.2530 ppm	109.3894 ppm	8.8295 ppm	0.0675 ppm
Concentration per Run 2	0.0017 ppm	0.0426 ppm	0.2676 ppm	0.2492 ppm	109.3429 ppm	8.8165 ppm	0.0631 ppm
Concentration per Run 3	0.0016 ppm	0.0422 ppm	0.2644 ppm	0.2457 ppm	110.2275 ppm	8.7580 ppm	0.0637 ppm
Concentration RSD	2.5 %	1.0 %	1.4 %	1.5 %	0.5 %	0.4 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.9345 ppm	1.8292 ppm	0.0165 ppm	4.2307 ppm	0.1114 ppm	0.3271 ppm	0.0058 ppm
Concentration per Run 1	80.9114 ppm	1.8281 ppm	0.0162 ppm	4.2390 ppm	0.1136 ppm	0.3294 ppm	0.0057 ppm
Concentration per Run 2	80.0001 ppm	1.8236 ppm	0.0170 ppm	4.2180 ppm	0.1102 ppm	0.3268 ppm	0.0035 ppm
Concentration per Run 3	78.8919 ppm	1.8359 ppm	0.0163 ppm	4.2353 ppm	0.1104 ppm	0.3252 ppm	0.0080 ppm
Concentration RSD	1.3 %	0.3 %	2.6 %	0.3 %	1.7 %	0.6 %	39.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0083 ppm	9.6911 ppm	0.0152 ppm	1.9020 ppm	4.1853 ppm	0.0047 ppm	0.3035 ppm
Concentration per Run 1	-0.0091 ppm	9.9099 ppm	0.0147 ppm	1.9035 ppm	4.2345 ppm	0.0054 ppm	0.3044 ppm
Concentration per Run 2	-0.0064 ppm	9.6766 ppm	0.0151 ppm	1.8945 ppm	4.1827 ppm	0.0043 ppm	0.3049 ppm
Concentration per Run 3	-0.0095 ppm	9.4868 ppm	0.0157 ppm	1.9081 ppm	4.1386 ppm	0.0044 ppm	0.3011 ppm
Concentration RSD	20.1 %	2.2 %	3.4 %	0.4 %	1.1 %	12.9 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5946 ppm	100.9230 %	110.5862 %	86.0406 %	98.4503 %	112.3610 %	99.4192 %
Concentration per Run 1	0.6013 ppm	99.1731 %	110.8724 %	85.1797 %	97.9450 %	113.0010 %	98.8228 %
Concentration per Run 2	0.5959 ppm	101.0414 %	110.6322 %	86.1809 %	98.7505 %	112.2365 %	99.5659 %
Concentration per Run 3	0.5866 ppm	102.5547 %	110.2539 %	86.7611 %	98.6555 %	111.8455 %	99.8690 %
Concentration RSD	1.3 %	1.7 %	0.3 %	0.9 %	0.4 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-02d2 WG1934738
Analysis started at: 6/15/2024 5:27:28 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0033 ppm	69.8245 ppm	0.0806 ppm	0.0308 ppm	0.6358 ppm	0.0036 ppm	27.3885 ppm
Concentration per Run 1	0.0031 ppm	69.8198 ppm	0.0796 ppm	0.0303 ppm	0.6332 ppm	0.0037 ppm	27.4549 ppm
Concentration per Run 2	0.0036 ppm	70.1548 ppm	0.0829 ppm	0.0310 ppm	0.6383 ppm	0.0035 ppm	27.3434 ppm
Concentration per Run 3	0.0031 ppm	69.4988 ppm	0.0794 ppm	0.0309 ppm	0.6361 ppm	0.0036 ppm	27.3671 ppm
Concentration RSD	8.1 %	0.5 %	2.4 %	1.2 %	0.4 %	1.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0083 ppm	0.0616 ppm	0.1748 ppm	1.7805 ppm	266.9196 ppm	8.7021 ppm	0.1267 ppm
Concentration per Run 1	0.0085 ppm	0.0628 ppm	0.1779 ppm	1.8131 ppm	266.2407 ppm	8.7355 ppm	0.1282 ppm
Concentration per Run 2	0.0083 ppm	0.0610 ppm	0.1747 ppm	1.7705 ppm	267.1875 ppm	8.7847 ppm	0.1278 ppm
Concentration per Run 3	0.0081 ppm	0.0610 ppm	0.1719 ppm	1.7578 ppm	267.3306 ppm	8.5862 ppm	0.1241 ppm
Concentration RSD	2.3 %	1.7 %	1.7 %	1.6 %	0.2 %	1.2 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.5931 ppm	2.2050 ppm	0.0048 ppm	0.5303 ppm	0.1624 ppm	6.3976 ppm	0.1145 ppm
Concentration per Run 1	26.0746 ppm	2.2053 ppm	0.0048 ppm	0.5394 ppm	0.1661 ppm	6.4365 ppm	0.1186 ppm
Concentration per Run 2	25.5572 ppm	2.2103 ppm	0.0043 ppm	0.5293 ppm	0.1616 ppm	6.3909 ppm	0.1125 ppm
Concentration per Run 3	25.1474 ppm	2.1993 ppm	0.0054 ppm	0.5222 ppm	0.1596 ppm	6.3654 ppm	0.1123 ppm
Concentration RSD	1.8 %	0.3 %	11.5 %	1.6 %	2.0 %	0.6 %	3.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	12.4650 ppm	6.4963 ppm	0.2159 ppm	1.4607 ppm	0.0018 ppm	0.2029 ppm
Concentration per Run 1	-0.0014 ppm	13.1903 ppm	6.5888 ppm	0.2162 ppm	1.4917 ppm	0.0020 ppm	0.2073 ppm
Concentration per Run 2	0.0058 ppm	12.3125 ppm	6.4775 ppm	0.2145 ppm	1.4658 ppm	0.0011 ppm	0.2026 ppm
Concentration per Run 3	0.0036 ppm	11.8922 ppm	6.4225 ppm	0.2171 ppm	1.4245 ppm	0.0022 ppm	0.1987 ppm
Concentration RSD	140.2 %	5.3 %	1.3 %	0.6 %	2.3 %	33.7 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.9067 ppm	112.6447 %	115.7429 %	102.3112 %	114.0688 %	122.5806 %	117.2843 %
Concentration per Run 1	8.0776 ppm	110.3968 %	115.7034 %	102.0218 %	112.8722 %	122.9634 %	117.4776 %
Concentration per Run 2	7.8915 ppm	113.0213 %	115.8295 %	102.2109 %	114.2501 %	122.7648 %	117.2364 %
Concentration per Run 3	7.7509 ppm	114.5159 %	115.6959 %	102.7009 %	115.0840 %	122.0136 %	117.1390 %
Concentration RSD	2.1 %	1.9 %	0.1 %	0.3 %	1.0 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: eL2433744-03d2 WG1934738
Analysis started at: 6/15/2024 5:31:26 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0053 ppm	54.0177 ppm	0.1147 ppm	0.0347 ppm	0.8773 ppm	0.0031 ppm	34.7103 ppm
Concentration per Run 1	0.0054 ppm	52.0774 ppm	0.1134 ppm	0.0357 ppm	0.8511 ppm	0.0030 ppm	33.4676 ppm
Concentration per Run 2	0.0051 ppm	54.2017 ppm	0.1141 ppm	0.0354 ppm	0.8821 ppm	0.0032 ppm	34.8509 ppm
Concentration per Run 3	0.0055 ppm	55.7741 ppm	0.1166 ppm	0.0328 ppm	0.8989 ppm	0.0032 ppm	35.8124 ppm
Concentration RSD	4.1 %	3.4 %	1.5 %	4.7 %	2.8 %	4.1 %	3.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0264 ppm	0.0769 ppm	0.1594 ppm	3.7444 ppm	497.9109 ppm	14.1542 ppm	0.1089 ppm
Concentration per Run 1	0.0270 ppm	0.0785 ppm	0.1612 ppm	3.7838 ppm	481.9229 ppm	13.7521 ppm	0.1081 ppm
Concentration per Run 2	0.0261 ppm	0.0761 ppm	0.1596 ppm	3.7419 ppm	501.7231 ppm	14.1716 ppm	0.1066 ppm
Concentration per Run 3	0.0262 ppm	0.0763 ppm	0.1575 ppm	3.7074 ppm	510.0867 ppm	14.5390 ppm	0.1121 ppm
Concentration RSD	1.8 %	1.7 %	1.2 %	1.0 %	2.9 %	2.8 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.6235 ppm	3.1103 ppm	0.0031 ppm	0.6443 ppm	0.1807 ppm	26.6792 ppm	0.1081 ppm
Concentration per Run 1	18.7627 ppm	2.9943 ppm	0.0025 ppm	0.6177 ppm	0.1829 ppm	26.7508 ppm	0.1084 ppm
Concentration per Run 2	18.6387 ppm	3.1281 ppm	0.0035 ppm	0.6470 ppm	0.1804 ppm	26.6972 ppm	0.1083 ppm
Concentration per Run 3	18.4691 ppm	3.2087 ppm	0.0033 ppm	0.6682 ppm	0.1788 ppm	26.5898 ppm	0.1075 ppm
Concentration RSD	0.8 %	3.5 %	16.1 %	3.9 %	1.2 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0073 ppm	6.2066 ppm	32.0228 ppm	0.2934 ppm	1.2663 ppm	0.0024 ppm	0.1824 ppm
Concentration per Run 1	0.0080 ppm	6.3061 ppm	32.3133 ppm	0.2852 ppm	1.2825 ppm	0.0016 ppm	0.1835 ppm
Concentration per Run 2	0.0067 ppm	6.2046 ppm	32.0557 ppm	0.2968 ppm	1.2609 ppm	0.0023 ppm	0.1827 ppm
Concentration per Run 3	0.0071 ppm	6.1091 ppm	31.6993 ppm	0.2982 ppm	1.2554 ppm	0.0032 ppm	0.1809 ppm
Concentration RSD	8.9 %	1.6 %	1.0 %	2.4 %	1.1 %	33.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	13.4983 ppm	114.4213 %	119.1904 %	99.8812 %	114.5285 %	125.9835 %	118.1585 %
Concentration per Run 1	13.7082 ppm	112.7229 %	122.9703 %	99.5015 %	113.5323 %	130.2480 %	117.6387 %
Concentration per Run 2	13.5159 ppm	114.5908 %	118.1360 %	100.5150 %	114.6399 %	123.1465 %	118.8568 %
Concentration per Run 3	13.2707 ppm	115.9503 %	116.4650 %	99.6272 %	115.4134 %	124.5561 %	117.9800 %
Concentration RSD	1.6 %	1.4 %	2.8 %	0.6 %	0.8 %	3.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-04d2 WG1934738
Analysis started at: 6/15/2024 5:35:24 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	110.6883 ppm	0.0404 ppm	0.0328 ppm	0.2777 ppm	0.0029 ppm	6.3474 ppm
Concentration per Run 1	0.0006 ppm	111.0938 ppm	0.0384 ppm	0.0345 ppm	0.2791 ppm	0.0030 ppm	6.3705 ppm
Concentration per Run 2	0.0006 ppm	110.9839 ppm	0.0435 ppm	0.0328 ppm	0.2770 ppm	0.0029 ppm	6.3603 ppm
Concentration per Run 3	0.0006 ppm	109.9872 ppm	0.0392 ppm	0.0310 ppm	0.2769 ppm	0.0028 ppm	6.3114 ppm
Concentration RSD	3.2 %	0.6 %	6.7 %	5.3 %	0.4 %	2.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0643 ppm	0.2478 ppm	0.2926 ppm	200.8878 ppm	7.5036 ppm	0.1905 ppm
Concentration per Run 1	0.0033 ppm	0.0648 ppm	0.2506 ppm	0.2954 ppm	201.5282 ppm	7.5328 ppm	0.1937 ppm
Concentration per Run 2	0.0033 ppm	0.0645 ppm	0.2465 ppm	0.2926 ppm	200.5811 ppm	7.5589 ppm	0.1896 ppm
Concentration per Run 3	0.0031 ppm	0.0636 ppm	0.2462 ppm	0.2898 ppm	200.5540 ppm	7.4192 ppm	0.1882 ppm
Concentration RSD	4.2 %	0.9 %	1.0 %	1.0 %	0.3 %	1.0 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.0915 ppm	2.4261 ppm	0.0004 ppm	1.2884 ppm	0.1402 ppm	0.2558 ppm	0.0057 ppm
Concentration per Run 1	38.5669 ppm	2.4308 ppm	0.0009 ppm	1.2846 ppm	0.1425 ppm	0.2564 ppm	0.0056 ppm
Concentration per Run 2	38.0137 ppm	2.4321 ppm	0.0002 ppm	1.2973 ppm	0.1393 ppm	0.2565 ppm	0.0035 ppm
Concentration per Run 3	37.6938 ppm	2.4153 ppm	0.0001 ppm	1.2832 ppm	0.1388 ppm	0.2547 ppm	0.0081 ppm
Concentration RSD	1.2 %	0.4 %	113.2 %	0.6 %	1.4 %	0.4 %	40.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	16.2292 ppm	0.0664 ppm	0.0679 ppm	1.5224 ppm	0.0032 ppm	0.1719 ppm
Concentration per Run 1	-0.0031 ppm	17.0197 ppm	0.0708 ppm	0.0679 ppm	1.5584 ppm	0.0049 ppm	0.1745 ppm
Concentration per Run 2	-0.0033 ppm	16.0999 ppm	0.0644 ppm	0.0679 ppm	1.5202 ppm	0.0017 ppm	0.1711 ppm
Concentration per Run 3	-0.0020 ppm	15.5681 ppm	0.0641 ppm	0.0679 ppm	1.4885 ppm	0.0030 ppm	0.1702 ppm
Concentration RSD	24.9 %	4.5 %	5.7 %	0.1 %	2.3 %	50.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6256 ppm	112.9267 %	117.4171 %	101.7325 %	114.2805 %	124.5346 %	115.8291 %
Concentration per Run 1	2.6668 ppm	112.0112 %	116.6917 %	101.8079 %	114.3771 %	123.9850 %	116.3846 %
Concentration per Run 2	2.6107 ppm	112.8470 %	117.8943 %	101.2473 %	114.5514 %	125.1203 %	114.8587 %
Concentration per Run 3	2.5993 ppm	113.9218 %	117.6653 %	102.1424 %	113.9130 %	124.4985 %	116.2440 %
Concentration RSD	1.4 %	0.8 %	0.5 %	0.4 %	0.3 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-05d2 WG1934738
Analysis started at: 6/15/2024 5:39:23 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	116.7787 ppm	0.0295 ppm	0.0306 ppm	0.3215 ppm	0.0035 ppm	7.0533 ppm
Concentration per Run 1	0.0003 ppm	116.9965 ppm	0.0279 ppm	0.0324 ppm	0.3219 ppm	0.0035 ppm	7.0800 ppm
Concentration per Run 2	0.0009 ppm	116.8618 ppm	0.0304 ppm	0.0297 ppm	0.3218 ppm	0.0035 ppm	7.0496 ppm
Concentration per Run 3	0.0009 ppm	116.4779 ppm	0.0303 ppm	0.0296 ppm	0.3210 ppm	0.0035 ppm	7.0303 ppm
Concentration RSD	47.3 %	0.2 %	4.7 %	5.1 %	0.1 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.1556 ppm	0.1387 ppm	0.1603 ppm	183.3000 ppm	13.9584 ppm	0.1857 ppm
Concentration per Run 1	0.0014 ppm	0.1573 ppm	0.1405 ppm	0.1624 ppm	183.8736 ppm	14.0364 ppm	0.1852 ppm
Concentration per Run 2	0.0010 ppm	0.1554 ppm	0.1386 ppm	0.1594 ppm	182.9694 ppm	13.9229 ppm	0.1872 ppm
Concentration per Run 3	0.0014 ppm	0.1541 ppm	0.1371 ppm	0.1590 ppm	183.0571 ppm	13.9157 ppm	0.1846 ppm
Concentration RSD	17.4 %	1.1 %	1.2 %	1.1 %	0.3 %	0.5 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.8681 ppm	9.4673 ppm	-0.0004 ppm	1.3571 ppm	0.1588 ppm	0.1116 ppm	0.0027 ppm
Concentration per Run 1	40.4395 ppm	9.4814 ppm	-0.0009 ppm	1.3603 ppm	0.1615 ppm	0.1127 ppm	0.0043 ppm
Concentration per Run 2	39.6904 ppm	9.4728 ppm	-0.0005 ppm	1.3590 ppm	0.1592 ppm	0.1128 ppm	0.0020 ppm
Concentration per Run 3	39.4746 ppm	9.4476 ppm	0.0002 ppm	1.3519 ppm	0.1557 ppm	0.1092 ppm	0.0017 ppm
Concentration RSD	1.3 %	0.2 %	143.5 %	0.3 %	1.8 %	1.8 %	52.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	19.0715 ppm	0.0103 ppm	0.0824 ppm	1.8625 ppm	0.0006 ppm	0.1665 ppm
Concentration per Run 1	0.0005 ppm	19.9174 ppm	0.0095 ppm	0.0830 ppm	1.9062 ppm	0.0004 ppm	0.1684 ppm
Concentration per Run 2	-0.0004 ppm	19.1216 ppm	0.0103 ppm	0.0818 ppm	1.8780 ppm	0.0010 ppm	0.1669 ppm
Concentration per Run 3	-0.0021 ppm	18.1757 ppm	0.0111 ppm	0.0825 ppm	1.8034 ppm	0.0004 ppm	0.1643 ppm
Concentration RSD	202.3 %	4.6 %	8.0 %	0.7 %	2.9 %	57.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4436 ppm	113.5103 %	117.9149 %	102.4882 %	113.8506 %	123.4223 %	116.2406 %
Concentration per Run 1	0.4494 ppm	111.4033 %	118.5649 %	102.8461 %	112.4834 %	124.7686 %	117.1288 %
Concentration per Run 2	0.4428 ppm	114.7156 %	116.6496 %	102.0023 %	115.2465 %	122.0659 %	115.4000 %
Concentration per Run 3	0.4385 ppm	114.4121 %	118.5302 %	102.6161 %	113.8218 %	123.4326 %	116.1929 %
Concentration RSD	1.2 %	1.6 %	0.9 %	0.4 %	1.2 %	1.1 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 5:43:22 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5059 ppm	0.5042 ppm	0.4729 ppm	0.4938 ppm	0.5009 ppm	0.5065 ppm	0.5003 ppm
Concentration per Run 1	0.5071 ppm	0.5102 ppm	0.4711 ppm	0.4909 ppm	0.5036 ppm	0.5091 ppm	0.5016 ppm
Concentration per Run 2	0.5075 ppm	0.5035 ppm	0.4695 ppm	0.4995 ppm	0.4988 ppm	0.5057 ppm	0.5003 ppm
Concentration per Run 3	0.5031 ppm	0.4989 ppm	0.4780 ppm	0.4912 ppm	0.5005 ppm	0.5047 ppm	0.4991 ppm
Recovery Percentage 1	101.183 %	100.846 %	94.571 %	98.767 %	100.189 %	101.297 %	100.069 %
Concentration RSD	0.5 %	1.1 %	1.0 %	1.0 %	0.5 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5025 ppm	0.5104 ppm	0.4943 ppm	0.4972 ppm	0.5323 ppm	5.1899 ppm	0.4960 ppm
Concentration per Run 1	0.5057 ppm	0.5126 ppm	0.4973 ppm	0.5013 ppm	0.5384 ppm	5.2523 ppm	0.5044 ppm
Concentration per Run 2	0.5037 ppm	0.5130 ppm	0.4949 ppm	0.4982 ppm	0.5323 ppm	5.1953 ppm	0.4928 ppm
Concentration per Run 3	0.4980 ppm	0.5055 ppm	0.4908 ppm	0.4921 ppm	0.5263 ppm	5.1221 ppm	0.4907 ppm
Recovery Percentage 1	100.492 %	102.070 %	98.866 %	99.442 %	106.467 %	103.798 %	99.192 %
Concentration RSD	0.8 %	0.8 %	0.7 %	0.9 %	1.1 %	1.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5038 ppm	0.4938 ppm	0.4965 ppm	10.1666 ppm	0.5083 ppm	0.4917 ppm	0.4850 ppm
Concentration per Run 1	0.5078 ppm	0.4955 ppm	0.4935 ppm	10.2231 ppm	0.5096 ppm	0.4903 ppm	0.4891 ppm
Concentration per Run 2	0.5051 ppm	0.4941 ppm	0.4979 ppm	10.1127 ppm	0.5108 ppm	0.4905 ppm	0.4859 ppm
Concentration per Run 3	0.4984 ppm	0.4920 ppm	0.4981 ppm	10.1639 ppm	0.5044 ppm	0.4942 ppm	0.4801 ppm
Recovery Percentage 1	100.751 %	98.768 %	99.309 %	101.666 %	101.660 %	98.337 %	97.005 %
Concentration RSD	1.0 %	0.4 %	0.5 %	0.5 %	0.7 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4795 ppm	5.2224 ppm	0.5182 ppm	0.5075 ppm	0.5042 ppm	0.4987 ppm	0.4945 ppm
Concentration per Run 1	0.4764 ppm	5.2491 ppm	0.5172 ppm	0.5102 ppm	0.5070 ppm	0.4958 ppm	0.4981 ppm
Concentration per Run 2	0.4756 ppm	5.2381 ppm	0.5183 ppm	0.5057 ppm	0.5045 ppm	0.4953 ppm	0.4949 ppm
Concentration per Run 3	0.4866 ppm	5.1801 ppm	0.5192 ppm	0.5066 ppm	0.5009 ppm	0.5049 ppm	0.4906 ppm
Recovery Percentage 1	95.903 %	99.475 %	103.642 %	101.507 %	100.834 %	99.733 %	98.906 %
Concentration RSD	1.3 %	0.7 %	0.2 %	0.5 %	0.6 %	1.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5031 ppm	110.9752 %	111.4277 %	108.7280 %	98.0908 %	102.1867 %	99.6269 %
Concentration per Run 1	0.5079 ppm	109.6357 %	111.2208 %	108.6193 %	97.8737 %	102.4063 %	100.0253 %
Concentration per Run 2	0.5026 ppm	110.7971 %	111.2934 %	109.3999 %	98.1311 %	101.9670 %	100.1723 %
Concentration per Run 3	0.4988 ppm	112.4929 %	111.7688 %	108.1650 %	98.2676 %	102.1869 %	98.6829 %
Recovery Percentage 1	100.616 %						
Concentration RSD	0.9 %	1.3 %	0.3 %	0.6 %	0.2 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 5:47:20 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0038 ppm	-0.0003 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	-0.0003 ppm	-0.0005 ppm	-0.0014 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 2	0.0002 ppm	0.0118 ppm	0.0000 ppm	-0.0012 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	-0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	-3.080 %	3.758 %	-9.522 %	-2.865 %	0.102 %	0.153 %	-1.515 %
Concentration RSD	155.6 %	185.3 %	355.4 %	98.7 %	1,188.4 %	790.8 %	68.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0055 ppm	-0.0277 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0072 ppm	-0.0236 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0054 ppm	-0.0437 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0041 ppm	-0.0159 ppm	0.0003 ppm
Recovery Percentage 1	1.155 %	0.500 %	-2.825 %	3.663 %	11.088 %	-1.109 %	6.731 %
Concentration RSD	97.5 %	210.6 %	79.5 %	49.1 %	28.0 %	51.9 %	132.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	-0.0006 ppm	-0.0595 ppm	-0.0003 ppm	-0.0002 ppm	-0.0011 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	-0.0003 ppm	-0.0655 ppm	-0.0014 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	0.0000 ppm	-0.0007 ppm	-0.0539 ppm	0.0005 ppm	-0.0007 ppm	-0.0011 ppm
Concentration per Run 3	0.0036 ppm	0.0004 ppm	-0.0008 ppm	-0.0591 ppm	0.0000 ppm	-0.0001 ppm	-0.0023 ppm
Recovery Percentage 1	1.183 %	1.394 %	-1.153 %	-2.975 %	-1.152 %	-1.989 %	-2.252 %
Concentration RSD	182.2 %	148.0 %	48.1 %	9.7 %	344.6 %	215.8 %	100.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0271 ppm	0.0011 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0034 ppm	0.0416 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0253 ppm	0.0004 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0027 ppm	0.0143 ppm	0.0019 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0003 ppm
Recovery Percentage 1	1.558 %	5.416 %	2.133 %	0.049 %	-2.201 %	-0.015 %	0.785 %
Concentration RSD	1,979.1 %	50.7 %	71.7 %	834.2 %	78.2 %	14,284.2 %	326.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	102.6617 %	104.5661 %	102.8806 %	99.8989 %	102.8591 %	100.7163 %
Concentration per Run 1	0.0006 ppm	101.2250 %	103.4851 %	102.1810 %	99.3190 %	102.5236 %	101.1302 %
Concentration per Run 2	0.0004 ppm	103.2917 %	104.5637 %	102.9946 %	100.4448 %	102.9313 %	100.8005 %
Concentration per Run 3	0.0006 ppm	103.4682 %	105.6494 %	103.4663 %	99.9327 %	103.1225 %	100.2181 %
Recovery Percentage 1	10.294 %						
Concentration RSD	28.7 %	1.2 %	1.0 %	0.6 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934483-1 WG1934483
Analysis started at: 6/15/2024 6:00:52 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0184 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0347 ppm
Concentration per Run 1	0.0002 ppm	0.0160 ppm	-0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0338 ppm
Concentration per Run 2	-0.0001 ppm	0.0200 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0362 ppm
Concentration per Run 3	0.0007 ppm	0.0191 ppm	-0.0006 ppm	-0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0341 ppm
Recovery Percentage 1	4.046 %	18.375 %	-20.586 %	-1.469 %	0.458 %	0.039 %	34.719 %
Concentration RSD	144.3 %	11.5 %	10.4 %	236.4 %	273.8 %	1,009.6 %	3.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0132 ppm	0.0065 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0126 ppm	0.0132 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0135 ppm	0.0080 ppm	0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0135 ppm	-0.0016 ppm	0.0002 ppm
Recovery Percentage 1	-0.902 %	0.332 %	-0.375 %	4.714 %	26.443 %	0.262 %	8.656 %
Concentration RSD	159.2 %	448.0 %	291.9 %	38.3 %	3.8 %	114.8 %	75.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0039 ppm	0.0003 ppm	-0.0016 ppm	130.1098 ppm	-0.0011 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0031 ppm	0.0004 ppm	-0.0018 ppm	129.9607 ppm	-0.0015 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.0045 ppm	0.0004 ppm	-0.0015 ppm	130.0586 ppm	-0.0007 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 3	0.0042 ppm	0.0002 ppm	-0.0015 ppm	130.3101 ppm	-0.0010 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	3.929 %	3.257 %	-3.198 %	6,505.490 %	-4.335 %	-0.169 %	0.367 %
Concentration RSD	18.9 %	33.7 %	8.4 %	0.1 %	37.4 %	1,922.1 %	627.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0196 ppm	0.0051 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	-0.0010 ppm	0.0215 ppm	0.0044 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0010 ppm	0.0154 ppm	0.0055 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 3	0.0009 ppm	0.0219 ppm	0.0053 ppm	0.0001 ppm	-0.0002 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-3.915 %	3.917 %	10.121 %	0.622 %	-0.988 %	-2.560 %	-0.797 %
Concentration RSD	276.9 %	18.7 %	11.5 %	57.5 %	128.0 %	113.2 %	199.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	109.2579 %	109.3987 %	102.1126 %	92.4398 %	98.3335 %	93.9418 %
Concentration per Run 1	0.0007 ppm	108.5727 %	108.8866 %	102.0917 %	92.2722 %	97.8673 %	93.8826 %
Concentration per Run 2	0.0009 ppm	109.5712 %	109.7913 %	101.8918 %	92.5867 %	98.4085 %	93.7412 %
Concentration per Run 3	0.0009 ppm	109.6298 %	109.5181 %	102.3544 %	92.4605 %	98.7247 %	94.2014 %
Recovery Percentage 1	16.499 %						
Concentration RSD	14.8 %	0.5 %	0.4 %	0.2 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934483-2 WG1934483
Analysis started at: 6/15/2024 6:04:56 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0443 ppm	1.7868 ppm	0.1061 ppm	0.8588 ppm	1.7887 ppm	0.0450 ppm	9.1797 ppm
Concentration per Run 1	0.0446 ppm	1.8010 ppm	0.1074 ppm	0.8623 ppm	1.7992 ppm	0.0452 ppm	9.2051 ppm
Concentration per Run 2	0.0444 ppm	1.7831 ppm	0.1069 ppm	0.8643 ppm	1.7941 ppm	0.0450 ppm	9.1610 ppm
Concentration per Run 3	0.0439 ppm	1.7763 ppm	0.1040 ppm	0.8500 ppm	1.7728 ppm	0.0447 ppm	9.1730 ppm
Concentration RSD	0.7 %	0.7 %	1.7 %	0.9 %	0.8 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0470 ppm	0.4346 ppm	0.1732 ppm	0.2206 ppm	0.9310 ppm	9.4740 ppm	-0.0006 ppm
Concentration per Run 1	0.0472 ppm	0.4367 ppm	0.1741 ppm	0.2223 ppm	0.9373 ppm	9.5717 ppm	-0.0004 ppm
Concentration per Run 2	0.0472 ppm	0.4357 ppm	0.1731 ppm	0.2203 ppm	0.9321 ppm	9.4668 ppm	0.0000 ppm
Concentration per Run 3	0.0465 ppm	0.4313 ppm	0.1725 ppm	0.2192 ppm	0.9235 ppm	9.3834 ppm	-0.0014 ppm
Concentration RSD	0.8 %	0.7 %	0.5 %	0.7 %	0.7 %	1.0 %	120.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.8586 ppm	0.4496 ppm	0.9315 ppm	9.4139 ppm	0.4363 ppm	0.4859 ppm	0.4276 ppm
Concentration per Run 1	8.9394 ppm	0.4516 ppm	0.9256 ppm	9.4089 ppm	0.4377 ppm	0.4873 ppm	0.4288 ppm
Concentration per Run 2	8.8596 ppm	0.4483 ppm	0.9340 ppm	9.4207 ppm	0.4369 ppm	0.4868 ppm	0.4275 ppm
Concentration per Run 3	8.7769 ppm	0.4489 ppm	0.9348 ppm	9.4123 ppm	0.4342 ppm	0.4835 ppm	0.4266 ppm
Concentration RSD	0.9 %	0.4 %	0.5 %	0.1 %	0.4 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1052 ppm	0.9045 ppm	0.9091 ppm	0.9027 ppm	0.8999 ppm	0.1106 ppm	0.4412 ppm
Concentration per Run 1	0.1082 ppm	0.9148 ppm	0.9078 ppm	0.9076 ppm	0.9061 ppm	0.1113 ppm	0.4442 ppm
Concentration per Run 2	0.1040 ppm	0.9111 ppm	0.9115 ppm	0.9058 ppm	0.9005 ppm	0.1100 ppm	0.4421 ppm
Concentration per Run 3	0.1033 ppm	0.8877 ppm	0.9080 ppm	0.8948 ppm	0.8933 ppm	0.1106 ppm	0.4375 ppm
Concentration RSD	2.5 %	1.6 %	0.2 %	0.8 %	0.7 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4342 ppm	110.9736 %	109.4822 %	103.8976 %	94.9734 %	99.1979 %	95.7660 %
Concentration per Run 1	0.4368 ppm	110.0589 %	108.0247 %	103.4461 %	94.7807 %	97.5303 %	95.4966 %
Concentration per Run 2	0.4341 ppm	110.5388 %	109.9634 %	103.9839 %	94.4674 %	99.6312 %	95.8921 %
Concentration per Run 3	0.4316 ppm	112.3230 %	110.4584 %	104.2629 %	95.6721 %	100.4322 %	95.9093 %
Concentration RSD	0.6 %	1.1 %	1.2 %	0.4 %	0.7 %	1.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-06d2 WG1934738
Analysis started at: 6/15/2024 6:08:54 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	57.8346 ppm	0.0855 ppm	0.0234 ppm	1.2722 ppm	0.0037 ppm	54.4988 ppm
Concentration per Run 1	0.0026 ppm	57.9011 ppm	0.0865 ppm	0.0228 ppm	1.2734 ppm	0.0038 ppm	54.6137 ppm
Concentration per Run 2	0.0027 ppm	58.2303 ppm	0.0862 ppm	0.0247 ppm	1.2744 ppm	0.0037 ppm	54.5558 ppm
Concentration per Run 3	0.0023 ppm	57.3725 ppm	0.0839 ppm	0.0227 ppm	1.2687 ppm	0.0037 ppm	54.3267 ppm
Concentration RSD	7.8 %	0.7 %	1.7 %	4.9 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0114 ppm	0.0606 ppm	0.1636 ppm	0.8550 ppm	223.2787 ppm	6.8348 ppm	0.0962 ppm
Concentration per Run 1	0.0115 ppm	0.0616 ppm	0.1662 ppm	0.8682 ppm	223.7576 ppm	6.8487 ppm	0.0985 ppm
Concentration per Run 2	0.0114 ppm	0.0602 ppm	0.1637 ppm	0.8549 ppm	223.7845 ppm	6.9204 ppm	0.0965 ppm
Concentration per Run 3	0.0113 ppm	0.0600 ppm	0.1609 ppm	0.8420 ppm	222.2940 ppm	6.7354 ppm	0.0936 ppm
Concentration RSD	0.8 %	1.4 %	1.6 %	1.5 %	0.4 %	1.4 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.1501 ppm	2.2884 ppm	0.0052 ppm	0.8096 ppm	0.2249 ppm	4.6183 ppm	0.0195 ppm
Concentration per Run 1	17.4982 ppm	2.2904 ppm	0.0053 ppm	0.8187 ppm	0.2300 ppm	4.6383 ppm	0.0188 ppm
Concentration per Run 2	17.0357 ppm	2.2980 ppm	0.0051 ppm	0.8097 ppm	0.2228 ppm	4.6180 ppm	0.0199 ppm
Concentration per Run 3	16.9165 ppm	2.2768 ppm	0.0052 ppm	0.8006 ppm	0.2219 ppm	4.5985 ppm	0.0196 ppm
Concentration RSD	1.8 %	0.5 %	2.1 %	1.1 %	2.0 %	0.4 %	2.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	12.7256 ppm	0.8302 ppm	0.2142 ppm	2.1579 ppm	0.0018 ppm	0.4566 ppm
Concentration per Run 1	0.0023 ppm	13.0416 ppm	0.8382 ppm	0.2148 ppm	2.2107 ppm	0.0015 ppm	0.4647 ppm
Concentration per Run 2	0.0022 ppm	12.7346 ppm	0.8256 ppm	0.2138 ppm	2.1371 ppm	0.0024 ppm	0.4540 ppm
Concentration per Run 3	-0.0005 ppm	12.4007 ppm	0.8266 ppm	0.2140 ppm	2.1259 ppm	0.0015 ppm	0.4510 ppm
Concentration RSD	122.1 %	2.5 %	0.8 %	0.2 %	2.1 %	30.1 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.4076 ppm	110.1016 %	114.9566 %	101.1417 %	107.6089 %	117.1761 %	111.9166 %
Concentration per Run 1	4.4913 ppm	108.0766 %	114.8983 %	100.8948 %	106.6172 %	117.5800 %	111.9420 %
Concentration per Run 2	4.3683 ppm	110.4658 %	114.1695 %	101.0551 %	107.6547 %	115.9719 %	112.0594 %
Concentration per Run 3	4.3633 ppm	111.7624 %	115.8020 %	101.4751 %	108.5549 %	117.9763 %	111.7483 %
Concentration RSD	1.6 %	1.7 %	0.7 %	0.3 %	0.9 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-07d2 WG1934738
Analysis started at: 6/15/2024 6:12:54 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	98.1502 ppm	0.1085 ppm	0.0248 ppm	1.4812 ppm	0.0054 ppm	10.0236 ppm
Concentration per Run 1	0.0020 ppm	97.7494 ppm	0.1089 ppm	0.0258 ppm	1.4740 ppm	0.0055 ppm	10.0349 ppm
Concentration per Run 2	0.0016 ppm	98.5385 ppm	0.1075 ppm	0.0249 ppm	1.4863 ppm	0.0053 ppm	10.0229 ppm
Concentration per Run 3	0.0009 ppm	98.1626 ppm	0.1090 ppm	0.0238 ppm	1.4831 ppm	0.0054 ppm	10.0129 ppm
Concentration RSD	35.0 %	0.4 %	0.8 %	4.0 %	0.4 %	1.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0044 ppm	0.4220 ppm	0.1637 ppm	0.3247 ppm	344.7935 ppm	8.5529 ppm	0.1222 ppm
Concentration per Run 1	0.0045 ppm	0.4294 ppm	0.1663 ppm	0.3298 ppm	346.4620 ppm	8.5935 ppm	0.1204 ppm
Concentration per Run 2	0.0044 ppm	0.4202 ppm	0.1635 ppm	0.3233 ppm	344.7323 ppm	8.5359 ppm	0.1242 ppm
Concentration per Run 3	0.0044 ppm	0.4163 ppm	0.1614 ppm	0.3210 ppm	343.1863 ppm	8.5293 ppm	0.1219 ppm
Concentration RSD	1.5 %	1.6 %	1.5 %	1.4 %	0.5 %	0.4 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.8564 ppm	42.1547 ppm	0.0094 ppm	1.0583 ppm	0.1551 ppm	0.0883 ppm	0.0067 ppm
Concentration per Run 1	26.2319 ppm	42.0614 ppm	0.0090 ppm	1.0537 ppm	0.1563 ppm	0.0877 ppm	0.0059 ppm
Concentration per Run 2	25.7345 ppm	42.2897 ppm	0.0102 ppm	1.0608 ppm	0.1553 ppm	0.0891 ppm	0.0064 ppm
Concentration per Run 3	25.6029 ppm	42.1129 ppm	0.0090 ppm	1.0603 ppm	0.1538 ppm	0.0880 ppm	0.0078 ppm
Concentration RSD	1.3 %	0.3 %	7.0 %	0.4 %	0.8 %	0.8 %	14.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	11.0269 ppm	0.0042 ppm	0.1305 ppm	1.6929 ppm	-0.0007 ppm	0.2040 ppm
Concentration per Run 1	0.0021 ppm	11.1851 ppm	0.0051 ppm	0.1319 ppm	1.7205 ppm	-0.0009 ppm	0.2072 ppm
Concentration per Run 2	-0.0036 ppm	11.1521 ppm	0.0040 ppm	0.1309 ppm	1.6910 ppm	0.0024 ppm	0.2033 ppm
Concentration per Run 3	-0.0039 ppm	10.7434 ppm	0.0036 ppm	0.1288 ppm	1.6671 ppm	-0.0035 ppm	0.2015 ppm
Concentration RSD	187.3 %	2.2 %	18.1 %	1.2 %	1.6 %	453.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4021 ppm	116.0677 %	119.8066 %	102.4879 %	126.7522 %	137.4652 %	130.1399 %
Concentration per Run 1	0.4081 ppm	113.5663 %	119.9849 %	102.2897 %	125.6579 %	137.8528 %	130.6585 %
Concentration per Run 2	0.4011 ppm	117.1700 %	119.2905 %	102.7320 %	127.3120 %	136.5915 %	130.1382 %
Concentration per Run 3	0.3970 ppm	117.4668 %	120.1443 %	102.4418 %	127.2866 %	137.9514 %	129.6231 %
Concentration RSD	1.4 %	1.9 %	0.4 %	0.2 %	0.7 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-08d2 WG1934738
Analysis started at: 6/15/2024 6:16:53 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	78.9770 ppm	0.0608 ppm	0.0247 ppm	0.3763 ppm	0.0036 ppm	16.0479 ppm
Concentration per Run 1	0.0003 ppm	79.3355 ppm	0.0613 ppm	0.0259 ppm	0.3784 ppm	0.0036 ppm	16.1249 ppm
Concentration per Run 2	0.0009 ppm	78.7409 ppm	0.0611 ppm	0.0242 ppm	0.3756 ppm	0.0035 ppm	15.9943 ppm
Concentration per Run 3	0.0006 ppm	78.8545 ppm	0.0598 ppm	0.0240 ppm	0.3749 ppm	0.0036 ppm	16.0243 ppm
Concentration RSD	50.6 %	0.4 %	1.3 %	4.2 %	0.5 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0826 ppm	0.1271 ppm	0.4148 ppm	188.7657 ppm	7.5774 ppm	0.1552 ppm
Concentration per Run 1	0.0029 ppm	0.0840 ppm	0.1295 ppm	0.4225 ppm	189.2467 ppm	7.6484 ppm	0.1565 ppm
Concentration per Run 2	0.0032 ppm	0.0822 ppm	0.1261 ppm	0.4125 ppm	188.5889 ppm	7.5566 ppm	0.1542 ppm
Concentration per Run 3	0.0028 ppm	0.0817 ppm	0.1258 ppm	0.4093 ppm	188.4615 ppm	7.5271 ppm	0.1549 ppm
Concentration RSD	6.5 %	1.5 %	1.6 %	1.7 %	0.2 %	0.8 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.9407 ppm	3.1476 ppm	0.0022 ppm	0.8191 ppm	0.1261 ppm	1.5220 ppm	0.0126 ppm
Concentration per Run 1	26.2687 ppm	3.1554 ppm	0.0016 ppm	0.8175 ppm	0.1282 ppm	1.5248 ppm	0.0150 ppm
Concentration per Run 2	25.8828 ppm	3.1406 ppm	0.0024 ppm	0.8275 ppm	0.1256 ppm	1.5199 ppm	0.0129 ppm
Concentration per Run 3	25.6707 ppm	3.1467 ppm	0.0024 ppm	0.8122 ppm	0.1247 ppm	1.5213 ppm	0.0097 ppm
Concentration RSD	1.2 %	0.2 %	21.4 %	0.9 %	1.4 %	0.2 %	21.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	12.2292 ppm	1.2942 ppm	0.1333 ppm	1.4708 ppm	0.0011 ppm	0.1846 ppm
Concentration per Run 1	-0.0023 ppm	12.6712 ppm	1.3103 ppm	0.1333 ppm	1.4912 ppm	-0.0010 ppm	0.1875 ppm
Concentration per Run 2	-0.0019 ppm	12.1204 ppm	1.2762 ppm	0.1335 ppm	1.4715 ppm	0.0022 ppm	0.1840 ppm
Concentration per Run 3	-0.0007 ppm	11.8960 ppm	1.2960 ppm	0.1330 ppm	1.4497 ppm	0.0023 ppm	0.1824 ppm
Concentration RSD	49.1 %	3.3 %	1.3 %	0.2 %	1.4 %	166.7 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2947 ppm	113.1334 %	117.3225 %	103.0769 %	114.9430 %	123.7544 %	116.7711 %
Concentration per Run 1	1.3170 ppm	111.0829 %	117.1577 %	102.4799 %	113.7494 %	124.2029 %	116.8334 %
Concentration per Run 2	1.2855 ppm	113.9546 %	118.0668 %	103.3202 %	115.9906 %	124.3240 %	116.6261 %
Concentration per Run 3	1.2817 ppm	114.3628 %	116.7429 %	103.4306 %	115.0891 %	122.7362 %	116.8537 %
Concentration RSD	1.5 %	1.6 %	0.6 %	0.5 %	1.0 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433744-09d2 WG1934738
Analysis started at: 6/15/2024 6:20:52 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	60.4860 ppm	0.0462 ppm	0.0179 ppm	0.3037 ppm	0.0031 ppm	6.9439 ppm
Concentration per Run 1	0.0006 ppm	60.5162 ppm	0.0491 ppm	0.0203 ppm	0.3042 ppm	0.0031 ppm	6.9682 ppm
Concentration per Run 2	0.0003 ppm	60.5359 ppm	0.0445 ppm	0.0173 ppm	0.3029 ppm	0.0031 ppm	6.9234 ppm
Concentration per Run 3	0.0000 ppm	60.4060 ppm	0.0451 ppm	0.0160 ppm	0.3040 ppm	0.0031 ppm	6.9401 ppm
Concentration RSD	91.3 %	0.1 %	5.4 %	12.3 %	0.2 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0617 ppm	0.0993 ppm	0.1380 ppm	144.9627 ppm	6.1361 ppm	0.1071 ppm
Concentration per Run 1	0.0023 ppm	0.0626 ppm	0.1014 ppm	0.1402 ppm	145.4500 ppm	6.1756 ppm	0.1078 ppm
Concentration per Run 2	0.0023 ppm	0.0622 ppm	0.0994 ppm	0.1382 ppm	144.3893 ppm	6.1144 ppm	0.1058 ppm
Concentration per Run 3	0.0020 ppm	0.0603 ppm	0.0971 ppm	0.1357 ppm	145.0486 ppm	6.1185 ppm	0.1076 ppm
Concentration RSD	7.2 %	2.0 %	2.1 %	1.6 %	0.4 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.0147 ppm	3.5984 ppm	0.0002 ppm	0.8400 ppm	0.1133 ppm	0.4606 ppm	0.0041 ppm
Concentration per Run 1	20.4033 ppm	3.6027 ppm	0.0003 ppm	0.8479 ppm	0.1162 ppm	0.4635 ppm	0.0039 ppm
Concentration per Run 2	19.9846 ppm	3.6012 ppm	0.0000 ppm	0.8433 ppm	0.1121 ppm	0.4643 ppm	0.0018 ppm
Concentration per Run 3	19.6560 ppm	3.5913 ppm	0.0001 ppm	0.8288 ppm	0.1115 ppm	0.4540 ppm	0.0065 ppm
Concentration RSD	1.9 %	0.2 %	95.4 %	1.2 %	2.3 %	1.2 %	57.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	11.9568 ppm	0.0289 ppm	0.0645 ppm	1.4291 ppm	0.0021 ppm	0.1427 ppm
Concentration per Run 1	-0.0005 ppm	12.3310 ppm	0.0315 ppm	0.0646 ppm	1.4624 ppm	0.0013 ppm	0.1448 ppm
Concentration per Run 2	-0.0008 ppm	12.0697 ppm	0.0277 ppm	0.0644 ppm	1.4270 ppm	0.0029 ppm	0.1413 ppm
Concentration per Run 3	0.0021 ppm	11.4698 ppm	0.0276 ppm	0.0644 ppm	1.3979 ppm	0.0021 ppm	0.1418 ppm
Concentration RSD	563.0 %	3.7 %	7.6 %	0.2 %	2.3 %	39.2 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.2205 ppm	109.7286 %	114.2792 %	101.8227 %	114.2697 %	122.6344 %	116.2018 %
Concentration per Run 1	8.3738 ppm	108.0093 %	113.7224 %	101.6442 %	113.2556 %	122.5248 %	116.4983 %
Concentration per Run 2	8.1879 ppm	108.9094 %	114.4019 %	101.2341 %	113.8326 %	122.7142 %	115.5721 %
Concentration per Run 3	8.0997 ppm	112.2671 %	114.7134 %	102.5898 %	115.7208 %	122.6641 %	116.5349 %
Concentration RSD	1.7 %	2.0 %	0.4 %	0.7 %	1.1 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433745-01d2 WG1934738
Analysis started at: 6/15/2024 6:24:50 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	3.1793 ppm	0.0019 ppm	0.0004 ppm	0.0125 ppm	0.0002 ppm	0.2763 ppm
Concentration per Run 1	-0.0003 ppm	3.2016 ppm	0.0014 ppm	-0.0002 ppm	0.0123 ppm	0.0002 ppm	0.2791 ppm
Concentration per Run 2	-0.0002 ppm	3.1729 ppm	0.0009 ppm	0.0011 ppm	0.0124 ppm	0.0002 ppm	0.2761 ppm
Concentration per Run 3	-0.0003 ppm	3.1636 ppm	0.0034 ppm	0.0004 ppm	0.0128 ppm	0.0002 ppm	0.2737 ppm
Concentration RSD	26.8 %	0.6 %	69.1 %	140.2 %	1.8 %	7.9 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0020 ppm	0.0090 ppm	0.0073 ppm	5.9126 ppm	0.3013 ppm	0.0035 ppm
Concentration per Run 1	0.0000 ppm	0.0017 ppm	0.0091 ppm	0.0075 ppm	5.9584 ppm	0.3224 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0019 ppm	0.0091 ppm	0.0074 ppm	5.8993 ppm	0.2886 ppm	0.0046 ppm
Concentration per Run 3	0.0000 ppm	0.0025 ppm	0.0087 ppm	0.0071 ppm	5.8801 ppm	0.2929 ppm	0.0031 ppm
Concentration RSD	273.8 %	19.3 %	2.1 %	3.3 %	0.7 %	6.1 %	25.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4370 ppm	0.0405 ppm	-0.0012 ppm	0.0206 ppm	0.0029 ppm	0.0068 ppm	-0.0018 ppm
Concentration per Run 1	0.4433 ppm	0.0406 ppm	-0.0008 ppm	0.0151 ppm	0.0025 ppm	0.0063 ppm	-0.0029 ppm
Concentration per Run 2	0.4382 ppm	0.0406 ppm	-0.0018 ppm	0.0234 ppm	0.0033 ppm	0.0070 ppm	-0.0009 ppm
Concentration per Run 3	0.4295 ppm	0.0403 ppm	-0.0011 ppm	0.0232 ppm	0.0028 ppm	0.0071 ppm	-0.0015 ppm
Concentration RSD	1.6 %	0.4 %	38.2 %	23.0 %	14.7 %	6.7 %	56.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	1.8013 ppm	0.0008 ppm	0.0026 ppm	0.2088 ppm	-0.0010 ppm	0.0131 ppm
Concentration per Run 1	0.0015 ppm	1.8325 ppm	-0.0001 ppm	0.0026 ppm	0.2095 ppm	-0.0013 ppm	0.0135 ppm
Concentration per Run 2	0.0027 ppm	1.7943 ppm	0.0006 ppm	0.0025 ppm	0.2063 ppm	-0.0004 ppm	0.0133 ppm
Concentration per Run 3	0.0008 ppm	1.7771 ppm	0.0017 ppm	0.0026 ppm	0.2106 ppm	-0.0014 ppm	0.0125 ppm
Concentration RSD	57.7 %	1.6 %	119.7 %	2.7 %	1.0 %	51.1 %	4.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0189 ppm	107.5836 %	109.5026 %	107.9614 %	100.1189 %	103.4316 %	102.4833 %
Concentration per Run 1	0.0193 ppm	105.3579 %	109.0179 %	106.8874 %	99.3249 %	103.3545 %	102.2176 %
Concentration per Run 2	0.0186 ppm	108.1158 %	109.6227 %	108.5252 %	100.4428 %	103.4198 %	103.0500 %
Concentration per Run 3	0.0188 ppm	109.2770 %	109.8671 %	108.4716 %	100.5891 %	103.5206 %	102.1823 %
Concentration RSD	1.9 %	1.9 %	0.4 %	0.9 %	0.7 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2433745-02d2 WG1934738
Analysis started at: 6/15/2024 6:28:48 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	2.2367 ppm	0.0010 ppm	-0.0005 ppm	0.0062 ppm	0.0002 ppm	0.1432 ppm
Concentration per Run 1	0.0001 ppm	2.2949 ppm	0.0015 ppm	-0.0002 ppm	0.0064 ppm	0.0001 ppm	0.1465 ppm
Concentration per Run 2	0.0000 ppm	2.2163 ppm	0.0011 ppm	-0.0008 ppm	0.0061 ppm	0.0002 ppm	0.1439 ppm
Concentration per Run 3	0.0002 ppm	2.1990 ppm	0.0004 ppm	-0.0007 ppm	0.0059 ppm	0.0002 ppm	0.1392 ppm
Concentration RSD	88.9 %	2.3 %	57.9 %	59.0 %	3.8 %	33.6 %	2.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0021 ppm	0.0125 ppm	0.0040 ppm	4.2410 ppm	0.1933 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0024 ppm	0.0126 ppm	0.0041 ppm	4.3417 ppm	0.2193 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	0.0017 ppm	0.0124 ppm	0.0041 ppm	4.2304 ppm	0.1612 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0023 ppm	0.0124 ppm	0.0038 ppm	4.1508 ppm	0.1994 ppm	0.0021 ppm
Concentration RSD	315.5 %	17.6 %	0.9 %	4.8 %	2.3 %	15.3 %	32.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3144 ppm	0.0969 ppm	-0.0017 ppm	-0.0087 ppm	0.0017 ppm	0.0031 ppm	-0.0027 ppm
Concentration per Run 1	0.3193 ppm	0.0991 ppm	-0.0016 ppm	-0.0102 ppm	0.0011 ppm	0.0033 ppm	-0.0043 ppm
Concentration per Run 2	0.3144 ppm	0.0962 ppm	-0.0020 ppm	-0.0110 ppm	0.0020 ppm	0.0033 ppm	-0.0009 ppm
Concentration per Run 3	0.3096 ppm	0.0952 ppm	-0.0014 ppm	-0.0049 ppm	0.0019 ppm	0.0028 ppm	-0.0029 ppm
Concentration RSD	1.5 %	2.1 %	17.1 %	38.3 %	28.1 %	9.1 %	64.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.2368 ppm	0.0007 ppm	0.0017 ppm	0.0968 ppm	-0.0009 ppm	0.0088 ppm
Concentration per Run 1	0.0006 ppm	1.2510 ppm	0.0012 ppm	0.0019 ppm	0.0972 ppm	-0.0006 ppm	0.0089 ppm
Concentration per Run 2	-0.0003 ppm	1.2442 ppm	0.0006 ppm	0.0017 ppm	0.0994 ppm	-0.0008 ppm	0.0090 ppm
Concentration per Run 3	0.0023 ppm	1.2153 ppm	0.0003 ppm	0.0016 ppm	0.0938 ppm	-0.0013 ppm	0.0084 ppm
Concentration RSD	156.7 %	1.5 %	73.2 %	9.4 %	2.9 %	43.7 %	3.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0093 ppm	107.1494 %	107.6623 %	106.9696 %	100.6285 %	101.0584 %	101.8575 %
Concentration per Run 1	0.0093 ppm	105.7668 %	105.5596 %	105.9512 %	100.4226 %	96.9397 %	101.2485 %
Concentration per Run 2	0.0093 ppm	107.4544 %	107.9854 %	107.0468 %	101.0915 %	102.2820 %	101.8899 %
Concentration per Run 3	0.0093 ppm	108.2269 %	109.4420 %	107.9107 %	100.3713 %	103.9536 %	102.4339 %
Concentration RSD	0.1 %	1.2 %	1.8 %	0.9 %	0.4 %	3.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-02 WG1934062
Analysis started at: 6/15/2024 6:32:46 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0349 ppm	-0.0014 ppm	0.1822 ppm	0.0590 ppm	0.0000 ppm	13.1553 ppm
Concentration per Run 1	-0.0004 ppm	0.0279 ppm	-0.0016 ppm	0.1837 ppm	0.0595 ppm	0.0000 ppm	13.1731 ppm
Concentration per Run 2	-0.0002 ppm	0.0415 ppm	-0.0013 ppm	0.1826 ppm	0.0590 ppm	0.0000 ppm	13.1367 ppm
Concentration per Run 3	-0.0002 ppm	0.0355 ppm	-0.0011 ppm	0.1804 ppm	0.0586 ppm	0.0000 ppm	13.1560 ppm
Concentration RSD	32.5 %	19.5 %	18.9 %	0.9 %	0.8 %	430.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0010 ppm	0.0006 ppm	0.0020 ppm	0.0108 ppm	16.8154 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0002 ppm	0.0021 ppm	0.0106 ppm	16.8202 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0008 ppm	0.0020 ppm	0.0111 ppm	16.7905 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0007 ppm	0.0018 ppm	0.0107 ppm	16.8356 ppm	0.0005 ppm
Concentration RSD	383.1 %	16.1 %	62.8 %	6.4 %	2.6 %	0.1 %	64.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.6704 ppm	0.4524 ppm	-0.0018 ppm	62.0243 ppm	0.0025 ppm	0.0001 ppm	-0.0025 ppm
Concentration per Run 1	8.8376 ppm	0.4538 ppm	-0.0018 ppm	62.0793 ppm	0.0028 ppm	0.0008 ppm	-0.0015 ppm
Concentration per Run 2	8.6725 ppm	0.4529 ppm	-0.0020 ppm	62.1909 ppm	0.0026 ppm	-0.0004 ppm	-0.0044 ppm
Concentration per Run 3	8.5010 ppm	0.4506 ppm	-0.0017 ppm	61.8028 ppm	0.0019 ppm	-0.0001 ppm	-0.0016 ppm
Concentration RSD	1.9 %	0.4 %	9.7 %	0.3 %	19.4 %	526.5 %	66.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.8668 ppm	-0.0010 ppm	0.1609 ppm	-0.0001 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 1	-0.0024 ppm	4.9326 ppm	-0.0014 ppm	0.1605 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0020 ppm	4.8801 ppm	-0.0005 ppm	0.1609 ppm	-0.0006 ppm	0.0033 ppm	-0.0001 ppm
Concentration per Run 3	-0.0007 ppm	4.7875 ppm	-0.0011 ppm	0.1613 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	597.0 %	1.5 %	44.7 %	0.3 %	271.7 %	131.6 %	1,383.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	97.4060 %	102.8566 %	96.0739 %	96.2468 %	102.4303 %	98.9564 %
Concentration per Run 1	0.0026 ppm	95.6606 %	103.3388 %	95.3727 %	95.4008 %	103.5401 %	99.0884 %
Concentration per Run 2	0.0026 ppm	97.4633 %	102.2334 %	96.0892 %	96.3101 %	101.7790 %	98.9618 %
Concentration per Run 3	0.0025 ppm	99.0942 %	102.9976 %	96.7598 %	97.0293 %	101.9718 %	98.8191 %
Concentration RSD	3.5 %	1.8 %	0.6 %	0.7 %	0.8 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-03 WG1934062
Analysis started at: 6/15/2024 6:36:45 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.2441 ppm	-0.0004 ppm	0.0119 ppm	0.0322 ppm	0.0000 ppm	2.9299 ppm
Concentration per Run 1	0.0000 ppm	0.2436 ppm	-0.0005 ppm	0.0117 ppm	0.0325 ppm	0.0000 ppm	2.9538 ppm
Concentration per Run 2	-0.0004 ppm	0.2394 ppm	0.0004 ppm	0.0112 ppm	0.0322 ppm	0.0000 ppm	2.9193 ppm
Concentration per Run 3	-0.0002 ppm	0.2494 ppm	-0.0010 ppm	0.0128 ppm	0.0319 ppm	0.0000 ppm	2.9165 ppm
Concentration RSD	84.0 %	2.0 %	181.1 %	6.9 %	0.9 %	95.6 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0037 ppm	0.0029 ppm	0.2115 ppm	2.8578 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0034 ppm	0.0026 ppm	0.2120 ppm	2.8888 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0037 ppm	0.0031 ppm	0.2128 ppm	2.8451 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0038 ppm	0.0030 ppm	0.2095 ppm	2.8395 ppm	0.0012 ppm
Concentration RSD	265.2 %	378.1 %	6.2 %	9.9 %	0.8 %	0.9 %	19.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.4364 ppm	0.0142 ppm	-0.0013 ppm	29.5247 ppm	0.0026 ppm	-0.0004 ppm	-0.0021 ppm
Concentration per Run 1	2.3410 ppm	0.0142 ppm	-0.0015 ppm	29.5577 ppm	0.0019 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 2	2.4957 ppm	0.0142 ppm	-0.0016 ppm	29.5635 ppm	0.0026 ppm	-0.0002 ppm	-0.0051 ppm
Concentration per Run 3	2.4725 ppm	0.0141 ppm	-0.0009 ppm	29.4528 ppm	0.0032 ppm	-0.0007 ppm	-0.0024 ppm
Concentration RSD	3.4 %	0.5 %	26.3 %	0.2 %	26.0 %	62.2 %	142.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	4.2331 ppm	-0.0013 ppm	0.0429 ppm	0.0074 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 1	-0.0024 ppm	4.0319 ppm	-0.0021 ppm	0.0431 ppm	0.0069 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0003 ppm	4.3533 ppm	-0.0011 ppm	0.0429 ppm	0.0077 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	4.3140 ppm	-0.0006 ppm	0.0428 ppm	0.0075 ppm	0.0001 ppm	0.0004 ppm
Concentration RSD	229.7 %	4.1 %	60.6 %	0.3 %	5.6 %	80.4 %	21.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	105.8834 %	106.4803 %	103.0186 %	102.8313 %	103.5252 %	100.9801 %
Concentration per Run 1	0.0025 ppm	109.8590 %	105.7180 %	102.8079 %	110.0027 %	103.4421 %	101.4556 %
Concentration per Run 2	0.0026 ppm	103.2182 %	107.2273 %	102.4887 %	99.5297 %	104.2711 %	100.6331 %
Concentration per Run 3	0.0027 ppm	104.5732 %	106.4954 %	103.7591 %	98.9616 %	102.8624 %	100.8517 %
Concentration RSD	4.6 %	3.3 %	0.7 %	0.6 %	6.0 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 6:40:45 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5151 ppm	0.5062 ppm	0.4798 ppm	0.5020 ppm	0.5059 ppm	0.5130 ppm	0.5102 ppm
Concentration per Run 1	0.5218 ppm	0.5010 ppm	0.4828 ppm	0.5081 ppm	0.5078 ppm	0.5151 ppm	0.5122 ppm
Concentration per Run 2	0.5139 ppm	0.5099 ppm	0.4800 ppm	0.5013 ppm	0.5060 ppm	0.5124 ppm	0.5099 ppm
Concentration per Run 3	0.5096 ppm	0.5079 ppm	0.4765 ppm	0.4966 ppm	0.5041 ppm	0.5113 ppm	0.5084 ppm
Recovery Percentage 1	103.020 %	101.250 %	95.956 %	100.403 %	101.190 %	102.593 %	102.036 %
Concentration RSD	1.2 %	0.9 %	0.7 %	1.2 %	0.4 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5116 ppm	0.5202 ppm	0.5030 ppm	0.5068 ppm	0.5390 ppm	5.2286 ppm	0.4998 ppm
Concentration per Run 1	0.5187 ppm	0.5274 ppm	0.5112 ppm	0.5137 ppm	0.5412 ppm	5.3076 ppm	0.5069 ppm
Concentration per Run 2	0.5118 ppm	0.5192 ppm	0.5020 ppm	0.5070 ppm	0.5388 ppm	5.2010 ppm	0.5004 ppm
Concentration per Run 3	0.5042 ppm	0.5140 ppm	0.4959 ppm	0.4996 ppm	0.5371 ppm	5.1773 ppm	0.4921 ppm
Recovery Percentage 1	102.315 %	104.034 %	100.608 %	101.353 %	107.810 %	104.573 %	99.963 %
Concentration RSD	1.4 %	1.3 %	1.5 %	1.4 %	0.4 %	1.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5122 ppm	0.4993 ppm	0.5063 ppm	10.2508 ppm	0.5169 ppm	0.5002 ppm	0.4965 ppm
Concentration per Run 1	0.5203 ppm	0.5015 ppm	0.5066 ppm	10.2547 ppm	0.5233 ppm	0.5028 ppm	0.5025 ppm
Concentration per Run 2	0.5102 ppm	0.4990 ppm	0.5066 ppm	10.2810 ppm	0.5169 ppm	0.5001 ppm	0.4943 ppm
Concentration per Run 3	0.5061 ppm	0.4974 ppm	0.5058 ppm	10.2167 ppm	0.5106 ppm	0.4977 ppm	0.4928 ppm
Recovery Percentage 1	102.444 %	99.863 %	101.268 %	102.508 %	103.379 %	100.047 %	99.301 %
Concentration RSD	1.4 %	0.4 %	0.1 %	0.3 %	1.2 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4874 ppm	5.2436 ppm	0.5157 ppm	0.5143 ppm	0.5109 ppm	0.5107 ppm	0.5041 ppm
Concentration per Run 1	0.4891 ppm	5.3003 ppm	0.5180 ppm	0.5158 ppm	0.5195 ppm	0.5125 ppm	0.5116 ppm
Concentration per Run 2	0.4887 ppm	5.2500 ppm	0.5162 ppm	0.5131 ppm	0.5093 ppm	0.5119 ppm	0.5037 ppm
Concentration per Run 3	0.4844 ppm	5.1804 ppm	0.5130 ppm	0.5139 ppm	0.5041 ppm	0.5076 ppm	0.4970 ppm
Recovery Percentage 1	97.481 %	99.878 %	103.148 %	102.854 %	102.185 %	102.132 %	100.821 %
Concentration RSD	0.5 %	1.1 %	0.5 %	0.3 %	1.5 %	0.5 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5133 ppm	109.6226 %	110.1517 %	106.9423 %	97.6936 %	100.5381 %	98.5663 %
Concentration per Run 1	0.5210 ppm	107.3825 %	109.6973 %	106.5316 %	96.7171 %	100.4586 %	99.0750 %
Concentration per Run 2	0.5129 ppm	109.9905 %	109.3111 %	106.7339 %	98.0956 %	99.5694 %	98.1120 %
Concentration per Run 3	0.5059 ppm	111.4948 %	111.4466 %	107.5614 %	98.2680 %	101.5863 %	98.5118 %
Recovery Percentage 1	102.658 %						
Concentration RSD	1.5 %	1.9 %	1.0 %	0.5 %	0.9 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 6:44:44 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0072 ppm	-0.0004 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0005 ppm	0.0063 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 2	-0.0001 ppm	0.0048 ppm	-0.0004 ppm	-0.0013 ppm	0.0001 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0105 ppm	-0.0007 ppm	-0.0026 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm
Recovery Percentage 1	-4.220 %	7.193 %	-14.104 %	-4.348 %	1.099 %	0.976 %	0.168 %
Concentration RSD	77.6 %	41.2 %	50.7 %	97.1 %	19.4 %	30.3 %	1,599.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0069 ppm	-0.0361 ppm	-0.0005 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0006 ppm	0.0063 ppm	-0.0399 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0004 ppm	0.0094 ppm	-0.0340 ppm	-0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0049 ppm	-0.0345 ppm	0.0011 ppm
Recovery Percentage 1	1.799 %	0.363 %	-3.352 %	3.770 %	13.796 %	-1.445 %	-4.930 %
Concentration RSD	79.8 %	296.0 %	89.4 %	61.8 %	33.3 %	9.1 %	288.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0000 ppm	-0.0004 ppm	-0.0529 ppm	-0.0006 ppm	-0.0010 ppm	-0.0013 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	-0.0004 ppm	-0.0468 ppm	0.0003 ppm	-0.0006 ppm	-0.0026 ppm
Concentration per Run 2	0.0019 ppm	0.0000 ppm	-0.0008 ppm	-0.0508 ppm	-0.0011 ppm	-0.0014 ppm	0.0003 ppm
Concentration per Run 3	-0.0015 ppm	0.0000 ppm	-0.0001 ppm	-0.0611 ppm	-0.0011 ppm	-0.0009 ppm	-0.0014 ppm
Recovery Percentage 1	0.199 %	0.242 %	-0.872 %	-2.646 %	-2.569 %	-9.637 %	-2.509 %
Concentration RSD	840.4 %	34.9 %	74.0 %	13.9 %	122.1 %	45.0 %	114.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0023 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	-0.0056 ppm	-0.0003 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0023 ppm	-0.0005 ppm	0.0001 ppm	-0.0004 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	-0.0037 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm
Recovery Percentage 1	6.008 %	-0.462 %	-0.560 %	0.819 %	-3.675 %	6.051 %	-0.496 %
Concentration RSD	210.7 %	179.0 %	76.3 %	112.3 %	17.5 %	35.7 %	314.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	100.0590 %	101.7900 %	100.6951 %	99.6765 %	100.9811 %	100.0996 %
Concentration per Run 1	0.0006 ppm	98.7566 %	101.3246 %	98.8904 %	99.3424 %	101.2609 %	99.6826 %
Concentration per Run 2	0.0004 ppm	99.6274 %	101.2740 %	100.9669 %	99.4639 %	100.6992 %	100.2677 %
Concentration per Run 3	0.0006 ppm	101.7930 %	102.7714 %	102.2279 %	100.2232 %	100.9831 %	100.3486 %
Recovery Percentage 1	10.679 %						
Concentration RSD	25.5 %	1.6 %	0.8 %	1.7 %	0.5 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934062-1 WG1934062
Analysis started at: 6/15/2024 6:51:30 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0013 ppm	0.0005 ppm	-0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	-0.0004 ppm	0.0081 ppm	0.0017 ppm	-0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	-0.0003 ppm	-0.0057 ppm	-0.0014 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	-0.0005 ppm	0.0014 ppm	0.0011 ppm	-0.0018 ppm	-0.0002 ppm	0.0000 ppm	0.0043 ppm
Recovery Percentage 1	-5.748 %	1.265 %	15.608 %	-4.986 %	-0.296 %	-0.313 %	1.862 %
Concentration RSD	29.9 %	543.6 %	346.7 %	47.0 %	514.8 %	53.0 %	132.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0162 ppm	0.0006 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0177 ppm	0.0076 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0162 ppm	-0.0141 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0007 ppm	0.0146 ppm	0.0083 ppm	-0.0021 ppm
Recovery Percentage 1	-0.085 %	-0.229 %	-0.740 %	7.621 %	32.341 %	0.025 %	-5.542 %
Concentration RSD	948.8 %	562.8 %	502.6 %	17.0 %	9.5 %	2,064.1 %	246.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0000 ppm	-0.0018 ppm	-0.0520 ppm	-0.0004 ppm	-0.0002 ppm	-0.0014 ppm
Concentration per Run 1	0.0005 ppm	-0.0004 ppm	-0.0019 ppm	-0.0499 ppm	-0.0003 ppm	-0.0011 ppm	-0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0018 ppm	-0.0532 ppm	0.0000 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0016 ppm	-0.0529 ppm	-0.0008 ppm	0.0004 ppm	-0.0010 ppm
Recovery Percentage 1	0.163 %	0.375 %	-3.545 %	-2.601 %	-1.516 %	-2.433 %	-2.829 %
Concentration RSD	206.4 %	972.3 %	9.8 %	3.5 %	105.8 %	313.7 %	64.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0082 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	-0.0065 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0021 ppm	-0.0091 ppm	0.0005 ppm	0.0000 ppm	-0.0005 ppm	0.0022 ppm	-0.0003 ppm
Concentration per Run 3	-0.0017 ppm	-0.0089 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	-14.391 %	-1.632 %	0.274 %	-0.497 %	-2.392 %	3.163 %	-1.494 %
Concentration RSD	59.2 %	17.6 %	230.0 %	73.3 %	87.8 %	219.4 %	122.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	97.9455 %	101.4234 %	99.9322 %	99.5096 %	103.7143 %	101.1830 %
Concentration per Run 1	0.0007 ppm	96.1535 %	100.0082 %	98.3215 %	98.4129 %	103.1528 %	100.4522 %
Concentration per Run 2	0.0005 ppm	97.6005 %	101.0226 %	100.4549 %	98.9957 %	103.0788 %	101.7806 %
Concentration per Run 3	0.0005 ppm	100.0826 %	103.2394 %	101.0201 %	101.1202 %	104.9114 %	101.3162 %
Recovery Percentage 1	11.141 %						
Concentration RSD	29.6 %	2.0 %	1.6 %	1.4 %	1.4 %	1.0 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934062-2 WG1934062
Analysis started at: 6/15/2024 6:55:34 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0543 ppm	2.0714 ppm	0.1239 ppm	1.0578 ppm	2.0334 ppm	0.0515 ppm	10.4606 ppm
Concentration per Run 1	0.0549 ppm	2.0904 ppm	0.1266 ppm	1.0667 ppm	2.0459 ppm	0.0517 ppm	10.4640 ppm
Concentration per Run 2	0.0541 ppm	2.0672 ppm	0.1225 ppm	1.0661 ppm	2.0365 ppm	0.0514 ppm	10.4924 ppm
Concentration per Run 3	0.0538 ppm	2.0565 ppm	0.1226 ppm	1.0405 ppm	2.0177 ppm	0.0513 ppm	10.4255 ppm
Concentration RSD	1.0 %	0.8 %	1.9 %	1.4 %	0.7 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0577 ppm	0.5329 ppm	0.2106 ppm	0.2697 ppm	1.0446 ppm	10.7056 ppm	0.0001 ppm
Concentration per Run 1	0.0586 ppm	0.5420 ppm	0.2141 ppm	0.2743 ppm	1.0496 ppm	10.7838 ppm	0.0010 ppm
Concentration per Run 2	0.0577 ppm	0.5338 ppm	0.2102 ppm	0.2706 ppm	1.0396 ppm	10.6879 ppm	-0.0008 ppm
Concentration per Run 3	0.0569 ppm	0.5230 ppm	0.2076 ppm	0.2642 ppm	1.0446 ppm	10.6450 ppm	0.0002 ppm
Concentration RSD	1.5 %	1.8 %	1.6 %	1.9 %	0.5 %	0.7 %	750.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7899 ppm	0.5136 ppm	1.0034 ppm	10.6648 ppm	0.5353 ppm	0.5544 ppm	0.4558 ppm
Concentration per Run 1	10.9727 ppm	0.5153 ppm	1.0015 ppm	10.6692 ppm	0.5410 ppm	0.5586 ppm	0.4581 ppm
Concentration per Run 2	10.7727 ppm	0.5143 ppm	1.0067 ppm	10.6873 ppm	0.5366 ppm	0.5545 ppm	0.4601 ppm
Concentration per Run 3	10.6243 ppm	0.5113 ppm	1.0019 ppm	10.6379 ppm	0.5281 ppm	0.5501 ppm	0.4491 ppm
Concentration RSD	1.6 %	0.4 %	0.3 %	0.2 %	1.2 %	0.8 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1247 ppm	1.1018 ppm	0.9502 ppm	1.0207 ppm	1.0750 ppm	0.1283 ppm	0.5354 ppm
Concentration per Run 1	0.1258 ppm	1.1197 ppm	0.9480 ppm	1.0245 ppm	1.0901 ppm	0.1305 ppm	0.5416 ppm
Concentration per Run 2	0.1236 ppm	1.0985 ppm	0.9556 ppm	1.0202 ppm	1.0737 ppm	0.1266 ppm	0.5358 ppm
Concentration per Run 3	0.1247 ppm	1.0872 ppm	0.9470 ppm	1.0175 ppm	1.0612 ppm	0.1279 ppm	0.5290 ppm
Concentration RSD	0.9 %	1.5 %	0.5 %	0.3 %	1.3 %	1.6 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5413 ppm	101.3136 %	105.7263 %	99.3682 %	97.2938 %	102.0570 %	98.8417 %
Concentration per Run 1	0.5495 ppm	99.4469 %	106.0539 %	98.5197 %	96.4238 %	103.2230 %	99.1727 %
Concentration per Run 2	0.5422 ppm	101.3316 %	105.4720 %	99.1386 %	97.6393 %	101.8753 %	98.4553 %
Concentration per Run 3	0.5323 ppm	103.1623 %	105.6529 %	100.4462 %	97.8183 %	101.0726 %	98.8970 %
Concentration RSD	1.6 %	1.8 %	0.3 %	1.0 %	0.8 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-04 WG1934062
Analysis started at: 6/15/2024 6:59:33 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0041 ppm	0.0006 ppm	0.1541 ppm	0.0424 ppm	0.0000 ppm	34.5589 ppm
Concentration per Run 1	-0.0003 ppm	0.0018 ppm	-0.0009 ppm	0.1551 ppm	0.0429 ppm	0.0000 ppm	34.7732 ppm
Concentration per Run 2	0.0001 ppm	0.0090 ppm	0.0029 ppm	0.1548 ppm	0.0424 ppm	0.0000 ppm	34.5361 ppm
Concentration per Run 3	-0.0006 ppm	0.0015 ppm	-0.0003 ppm	0.1524 ppm	0.0419 ppm	0.0000 ppm	34.3674 ppm
Concentration RSD	156.1 %	103.8 %	364.2 %	0.9 %	1.2 %	39.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0028 ppm	0.0006 ppm	0.0018 ppm	0.7254 ppm	18.4100 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0032 ppm	0.0008 ppm	0.0020 ppm	0.7292 ppm	18.4878 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0026 ppm	0.0008 ppm	0.0017 ppm	0.7289 ppm	18.5417 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0027 ppm	0.0003 ppm	0.0017 ppm	0.7181 ppm	18.2006 ppm	0.0006 ppm
Concentration RSD	1,126.0 %	11.7 %	49.4 %	10.4 %	0.9 %	1.0 %	1,047.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7878 ppm	4.5072 ppm	0.0019 ppm	46.2057 ppm	0.0034 ppm	0.0004 ppm	0.0017 ppm
Concentration per Run 1	4.8832 ppm	4.5361 ppm	0.0018 ppm	46.4865 ppm	0.0030 ppm	0.0011 ppm	0.0013 ppm
Concentration per Run 2	4.7843 ppm	4.5001 ppm	0.0014 ppm	46.0907 ppm	0.0040 ppm	0.0009 ppm	0.0024 ppm
Concentration per Run 3	4.6960 ppm	4.4855 ppm	0.0026 ppm	46.0398 ppm	0.0032 ppm	-0.0008 ppm	0.0016 ppm
Concentration RSD	2.0 %	0.6 %	31.7 %	0.5 %	15.9 %	236.7 %	31.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	3.6647 ppm	0.0017 ppm	0.1474 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0013 ppm	3.7147 ppm	0.0014 ppm	0.1486 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0022 ppm	3.6519 ppm	0.0015 ppm	0.1471 ppm	-0.0002 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	3.6275 ppm	0.0021 ppm	0.1466 ppm	0.0000 ppm	0.0009 ppm	-0.0002 ppm
Concentration RSD	32.5 %	1.2 %	23.3 %	0.7 %	2,173.2 %	158.9 %	391.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	96.7430 %	103.4759 %	95.4729 %	95.4470 %	103.2666 %	98.1674 %
Concentration per Run 1	0.0019 ppm	94.8582 %	103.1389 %	94.2167 %	94.2442 %	103.6837 %	97.8759 %
Concentration per Run 2	0.0020 ppm	97.1331 %	103.1500 %	95.4534 %	95.8260 %	102.5284 %	98.1392 %
Concentration per Run 3	0.0024 ppm	98.2376 %	104.1389 %	96.7485 %	96.2709 %	103.5876 %	98.4871 %
Concentration RSD	12.7 %	1.8 %	0.6 %	1.3 %	1.1 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-05 WG1934062
Analysis started at: 6/15/2024 7:03:32 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0594 ppm	-0.0001 ppm	0.0100 ppm	0.3249 ppm	0.0001 ppm	21.2490 ppm
Concentration per Run 1	-0.0003 ppm	0.0519 ppm	0.0002 ppm	0.0103 ppm	0.3277 ppm	0.0001 ppm	21.4494 ppm
Concentration per Run 2	0.0001 ppm	0.0631 ppm	0.0000 ppm	0.0104 ppm	0.3240 ppm	0.0001 ppm	21.1903 ppm
Concentration per Run 3	-0.0001 ppm	0.0634 ppm	-0.0006 ppm	0.0093 ppm	0.3229 ppm	0.0001 ppm	21.1073 ppm
Concentration RSD	194.6 %	11.1 %	268.6 %	6.0 %	0.8 %	40.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0022 ppm	0.0034 ppm	0.0062 ppm	0.0407 ppm	5.1320 ppm	0.0027 ppm
Concentration per Run 1	0.0010 ppm	0.0024 ppm	0.0031 ppm	0.0066 ppm	0.0418 ppm	5.2129 ppm	0.0027 ppm
Concentration per Run 2	0.0012 ppm	0.0022 ppm	0.0034 ppm	0.0059 ppm	0.0418 ppm	5.0985 ppm	0.0041 ppm
Concentration per Run 3	0.0011 ppm	0.0019 ppm	0.0037 ppm	0.0061 ppm	0.0386 ppm	5.0846 ppm	0.0012 ppm
Concentration RSD	5.3 %	11.4 %	8.2 %	5.9 %	4.6 %	1.4 %	53.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.5476 ppm	9.4527 ppm	-0.0009 ppm	283.5381 ppm	0.0079 ppm	-0.0001 ppm	-0.0017 ppm
Concentration per Run 1	11.8019 ppm	9.5386 ppm	-0.0009 ppm	285.7754 ppm	0.0087 ppm	0.0002 ppm	-0.0035 ppm
Concentration per Run 2	11.5291 ppm	9.4194 ppm	-0.0005 ppm	283.2483 ppm	0.0074 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 3	11.3117 ppm	9.4000 ppm	-0.0012 ppm	281.5906 ppm	0.0076 ppm	-0.0003 ppm	-0.0008 ppm
Concentration RSD	2.1 %	0.8 %	42.6 %	0.7 %	8.8 %	201.9 %	90.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	5.8687 ppm	-0.0003 ppm	0.3165 ppm	0.0011 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 1	0.0006 ppm	5.9710 ppm	-0.0011 ppm	0.3176 ppm	0.0012 ppm	-0.0006 ppm	-0.0006 ppm
Concentration per Run 2	0.0002 ppm	5.8713 ppm	0.0003 ppm	0.3171 ppm	0.0009 ppm	0.0015 ppm	-0.0004 ppm
Concentration per Run 3	-0.0029 ppm	5.7638 ppm	0.0000 ppm	0.3146 ppm	0.0012 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	262.9 %	1.8 %	295.4 %	0.5 %	14.1 %	172.3 %	74.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0135 ppm	91.8491 %	100.7923 %	89.4914 %	92.3971 %	101.9488 %	96.4979 %
Concentration per Run 1	0.0139 ppm	90.1694 %	99.7296 %	88.4730 %	91.4715 %	101.7323 %	96.5318 %
Concentration per Run 2	0.0136 ppm	92.1490 %	101.0256 %	89.7034 %	92.9178 %	102.0523 %	96.7498 %
Concentration per Run 3	0.0130 ppm	93.2289 %	101.6215 %	90.2978 %	92.8019 %	102.0618 %	96.2122 %
Concentration RSD	3.4 %	1.7 %	1.0 %	1.0 %	0.9 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-06 WG1934062
Analysis started at: 6/15/2024 7:07:31 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0047 ppm	0.0221 ppm	0.1408 ppm	0.0874 ppm	0.0000 ppm	15.1317 ppm
Concentration per Run 1	-0.0007 ppm	0.0127 ppm	0.0225 ppm	0.1440 ppm	0.0889 ppm	0.0000 ppm	15.2280 ppm
Concentration per Run 2	0.0000 ppm	0.0056 ppm	0.0232 ppm	0.1416 ppm	0.0872 ppm	0.0000 ppm	15.0779 ppm
Concentration per Run 3	-0.0004 ppm	-0.0040 ppm	0.0205 ppm	0.1369 ppm	0.0860 ppm	0.0000 ppm	15.0892 ppm
Concentration RSD	90.2 %	177.4 %	6.5 %	2.6 %	1.6 %	196.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0169 ppm	0.0008 ppm	0.0015 ppm	10.7289 ppm	19.4581 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0170 ppm	0.0007 ppm	0.0018 ppm	10.8827 ppm	19.6169 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0168 ppm	0.0005 ppm	0.0013 ppm	10.6891 ppm	19.4557 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0169 ppm	0.0011 ppm	0.0015 ppm	10.6148 ppm	19.3017 ppm	0.0013 ppm
Concentration RSD	402.5 %	0.6 %	38.9 %	15.3 %	1.3 %	0.8 %	651.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.2888 ppm	1.4710 ppm	-0.0010 ppm	87.8747 ppm	0.0055 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 1	6.4060 ppm	1.4822 ppm	-0.0008 ppm	88.7174 ppm	0.0061 ppm	0.0008 ppm	-0.0030 ppm
Concentration per Run 2	6.3000 ppm	1.4683 ppm	-0.0009 ppm	87.4665 ppm	0.0059 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	6.1603 ppm	1.4624 ppm	-0.0014 ppm	87.4402 ppm	0.0044 ppm	0.0005 ppm	-0.0023 ppm
Concentration RSD	2.0 %	0.7 %	29.8 %	0.8 %	17.0 %	1,290.9 %	100.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	6.7037 ppm	-0.0007 ppm	0.1479 ppm	-0.0003 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	6.8028 ppm	-0.0001 ppm	0.1513 ppm	-0.0004 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0031 ppm	6.7246 ppm	-0.0005 ppm	0.1466 ppm	-0.0005 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0036 ppm	6.5837 ppm	-0.0017 ppm	0.1459 ppm	-0.0001 ppm	0.0026 ppm	0.0000 ppm
Concentration RSD	1,933.8 %	1.7 %	113.7 %	2.0 %	50.6 %	130.6 %	163.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	97.3071 %	103.9678 %	96.3222 %	95.5817 %	101.9741 %	98.4514 %
Concentration per Run 1	0.0027 ppm	95.5929 %	103.1472 %	94.3155 %	94.8856 %	102.0199 %	97.6051 %
Concentration per Run 2	0.0027 ppm	97.2771 %	104.5363 %	96.5995 %	95.7624 %	102.3413 %	98.5900 %
Concentration per Run 3	0.0029 ppm	99.0513 %	104.2198 %	98.0515 %	96.0971 %	101.5611 %	99.1592 %
Concentration RSD	3.6 %	1.8 %	0.7 %	2.0 %	0.7 %	0.4 %	0.8 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2431820-01 WG1934483
Analysis started at: 6/15/2024 7:11:31 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0157 ppm	-0.0007 ppm	0.0030 ppm	0.0233 ppm	0.0000 ppm	57.3896 ppm
Concentration per Run 1	0.0008 ppm	0.0167 ppm	0.0007 ppm	0.0029 ppm	0.0233 ppm	0.0000 ppm	57.3838 ppm
Concentration per Run 2	0.0004 ppm	0.0225 ppm	-0.0006 ppm	0.0023 ppm	0.0233 ppm	0.0000 ppm	57.3611 ppm
Concentration per Run 3	0.0004 ppm	0.0080 ppm	-0.0023 ppm	0.0038 ppm	0.0233 ppm	0.0000 ppm	57.4238 ppm
Concentration RSD	46.2 %	46.3 %	204.6 %	26.4 %	0.2 %	66.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7496 ppm	0.0005 ppm	0.0022 ppm	0.0618 ppm	0.0199 ppm	0.4709 ppm	0.0029 ppm
Concentration per Run 1	0.7507 ppm	0.0007 ppm	0.0021 ppm	0.0617 ppm	0.0201 ppm	0.4876 ppm	0.0021 ppm
Concentration per Run 2	0.7515 ppm	0.0003 ppm	0.0021 ppm	0.0623 ppm	0.0205 ppm	0.4799 ppm	0.0035 ppm
Concentration per Run 3	0.7468 ppm	0.0004 ppm	0.0024 ppm	0.0613 ppm	0.0191 ppm	0.4451 ppm	0.0030 ppm
Concentration RSD	0.3 %	40.4 %	9.8 %	0.8 %	3.7 %	4.8 %	24.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4929 ppm	0.0535 ppm	-0.0014 ppm	131.5209 ppm	0.0152 ppm	0.0109 ppm	0.0004 ppm
Concentration per Run 1	0.4947 ppm	0.0536 ppm	-0.0010 ppm	131.4812 ppm	0.0152 ppm	0.0121 ppm	0.0027 ppm
Concentration per Run 2	0.4927 ppm	0.0533 ppm	-0.0016 ppm	131.6354 ppm	0.0142 ppm	0.0101 ppm	-0.0034 ppm
Concentration per Run 3	0.4913 ppm	0.0537 ppm	-0.0016 ppm	131.4460 ppm	0.0163 ppm	0.0103 ppm	0.0019 ppm
Concentration RSD	0.3 %	0.4 %	24.2 %	0.1 %	7.0 %	10.2 %	924.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.7568 ppm	0.0026 ppm	0.2163 ppm	-0.0001 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 1	-0.0025 ppm	0.7582 ppm	0.0021 ppm	0.2153 ppm	-0.0004 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 2	-0.0010 ppm	0.7560 ppm	0.0040 ppm	0.2179 ppm	0.0003 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 3	-0.0002 ppm	0.7563 ppm	0.0018 ppm	0.2156 ppm	-0.0002 ppm	-0.0010 ppm	0.0006 ppm
Concentration RSD	93.2 %	0.2 %	45.2 %	0.6 %	350.7 %	17.8 %	8.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2342 ppm	107.2027 %	108.1724 %	99.7783 %	90.7592 %	97.3983 %	93.0672 %
Concentration per Run 1	0.2343 ppm	106.7997 %	108.9157 %	99.3869 %	90.8966 %	98.1858 %	92.9571 %
Concentration per Run 2	0.2339 ppm	107.2243 %	107.7638 %	99.7512 %	90.9011 %	96.8450 %	93.1764 %
Concentration per Run 3	0.2342 ppm	107.5842 %	107.8376 %	100.1967 %	90.4799 %	97.1640 %	93.0682 %
Concentration RSD	0.1 %	0.4 %	0.6 %	0.4 %	0.3 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934483-3 WG1934483
Analysis started at: 6/15/2024 7:15:29 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0451 ppm	1.8070 ppm	0.1131 ppm	0.8631 ppm	1.8266 ppm	0.0459 ppm	65.5194 ppm
Concentration per Run 1	0.0451 ppm	1.8303 ppm	0.1137 ppm	0.8592 ppm	1.8291 ppm	0.0458 ppm	65.7446 ppm
Concentration per Run 2	0.0454 ppm	1.7940 ppm	0.1136 ppm	0.8636 ppm	1.8230 ppm	0.0456 ppm	65.3638 ppm
Concentration per Run 3	0.0447 ppm	1.7966 ppm	0.1120 ppm	0.8664 ppm	1.8275 ppm	0.0462 ppm	65.4497 ppm
Concentration RSD	0.7 %	1.1 %	0.8 %	0.4 %	0.2 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7749 ppm	0.4287 ppm	0.1738 ppm	0.2810 ppm	0.9256 ppm	9.9090 ppm	0.0053 ppm
Concentration per Run 1	0.7769 ppm	0.4294 ppm	0.1739 ppm	0.2806 ppm	0.9252 ppm	9.9704 ppm	0.0068 ppm
Concentration per Run 2	0.7709 ppm	0.4272 ppm	0.1731 ppm	0.2812 ppm	0.9228 ppm	9.8845 ppm	0.0051 ppm
Concentration per Run 3	0.7770 ppm	0.4294 ppm	0.1745 ppm	0.2813 ppm	0.9289 ppm	9.8722 ppm	0.0042 ppm
Concentration RSD	0.4 %	0.3 %	0.4 %	0.1 %	0.3 %	0.5 %	24.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.9344 ppm	0.5011 ppm	0.9337 ppm	138.7872 ppm	0.4419 ppm	0.4943 ppm	0.4431 ppm
Concentration per Run 1	8.9568 ppm	0.5025 ppm	0.9236 ppm	138.9184 ppm	0.4419 ppm	0.4953 ppm	0.4435 ppm
Concentration per Run 2	8.9308 ppm	0.5001 ppm	0.9303 ppm	138.3963 ppm	0.4396 ppm	0.4963 ppm	0.4399 ppm
Concentration per Run 3	8.9157 ppm	0.5005 ppm	0.9473 ppm	139.0470 ppm	0.4442 ppm	0.4914 ppm	0.4460 ppm
Concentration RSD	0.2 %	0.3 %	1.3 %	0.2 %	0.5 %	0.5 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1104 ppm	1.6790 ppm	0.9018 ppm	1.1021 ppm	0.8989 ppm	0.1093 ppm	0.4492 ppm
Concentration per Run 1	0.1110 ppm	1.6818 ppm	0.8934 ppm	1.0994 ppm	0.8993 ppm	0.1085 ppm	0.4488 ppm
Concentration per Run 2	0.1086 ppm	1.6690 ppm	0.9010 ppm	1.0959 ppm	0.8960 ppm	0.1117 ppm	0.4489 ppm
Concentration per Run 3	0.1115 ppm	1.6864 ppm	0.9110 ppm	1.1111 ppm	0.9013 ppm	0.1076 ppm	0.4499 ppm
Concentration RSD	1.4 %	0.5 %	1.0 %	0.7 %	0.3 %	2.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6630 ppm	107.7515 %	107.8066 %	97.8952 %	90.7735 %	97.1323 %	92.3442 %
Concentration per Run 1	0.6642 ppm	106.6537 %	107.5423 %	97.8545 %	90.3000 %	96.9839 %	92.5011 %
Concentration per Run 2	0.6591 ppm	108.0677 %	108.0002 %	97.8108 %	90.8752 %	97.1803 %	92.4449 %
Concentration per Run 3	0.6655 ppm	108.5330 %	107.8773 %	98.0204 %	91.1453 %	97.2327 %	92.0864 %
Concentration RSD	0.5 %	0.9 %	0.2 %	0.1 %	0.5 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934483-4 WG1934483
Analysis started at: 6/15/2024 7:19:28 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0202 ppm	0.0004 ppm	0.0046 ppm	0.0231 ppm	0.0000 ppm	56.2507 ppm
Concentration per Run 1	0.0004 ppm	0.0277 ppm	0.0004 ppm	0.0047 ppm	0.0234 ppm	0.0000 ppm	56.3294 ppm
Concentration per Run 2	0.0007 ppm	0.0179 ppm	0.0003 ppm	0.0054 ppm	0.0231 ppm	0.0000 ppm	56.1166 ppm
Concentration per Run 3	0.0005 ppm	0.0149 ppm	0.0004 ppm	0.0038 ppm	0.0229 ppm	0.0000 ppm	56.3062 ppm
Concentration RSD	29.1 %	33.2 %	16.5 %	17.4 %	1.1 %	225.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7410 ppm	0.0004 ppm	0.0021 ppm	0.0604 ppm	0.0052 ppm	0.4659 ppm	0.0027 ppm
Concentration per Run 1	0.7443 ppm	0.0001 ppm	0.0020 ppm	0.0613 ppm	0.0037 ppm	0.5116 ppm	0.0045 ppm
Concentration per Run 2	0.7397 ppm	0.0006 ppm	0.0021 ppm	0.0601 ppm	0.0067 ppm	0.4548 ppm	-0.0002 ppm
Concentration per Run 3	0.7391 ppm	0.0005 ppm	0.0021 ppm	0.0598 ppm	0.0051 ppm	0.4313 ppm	0.0039 ppm
Concentration RSD	0.4 %	58.7 %	4.2 %	1.3 %	28.6 %	8.9 %	94.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4859 ppm	0.0522 ppm	0.0004 ppm	128.7958 ppm	0.0148 ppm	0.0108 ppm	0.0001 ppm
Concentration per Run 1	0.4893 ppm	0.0525 ppm	0.0003 ppm	129.0683 ppm	0.0146 ppm	0.0109 ppm	0.0008 ppm
Concentration per Run 2	0.4894 ppm	0.0524 ppm	0.0003 ppm	128.8657 ppm	0.0160 ppm	0.0102 ppm	-0.0007 ppm
Concentration per Run 3	0.4788 ppm	0.0518 ppm	0.0005 ppm	128.4532 ppm	0.0137 ppm	0.0113 ppm	0.0001 ppm
Concentration RSD	1.3 %	0.7 %	25.8 %	0.2 %	8.0 %	5.1 %	1,391.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.7698 ppm	0.0007 ppm	0.2115 ppm	0.0003 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 1	0.0012 ppm	0.7834 ppm	0.0007 ppm	0.2122 ppm	0.0003 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 2	-0.0021 ppm	0.7727 ppm	0.0010 ppm	0.2101 ppm	0.0006 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0003 ppm	0.7533 ppm	0.0004 ppm	0.2123 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Concentration RSD	834.7 %	2.0 %	45.9 %	0.6 %	65.6 %	141.2 %	28.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2276 ppm	107.5565 %	109.1675 %	99.8477 %	91.5125 %	98.3363 %	93.0662 %
Concentration per Run 1	0.2281 ppm	106.6416 %	109.0066 %	99.5730 %	91.4117 %	98.3678 %	93.1155 %
Concentration per Run 2	0.2285 ppm	107.0844 %	109.4841 %	100.2096 %	90.8141 %	98.4858 %	93.1093 %
Concentration per Run 3	0.2261 ppm	108.9434 %	109.0118 %	99.7604 %	92.3116 %	98.1553 %	92.9740 %
Concentration RSD	0.6 %	1.1 %	0.3 %	0.3 %	0.8 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2431819-01 WG1934483
Analysis started at: 6/15/2024 7:23:27 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0802 ppm	-0.0011 ppm	0.0018 ppm	0.0367 ppm	0.0001 ppm	2.2911 ppm
Concentration per Run 1	0.0001 ppm	0.0851 ppm	-0.0022 ppm	0.0017 ppm	0.0367 ppm	0.0001 ppm	2.2897 ppm
Concentration per Run 2	-0.0004 ppm	0.0782 ppm	-0.0023 ppm	0.0027 ppm	0.0369 ppm	0.0000 ppm	2.2942 ppm
Concentration per Run 3	0.0003 ppm	0.0772 ppm	0.0011 ppm	0.0011 ppm	0.0365 ppm	0.0001 ppm	2.2895 ppm
Concentration RSD	70,258.9 %	5.4 %	174.8 %	43.0 %	0.6 %	60.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm	0.0287 ppm	0.3423 ppm	0.0025 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0008 ppm	0.0287 ppm	0.3442 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0007 ppm	0.0293 ppm	0.3450 ppm	0.0021 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	0.0280 ppm	0.3377 ppm	0.0042 ppm
Concentration RSD	47.1 %	106.1 %	69.1 %	26.2 %	2.4 %	1.2 %	61.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1160 ppm	0.0283 ppm	-0.0015 ppm	130.8225 ppm	-0.0001 ppm	0.0612 ppm	-0.0013 ppm
Concentration per Run 1	0.1159 ppm	0.0283 ppm	-0.0011 ppm	130.5137 ppm	-0.0003 ppm	0.0604 ppm	0.0014 ppm
Concentration per Run 2	0.1173 ppm	0.0285 ppm	-0.0017 ppm	131.0398 ppm	-0.0005 ppm	0.0625 ppm	-0.0029 ppm
Concentration per Run 3	0.1148 ppm	0.0283 ppm	-0.0016 ppm	130.9139 ppm	0.0005 ppm	0.0608 ppm	-0.0025 ppm
Concentration RSD	1.1 %	0.4 %	22.3 %	0.2 %	672.4 %	1.8 %	181.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.2248 ppm	0.0011 ppm	0.0069 ppm	0.0004 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0014 ppm	0.2253 ppm	0.0006 ppm	0.0067 ppm	0.0003 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0006 ppm	0.2191 ppm	0.0018 ppm	0.0068 ppm	0.0003 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.2298 ppm	0.0007 ppm	0.0071 ppm	0.0006 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	1,003.4 %	2.4 %	63.1 %	2.8 %	42.3 %	263.2 %	137.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0313 ppm	108.9152 %	109.1686 %	102.0974 %	92.2182 %	98.3976 %	94.2910 %
Concentration per Run 1	0.0313 ppm	107.7375 %	109.3100 %	101.7787 %	91.8166 %	98.7368 %	94.0921 %
Concentration per Run 2	0.0314 ppm	109.2829 %	108.9323 %	102.6676 %	92.5175 %	97.9676 %	94.8494 %
Concentration per Run 3	0.0314 ppm	109.7253 %	109.2634 %	101.8458 %	92.3204 %	98.4884 %	93.9314 %
Concentration RSD	0.2 %	1.0 %	0.2 %	0.5 %	0.4 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432678-01 WG1934483
Analysis started at: 6/15/2024 7:27:26 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0465 ppm	0.0013 ppm	0.0792 ppm	0.0049 ppm	0.0000 ppm	8.2245 ppm
Concentration per Run 1	-0.0003 ppm	0.0448 ppm	0.0026 ppm	0.0781 ppm	0.0049 ppm	0.0000 ppm	8.2507 ppm
Concentration per Run 2	-0.0003 ppm	0.0493 ppm	0.0007 ppm	0.0799 ppm	0.0049 ppm	0.0000 ppm	8.2489 ppm
Concentration per Run 3	-0.0002 ppm	0.0455 ppm	0.0006 ppm	0.0797 ppm	0.0048 ppm	0.0000 ppm	8.1739 ppm
Concentration RSD	26.5 %	5.2 %	85.9 %	1.2 %	0.8 %	92.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0129 ppm	0.0214 ppm	1.0851 ppm	0.0027 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	-0.0002 ppm	0.0131 ppm	0.0241 ppm	1.1089 ppm	0.0029 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0129 ppm	0.0197 ppm	1.0941 ppm	0.0027 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	-0.0003 ppm	0.0127 ppm	0.0204 ppm	1.0522 ppm	0.0026 ppm
Concentration RSD	15.7 %	41.3 %	265.7 %	1.5 %	11.2 %	2.7 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.3653 ppm	0.4877 ppm	-0.0012 ppm	117.0977 ppm	0.0068 ppm	-0.0006 ppm	-0.0018 ppm
Concentration per Run 1	3.3790 ppm	0.4891 ppm	-0.0016 ppm	116.9567 ppm	0.0071 ppm	-0.0011 ppm	-0.0007 ppm
Concentration per Run 2	3.3700 ppm	0.4891 ppm	-0.0007 ppm	117.6318 ppm	0.0064 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 3	3.3468 ppm	0.4849 ppm	-0.0014 ppm	116.7045 ppm	0.0068 ppm	-0.0005 ppm	-0.0017 ppm
Concentration RSD	0.5 %	0.5 %	36.6 %	0.4 %	5.4 %	96.1 %	61.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.3335 ppm	0.0022 ppm	0.0267 ppm	0.0003 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	0.0018 ppm	0.3353 ppm	0.0000 ppm	0.0269 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0014 ppm	0.3337 ppm	0.0017 ppm	0.0268 ppm	0.0002 ppm	0.0018 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	0.3316 ppm	0.0050 ppm	0.0263 ppm	0.0002 ppm	0.0014 ppm	0.0006 ppm
Concentration RSD	155.9 %	0.6 %	115.0 %	1.1 %	71.3 %	120.0 %	64.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0428 ppm	108.9190 %	110.1825 %	101.9761 %	92.7853 %	99.4301 %	94.5399 %
Concentration per Run 1	0.0433 ppm	107.7418 %	109.7123 %	101.9582 %	92.3535 %	98.7868 %	94.8068 %
Concentration per Run 2	0.0430 ppm	109.1390 %	109.4501 %	102.2878 %	92.8611 %	98.7541 %	94.9032 %
Concentration per Run 3	0.0421 ppm	109.8762 %	111.3849 %	101.6824 %	93.1414 %	100.7493 %	93.9096 %
Concentration RSD	1.5 %	1.0 %	1.0 %	0.3 %	0.4 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 7:31:25 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5121 ppm	0.5068 ppm	0.4747 ppm	0.5035 ppm	0.5077 ppm	0.5111 ppm	0.5100 ppm
Concentration per Run 1	0.5171 ppm	0.5146 ppm	0.4800 ppm	0.5105 ppm	0.5064 ppm	0.5129 ppm	0.5111 ppm
Concentration per Run 2	0.5120 ppm	0.5036 ppm	0.4722 ppm	0.5010 ppm	0.5080 ppm	0.5103 ppm	0.5089 ppm
Concentration per Run 3	0.5071 ppm	0.5021 ppm	0.4719 ppm	0.4992 ppm	0.5087 ppm	0.5102 ppm	0.5102 ppm
Recovery Percentage 1	102.412 %	101.351 %	94.939 %	100.707 %	101.536 %	102.227 %	102.009 %
Concentration RSD	1.0 %	1.3 %	1.0 %	1.2 %	0.2 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5096 ppm	0.5195 ppm	0.5014 ppm	0.5063 ppm	0.5387 ppm	5.2171 ppm	0.5010 ppm
Concentration per Run 1	0.5169 ppm	0.5268 ppm	0.5079 ppm	0.5147 ppm	0.5391 ppm	5.2630 ppm	0.5103 ppm
Concentration per Run 2	0.5071 ppm	0.5163 ppm	0.4992 ppm	0.5041 ppm	0.5397 ppm	5.2182 ppm	0.4952 ppm
Concentration per Run 3	0.5047 ppm	0.5154 ppm	0.4970 ppm	0.5001 ppm	0.5374 ppm	5.1701 ppm	0.4976 ppm
Recovery Percentage 1	101.914 %	103.895 %	100.276 %	101.258 %	107.748 %	104.342 %	100.207 %
Concentration RSD	1.3 %	1.2 %	1.1 %	1.5 %	0.2 %	0.9 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5122 ppm	0.4974 ppm	0.5027 ppm	10.2781 ppm	0.5140 ppm	0.4965 ppm	0.4894 ppm
Concentration per Run 1	0.5196 ppm	0.4988 ppm	0.5024 ppm	10.2884 ppm	0.5207 ppm	0.5021 ppm	0.4973 ppm
Concentration per Run 2	0.5099 ppm	0.4981 ppm	0.5011 ppm	10.2851 ppm	0.5114 ppm	0.4975 ppm	0.4835 ppm
Concentration per Run 3	0.5070 ppm	0.4953 ppm	0.5044 ppm	10.2608 ppm	0.5098 ppm	0.4899 ppm	0.4873 ppm
Recovery Percentage 1	102.433 %	99.476 %	100.531 %	102.781 %	102.791 %	99.303 %	97.873 %
Concentration RSD	1.3 %	0.4 %	0.3 %	0.1 %	1.1 %	1.2 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4820 ppm	5.2141 ppm	0.5125 ppm	0.5115 ppm	0.5098 ppm	0.5029 ppm	0.5031 ppm
Concentration per Run 1	0.4863 ppm	5.2533 ppm	0.5119 ppm	0.5124 ppm	0.5157 ppm	0.5094 ppm	0.5125 ppm
Concentration per Run 2	0.4845 ppm	5.2097 ppm	0.5121 ppm	0.5102 ppm	0.5073 ppm	0.5021 ppm	0.5005 ppm
Concentration per Run 3	0.4751 ppm	5.1795 ppm	0.5134 ppm	0.5120 ppm	0.5065 ppm	0.4971 ppm	0.4963 ppm
Recovery Percentage 1	96.394 %	99.317 %	102.494 %	102.306 %	101.963 %	100.571 %	100.617 %
Concentration RSD	1.2 %	0.7 %	0.2 %	0.2 %	1.0 %	1.2 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5100 ppm	109.2730 %	110.3507 %	107.4023 %	97.7795 %	101.1042 %	99.1879 %
Concentration per Run 1	0.5179 ppm	107.3779 %	109.7684 %	106.7858 %	97.3118 %	100.9481 %	99.2781 %
Concentration per Run 2	0.5071 ppm	110.0671 %	110.8338 %	107.4321 %	98.3001 %	101.2808 %	99.1291 %
Concentration per Run 3	0.5050 ppm	110.3738 %	110.4500 %	107.9888 %	97.7267 %	101.0837 %	99.1566 %
Recovery Percentage 1	102.001 %						
Concentration RSD	1.3 %	1.5 %	0.5 %	0.6 %	0.5 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 7:35:24 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0062 ppm	-0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	-0.0002 ppm	0.0053 ppm	-0.0001 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.0132 ppm	-0.0002 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Recovery Percentage 1	-3.130 %	6.226 %	-26.961 %	1.022 %	-0.454 %	0.041 %	1.060 %
Concentration RSD	129.3 %	104.7 %	136.8 %	435.8 %	379.2 %	1,297.0 %	73.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0059 ppm	-0.0445 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0074 ppm	-0.0408 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0052 ppm	-0.0433 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0051 ppm	-0.0493 ppm	-0.0007 ppm
Recovery Percentage 1	0.164 %	0.750 %	-4.299 %	1.854 %	11.740 %	-1.779 %	6.741 %
Concentration RSD	786.9 %	188.0 %	29.4 %	115.1 %	22.0 %	9.8 %	171.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0001 ppm	-0.0006 ppm	-0.0298 ppm	-0.0008 ppm	-0.0007 ppm	-0.0014 ppm
Concentration per Run 1	-0.0027 ppm	-0.0002 ppm	-0.0006 ppm	-0.0273 ppm	-0.0011 ppm	-0.0010 ppm	-0.0010 ppm
Concentration per Run 2	-0.0019 ppm	0.0001 ppm	-0.0002 ppm	-0.0329 ppm	-0.0009 ppm	-0.0007 ppm	-0.0020 ppm
Concentration per Run 3	-0.0008 ppm	0.0003 ppm	-0.0009 ppm	-0.0291 ppm	-0.0004 ppm	-0.0003 ppm	-0.0014 ppm
Recovery Percentage 1	-1.791 %	0.780 %	-1.113 %	-1.488 %	-3.131 %	-6.625 %	-2.865 %
Concentration RSD	55.5 %	293.2 %	58.9 %	9.5 %	48.4 %	53.7 %	34.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0101 ppm	-0.0011 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	-0.0078 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0005 ppm	-0.0111 ppm	-0.0007 ppm	-0.0002 ppm	-0.0005 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	-0.0114 ppm	-0.0023 ppm	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0002 ppm
Recovery Percentage 1	1.903 %	-2.017 %	-2.290 %	-0.922 %	-2.713 %	3.658 %	1.321 %
Concentration RSD	177.4 %	19.7 %	84.6 %	101.0 %	81.6 %	14.3 %	181.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	99.1184 %	101.4118 %	100.5472 %	99.2512 %	101.4572 %	100.4580 %
Concentration per Run 1	0.0007 ppm	97.3627 %	100.4359 %	99.7395 %	98.5060 %	101.3296 %	100.8249 %
Concentration per Run 2	0.0004 ppm	99.1703 %	101.9289 %	100.6730 %	99.4771 %	101.7496 %	100.7268 %
Concentration per Run 3	0.0006 ppm	100.8223 %	101.8707 %	101.2292 %	99.7703 %	101.2925 %	99.8222 %
Recovery Percentage 1	11.209 %						
Concentration RSD	22.4 %	1.7 %	0.8 %	0.7 %	0.7 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-01d2 WG1934069
Analysis started at: 6/15/2024 7:40:17 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	155.8262 ppm	0.1589 ppm	0.0075 ppm	0.7806 ppm	0.0057 ppm	8.3612 ppm
Concentration per Run 1	0.0006 ppm	156.0365 ppm	0.1594 ppm	0.0075 ppm	0.7819 ppm	0.0056 ppm	8.3692 ppm
Concentration per Run 2	0.0008 ppm	155.4446 ppm	0.1622 ppm	0.0080 ppm	0.7843 ppm	0.0058 ppm	8.3448 ppm
Concentration per Run 3	0.0001 ppm	155.9975 ppm	0.1552 ppm	0.0069 ppm	0.7756 ppm	0.0056 ppm	8.3697 ppm
Concentration RSD	71.0 %	0.2 %	2.2 %	7.8 %	0.6 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0905 ppm	0.2991 ppm	0.1632 ppm	198.9065 ppm	8.8550 ppm	0.1377 ppm
Concentration per Run 1	0.0021 ppm	0.0921 ppm	0.3032 ppm	0.1658 ppm	198.4370 ppm	8.8971 ppm	0.1410 ppm
Concentration per Run 2	0.0019 ppm	0.0905 ppm	0.2991 ppm	0.1629 ppm	200.2049 ppm	8.8427 ppm	0.1367 ppm
Concentration per Run 3	0.0021 ppm	0.0890 ppm	0.2951 ppm	0.1608 ppm	198.0777 ppm	8.8253 ppm	0.1354 ppm
Concentration RSD	4.2 %	1.7 %	1.4 %	1.5 %	0.6 %	0.4 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.7506 ppm	4.6071 ppm	0.0019 ppm	0.3323 ppm	0.1697 ppm	0.5431 ppm	0.0034 ppm
Concentration per Run 1	45.5053 ppm	4.6148 ppm	0.0022 ppm	0.3374 ppm	0.1707 ppm	0.5470 ppm	0.0063 ppm
Concentration per Run 2	44.6406 ppm	4.5980 ppm	0.0019 ppm	0.3329 ppm	0.1701 ppm	0.5453 ppm	0.0023 ppm
Concentration per Run 3	44.1060 ppm	4.6086 ppm	0.0015 ppm	0.3268 ppm	0.1683 ppm	0.5369 ppm	0.0017 ppm
Concentration RSD	1.6 %	0.2 %	17.0 %	1.6 %	0.7 %	1.0 %	73.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.9537 ppm	0.0084 ppm	0.0486 ppm	5.5336 ppm	0.0041 ppm	0.3151 ppm
Concentration per Run 1	0.0027 ppm	5.0286 ppm	0.0072 ppm	0.0486 ppm	5.6007 ppm	0.0030 ppm	0.3199 ppm
Concentration per Run 2	0.0063 ppm	4.9729 ppm	0.0084 ppm	0.0490 ppm	5.5412 ppm	0.0054 ppm	0.3143 ppm
Concentration per Run 3	-0.0039 ppm	4.8594 ppm	0.0095 ppm	0.0483 ppm	5.4590 ppm	0.0040 ppm	0.3110 ppm
Concentration RSD	302.0 %	1.7 %	13.7 %	0.8 %	1.3 %	29.7 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6035 ppm	111.8985 %	119.4758 %	98.4490 %	127.5863 %	141.3437 %	132.1295 %
Concentration per Run 1	0.6127 ppm	109.5475 %	119.5493 %	97.5057 %	126.7897 %	141.8133 %	131.7731 %
Concentration per Run 2	0.6040 ppm	112.5220 %	119.3002 %	98.2484 %	128.1442 %	141.0070 %	132.1036 %
Concentration per Run 3	0.5940 ppm	113.6261 %	119.5778 %	99.5928 %	127.8251 %	141.2108 %	132.5117 %
Concentration RSD	1.6 %	1.9 %	0.1 %	1.1 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-02d2 WG1934069
Analysis started at: 6/15/2024 7:44:16 PM
Rack 2
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	129.2605 ppm	0.0400 ppm	0.0034 ppm	0.7596 ppm	0.0029 ppm	8.3561 ppm
Concentration per Run 1	-0.0003 ppm	130.0615 ppm	0.0403 ppm	0.0031 ppm	0.7615 ppm	0.0027 ppm	8.3610 ppm
Concentration per Run 2	0.0002 ppm	129.2051 ppm	0.0398 ppm	0.0046 ppm	0.7601 ppm	0.0031 ppm	8.3695 ppm
Concentration per Run 3	-0.0001 ppm	128.5148 ppm	0.0398 ppm	0.0027 ppm	0.7572 ppm	0.0031 ppm	8.3377 ppm
Concentration RSD	264.0 %	0.6 %	0.7 %	30.4 %	0.3 %	7.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0900 ppm	0.2140 ppm	0.1840 ppm	196.2470 ppm	34.8384 ppm	0.1415 ppm
Concentration per Run 1	0.0016 ppm	0.0909 ppm	0.2161 ppm	0.1857 ppm	196.2000 ppm	35.0969 ppm	0.1449 ppm
Concentration per Run 2	0.0015 ppm	0.0902 ppm	0.2143 ppm	0.1840 ppm	196.7150 ppm	34.7712 ppm	0.1409 ppm
Concentration per Run 3	0.0018 ppm	0.0889 ppm	0.2117 ppm	0.1824 ppm	195.8260 ppm	34.6471 ppm	0.1388 ppm
Concentration RSD	10.5 %	1.2 %	1.0 %	0.9 %	0.2 %	0.7 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.2287 ppm	2.2808 ppm	-0.0002 ppm	0.5522 ppm	0.1654 ppm	0.1286 ppm	0.0013 ppm
Concentration per Run 1	55.7624 ppm	2.2883 ppm	0.0002 ppm	0.5511 ppm	0.1667 ppm	0.1303 ppm	0.0021 ppm
Concentration per Run 2	55.2708 ppm	2.2834 ppm	-0.0005 ppm	0.5541 ppm	0.1660 ppm	0.1273 ppm	-0.0017 ppm
Concentration per Run 3	54.6528 ppm	2.2706 ppm	-0.0004 ppm	0.5513 ppm	0.1634 ppm	0.1284 ppm	0.0036 ppm
Concentration RSD	1.0 %	0.4 %	189.2 %	0.3 %	1.0 %	1.2 %	208.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	4.0443 ppm	0.0062 ppm	0.0300 ppm	10.3048 ppm	0.0103 ppm	0.3027 ppm
Concentration per Run 1	0.0008 ppm	4.0730 ppm	0.0054 ppm	0.0296 ppm	10.3933 ppm	0.0100 ppm	0.3074 ppm
Concentration per Run 2	-0.0040 ppm	4.0444 ppm	0.0069 ppm	0.0301 ppm	10.3177 ppm	0.0110 ppm	0.3028 ppm
Concentration per Run 3	-0.0008 ppm	4.0154 ppm	0.0062 ppm	0.0302 ppm	10.2033 ppm	0.0098 ppm	0.2981 ppm
Concentration RSD	182.8 %	0.7 %	12.7 %	1.1 %	0.9 %	6.2 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4753 ppm	111.2631 %	116.3862 %	93.2509 %	109.4938 %	117.9458 %	110.6167 %
Concentration per Run 1	0.4795 ppm	109.8015 %	116.3073 %	92.4892 %	109.0748 %	118.1619 %	109.9880 %
Concentration per Run 2	0.4783 ppm	111.0609 %	116.4472 %	93.9213 %	109.3979 %	118.2863 %	111.4073 %
Concentration per Run 3	0.4681 ppm	112.9269 %	116.4042 %	93.3422 %	110.0086 %	117.3893 %	110.4547 %
Concentration RSD	1.3 %	1.4 %	0.1 %	0.8 %	0.4 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-05d2 WG1934069
Analysis started at: 6/15/2024 7:48:16 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	156.3595 ppm	0.2052 ppm	0.0062 ppm	0.7195 ppm	0.0050 ppm	8.0656 ppm
Concentration per Run 1	0.0005 ppm	156.6636 ppm	0.2088 ppm	0.0075 ppm	0.7240 ppm	0.0050 ppm	8.0839 ppm
Concentration per Run 2	0.0013 ppm	156.4516 ppm	0.2017 ppm	0.0046 ppm	0.7169 ppm	0.0050 ppm	8.0565 ppm
Concentration per Run 3	0.0006 ppm	155.9634 ppm	0.2051 ppm	0.0064 ppm	0.7175 ppm	0.0050 ppm	8.0565 ppm
Concentration RSD	53.3 %	0.2 %	1.7 %	24.1 %	0.5 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.0853 ppm	0.2964 ppm	0.1605 ppm	202.0243 ppm	9.6206 ppm	0.1397 ppm
Concentration per Run 1	0.0030 ppm	0.0869 ppm	0.2995 ppm	0.1622 ppm	203.2289 ppm	9.7262 ppm	0.1436 ppm
Concentration per Run 2	0.0025 ppm	0.0849 ppm	0.2962 ppm	0.1604 ppm	201.2261 ppm	9.5680 ppm	0.1378 ppm
Concentration per Run 3	0.0027 ppm	0.0841 ppm	0.2934 ppm	0.1591 ppm	201.6179 ppm	9.5676 ppm	0.1378 ppm
Concentration RSD	9.3 %	1.7 %	1.0 %	1.0 %	0.5 %	1.0 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	45.1918 ppm	3.9617 ppm	0.0015 ppm	0.3008 ppm	0.1685 ppm	0.6746 ppm	0.0006 ppm
Concentration per Run 1	45.7982 ppm	3.9656 ppm	0.0020 ppm	0.3012 ppm	0.1705 ppm	0.6820 ppm	0.0010 ppm
Concentration per Run 2	45.0741 ppm	3.9609 ppm	0.0015 ppm	0.3009 ppm	0.1685 ppm	0.6706 ppm	-0.0001 ppm
Concentration per Run 3	44.7033 ppm	3.9586 ppm	0.0011 ppm	0.3001 ppm	0.1663 ppm	0.6713 ppm	0.0008 ppm
Concentration RSD	1.2 %	0.1 %	31.3 %	0.2 %	1.3 %	1.0 %	107.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	5.0873 ppm	0.0091 ppm	0.0504 ppm	6.5501 ppm	0.0038 ppm	0.3239 ppm
Concentration per Run 1	-0.0009 ppm	5.1650 ppm	0.0094 ppm	0.0507 ppm	6.6186 ppm	0.0049 ppm	0.3277 ppm
Concentration per Run 2	0.0042 ppm	5.0929 ppm	0.0085 ppm	0.0499 ppm	6.5443 ppm	0.0026 ppm	0.3223 ppm
Concentration per Run 3	-0.0009 ppm	5.0041 ppm	0.0093 ppm	0.0505 ppm	6.4875 ppm	0.0040 ppm	0.3218 ppm
Concentration RSD	376.6 %	1.6 %	5.3 %	0.8 %	1.0 %	30.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5814 ppm	113.4781 %	119.3479 %	97.6994 %	120.5011 %	132.0577 %	123.8479 %
Concentration per Run 1	0.5905 ppm	111.3371 %	118.3824 %	96.7471 %	119.5934 %	131.2711 %	123.5430 %
Concentration per Run 2	0.5807 ppm	113.9637 %	120.3476 %	98.3679 %	121.1798 %	133.1527 %	124.2643 %
Concentration per Run 3	0.5730 ppm	115.1336 %	119.3135 %	97.9833 %	120.7300 %	131.7492 %	123.7363 %
Concentration RSD	1.5 %	1.7 %	0.8 %	0.9 %	0.7 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-07 WG1934062
Analysis started at: 6/15/2024 7:52:15 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0192 ppm	0.0014 ppm	0.1532 ppm	0.3533 ppm	0.0000 ppm	53.3645 ppm
Concentration per Run 1	-0.0003 ppm	0.0164 ppm	0.0009 ppm	0.1556 ppm	0.3562 ppm	0.0000 ppm	53.6188 ppm
Concentration per Run 2	0.0000 ppm	0.0247 ppm	0.0019 ppm	0.1508 ppm	0.3524 ppm	0.0000 ppm	53.2154 ppm
Concentration per Run 3	-0.0001 ppm	0.0164 ppm	0.0013 ppm	0.1531 ppm	0.3512 ppm	0.0000 ppm	53.2594 ppm
Concentration RSD	98.7 %	24.9 %	36.7 %	1.6 %	0.7 %	177.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0017 ppm	0.0010 ppm	0.0044 ppm	0.0231 ppm	14.7719 ppm	0.0029 ppm
Concentration per Run 1	0.0022 ppm	0.0014 ppm	0.0013 ppm	0.0049 ppm	0.0245 ppm	14.9024 ppm	0.0036 ppm
Concentration per Run 2	0.0022 ppm	0.0019 ppm	0.0008 ppm	0.0039 ppm	0.0212 ppm	14.6786 ppm	0.0017 ppm
Concentration per Run 3	0.0021 ppm	0.0018 ppm	0.0010 ppm	0.0045 ppm	0.0236 ppm	14.7348 ppm	0.0033 ppm
Concentration RSD	5.1 %	17.8 %	27.2 %	11.0 %	7.4 %	0.8 %	36.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.8639 ppm	7.0194 ppm	-0.0012 ppm	373.6866 ppm	0.0216 ppm	0.0009 ppm	-0.0027 ppm
Concentration per Run 1	20.2273 ppm	7.0643 ppm	-0.0009 ppm	375.5651 ppm	0.0219 ppm	-0.0003 ppm	-0.0017 ppm
Concentration per Run 2	19.8338 ppm	7.0035 ppm	-0.0010 ppm	374.0758 ppm	0.0218 ppm	0.0025 ppm	-0.0059 ppm
Concentration per Run 3	19.5306 ppm	6.9905 ppm	-0.0017 ppm	371.4191 ppm	0.0211 ppm	0.0005 ppm	-0.0004 ppm
Concentration RSD	1.8 %	0.6 %	35.5 %	0.6 %	2.0 %	166.6 %	106.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	6.3225 ppm	-0.0014 ppm	0.4645 ppm	0.0007 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 1	0.0007 ppm	6.3938 ppm	-0.0020 ppm	0.4710 ppm	0.0008 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	6.3363 ppm	-0.0010 ppm	0.4635 ppm	0.0006 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	6.2374 ppm	-0.0014 ppm	0.4591 ppm	0.0007 ppm	-0.0004 ppm	-0.0002 ppm
Concentration RSD	2,027.7 %	1.3 %	34.6 %	1.3 %	14.1 %	96.5 %	85.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0104 ppm	91.6542 %	101.2053 %	87.5945 %	90.3849 %	101.0188 %	93.8486 %
Concentration per Run 1	0.0105 ppm	89.8689 %	101.3129 %	86.8843 %	89.2161 %	101.7476 %	94.2403 %
Concentration per Run 2	0.0106 ppm	91.9711 %	101.9314 %	87.6233 %	90.8711 %	101.5360 %	93.7659 %
Concentration per Run 3	0.0101 ppm	93.1226 %	100.3716 %	88.2760 %	91.0674 %	99.7727 %	93.5397 %
Concentration RSD	2.2 %	1.8 %	0.8 %	0.8 %	1.1 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-08 WG1934062
Analysis started at: 6/15/2024 7:56:14 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0052 ppm	-0.0011 ppm	0.2779 ppm	0.1280 ppm	0.0000 ppm	76.1233 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.2812 ppm	0.1290 ppm	0.0000 ppm	76.7866 ppm
Concentration per Run 2	0.0001 ppm	0.0059 ppm	-0.0008 ppm	0.2740 ppm	0.1277 ppm	0.0000 ppm	75.9731 ppm
Concentration per Run 3	-0.0002 ppm	0.0096 ppm	-0.0014 ppm	0.2784 ppm	0.1272 ppm	0.0000 ppm	75.6101 ppm
Concentration RSD	730.9 %	93.9 %	26.7 %	1.3 %	0.7 %	223.1 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0009 ppm	0.0010 ppm	0.0027 ppm	0.0194 ppm	9.1140 ppm	0.0029 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0015 ppm	0.0027 ppm	0.0189 ppm	9.2708 ppm	0.0038 ppm
Concentration per Run 2	0.0002 ppm	0.0006 ppm	0.0006 ppm	0.0028 ppm	0.0202 ppm	9.0864 ppm	0.0031 ppm
Concentration per Run 3	0.0001 ppm	0.0012 ppm	0.0010 ppm	0.0025 ppm	0.0191 ppm	8.9849 ppm	0.0017 ppm
Concentration RSD	48.5 %	33.2 %	44.9 %	4.5 %	3.5 %	1.6 %	36.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.9046 ppm	0.5340 ppm	-0.0013 ppm	249.2400 ppm	0.0064 ppm	0.0004 ppm	-0.0017 ppm
Concentration per Run 1	34.6256 ppm	0.5392 ppm	-0.0017 ppm	249.9679 ppm	0.0063 ppm	-0.0002 ppm	-0.0027 ppm
Concentration per Run 2	33.8610 ppm	0.5326 ppm	-0.0010 ppm	249.4739 ppm	0.0069 ppm	0.0009 ppm	0.0013 ppm
Concentration per Run 3	33.2271 ppm	0.5302 ppm	-0.0013 ppm	248.2782 ppm	0.0060 ppm	0.0007 ppm	-0.0035 ppm
Concentration RSD	2.1 %	0.9 %	27.7 %	0.3 %	7.4 %	137.7 %	155.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	7.0530 ppm	-0.0010 ppm	0.5957 ppm	0.0001 ppm	0.0017 ppm	0.0004 ppm
Concentration per Run 1	0.0012 ppm	7.1918 ppm	-0.0007 ppm	0.5943 ppm	-0.0001 ppm	0.0017 ppm	0.0003 ppm
Concentration per Run 2	-0.0008 ppm	7.0193 ppm	-0.0008 ppm	0.5995 ppm	0.0000 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 3	-0.0015 ppm	6.9479 ppm	-0.0014 ppm	0.5934 ppm	0.0003 ppm	0.0027 ppm	0.0003 ppm
Concentration RSD	420.7 %	1.8 %	38.9 %	0.6 %	321.1 %	57.4 %	45.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0020 ppm	92.2413 %	100.9381 %	88.6250 %	90.9604 %	100.5191 %	94.0558 %
Concentration per Run 1	0.0019 ppm	90.2181 %	99.9860 %	87.6682 %	89.5957 %	100.4563 %	94.1385 %
Concentration per Run 2	0.0018 ppm	92.3172 %	101.0042 %	88.5256 %	91.1137 %	100.2970 %	93.9595 %
Concentration per Run 3	0.0022 ppm	94.1886 %	101.8240 %	89.6811 %	92.1720 %	100.8041 %	94.0694 %
Concentration RSD	11.5 %	2.2 %	0.9 %	1.1 %	1.4 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432352-01 WG1934062
Analysis started at: 6/15/2024 8:00:13 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.2956 ppm	0.0001 ppm	0.4721 ppm	0.2436 ppm	0.0000 ppm	16.8051 ppm
Concentration per Run 1	0.0001 ppm	0.2996 ppm	-0.0016 ppm	0.4751 ppm	0.2454 ppm	0.0001 ppm	16.9769 ppm
Concentration per Run 2	-0.0002 ppm	0.2908 ppm	0.0002 ppm	0.4761 ppm	0.2435 ppm	0.0000 ppm	16.8354 ppm
Concentration per Run 3	0.0000 ppm	0.2962 ppm	0.0016 ppm	0.4652 ppm	0.2418 ppm	0.0000 ppm	16.6030 ppm
Concentration RSD	1,137.9 %	1.5 %	1,884.5 %	1.3 %	0.8 %	122.0 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0193 ppm	0.0036 ppm	0.0164 ppm	0.1590 ppm	37.8953 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0190 ppm	0.0041 ppm	0.0171 ppm	0.1600 ppm	38.2180 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0197 ppm	0.0036 ppm	0.0160 ppm	0.1594 ppm	37.9352 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0191 ppm	0.0031 ppm	0.0160 ppm	0.1577 ppm	37.5326 ppm	-0.0001 ppm
Concentration RSD	178.2 %	1.8 %	13.7 %	3.6 %	0.8 %	0.9 %	201.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.0097 ppm	0.4570 ppm	-0.0006 ppm	231.3931 ppm	0.0270 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 1	5.1027 ppm	0.4590 ppm	-0.0001 ppm	232.6741 ppm	0.0277 ppm	0.0006 ppm	0.0009 ppm
Concentration per Run 2	5.0102 ppm	0.4564 ppm	-0.0008 ppm	231.9907 ppm	0.0264 ppm	0.0006 ppm	-0.0038 ppm
Concentration per Run 3	4.9161 ppm	0.4556 ppm	-0.0009 ppm	229.5145 ppm	0.0269 ppm	0.0012 ppm	0.0007 ppm
Concentration RSD	1.9 %	0.4 %	70.9 %	0.7 %	2.3 %	42.8 %	353.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	3.6129 ppm	-0.0012 ppm	0.1257 ppm	0.0021 ppm	0.0016 ppm	0.0004 ppm
Concentration per Run 1	-0.0003 ppm	3.6499 ppm	-0.0009 ppm	0.1263 ppm	0.0022 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	3.6288 ppm	-0.0019 ppm	0.1255 ppm	0.0021 ppm	0.0026 ppm	0.0005 ppm
Concentration per Run 3	-0.0021 ppm	3.5599 ppm	-0.0009 ppm	0.1254 ppm	0.0020 ppm	0.0022 ppm	0.0002 ppm
Concentration RSD	141.0 %	1.3 %	49.1 %	0.4 %	3.9 %	82.7 %	41.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0079 ppm	93.6938 %	102.7107 %	91.3077 %	92.8145 %	102.3340 %	96.7242 %
Concentration per Run 1	0.0079 ppm	92.4805 %	102.0405 %	90.3241 %	92.4149 %	102.4074 %	96.7109 %
Concentration per Run 2	0.0082 ppm	93.2632 %	102.7960 %	91.3496 %	92.4263 %	102.5209 %	96.5348 %
Concentration per Run 3	0.0075 ppm	95.3378 %	103.2956 %	92.2495 %	93.6025 %	102.0736 %	96.9268 %
Concentration RSD	4.2 %	1.6 %	0.6 %	1.1 %	0.7 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934062-3 WG1934062
Analysis started at: 6/15/2024 8:04:12 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0544 ppm	2.4126 ppm	0.1399 ppm	1.5282 ppm	2.3762 ppm	0.0549 ppm	27.2466 ppm
Concentration per Run 1	0.0545 ppm	2.4440 ppm	0.1376 ppm	1.5331 ppm	2.4159 ppm	0.0557 ppm	27.4869 ppm
Concentration per Run 2	0.0548 ppm	2.4027 ppm	0.1335 ppm	1.5317 ppm	2.3761 ppm	0.0548 ppm	27.1505 ppm
Concentration per Run 3	0.0539 ppm	2.3912 ppm	0.1487 ppm	1.5197 ppm	2.3368 ppm	0.0541 ppm	27.1023 ppm
Concentration RSD	0.9 %	1.2 %	5.6 %	0.5 %	1.7 %	1.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0585 ppm	0.5508 ppm	0.2157 ppm	0.2905 ppm	1.2454 ppm	48.2986 ppm	0.0001 ppm
Concentration per Run 1	0.0590 ppm	0.5561 ppm	0.2179 ppm	0.2930 ppm	1.2584 ppm	48.8412 ppm	-0.0002 ppm
Concentration per Run 2	0.0585 ppm	0.5519 ppm	0.2154 ppm	0.2909 ppm	1.2539 ppm	48.4266 ppm	-0.0010 ppm
Concentration per Run 3	0.0581 ppm	0.5444 ppm	0.2138 ppm	0.2876 ppm	1.2240 ppm	47.6280 ppm	0.0016 ppm
Concentration RSD	0.8 %	1.1 %	1.0 %	0.9 %	1.5 %	1.3 %	1,144.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.2715 ppm	0.9892 ppm	0.9814 ppm	239.9938 ppm	0.5582 ppm	0.5789 ppm	0.5591 ppm
Concentration per Run 1	15.4562 ppm	1.0011 ppm	0.9705 ppm	242.5933 ppm	0.5643 ppm	0.5682 ppm	0.5607 ppm
Concentration per Run 2	15.2654 ppm	0.9888 ppm	0.9799 ppm	239.6142 ppm	0.5576 ppm	0.5552 ppm	0.5619 ppm
Concentration per Run 3	15.0928 ppm	0.9776 ppm	0.9938 ppm	237.7738 ppm	0.5528 ppm	0.6134 ppm	0.5547 ppm
Concentration RSD	1.2 %	1.2 %	1.2 %	1.0 %	1.0 %	5.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1379 ppm	4.6780 ppm	0.9340 ppm	1.1807 ppm	1.0957 ppm	0.1342 ppm	0.5491 ppm
Concentration per Run 1	0.1365 ppm	4.7128 ppm	0.9315 ppm	1.1995 ppm	1.1057 ppm	0.1327 ppm	0.5530 ppm
Concentration per Run 2	0.1321 ppm	4.6646 ppm	0.9333 ppm	1.1784 ppm	1.0934 ppm	0.1290 ppm	0.5501 ppm
Concentration per Run 3	0.1451 ppm	4.6567 ppm	0.9371 ppm	1.1642 ppm	1.0881 ppm	0.1410 ppm	0.5443 ppm
Concentration RSD	4.8 %	0.6 %	0.3 %	1.5 %	0.8 %	4.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5595 ppm	97.1564 %	102.8910 %	90.0827 %	93.3603 %	102.1120 %	92.8967 %
Concentration per Run 1	0.5668 ppm	95.7693 %	101.7362 %	90.9745 %	92.7378 %	101.4555 %	95.6605 %
Concentration per Run 2	0.5573 ppm	97.3484 %	102.3095 %	93.7463 %	93.6276 %	101.5352 %	97.6998 %
Concentration per Run 3	0.5544 ppm	98.3517 %	104.6274 %	85.5274 %	93.7156 %	103.3453 %	85.3297 %
Concentration RSD	1.2 %	1.3 %	1.5 %	4.6 %	0.6 %	1.0 %	7.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934062-4 WG1934062
Analysis started at: 6/15/2024 8:08:11 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.2876 ppm	-0.0012 ppm	0.4816 ppm	0.2491 ppm	0.0000 ppm	17.1350 ppm
Concentration per Run 1	-0.0001 ppm	0.2885 ppm	0.0022 ppm	0.4887 ppm	0.2520 ppm	0.0000 ppm	17.1721 ppm
Concentration per Run 2	-0.0002 ppm	0.2838 ppm	-0.0031 ppm	0.4804 ppm	0.2498 ppm	0.0001 ppm	17.1522 ppm
Concentration per Run 3	-0.0004 ppm	0.2905 ppm	-0.0028 ppm	0.4759 ppm	0.2454 ppm	0.0000 ppm	17.0807 ppm
Concentration RSD	55.2 %	1.2 %	239.8 %	1.3 %	1.3 %	135.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0193 ppm	0.0038 ppm	0.0168 ppm	0.1650 ppm	38.6881 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0199 ppm	0.0037 ppm	0.0173 ppm	0.1650 ppm	38.8783 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0193 ppm	0.0039 ppm	0.0168 ppm	0.1671 ppm	38.9819 ppm	-0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0188 ppm	0.0037 ppm	0.0162 ppm	0.1629 ppm	38.2041 ppm	-0.0001 ppm
Concentration RSD	54.3 %	2.8 %	2.5 %	3.3 %	1.3 %	1.1 %	122.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.1028 ppm	0.4662 ppm	0.0041 ppm	236.0936 ppm	0.0280 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	5.1918 ppm	0.4685 ppm	0.0045 ppm	236.7620 ppm	0.0291 ppm	0.0024 ppm	0.0016 ppm
Concentration per Run 2	5.1125 ppm	0.4677 ppm	0.0037 ppm	236.9580 ppm	0.0273 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	5.0041 ppm	0.4624 ppm	0.0043 ppm	234.5608 ppm	0.0276 ppm	-0.0002 ppm	-0.0004 ppm
Concentration RSD	1.8 %	0.7 %	10.2 %	0.6 %	3.3 %	194.4 %	4,238.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	3.6808 ppm	0.0016 ppm	0.1278 ppm	0.0024 ppm	0.0018 ppm	0.0004 ppm
Concentration per Run 1	-0.0006 ppm	3.7101 ppm	0.0017 ppm	0.1295 ppm	0.0029 ppm	0.0020 ppm	0.0004 ppm
Concentration per Run 2	0.0024 ppm	3.6743 ppm	0.0007 ppm	0.1289 ppm	0.0023 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 3	0.0007 ppm	3.6579 ppm	0.0023 ppm	0.1251 ppm	0.0021 ppm	0.0030 ppm	0.0002 ppm
Concentration RSD	178.2 %	0.7 %	53.1 %	1.8 %	16.8 %	69.1 %	35.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0078 ppm	93.5134 %	103.6746 %	91.2384 %	92.5325 %	103.5761 %	96.3099 %
Concentration per Run 1	0.0079 ppm	91.6193 %	102.9294 %	90.2429 %	91.3306 %	103.3727 %	96.1594 %
Concentration per Run 2	0.0078 ppm	93.5523 %	103.9765 %	91.5271 %	92.8286 %	104.0917 %	96.5697 %
Concentration per Run 3	0.0077 ppm	95.3686 %	104.1178 %	91.9452 %	93.4385 %	103.2640 %	96.2007 %
Concentration RSD	1.7 %	2.0 %	0.6 %	1.0 %	1.2 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934062-5 WG1934062
Analysis started at: 6/15/2024 8:12:10 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0531 ppm	2.3368 ppm	0.1380 ppm	1.5877 ppm	2.3092 ppm	0.0532 ppm	27.0341 ppm
Concentration per Run 1	0.0534 ppm	2.3685 ppm	0.1403 ppm	1.6115 ppm	2.3145 ppm	0.0536 ppm	27.2804 ppm
Concentration per Run 2	0.0533 ppm	2.3292 ppm	0.1401 ppm	1.5891 ppm	2.3229 ppm	0.0531 ppm	26.9719 ppm
Concentration per Run 3	0.0526 ppm	2.3126 ppm	0.1335 ppm	1.5624 ppm	2.2903 ppm	0.0528 ppm	26.8501 ppm
Concentration RSD	0.8 %	1.2 %	2.8 %	1.5 %	0.7 %	0.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0596 ppm	0.5630 ppm	0.2214 ppm	0.2956 ppm	1.2157 ppm	47.4384 ppm	0.0020 ppm
Concentration per Run 1	0.0609 ppm	0.5745 ppm	0.2266 ppm	0.3008 ppm	1.2235 ppm	47.5219 ppm	0.0015 ppm
Concentration per Run 2	0.0598 ppm	0.5634 ppm	0.2210 ppm	0.2954 ppm	1.2197 ppm	47.6637 ppm	0.0015 ppm
Concentration per Run 3	0.0581 ppm	0.5511 ppm	0.2165 ppm	0.2905 ppm	1.2040 ppm	47.1296 ppm	0.0029 ppm
Concentration RSD	2.3 %	2.1 %	2.3 %	1.7 %	0.8 %	0.6 %	42.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.0323 ppm	0.9631 ppm	1.0169 ppm	235.0154 ppm	0.5737 ppm	0.5768 ppm	0.3936 ppm
Concentration per Run 1	16.3552 ppm	0.9708 ppm	1.0161 ppm	237.0510 ppm	0.5856 ppm	0.5883 ppm	0.3882 ppm
Concentration per Run 2	16.0226 ppm	0.9622 ppm	1.0180 ppm	234.2840 ppm	0.5735 ppm	0.5772 ppm	0.3967 ppm
Concentration per Run 3	15.7189 ppm	0.9562 ppm	1.0166 ppm	233.7112 ppm	0.5619 ppm	0.5648 ppm	0.3960 ppm
Concentration RSD	2.0 %	0.8 %	0.1 %	0.8 %	2.1 %	2.0 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1394 ppm	4.9883 ppm	1.0001 ppm	1.1916 ppm	1.1627 ppm	0.1327 ppm	0.5631 ppm
Concentration per Run 1	0.1407 ppm	5.0481 ppm	1.0036 ppm	1.2003 ppm	1.1825 ppm	0.1343 ppm	0.5733 ppm
Concentration per Run 2	0.1376 ppm	4.9921 ppm	0.9983 ppm	1.1917 ppm	1.1632 ppm	0.1323 ppm	0.5625 ppm
Concentration per Run 3	0.1398 ppm	4.9248 ppm	0.9984 ppm	1.1828 ppm	1.1426 ppm	0.1314 ppm	0.5537 ppm
Concentration RSD	1.2 %	1.2 %	0.3 %	0.7 %	1.7 %	1.1 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5754 ppm	95.5075 %	105.5475 %	90.9905 %	93.1539 %	103.4177 %	96.0851 %
Concentration per Run 1	0.5894 ppm	93.4593 %	104.9060 %	89.4459 %	92.0216 %	103.8416 %	95.8067 %
Concentration per Run 2	0.5735 ppm	95.8984 %	105.2030 %	90.9391 %	93.7968 %	102.8521 %	96.0578 %
Concentration per Run 3	0.5632 ppm	97.1647 %	106.5335 %	92.5864 %	93.6432 %	103.5593 %	96.3906 %
Concentration RSD	2.3 %	2.0 %	0.8 %	1.7 %	1.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934062-6d5 WG1934062
Analysis started at: 6/15/2024 8:16:08 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0568 ppm	-0.0009 ppm	0.0822 ppm	0.0448 ppm	0.0000 ppm	3.0906 ppm
Concentration per Run 1	-0.0003 ppm	0.0596 ppm	0.0012 ppm	0.0844 ppm	0.0452 ppm	0.0000 ppm	3.1091 ppm
Concentration per Run 2	-0.0001 ppm	0.0550 ppm	-0.0015 ppm	0.0824 ppm	0.0449 ppm	0.0000 ppm	3.0897 ppm
Concentration per Run 3	0.0000 ppm	0.0557 ppm	-0.0024 ppm	0.0799 ppm	0.0442 ppm	0.0000 ppm	3.0730 ppm
Concentration RSD	98.7 %	4.4 %	203.7 %	2.8 %	1.1 %	73.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0036 ppm	0.0005 ppm	0.0034 ppm	0.0328 ppm	6.9730 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0036 ppm	0.0004 ppm	0.0040 ppm	0.0336 ppm	7.0325 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0035 ppm	0.0008 ppm	0.0030 ppm	0.0320 ppm	6.9595 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0036 ppm	0.0002 ppm	0.0032 ppm	0.0328 ppm	6.9270 ppm	-0.0035 ppm
Concentration RSD	179.3 %	1.9 %	62.0 %	15.5 %	2.4 %	0.8 %	235.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8959 ppm	0.0838 ppm	0.0038 ppm	43.7250 ppm	0.0043 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	0.9111 ppm	0.0840 ppm	0.0036 ppm	43.7973 ppm	0.0045 ppm	0.0005 ppm	0.0017 ppm
Concentration per Run 2	0.8930 ppm	0.0842 ppm	0.0046 ppm	43.7070 ppm	0.0039 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 3	0.8836 ppm	0.0832 ppm	0.0033 ppm	43.6707 ppm	0.0045 ppm	-0.0005 ppm	0.0031 ppm
Concentration RSD	1.6 %	0.7 %	17.2 %	0.1 %	7.9 %	7,716.2 %	45.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	0.6214 ppm	0.0037 ppm	0.0229 ppm	0.0006 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.6269 ppm	0.0042 ppm	0.0230 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.6279 ppm	0.0037 ppm	0.0229 ppm	0.0008 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 3	-0.0012 ppm	0.6093 ppm	0.0034 ppm	0.0227 ppm	0.0003 ppm	0.0010 ppm	0.0002 ppm
Concentration RSD	137.8 %	1.7 %	11.2 %	0.6 %	46.9 %	96.3 %	317.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	101.7012 %	106.5955 %	100.9298 %	96.5518 %	101.8589 %	98.4860 %
Concentration per Run 1	0.0016 ppm	99.4462 %	106.0872 %	100.0893 %	95.4616 %	101.8934 %	98.9599 %
Concentration per Run 2	0.0018 ppm	101.9985 %	105.7003 %	100.9495 %	96.9461 %	100.8654 %	98.0680 %
Concentration per Run 3	0.0015 ppm	103.6588 %	107.9992 %	101.7505 %	97.2476 %	102.8180 %	98.4300 %
Concentration RSD	10.2 %	2.1 %	1.2 %	0.8 %	1.0 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 8:20:07 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5154 ppm	0.5115 ppm	0.4801 ppm	0.5075 ppm	0.5093 ppm	0.5143 ppm	0.5115 ppm
Concentration per Run 1	0.5223 ppm	0.5095 ppm	0.4826 ppm	0.5182 ppm	0.5117 ppm	0.5174 ppm	0.5110 ppm
Concentration per Run 2	0.5154 ppm	0.5109 ppm	0.4803 ppm	0.5058 ppm	0.5096 ppm	0.5138 ppm	0.5127 ppm
Concentration per Run 3	0.5087 ppm	0.5140 ppm	0.4775 ppm	0.4985 ppm	0.5066 ppm	0.5116 ppm	0.5109 ppm
Recovery Percentage 1	103.088 %	102.294 %	96.026 %	101.494 %	101.860 %	102.851 %	102.309 %
Concentration RSD	1.3 %	0.4 %	0.5 %	2.0 %	0.5 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5137 ppm	0.5220 ppm	0.5040 ppm	0.5106 ppm	0.5425 ppm	5.2487 ppm	0.5020 ppm
Concentration per Run 1	0.5239 ppm	0.5333 ppm	0.5142 ppm	0.5181 ppm	0.5474 ppm	5.3195 ppm	0.5079 ppm
Concentration per Run 2	0.5128 ppm	0.5204 ppm	0.5033 ppm	0.5102 ppm	0.5386 ppm	5.2275 ppm	0.5011 ppm
Concentration per Run 3	0.5043 ppm	0.5124 ppm	0.4945 ppm	0.5035 ppm	0.5414 ppm	5.1992 ppm	0.4971 ppm
Recovery Percentage 1	102.734 %	104.409 %	100.804 %	102.121 %	108.498 %	104.975 %	100.409 %
Concentration RSD	1.9 %	2.0 %	2.0 %	1.4 %	0.8 %	1.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5150 ppm	0.4995 ppm	0.5093 ppm	10.3368 ppm	0.5182 ppm	0.4983 ppm	0.5045 ppm
Concentration per Run 1	0.5234 ppm	0.5012 ppm	0.5148 ppm	10.3523 ppm	0.5283 ppm	0.5011 ppm	0.5162 ppm
Concentration per Run 2	0.5168 ppm	0.4989 ppm	0.5096 ppm	10.3509 ppm	0.5194 ppm	0.4974 ppm	0.5020 ppm
Concentration per Run 3	0.5047 ppm	0.4985 ppm	0.5035 ppm	10.3073 ppm	0.5070 ppm	0.4965 ppm	0.4954 ppm
Recovery Percentage 1	102.999 %	99.906 %	101.864 %	103.368 %	103.639 %	99.666 %	100.907 %
Concentration RSD	1.8 %	0.3 %	1.1 %	0.2 %	2.1 %	0.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4856 ppm	5.2512 ppm	0.5183 ppm	0.5144 ppm	0.5134 ppm	0.5080 ppm	0.5061 ppm
Concentration per Run 1	0.4852 ppm	5.3147 ppm	0.5209 ppm	0.5177 ppm	0.5212 ppm	0.5085 ppm	0.5148 ppm
Concentration per Run 2	0.4869 ppm	5.2593 ppm	0.5172 ppm	0.5133 ppm	0.5132 ppm	0.5094 ppm	0.5048 ppm
Concentration per Run 3	0.4848 ppm	5.1797 ppm	0.5168 ppm	0.5121 ppm	0.5058 ppm	0.5060 ppm	0.4988 ppm
Recovery Percentage 1	97.128 %	100.023 %	103.659 %	102.882 %	102.676 %	101.593 %	101.224 %
Concentration RSD	0.2 %	1.3 %	0.4 %	0.6 %	1.5 %	0.3 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5137 ppm	108.4523 %	109.7890 %	106.6745 %	97.5430 %	100.6394 %	98.4474 %
Concentration per Run 1	0.5245 ppm	106.1825 %	108.7905 %	106.1580 %	96.6162 %	100.0703 %	98.7522 %
Concentration per Run 2	0.5141 ppm	108.3980 %	110.3206 %	106.6771 %	97.6258 %	101.0798 %	98.3217 %
Concentration per Run 3	0.5023 ppm	110.7763 %	110.2559 %	107.1882 %	98.3870 %	100.7680 %	98.2684 %
Recovery Percentage 1	102.734 %						
Concentration RSD	2.2 %	2.1 %	0.8 %	0.5 %	0.9 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 8:24:06 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0064 ppm	0.0008 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	-0.0002 ppm	0.0086 ppm	-0.0006 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0082 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 3	-0.0004 ppm	0.0022 ppm	0.0017 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Recovery Percentage 1	-3.346 %	6.361 %	25.399 %	-1.579 %	0.178 %	0.485 %	1.633 %
Concentration RSD	47.3 %	56.2 %	156.9 %	122.9 %	411.5 %	91.0 %	58.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0050 ppm	-0.0342 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0052 ppm	-0.0591 ppm	-0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0051 ppm	-0.0120 ppm	0.0019 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0047 ppm	-0.0315 ppm	0.0018 ppm
Recovery Percentage 1	-0.260 %	0.180 %	0.330 %	2.769 %	9.992 %	-1.369 %	5.500 %
Concentration RSD	1,167.4 %	1,165.7 %	152.5 %	35.6 %	6.0 %	69.2 %	406.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0000 ppm	-0.0003 ppm	-0.0087 ppm	-0.0003 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 1	-0.0008 ppm	-0.0001 ppm	-0.0004 ppm	-0.0100 ppm	0.0002 ppm	-0.0002 ppm	-0.0012 ppm
Concentration per Run 2	-0.0021 ppm	0.0000 ppm	-0.0005 ppm	-0.0080 ppm	-0.0003 ppm	0.0001 ppm	-0.0032 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	-0.0001 ppm	-0.0081 ppm	-0.0007 ppm	0.0000 ppm	-0.0008 ppm
Recovery Percentage 1	-1.181 %	0.431 %	-0.628 %	-0.435 %	-1.175 %	-0.265 %	-3.495 %
Concentration RSD	68.7 %	469.1 %	64.5 %	12.7 %	161.6 %	542.6 %	70.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	-0.0087 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0008 ppm	-0.0080 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	-0.0013 ppm	0.0003 ppm
Concentration per Run 2	-0.0010 ppm	-0.0098 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	-0.0084 ppm	-0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0003 ppm
Recovery Percentage 1	1.416 %	-1.748 %	0.013 %	0.406 %	-2.254 %	-0.358 %	1.620 %
Concentration RSD	728.4 %	10.5 %	4,827.4 %	303.3 %	11.2 %	1,532.3 %	115.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	99.3183 %	101.8211 %	100.3857 %	99.4714 %	102.0292 %	100.5645 %
Concentration per Run 1	0.0009 ppm	97.7207 %	102.1911 %	98.9581 %	98.6773 %	103.0371 %	100.4228 %
Concentration per Run 2	0.0005 ppm	99.2069 %	101.2892 %	100.7620 %	99.4507 %	101.5084 %	100.7227 %
Concentration per Run 3	0.0007 ppm	101.0274 %	101.9831 %	101.4372 %	100.2861 %	101.5421 %	100.5481 %
Recovery Percentage 1	13.622 %						
Concentration RSD	30.9 %	1.7 %	0.5 %	1.3 %	0.8 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934069-1 WG1934069
Analysis started at: 6/15/2024 8:29:13 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0155 ppm	-0.0002 ppm	-0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0154 ppm
Concentration per Run 1	-0.0003 ppm	0.0165 ppm	-0.0001 ppm	-0.0010 ppm	0.0002 ppm	-0.0001 ppm	0.0186 ppm
Concentration per Run 2	0.0000 ppm	0.0121 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0170 ppm
Concentration per Run 3	-0.0002 ppm	0.0179 ppm	-0.0001 ppm	-0.0013 ppm	0.0003 ppm	0.0001 ppm	0.0107 ppm
Recovery Percentage 1	-2.561 %	15.475 %	-5.992 %	-3.002 %	2.799 %	0.292 %	15.395 %
Concentration RSD	87.4 %	19.4 %	75.9 %	56.2 %	37.9 %	538.5 %	27.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0275 ppm	-0.0304 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0007 ppm	0.0269 ppm	-0.0475 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0269 ppm	-0.0188 ppm	-0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0286 ppm	-0.0249 ppm	0.0022 ppm
Recovery Percentage 1	-0.782 %	1.941 %	0.834 %	5.829 %	54.956 %	-1.216 %	4.078 %
Concentration RSD	124.4 %	50.0 %	57.2 %	15.9 %	3.6 %	49.7 %	466.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0056 ppm	0.0005 ppm	-0.0015 ppm	0.0040 ppm	-0.0003 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 1	0.0062 ppm	0.0006 ppm	-0.0015 ppm	0.0009 ppm	-0.0002 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 2	0.0047 ppm	0.0009 ppm	-0.0017 ppm	0.0049 ppm	-0.0010 ppm	0.0002 ppm	-0.0029 ppm
Concentration per Run 3	0.0060 ppm	0.0001 ppm	-0.0015 ppm	0.0063 ppm	0.0004 ppm	0.0001 ppm	-0.0010 ppm
Recovery Percentage 1	5.640 %	5.329 %	-3.080 %	0.201 %	-1.210 %	2.862 %	-2.851 %
Concentration RSD	14.6 %	72.2 %	6.4 %	69.0 %	233.7 %	90.2 %	89.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0013 ppm	0.0014 ppm	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0022 ppm	-0.0001 ppm	0.0006 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0005 ppm	0.0016 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 3	-0.0019 ppm	-0.0030 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm	-0.0007 ppm	0.0002 ppm
Recovery Percentage 1	-2.534 %	-0.265 %	2.738 %	-0.584 %	5.037 %	-0.457 %	0.897 %
Concentration RSD	573.1 %	108.6 %	65.5 %	138.0 %	31.6 %	1,167.0 %	228.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	102.5637 %	104.9151 %	104.0923 %	100.2730 %	102.3349 %	101.1531 %
Concentration per Run 1	0.0009 ppm	100.7697 %	105.2690 %	102.9756 %	99.7395 %	103.2668 %	101.4919 %
Concentration per Run 2	0.0009 ppm	102.2677 %	104.4458 %	104.3148 %	100.3218 %	101.8002 %	101.1577 %
Concentration per Run 3	0.0012 ppm	104.6538 %	105.0306 %	104.9865 %	100.7577 %	101.9376 %	100.8098 %
Recovery Percentage 1	20.384 %						
Concentration RSD	18.2 %	1.9 %	0.4 %	1.0 %	0.5 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934069-2d2 WG1934069
Analysis started at: 6/15/2024 8:33:13 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0516 ppm	2.0230 ppm	0.1223 ppm	1.0366 ppm	2.0121 ppm	0.0507 ppm	10.3234 ppm
Concentration per Run 1	0.0513 ppm	2.0543 ppm	0.1231 ppm	1.0515 ppm	2.0157 ppm	0.0511 ppm	10.3745 ppm
Concentration per Run 2	0.0518 ppm	2.0005 ppm	0.1215 ppm	1.0309 ppm	2.0093 ppm	0.0505 ppm	10.3204 ppm
Concentration per Run 3	0.0516 ppm	2.0141 ppm	0.1221 ppm	1.0274 ppm	2.0113 ppm	0.0506 ppm	10.2753 ppm
Concentration RSD	0.4 %	1.4 %	0.7 %	1.3 %	0.2 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5125 ppm	0.2020 ppm	0.2611 ppm	1.0456 ppm	10.5741 ppm	0.0012 ppm
Concentration per Run 1	0.0565 ppm	0.5214 ppm	0.2051 ppm	0.2657 ppm	1.0559 ppm	10.7003 ppm	0.0021 ppm
Concentration per Run 2	0.0555 ppm	0.5115 ppm	0.2020 ppm	0.2600 ppm	1.0396 ppm	10.5064 ppm	0.0003 ppm
Concentration per Run 3	0.0549 ppm	0.5046 ppm	0.1989 ppm	0.2576 ppm	1.0412 ppm	10.5156 ppm	0.0012 ppm
Concentration RSD	1.5 %	1.7 %	1.6 %	1.6 %	0.9 %	1.0 %	71.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4978 ppm	0.5067 ppm	1.0486 ppm	10.6018 ppm	0.5125 ppm	0.5496 ppm	0.5203 ppm
Concentration per Run 1	10.6429 ppm	0.5101 ppm	1.0531 ppm	10.6013 ppm	0.5219 ppm	0.5533 ppm	0.5299 ppm
Concentration per Run 2	10.4919 ppm	0.5046 ppm	1.0464 ppm	10.6530 ppm	0.5105 ppm	0.5494 ppm	0.5147 ppm
Concentration per Run 3	10.3585 ppm	0.5053 ppm	1.0462 ppm	10.5510 ppm	0.5051 ppm	0.5461 ppm	0.5163 ppm
Concentration RSD	1.4 %	0.6 %	0.4 %	0.5 %	1.7 %	0.7 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1209 ppm	1.0435 ppm	1.0086 ppm	1.0072 ppm	1.0489 ppm	0.1233 ppm	0.5161 ppm
Concentration per Run 1	0.1208 ppm	1.0511 ppm	1.0159 ppm	1.0079 ppm	1.0652 ppm	0.1220 ppm	0.5231 ppm
Concentration per Run 2	0.1196 ppm	1.0418 ppm	1.0058 ppm	1.0059 ppm	1.0469 ppm	0.1260 ppm	0.5152 ppm
Concentration per Run 3	0.1222 ppm	1.0376 ppm	1.0041 ppm	1.0077 ppm	1.0345 ppm	0.1218 ppm	0.5099 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	0.1 %	1.5 %	1.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5129 ppm	106.8094 %	108.5366 %	103.3248 %	96.8993 %	100.4560 %	97.8397 %
Concentration per Run 1	0.5228 ppm	105.4928 %	108.9716 %	102.3674 %	96.8077 %	101.0802 %	97.5427 %
Concentration per Run 2	0.5110 ppm	106.7659 %	108.0605 %	103.5630 %	96.6838 %	100.1622 %	98.2515 %
Concentration per Run 3	0.5049 ppm	108.1695 %	108.5778 %	104.0439 %	97.2064 %	100.1256 %	97.7250 %
Concentration RSD	1.8 %	1.3 %	0.4 %	0.8 %	0.3 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-06d2 WG1934069
Analysis started at: 6/15/2024 8:37:12 PM
Rack 3
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	171.1501 ppm	0.0535 ppm	0.0069 ppm	0.5871 ppm	0.0042 ppm	6.2059 ppm
Concentration per Run 1	0.0002 ppm	171.8725 ppm	0.0534 ppm	0.0057 ppm	0.5882 ppm	0.0042 ppm	6.2319 ppm
Concentration per Run 2	-0.0001 ppm	170.4284 ppm	0.0535 ppm	0.0091 ppm	0.5867 ppm	0.0043 ppm	6.1985 ppm
Concentration per Run 3	0.0005 ppm	171.1493 ppm	0.0537 ppm	0.0060 ppm	0.5866 ppm	0.0042 ppm	6.1874 ppm
Concentration RSD	150.2 %	0.4 %	0.3 %	26.9 %	0.2 %	1.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.1115 ppm	0.2434 ppm	0.2082 ppm	234.7018 ppm	11.8204 ppm	0.1818 ppm
Concentration per Run 1	0.0020 ppm	0.1132 ppm	0.2465 ppm	0.2115 ppm	235.2033 ppm	11.8734 ppm	0.1836 ppm
Concentration per Run 2	0.0015 ppm	0.1108 ppm	0.2424 ppm	0.2063 ppm	235.0961 ppm	11.7755 ppm	0.1796 ppm
Concentration per Run 3	0.0022 ppm	0.1104 ppm	0.2413 ppm	0.2068 ppm	233.8060 ppm	11.8122 ppm	0.1822 ppm
Concentration RSD	19.8 %	1.4 %	1.1 %	1.4 %	0.3 %	0.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.6629 ppm	3.0932 ppm	0.0031 ppm	0.3063 ppm	0.2073 ppm	0.1250 ppm	0.0030 ppm
Concentration per Run 1	52.5154 ppm	3.1037 ppm	0.0031 ppm	0.3065 ppm	0.2098 ppm	0.1264 ppm	0.0048 ppm
Concentration per Run 2	51.4154 ppm	3.0838 ppm	0.0026 ppm	0.3120 ppm	0.2073 ppm	0.1240 ppm	0.0035 ppm
Concentration per Run 3	51.0579 ppm	3.0921 ppm	0.0036 ppm	0.3004 ppm	0.2047 ppm	0.1247 ppm	0.0006 ppm
Concentration RSD	1.5 %	0.3 %	17.2 %	1.9 %	1.2 %	1.0 %	72.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	6.5513 ppm	0.0075 ppm	0.0595 ppm	8.6052 ppm	0.0086 ppm	0.3571 ppm
Concentration per Run 1	-0.0002 ppm	6.6380 ppm	0.0069 ppm	0.0591 ppm	8.7109 ppm	0.0068 ppm	0.3623 ppm
Concentration per Run 2	0.0000 ppm	6.5112 ppm	0.0082 ppm	0.0600 ppm	8.5936 ppm	0.0102 ppm	0.3591 ppm
Concentration per Run 3	0.0026 ppm	6.5048 ppm	0.0075 ppm	0.0594 ppm	8.5113 ppm	0.0089 ppm	0.3499 ppm
Concentration RSD	205.2 %	1.1 %	9.1 %	0.7 %	1.2 %	19.6 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4718 ppm	112.9300 %	118.2119 %	95.8369 %	107.6378 %	116.5338 %	109.6810 %
Concentration per Run 1	0.4788 ppm	110.4344 %	118.0027 %	95.6419 %	106.6169 %	116.7493 %	109.6922 %
Concentration per Run 2	0.4703 ppm	114.0521 %	118.0906 %	96.0530 %	109.2171 %	116.2720 %	110.1774 %
Concentration per Run 3	0.4662 ppm	114.3034 %	118.5424 %	95.8157 %	107.0794 %	116.5803 %	109.1735 %
Concentration RSD	1.4 %	1.9 %	0.2 %	0.2 %	1.3 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-10d2 WG1934069
Analysis started at: 6/15/2024 8:41:12 PM
Rack 3
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	179.0535 ppm	0.0581 ppm	0.0040 ppm	1.1290 ppm	0.0046 ppm	5.2119 ppm
Concentration per Run 1	0.0003 ppm	178.8783 ppm	0.0579 ppm	0.0036 ppm	1.1312 ppm	0.0048 ppm	5.2240 ppm
Concentration per Run 2	-0.0002 ppm	179.1137 ppm	0.0578 ppm	0.0059 ppm	1.1271 ppm	0.0045 ppm	5.1997 ppm
Concentration per Run 3	0.0003 ppm	179.1686 ppm	0.0587 ppm	0.0026 ppm	1.1287 ppm	0.0045 ppm	5.2120 ppm
Concentration RSD	215.3 %	0.1 %	0.9 %	41.1 %	0.2 %	3.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.1113 ppm	0.2878 ppm	0.2459 ppm	258.9885 ppm	26.2497 ppm	0.1942 ppm
Concentration per Run 1	0.0019 ppm	0.1121 ppm	0.2905 ppm	0.2492 ppm	260.0812 ppm	26.1920 ppm	0.1921 ppm
Concentration per Run 2	0.0015 ppm	0.1108 ppm	0.2879 ppm	0.2442 ppm	258.2576 ppm	26.2040 ppm	0.1954 ppm
Concentration per Run 3	0.0018 ppm	0.1111 ppm	0.2850 ppm	0.2442 ppm	258.6266 ppm	26.3531 ppm	0.1952 ppm
Concentration RSD	12.0 %	0.6 %	1.0 %	1.2 %	0.4 %	0.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.7014 ppm	2.8701 ppm	0.0009 ppm	0.4380 ppm	0.2134 ppm	0.1866 ppm	0.0014 ppm
Concentration per Run 1	53.1358 ppm	2.8817 ppm	0.0010 ppm	0.4459 ppm	0.2145 ppm	0.1868 ppm	0.0004 ppm
Concentration per Run 2	52.6973 ppm	2.8689 ppm	0.0005 ppm	0.4406 ppm	0.2132 ppm	0.1863 ppm	0.0022 ppm
Concentration per Run 3	52.2713 ppm	2.8598 ppm	0.0010 ppm	0.4274 ppm	0.2125 ppm	0.1866 ppm	0.0018 ppm
Concentration RSD	0.8 %	0.4 %	33.1 %	2.2 %	0.5 %	0.1 %	63.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	5.4191 ppm	0.0103 ppm	0.0513 ppm	13.3109 ppm	0.0130 ppm	0.4215 ppm
Concentration per Run 1	-0.0004 ppm	5.4953 ppm	0.0114 ppm	0.0520 ppm	13.4304 ppm	0.0120 ppm	0.4235 ppm
Concentration per Run 2	0.0008 ppm	5.3782 ppm	0.0098 ppm	0.0508 ppm	13.3189 ppm	0.0140 ppm	0.4249 ppm
Concentration per Run 3	-0.0035 ppm	5.3838 ppm	0.0096 ppm	0.0511 ppm	13.1832 ppm	0.0131 ppm	0.4162 ppm
Concentration RSD	215.8 %	1.2 %	9.2 %	1.2 %	0.9 %	7.8 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5250 ppm	113.9996 %	120.1135 %	90.9300 %	112.2404 %	123.6210 %	113.7942 %
Concentration per Run 1	0.5285 ppm	113.0133 %	119.3788 %	90.6995 %	111.9289 %	123.3449 %	114.2933 %
Concentration per Run 2	0.5243 ppm	114.4186 %	120.4631 %	91.0803 %	112.5274 %	123.8997 %	113.8992 %
Concentration per Run 3	0.5223 ppm	114.5669 %	120.4986 %	91.0102 %	112.2648 %	123.6184 %	113.1901 %
Concentration RSD	0.6 %	0.8 %	0.5 %	0.2 %	0.3 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-13d2 WG1934069
Analysis started at: 6/15/2024 8:45:11 PM
Rack 3
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	223.4091 ppm	0.5830 ppm	0.0088 ppm	1.7332 ppm	0.0078 ppm	8.8730 ppm
Concentration per Run 1	0.0010 ppm	223.3809 ppm	0.5893 ppm	0.0088 ppm	1.7270 ppm	0.0077 ppm	8.8810 ppm
Concentration per Run 2	0.0008 ppm	223.3795 ppm	0.5843 ppm	0.0089 ppm	1.7445 ppm	0.0078 ppm	8.8584 ppm
Concentration per Run 3	0.0006 ppm	223.4669 ppm	0.5753 ppm	0.0086 ppm	1.7282 ppm	0.0078 ppm	8.8797 ppm
Concentration RSD	23.4 %	0.0 %	1.2 %	2.0 %	0.6 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.1143 ppm	0.3696 ppm	0.2244 ppm	253.7412 ppm	20.6741 ppm	0.1849 ppm
Concentration per Run 1	0.0030 ppm	0.1158 ppm	0.3742 ppm	0.2265 ppm	252.8689 ppm	20.6319 ppm	0.1849 ppm
Concentration per Run 2	0.0030 ppm	0.1143 ppm	0.3698 ppm	0.2249 ppm	254.9734 ppm	20.7359 ppm	0.1854 ppm
Concentration per Run 3	0.0030 ppm	0.1128 ppm	0.3647 ppm	0.2219 ppm	253.3814 ppm	20.6544 ppm	0.1844 ppm
Concentration RSD	1.3 %	1.3 %	1.3 %	1.0 %	0.4 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	57.0764 ppm	8.3946 ppm	0.0018 ppm	0.4890 ppm	0.2306 ppm	1.7243 ppm	0.0042 ppm
Concentration per Run 1	57.9589 ppm	8.3836 ppm	0.0020 ppm	0.4953 ppm	0.2329 ppm	1.7362 ppm	0.0032 ppm
Concentration per Run 2	56.8392 ppm	8.4009 ppm	0.0023 ppm	0.4861 ppm	0.2315 ppm	1.7228 ppm	0.0012 ppm
Concentration per Run 3	56.4311 ppm	8.3992 ppm	0.0012 ppm	0.4857 ppm	0.2274 ppm	1.7139 ppm	0.0082 ppm
Concentration RSD	1.4 %	0.1 %	30.9 %	1.1 %	1.2 %	0.7 %	85.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	4.0459 ppm	0.0113 ppm	0.0660 ppm	10.1606 ppm	0.0082 ppm	0.4395 ppm
Concentration per Run 1	0.0030 ppm	4.0937 ppm	0.0115 ppm	0.0657 ppm	10.2876 ppm	0.0074 ppm	0.4441 ppm
Concentration per Run 2	0.0007 ppm	4.0473 ppm	0.0119 ppm	0.0664 ppm	10.1450 ppm	0.0089 ppm	0.4388 ppm
Concentration per Run 3	-0.0001 ppm	3.9966 ppm	0.0106 ppm	0.0660 ppm	10.0493 ppm	0.0083 ppm	0.4357 ppm
Concentration RSD	132.1 %	1.2 %	6.0 %	0.5 %	1.2 %	9.1 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8704 ppm	113.6715 %	120.9520 %	92.8638 %	144.7904 %	161.8531 %	149.9621 %
Concentration per Run 1	0.8827 ppm	111.8179 %	121.1588 %	91.8892 %	143.7306 %	162.5268 %	149.2348 %
Concentration per Run 2	0.8705 ppm	114.4222 %	120.8510 %	93.1483 %	145.9495 %	161.4465 %	150.2872 %
Concentration per Run 3	0.8580 ppm	114.7746 %	120.8461 %	93.5538 %	144.6911 %	161.5860 %	150.3642 %
Concentration RSD	1.4 %	1.4 %	0.1 %	0.9 %	0.8 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-09d2 WG1934069
Analysis started at: 6/15/2024 8:49:11 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	179.0496 ppm	0.2706 ppm	0.0067 ppm	1.1539 ppm	0.0068 ppm	7.3237 ppm
Concentration per Run 1	0.0007 ppm	179.3986 ppm	0.2717 ppm	0.0070 ppm	1.1584 ppm	0.0067 ppm	7.3430 ppm
Concentration per Run 2	0.0010 ppm	179.5011 ppm	0.2720 ppm	0.0073 ppm	1.1547 ppm	0.0068 ppm	7.3403 ppm
Concentration per Run 3	0.0014 ppm	178.2490 ppm	0.2681 ppm	0.0059 ppm	1.1485 ppm	0.0068 ppm	7.2878 ppm
Concentration RSD	31.7 %	0.4 %	0.8 %	10.5 %	0.4 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0885 ppm	0.3209 ppm	0.1924 ppm	208.1177 ppm	10.9545 ppm	0.1462 ppm
Concentration per Run 1	0.0024 ppm	0.0891 ppm	0.3246 ppm	0.1946 ppm	208.8834 ppm	11.0193 ppm	0.1492 ppm
Concentration per Run 2	0.0022 ppm	0.0889 ppm	0.3206 ppm	0.1921 ppm	208.1119 ppm	10.9689 ppm	0.1455 ppm
Concentration per Run 3	0.0025 ppm	0.0875 ppm	0.3176 ppm	0.1905 ppm	207.3577 ppm	10.8752 ppm	0.1438 ppm
Concentration RSD	5.7 %	1.0 %	1.1 %	1.1 %	0.4 %	0.7 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.4928 ppm	6.0097 ppm	0.0016 ppm	0.2916 ppm	0.1795 ppm	0.9174 ppm	0.0025 ppm
Concentration per Run 1	42.0076 ppm	6.0169 ppm	0.0019 ppm	0.2946 ppm	0.1820 ppm	0.9186 ppm	0.0017 ppm
Concentration per Run 2	41.4571 ppm	6.0236 ppm	0.0015 ppm	0.2897 ppm	0.1786 ppm	0.9205 ppm	0.0036 ppm
Concentration per Run 3	41.0136 ppm	5.9886 ppm	0.0015 ppm	0.2904 ppm	0.1779 ppm	0.9131 ppm	0.0021 ppm
Concentration RSD	1.2 %	0.3 %	15.3 %	0.9 %	1.2 %	0.4 %	39.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	6.1101 ppm	0.0093 ppm	0.0545 ppm	7.4829 ppm	0.0052 ppm	0.3525 ppm
Concentration per Run 1	0.0016 ppm	6.1835 ppm	0.0084 ppm	0.0545 ppm	7.5703 ppm	0.0058 ppm	0.3563 ppm
Concentration per Run 2	0.0048 ppm	6.1087 ppm	0.0094 ppm	0.0545 ppm	7.4727 ppm	0.0040 ppm	0.3528 ppm
Concentration per Run 3	0.0014 ppm	6.0381 ppm	0.0101 ppm	0.0546 ppm	7.4057 ppm	0.0058 ppm	0.3484 ppm
Concentration RSD	74.1 %	1.2 %	9.1 %	0.2 %	1.1 %	19.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7082 ppm	113.3945 %	119.9967 %	96.4444 %	139.6356 %	153.9113 %	143.2603 %
Concentration per Run 1	0.7150 ppm	111.9653 %	119.8527 %	96.1620 %	139.4351 %	154.4462 %	143.0217 %
Concentration per Run 2	0.7070 ppm	113.6901 %	119.9633 %	96.2278 %	139.8957 %	154.1586 %	143.1678 %
Concentration per Run 3	0.7026 ppm	114.5281 %	120.1741 %	96.9432 %	139.5761 %	153.1290 %	143.5914 %
Concentration RSD	0.9 %	1.2 %	0.1 %	0.4 %	0.2 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934069-3d2 WG1934069
Analysis started at: 6/15/2024 8:53:10 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0489 ppm	190.0393 ppm	0.4188 ppm	0.8436 ppm	3.0575 ppm	0.0544 ppm	17.4821 ppm
Concentration per Run 1	0.0490 ppm	190.5673 ppm	0.4197 ppm	0.8471 ppm	3.0607 ppm	0.0541 ppm	17.4937 ppm
Concentration per Run 2	0.0487 ppm	189.5482 ppm	0.4216 ppm	0.8432 ppm	3.0471 ppm	0.0544 ppm	17.4559 ppm
Concentration per Run 3	0.0489 ppm	190.0024 ppm	0.4151 ppm	0.8405 ppm	3.0647 ppm	0.0546 ppm	17.4965 ppm
Concentration RSD	0.3 %	0.3 %	0.8 %	0.4 %	0.3 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.5363 ppm	0.5135 ppm	0.4374 ppm	214.3414 ppm	21.2554 ppm	0.1620 ppm
Concentration per Run 1	0.0512 ppm	0.5393 ppm	0.5166 ppm	0.4400 ppm	213.8393 ppm	21.3092 ppm	0.1639 ppm
Concentration per Run 2	0.0506 ppm	0.5358 ppm	0.5130 ppm	0.4388 ppm	214.3869 ppm	21.1772 ppm	0.1589 ppm
Concentration per Run 3	0.0503 ppm	0.5339 ppm	0.5110 ppm	0.4333 ppm	214.7980 ppm	21.2797 ppm	0.1632 ppm
Concentration RSD	0.9 %	0.5 %	0.6 %	0.8 %	0.2 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.3021 ppm	6.4254 ppm	0.9085 ppm	10.0864 ppm	0.6326 ppm	1.4973 ppm	0.3737 ppm
Concentration per Run 1	51.7122 ppm	6.4440 ppm	0.9009 ppm	10.0749 ppm	0.6372 ppm	1.5071 ppm	0.3756 ppm
Concentration per Run 2	51.2115 ppm	6.4128 ppm	0.9094 ppm	10.0722 ppm	0.6322 ppm	1.4942 ppm	0.3727 ppm
Concentration per Run 3	50.9826 ppm	6.4194 ppm	0.9153 ppm	10.1122 ppm	0.6285 ppm	1.4906 ppm	0.3729 ppm
Concentration RSD	0.7 %	0.3 %	0.8 %	0.2 %	0.7 %	0.6 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1277 ppm	6.7295 ppm	0.6522 ppm	0.9943 ppm	9.1964 ppm	**0.1244 ppm**	0.8403 ppm
Concentration per Run 1	0.1289 ppm	6.7521 ppm	0.6491 ppm	0.9928 ppm	9.2742 ppm	0.1239 ppm	0.8444 ppm
Concentration per Run 2	0.1301 ppm	6.7399 ppm	0.6539 ppm	0.9920 ppm	9.1670 ppm	0.1263 ppm	0.8420 ppm
Concentration per Run 3	0.1243 ppm	6.6966 ppm	0.6536 ppm	0.9981 ppm	9.1480 ppm	0.1231 ppm	0.8346 ppm
Concentration RSD	2.4 %	0.4 %	0.4 %	0.3 %	0.7 %	1.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1796 ppm	113.7102 %	119.3477 %	92.9516 %	136.7477 %	**151.0106 %**	139.4615 %
Concentration per Run 1	1.1893 ppm	113.1428 %	119.0071 %	92.4373 %	137.1701 %	**150.4219 %**	139.4268 %
Concentration per Run 2	1.1798 ppm	113.7542 %	120.1528 %	93.0694 %	136.8293 %	**152.4900 %**	139.5269 %
Concentration per Run 3	1.1698 ppm	114.2337 %	118.8833 %	93.3481 %	136.2437 %	**150.1198 %**	139.4307 %
Concentration RSD	0.8 %	0.5 %	0.6 %	0.5 %	0.3 %	**0.9 %**	0.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934069-4d2 WG1934069
Analysis started at: 6/15/2024 8:57:09 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0502 ppm	203.1603 ppm	0.4269 ppm	0.8559 ppm	3.1697 ppm	0.0553 ppm	17.4499 ppm
Concentration per Run 1	0.0504 ppm	203.3000 ppm	0.4225 ppm	0.8625 ppm	3.1577 ppm	0.0557 ppm	17.4691 ppm
Concentration per Run 2	0.0503 ppm	203.0413 ppm	0.4296 ppm	0.8598 ppm	3.1715 ppm	0.0549 ppm	17.4163 ppm
Concentration per Run 3	0.0497 ppm	203.1395 ppm	0.4284 ppm	0.8454 ppm	3.1799 ppm	0.0553 ppm	17.4643 ppm
Concentration RSD	0.8 %	0.1 %	0.9 %	1.1 %	0.4 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0517 ppm	0.5485 ppm	0.5260 ppm	0.4533 ppm	220.7842 ppm	21.9920 ppm	0.1701 ppm
Concentration per Run 1	0.0520 ppm	0.5551 ppm	0.5304 ppm	0.4568 ppm	221.1011 ppm	22.0109 ppm	0.1720 ppm
Concentration per Run 2	0.0517 ppm	0.5495 ppm	0.5277 ppm	0.4540 ppm	220.2279 ppm	22.0294 ppm	0.1689 ppm
Concentration per Run 3	0.0512 ppm	0.5411 ppm	0.5199 ppm	0.4491 ppm	221.0235 ppm	21.9356 ppm	0.1694 ppm
Concentration RSD	0.8 %	1.3 %	1.0 %	0.9 %	0.2 %	0.2 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.6810 ppm	6.7542 ppm	0.9420 ppm	10.3205 ppm	0.6473 ppm	1.5348 ppm	0.4174 ppm
Concentration per Run 1	54.1246 ppm	6.7662 ppm	0.9396 ppm	10.3291 ppm	0.6525 ppm	1.5379 ppm	0.4193 ppm
Concentration per Run 2	53.7210 ppm	6.7446 ppm	0.9456 ppm	10.2775 ppm	0.6507 ppm	1.5376 ppm	0.4206 ppm
Concentration per Run 3	53.1975 ppm	6.7519 ppm	0.9409 ppm	10.3551 ppm	0.6387 ppm	1.5290 ppm	0.4122 ppm
Concentration RSD	0.9 %	0.2 %	0.3 %	0.4 %	1.2 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1306 ppm	5.0631 ppm	0.6607 ppm	1.0167 ppm	9.4912 ppm	0.1316 ppm	0.8535 ppm
Concentration per Run 1	0.1305 ppm	5.1240 ppm	0.6596 ppm	1.0197 ppm	9.5800 ppm	0.1312 ppm	0.8600 ppm
Concentration per Run 2	0.1333 ppm	5.0606 ppm	0.6672 ppm	1.0125 ppm	9.4867 ppm	0.1292 ppm	0.8522 ppm
Concentration per Run 3	0.1280 ppm	5.0046 ppm	0.6552 ppm	1.0180 ppm	9.4068 ppm	0.1344 ppm	0.8483 ppm
Concentration RSD	2.0 %	1.2 %	0.9 %	0.4 %	0.9 %	2.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2130 ppm	113.4108 %	120.0735 %	92.7349 %	138.6941 %	155.0458 %	142.8399 %
Concentration per Run 1	1.2262 ppm	112.3776 %	119.3956 %	93.2983 %	138.6615 %	154.2085 %	143.3997 %
Concentration per Run 2	1.2195 ppm	112.8410 %	120.6661 %	91.9186 %	137.8185 %	155.5444 %	142.2847 %
Concentration per Run 3	1.1934 ppm	115.0137 %	120.1587 %	92.9878 %	139.6023 %	155.3846 %	142.8353 %
Concentration RSD	1.4 %	1.2 %	0.5 %	0.8 %	0.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934069-5d2 WG1934069
Analysis started at: 6/15/2024 9:01:08 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0486 ppm	176.5651 ppm	0.3958 ppm	0.9084 ppm	2.9399 ppm	0.0526 ppm	16.2709 ppm
Concentration per Run 1	0.0488 ppm	176.2708 ppm	0.3983 ppm	0.9213 ppm	2.9442 ppm	0.0529 ppm	16.2715 ppm
Concentration per Run 2	0.0486 ppm	176.8319 ppm	0.3992 ppm	0.9109 ppm	2.9517 ppm	0.0526 ppm	16.3045 ppm
Concentration per Run 3	0.0482 ppm	176.5927 ppm	0.3900 ppm	0.8930 ppm	2.9239 ppm	0.0523 ppm	16.2367 ppm
Concentration RSD	0.6 %	0.2 %	1.3 %	1.6 %	0.5 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0503 ppm	0.5291 ppm	0.4932 ppm	0.4287 ppm	202.7503 ppm	20.2017 ppm	0.1410 ppm
Concentration per Run 1	0.0510 ppm	0.5359 ppm	0.5001 ppm	0.4361 ppm	202.6086 ppm	20.2855 ppm	0.1421 ppm
Concentration per Run 2	0.0504 ppm	0.5305 ppm	0.4924 ppm	0.4283 ppm	203.4239 ppm	20.2576 ppm	0.1409 ppm
Concentration per Run 3	0.0495 ppm	0.5209 ppm	0.4871 ppm	0.4219 ppm	202.2185 ppm	20.0621 ppm	0.1399 ppm
Concentration RSD	1.5 %	1.4 %	1.3 %	1.7 %	0.3 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.4955 ppm	6.2882 ppm	0.9028 ppm	9.8989 ppm	0.6193 ppm	1.4503 ppm	0.4399 ppm
Concentration per Run 1	50.2072 ppm	6.2837 ppm	0.8972 ppm	9.9286 ppm	0.6267 ppm	1.4597 ppm	0.4452 ppm
Concentration per Run 2	49.3427 ppm	6.2997 ppm	0.9052 ppm	9.9419 ppm	0.6206 ppm	1.4471 ppm	0.4363 ppm
Concentration per Run 3	48.9366 ppm	6.2812 ppm	0.9058 ppm	9.8263 ppm	0.6105 ppm	1.4441 ppm	0.4382 ppm
Concentration RSD	1.3 %	0.2 %	0.5 %	0.6 %	1.3 %	0.6 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1290 ppm	6.7902 ppm	0.6563 ppm	0.9710 ppm	8.2178 ppm	0.1307 ppm	0.8042 ppm
Concentration per Run 1	0.1272 ppm	6.8912 ppm	0.6558 ppm	0.9728 ppm	8.3257 ppm	0.1314 ppm	0.8160 ppm
Concentration per Run 2	0.1335 ppm	6.7950 ppm	0.6562 ppm	0.9714 ppm	8.2021 ppm	0.1310 ppm	0.8028 ppm
Concentration per Run 3	0.1263 ppm	6.6844 ppm	0.6571 ppm	0.9689 ppm	8.1256 ppm	0.1296 ppm	0.7937 ppm
Concentration RSD	3.0 %	1.5 %	0.1 %	0.2 %	1.2 %	0.7 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1354 ppm	112.3693 %	119.3754 %	94.7117 %	136.8129 %	151.6039 %	141.1919 %
Concentration per Run 1	1.1533 ppm	110.6535 %	119.3859 %	94.5951 %	136.4848 %	152.0998 %	141.7112 %
Concentration per Run 2	1.1307 ppm	112.9287 %	118.3206 %	94.8052 %	137.5731 %	150.0467 %	141.3513 %
Concentration per Run 3	1.1222 ppm	113.5255 %	120.4198 %	94.7347 %	136.3807 %	152.6652 %	140.5132 %
Concentration RSD	1.4 %	1.3 %	0.9 %	0.1 %	0.5 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: WG1934069-6d10 WG1934069
Analysis started at: 6/15/2024 9:05:07 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	36.9870 ppm	0.0483 ppm	0.0013 ppm	0.2361 ppm	0.0014 ppm	1.5013 ppm
Concentration per Run 1	0.0002 ppm	37.0814 ppm	0.0491 ppm	0.0036 ppm	0.2377 ppm	0.0014 ppm	1.5090 ppm
Concentration per Run 2	-0.0002 ppm	37.0304 ppm	0.0494 ppm	-0.0008 ppm	0.2360 ppm	0.0013 ppm	1.4977 ppm
Concentration per Run 3	0.0001 ppm	36.8491 ppm	0.0465 ppm	0.0012 ppm	0.2348 ppm	0.0014 ppm	1.4973 ppm
Concentration RSD	400.0 %	0.3 %	3.3 %	167.3 %	0.6 %	3.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0192 ppm	0.0663 ppm	0.0388 ppm	44.4096 ppm	2.2217 ppm	0.0308 ppm
Concentration per Run 1	0.0005 ppm	0.0191 ppm	0.0668 ppm	0.0392 ppm	44.6278 ppm	2.2753 ppm	0.0314 ppm
Concentration per Run 2	0.0006 ppm	0.0192 ppm	0.0664 ppm	0.0392 ppm	44.3791 ppm	2.2350 ppm	0.0318 ppm
Concentration per Run 3	0.0005 ppm	0.0192 ppm	0.0656 ppm	0.0381 ppm	44.2219 ppm	2.1548 ppm	0.0291 ppm
Concentration RSD	8.1 %	0.5 %	0.9 %	1.6 %	0.5 %	2.8 %	4.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.7801 ppm	1.2619 ppm	0.0011 ppm	0.0238 ppm	0.0381 ppm	0.1762 ppm	0.0045 ppm
Concentration per Run 1	8.9326 ppm	1.2634 ppm	0.0010 ppm	0.0196 ppm	0.0383 ppm	0.1780 ppm	0.0060 ppm
Concentration per Run 2	8.7574 ppm	1.2648 ppm	0.0008 ppm	0.0228 ppm	0.0379 ppm	0.1766 ppm	0.0020 ppm
Concentration per Run 3	8.6502 ppm	1.2574 ppm	0.0014 ppm	0.0289 ppm	0.0382 ppm	0.1739 ppm	0.0056 ppm
Concentration RSD	1.6 %	0.3 %	25.9 %	19.9 %	0.5 %	1.2 %	47.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	1.2357 ppm	0.0028 ppm	0.0112 ppm	1.5489 ppm	0.0006 ppm	0.0717 ppm
Concentration per Run 1	0.0007 ppm	1.2449 ppm	0.0040 ppm	0.0114 ppm	1.5645 ppm	-0.0002 ppm	0.0723 ppm
Concentration per Run 2	0.0000 ppm	1.2413 ppm	0.0026 ppm	0.0110 ppm	1.5480 ppm	0.0006 ppm	0.0719 ppm
Concentration per Run 3	-0.0001 ppm	1.2210 ppm	0.0020 ppm	0.0111 ppm	1.5342 ppm	0.0013 ppm	0.0709 ppm
Concentration RSD	218.4 %	1.0 %	35.1 %	2.3 %	1.0 %	130.0 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1481 ppm	110.4957 %	113.0284 %	105.3615 %	108.2429 %	113.6613 %	110.4944 %
Concentration per Run 1	0.1499 ppm	108.7442 %	111.8267 %	104.7693 %	107.8416 %	112.7403 %	110.6894 %
Concentration per Run 2	0.1482 ppm	110.6697 %	113.9662 %	105.2582 %	108.6820 %	114.5687 %	110.4135 %
Concentration per Run 3	0.1461 ppm	112.0732 %	113.2923 %	106.0569 %	108.2050 %	113.6748 %	110.3805 %
Concentration RSD	1.3 %	1.5 %	1.0 %	0.6 %	0.4 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 9:09:07 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5134 ppm	0.5138 ppm	0.4767 ppm	0.5036 ppm	0.5073 ppm	0.5145 ppm	0.5124 ppm
Concentration per Run 1	0.5162 ppm	0.5200 ppm	0.4773 ppm	0.5114 ppm	0.5115 ppm	0.5161 ppm	0.5127 ppm
Concentration per Run 2	0.5146 ppm	0.5074 ppm	0.4795 ppm	0.5032 ppm	0.5043 ppm	0.5142 ppm	0.5116 ppm
Concentration per Run 3	0.5092 ppm	0.5142 ppm	0.4733 ppm	0.4963 ppm	0.5063 ppm	0.5132 ppm	0.5128 ppm
Recovery Percentage 1	102.674 %	102.766 %	95.342 %	100.728 %	101.469 %	102.901 %	102.472 %
Concentration RSD	0.7 %	1.2 %	0.7 %	1.5 %	0.7 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5119 ppm	0.5213 ppm	0.5021 ppm	0.5063 ppm	0.5486 ppm	5.2733 ppm	0.5025 ppm
Concentration per Run 1	0.5180 ppm	0.5276 ppm	0.5077 ppm	0.5127 ppm	0.5532 ppm	5.3390 ppm	0.5093 ppm
Concentration per Run 2	0.5130 ppm	0.5220 ppm	0.5027 ppm	0.5065 ppm	0.5446 ppm	5.2412 ppm	0.4998 ppm
Concentration per Run 3	0.5046 ppm	0.5143 ppm	0.4959 ppm	0.4998 ppm	0.5480 ppm	5.2396 ppm	0.4983 ppm
Recovery Percentage 1	102.374 %	104.262 %	100.419 %	101.267 %	109.723 %	105.465 %	100.498 %
Concentration RSD	1.3 %	1.3 %	1.2 %	1.3 %	0.8 %	1.1 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5117 ppm	0.5011 ppm	0.5085 ppm	10.2696 ppm	0.5163 ppm	0.4975 ppm	0.4977 ppm
Concentration per Run 1	0.5167 ppm	0.5036 ppm	0.5061 ppm	10.2884 ppm	0.5222 ppm	0.4999 ppm	0.5019 ppm
Concentration per Run 2	0.5145 ppm	0.5009 ppm	0.5128 ppm	10.2564 ppm	0.5182 ppm	0.4970 ppm	0.5005 ppm
Concentration per Run 3	0.5038 ppm	0.4988 ppm	0.5067 ppm	10.2639 ppm	0.5086 ppm	0.4958 ppm	0.4907 ppm
Recovery Percentage 1	102.330 %	100.226 %	101.707 %	102.696 %	103.268 %	99.506 %	99.534 %
Concentration RSD	1.3 %	0.5 %	0.7 %	0.2 %	1.4 %	0.4 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4850 ppm	5.2120 ppm	0.5165 ppm	0.5148 ppm	0.5115 ppm	0.5035 ppm	0.5035 ppm
Concentration per Run 1	0.4886 ppm	5.2453 ppm	0.5183 ppm	0.5191 ppm	0.5154 ppm	0.5043 ppm	0.5106 ppm
Concentration per Run 2	0.4836 ppm	5.2212 ppm	0.5151 ppm	0.5133 ppm	0.5125 ppm	0.5072 ppm	0.5025 ppm
Concentration per Run 3	0.4829 ppm	5.1696 ppm	0.5160 ppm	0.5118 ppm	0.5064 ppm	0.4991 ppm	0.4975 ppm
Recovery Percentage 1	97.010 %	99.277 %	103.293 %	102.951 %	102.290 %	100.709 %	100.704 %
Concentration RSD	0.6 %	0.7 %	0.3 %	0.7 %	0.9 %	0.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5138 ppm	109.4249 %	109.9990 %	107.4147 %	97.5682 %	101.3992 %	98.9564 %
Concentration per Run 1	0.5210 ppm	107.4361 %	109.7121 %	106.7218 %	96.5173 %	101.3505 %	98.9319 %
Concentration per Run 2	0.5143 ppm	109.4397 %	109.3564 %	107.5239 %	97.9540 %	100.9712 %	98.9364 %
Concentration per Run 3	0.5061 ppm	111.3989 %	110.9285 %	107.9984 %	98.2334 %	101.8758 %	99.0009 %
Recovery Percentage 1	102.759 %						
Concentration RSD	1.5 %	1.8 %	0.7 %	0.6 %	0.9 %	0.4 %	0.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 9:13:05 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0100 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0127 ppm	0.0003 ppm	-0.0014 ppm	0.0000 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 2	0.0003 ppm	0.0111 ppm	-0.0007 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0061 ppm	0.0031 ppm	-0.0022 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	0.601 %	9.977 %	30.902 %	-2.374 %	1.004 %	0.546 %	-0.087 %
Concentration RSD	644.9 %	34.9 %	213.3 %	269.2 %	73.4 %	344.8 %	2,853.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0007 ppm	0.0057 ppm	-0.0087 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0062 ppm	-0.0215 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0006 ppm	0.0063 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0007 ppm	0.0046 ppm	-0.0051 ppm	0.0000 ppm
Recovery Percentage 1	1.035 %	1.269 %	-4.024 %	6.592 %	11.438 %	-0.349 %	-5.312 %
Concentration RSD	55.5 %	83.3 %	45.5 %	11.8 %	17.1 %	130.2 %	101.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0000 ppm	-0.0002 ppm	-0.0439 ppm	-0.0010 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0002 ppm	-0.0004 ppm	-0.0412 ppm	-0.0007 ppm	-0.0008 ppm	-0.0028 ppm
Concentration per Run 2	0.0010 ppm	-0.0001 ppm	0.0004 ppm	-0.0393 ppm	-0.0014 ppm	-0.0011 ppm	0.0027 ppm
Concentration per Run 3	-0.0014 ppm	0.0000 ppm	-0.0006 ppm	-0.0510 ppm	-0.0009 ppm	-0.0017 ppm	0.0003 ppm
Recovery Percentage 1	-0.391 %	0.321 %	-0.466 %	-2.193 %	-4.002 %	-11.989 %	0.167 %
Concentration RSD	312.5 %	446.3 %	232.5 %	14.3 %	37.7 %	34.9 %	3,333.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0103 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0101 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 2	0.0028 ppm	-0.0093 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0010 ppm	-0.0115 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	6.464 %	-2.065 %	-0.672 %	0.000 %	-0.246 %	4.781 %	-0.043 %
Concentration RSD	302.2 %	10.9 %	69.5 %	228,236.4 %	505.9 %	79.2 %	2,139.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	99.7304 %	101.5209 %	100.6869 %	99.4643 %	101.5232 %	100.6771 %
Concentration per Run 1	0.0010 ppm	98.0677 %	101.2644 %	99.9436 %	99.0012 %	102.0985 %	101.0883 %
Concentration per Run 2	0.0006 ppm	99.6230 %	101.5646 %	100.6443 %	99.4155 %	101.7153 %	100.4477 %
Concentration per Run 3	0.0005 ppm	101.5004 %	101.7335 %	101.4729 %	99.9763 %	100.7558 %	100.4953 %
Recovery Percentage 1	14.180 %						
Concentration RSD	38.3 %	1.7 %	0.2 %	0.8 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-14d2 WG1934069
Analysis started at: 6/15/2024 9:21:11 PM
Rack 3
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	162.9142 ppm	0.0456 ppm	0.0077 ppm	1.2579 ppm	0.0046 ppm	13.6431 ppm
Concentration per Run 1	0.0004 ppm	163.3557 ppm	0.0454 ppm	0.0071 ppm	1.2622 ppm	0.0046 ppm	13.6523 ppm
Concentration per Run 2	0.0000 ppm	162.7970 ppm	0.0477 ppm	0.0082 ppm	1.2559 ppm	0.0047 ppm	13.6485 ppm
Concentration per Run 3	0.0001 ppm	162.5900 ppm	0.0436 ppm	0.0077 ppm	1.2557 ppm	0.0046 ppm	13.6286 ppm
Concentration RSD	121.1 %	0.2 %	4.5 %	7.1 %	0.3 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0929 ppm	0.3078 ppm	0.1541 ppm	199.9730 ppm	25.5385 ppm	0.1615 ppm
Concentration per Run 1	0.0016 ppm	0.0935 ppm	0.3121 ppm	0.1560 ppm	201.0181 ppm	25.7772 ppm	0.1619 ppm
Concentration per Run 2	0.0015 ppm	0.0933 ppm	0.3087 ppm	0.1534 ppm	199.6807 ppm	25.4257 ppm	0.1618 ppm
Concentration per Run 3	0.0017 ppm	0.0917 ppm	0.3025 ppm	0.1529 ppm	199.2200 ppm	25.4126 ppm	0.1608 ppm
Concentration RSD	5.9 %	1.1 %	1.6 %	1.1 %	0.5 %	0.8 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.1810 ppm	5.1812 ppm	0.0003 ppm	0.4081 ppm	0.1794 ppm	0.1401 ppm	0.0022 ppm
Concentration per Run 1	65.9222 ppm	5.2017 ppm	-0.0001 ppm	0.4042 ppm	0.1826 ppm	0.1405 ppm	0.0015 ppm
Concentration per Run 2	65.2929 ppm	5.1782 ppm	0.0001 ppm	0.4099 ppm	0.1790 ppm	0.1403 ppm	-0.0010 ppm
Concentration per Run 3	64.3280 ppm	5.1638 ppm	0.0008 ppm	0.4103 ppm	0.1766 ppm	0.1395 ppm	0.0061 ppm
Concentration RSD	1.2 %	0.4 %	178.3 %	0.8 %	1.7 %	0.4 %	164.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	4.5093 ppm	0.0060 ppm	0.0688 ppm	10.1176 ppm	0.0102 ppm	0.3630 ppm
Concentration per Run 1	-0.0006 ppm	4.5979 ppm	0.0059 ppm	0.0688 ppm	10.2419 ppm	0.0108 ppm	0.3655 ppm
Concentration per Run 2	0.0008 ppm	4.4776 ppm	0.0056 ppm	0.0688 ppm	10.1293 ppm	0.0088 ppm	0.3652 ppm
Concentration per Run 3	-0.0022 ppm	4.4525 ppm	0.0066 ppm	0.0688 ppm	9.9815 ppm	0.0110 ppm	0.3582 ppm
Concentration RSD	229.3 %	1.7 %	8.6 %	0.0 %	1.3 %	11.6 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5526 ppm	110.9861 %	116.1370 %	92.0630 %	118.4538 %	128.8650 %	119.2267 %
Concentration per Run 1	0.5604 ppm	110.1275 %	114.5443 %	92.1821 %	118.7446 %	127.0491 %	120.2006 %
Concentration per Run 2	0.5567 ppm	110.6809 %	116.6956 %	91.7060 %	117.5855 %	129.4645 %	118.8463 %
Concentration per Run 3	0.5407 ppm	112.1500 %	117.1713 %	92.3007 %	119.0313 %	130.0814 %	118.6332 %
Concentration RSD	1.9 %	0.9 %	1.2 %	0.3 %	0.6 %	1.2 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-17d2 WG1934069
Analysis started at: 6/15/2024 9:25:17 PM
Rack 3
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	179.0878 ppm	1.2842 ppm	0.0050 ppm	1.4761 ppm	0.0050 ppm	12.7094 ppm
Concentration per Run 1	0.0018 ppm	179.7988 ppm	1.2890 ppm	0.0050 ppm	1.4743 ppm	0.0049 ppm	12.7609 ppm
Concentration per Run 2	0.0015 ppm	178.7816 ppm	1.2821 ppm	0.0044 ppm	1.4784 ppm	0.0050 ppm	12.6867 ppm
Concentration per Run 3	0.0018 ppm	178.6830 ppm	1.2814 ppm	0.0058 ppm	1.4756 ppm	0.0051 ppm	12.6806 ppm
Concentration RSD	11.8 %	0.3 %	0.3 %	13.9 %	0.1 %	2.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0086 ppm	0.1313 ppm	0.7073 ppm	0.3192 ppm	277.1482 ppm	43.9483 ppm	0.2010 ppm
Concentration per Run 1	0.0087 ppm	0.1326 ppm	0.7185 ppm	0.3224 ppm	276.6418 ppm	43.8408 ppm	0.1981 ppm
Concentration per Run 2	0.0085 ppm	0.1315 ppm	0.7065 ppm	0.3190 ppm	277.5140 ppm	43.8053 ppm	0.2010 ppm
Concentration per Run 3	0.0085 ppm	0.1300 ppm	0.6968 ppm	0.3163 ppm	277.2889 ppm	44.1988 ppm	0.2037 ppm
Concentration RSD	1.1 %	1.0 %	1.5 %	1.0 %	0.2 %	0.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.5655 ppm	6.1693 ppm	0.0011 ppm	0.5451 ppm	0.2323 ppm	1.1477 ppm	0.0099 ppm
Concentration per Run 1	64.4467 ppm	6.1918 ppm	0.0012 ppm	0.5413 ppm	0.2361 ppm	1.1502 ppm	0.0116 ppm
Concentration per Run 2	63.4632 ppm	6.1577 ppm	0.0010 ppm	0.5446 ppm	0.2305 ppm	1.1479 ppm	0.0112 ppm
Concentration per Run 3	62.7867 ppm	6.1584 ppm	0.0012 ppm	0.5495 ppm	0.2305 ppm	1.1451 ppm	0.0069 ppm
Concentration RSD	1.3 %	0.3 %	10.1 %	0.8 %	1.4 %	0.2 %	26.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	3.3563 ppm	0.0148 ppm	0.0583 ppm	13.6225 ppm	0.0065 ppm	0.4395 ppm
Concentration per Run 1	-0.0002 ppm	3.4123 ppm	0.0140 ppm	0.0582 ppm	13.7942 ppm	0.0066 ppm	0.4447 ppm
Concentration per Run 2	-0.0008 ppm	3.3492 ppm	0.0152 ppm	0.0585 ppm	13.6102 ppm	0.0064 ppm	0.4391 ppm
Concentration per Run 3	-0.0006 ppm	3.3072 ppm	0.0151 ppm	0.0584 ppm	13.4631 ppm	0.0064 ppm	0.4346 ppm
Concentration RSD	61.6 %	1.6 %	4.5 %	0.3 %	1.2 %	1.6 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9304 ppm	116.6883 %	123.1311 %	91.0476 %	123.2828 %	136.5383 %	126.9817 %
Concentration per Run 1	0.9486 ppm	114.6379 %	122.7355 %	90.7791 %	122.5206 %	136.7249 %	127.2171 %
Concentration per Run 2	0.9265 ppm	117.1179 %	124.1600 %	91.1986 %	123.6662 %	137.4526 %	126.8130 %
Concentration per Run 3	0.9162 ppm	118.3092 %	122.4978 %	91.1652 %	123.6617 %	135.4374 %	126.9150 %
Concentration RSD	1.8 %	1.6 %	0.7 %	0.3 %	0.5 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-18d2 WG1934069
Analysis started at: 6/15/2024 9:29:17 PM
Rack 3
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	173.1768 ppm	0.0224 ppm	0.0003 ppm	1.8308 ppm	0.0042 ppm	12.6483 ppm
Concentration per Run 1	-0.0003 ppm	172.9356 ppm	0.0203 ppm	0.0007 ppm	1.8210 ppm	0.0044 ppm	12.6876 ppm
Concentration per Run 2	-0.0001 ppm	173.1026 ppm	0.0255 ppm	0.0009 ppm	1.8350 ppm	0.0042 ppm	12.6154 ppm
Concentration per Run 3	0.0001 ppm	173.4922 ppm	0.0216 ppm	-0.0008 ppm	1.8363 ppm	0.0039 ppm	12.6419 ppm
Concentration RSD	155.2 %	0.2 %	12.0 %	345.9 %	0.5 %	6.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.1583 ppm	0.3677 ppm	0.5230 ppm	335.2999 ppm	88.5913 ppm	0.2683 ppm
Concentration per Run 1	0.0025 ppm	0.1609 ppm	0.3734 ppm	0.5295 ppm	335.6670 ppm	87.8596 ppm	0.2665 ppm
Concentration per Run 2	0.0021 ppm	0.1582 ppm	0.3669 ppm	0.5219 ppm	335.6887 ppm	88.7755 ppm	0.2684 ppm
Concentration per Run 3	0.0023 ppm	0.1558 ppm	0.3628 ppm	0.5176 ppm	334.5441 ppm	89.1388 ppm	0.2701 ppm
Concentration RSD	10.3 %	1.6 %	1.4 %	1.1 %	0.2 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	92.8085 ppm	5.8856 ppm	-0.0009 ppm	0.8566 ppm	0.2746 ppm	0.0824 ppm	0.0049 ppm
Concentration per Run 1	94.0278 ppm	5.8871 ppm	-0.0010 ppm	0.8617 ppm	0.2790 ppm	0.0839 ppm	0.0052 ppm
Concentration per Run 2	92.7475 ppm	5.8764 ppm	-0.0012 ppm	0.8617 ppm	0.2723 ppm	0.0821 ppm	0.0028 ppm
Concentration per Run 3	91.6504 ppm	5.8932 ppm	-0.0005 ppm	0.8465 ppm	0.2725 ppm	0.0811 ppm	0.0068 ppm
Concentration RSD	1.3 %	0.1 %	37.5 %	1.0 %	1.4 %	1.8 %	40.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	3.6686 ppm	0.0125 ppm	0.0441 ppm	**21.3393 ppm**	0.0196 ppm	0.4960 ppm
Concentration per Run 1	-0.0049 ppm	3.7206 ppm	0.0133 ppm	0.0442 ppm	21.6129 ppm	0.0188 ppm	0.5030 ppm
Concentration per Run 2	-0.0023 ppm	3.6581 ppm	0.0123 ppm	0.0442 ppm	21.2948 ppm	0.0220 ppm	0.4966 ppm
Concentration per Run 3	-0.0008 ppm	3.6271 ppm	0.0120 ppm	0.0438 ppm	21.1103 ppm	0.0179 ppm	0.4886 ppm
Concentration RSD	78.9 %	1.3 %	5.6 %	0.5 %	1.2 %	11.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7613 ppm	117.0747 %	123.8896 %	84.3749 %	117.0504 %	129.7869 %	120.1259 %
Concentration per Run 1	0.7723 ppm	115.3441 %	123.2323 %	84.0515 %	116.1943 %	129.5122 %	120.2032 %
Concentration per Run 2	0.7607 ppm	117.1054 %	124.2212 %	84.1754 %	116.7074 %	130.0938 %	119.6383 %
Concentration per Run 3	0.7509 ppm	118.7745 %	124.2154 %	84.8979 %	118.2494 %	129.7547 %	120.5364 %
Concentration RSD	1.4 %	1.5 %	0.5 %	0.5 %	0.9 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-21d2 WG1934069
Analysis started at: 6/15/2024 9:33:17 PM
Rack 3
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	173.4503 ppm	0.2086 ppm	0.0059 ppm	1.4151 ppm	0.0045 ppm	9.3437 ppm
Concentration per Run 1	0.0001 ppm	173.6010 ppm	0.2119 ppm	0.0058 ppm	1.4097 ppm	0.0044 ppm	9.3509 ppm
Concentration per Run 2	0.0005 ppm	173.3190 ppm	0.2067 ppm	0.0071 ppm	1.4154 ppm	0.0046 ppm	9.3472 ppm
Concentration per Run 3	0.0006 ppm	173.4308 ppm	0.2074 ppm	0.0049 ppm	1.4200 ppm	0.0046 ppm	9.3331 ppm
Concentration RSD	75.6 %	0.1 %	1.3 %	19.3 %	0.4 %	2.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.1211 ppm	0.3084 ppm	0.2542 ppm	253.5574 ppm	46.3727 ppm	0.1907 ppm
Concentration per Run 1	0.0043 ppm	0.1230 ppm	0.3118 ppm	0.2582 ppm	253.0073 ppm	46.4394 ppm	0.1934 ppm
Concentration per Run 2	0.0042 ppm	0.1197 ppm	0.3081 ppm	0.2521 ppm	253.4160 ppm	46.3855 ppm	0.1887 ppm
Concentration per Run 3	0.0041 ppm	0.1205 ppm	0.3054 ppm	0.2524 ppm	254.2488 ppm	46.2933 ppm	0.1899 ppm
Concentration RSD	2.1 %	1.4 %	1.0 %	1.4 %	0.2 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	57.4201 ppm	6.2378 ppm	0.0013 ppm	0.5038 ppm	0.2304 ppm	0.5753 ppm	0.0050 ppm
Concentration per Run 1	57.9792 ppm	6.2391 ppm	0.0007 ppm	0.5065 ppm	0.2324 ppm	0.5791 ppm	0.0059 ppm
Concentration per Run 2	57.4444 ppm	6.2362 ppm	0.0020 ppm	0.5102 ppm	0.2302 ppm	0.5770 ppm	0.0067 ppm
Concentration per Run 3	56.8368 ppm	6.2381 ppm	0.0010 ppm	0.4948 ppm	0.2287 ppm	0.5699 ppm	0.0025 ppm
Concentration RSD	1.0 %	0.0 %	52.1 %	1.6 %	0.8 %	0.8 %	44.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	4.7737 ppm	0.0125 ppm	0.0526 ppm	13.5236 ppm	0.0071 ppm	0.3971 ppm
Concentration per Run 1	-0.0047 ppm	4.8250 ppm	0.0121 ppm	0.0523 ppm	13.6326 ppm	0.0035 ppm	0.3993 ppm
Concentration per Run 2	0.0031 ppm	4.7573 ppm	0.0133 ppm	0.0527 ppm	13.5204 ppm	0.0092 ppm	0.3982 ppm
Concentration per Run 3	0.0032 ppm	4.7388 ppm	0.0122 ppm	0.0528 ppm	13.4178 ppm	0.0086 ppm	0.3938 ppm
Concentration RSD	850.7 %	1.0 %	5.2 %	0.5 %	0.8 %	43.7 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8014 ppm	116.5000 %	123.6027 %	91.0325 %	117.5706 %	130.8672 %	121.0627 %
Concentration per Run 1	0.8124 ppm	114.7159 %	123.6303 %	90.2277 %	116.9372 %	131.5101 %	120.9899 %
Concentration per Run 2	0.7985 ppm	116.5690 %	123.2434 %	91.4275 %	117.7002 %	130.2955 %	121.1660 %
Concentration per Run 3	0.7931 ppm	118.2150 %	123.9343 %	91.4423 %	118.0746 %	130.7958 %	121.0323 %
Concentration RSD	1.2 %	1.5 %	0.3 %	0.8 %	0.5 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-22d2 WG1934069
Analysis started at: 6/15/2024 9:37:17 PM
Rack 3
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	170.3700 ppm	0.1744 ppm	0.0062 ppm	1.3418 ppm	0.0046 ppm	4.5148 ppm
Concentration per Run 1	0.0001 ppm	170.3180 ppm	0.1744 ppm	0.0061 ppm	1.3422 ppm	0.0046 ppm	4.5195 ppm
Concentration per Run 2	0.0010 ppm	170.5055 ppm	0.1754 ppm	0.0066 ppm	1.3413 ppm	0.0045 ppm	4.5173 ppm
Concentration per Run 3	0.0010 ppm	170.2866 ppm	0.1734 ppm	0.0059 ppm	1.3421 ppm	0.0046 ppm	4.5075 ppm
Concentration RSD	78.5 %	0.1 %	0.6 %	5.7 %	0.0 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.1221 ppm	0.2646 ppm	0.2359 ppm	244.0094 ppm	45.7865 ppm	0.1830 ppm
Concentration per Run 1	0.0025 ppm	0.1235 ppm	0.2680 ppm	0.2387 ppm	243.6536 ppm	45.8524 ppm	0.1865 ppm
Concentration per Run 2	0.0023 ppm	0.1217 ppm	0.2640 ppm	0.2358 ppm	244.5970 ppm	45.6856 ppm	0.1819 ppm
Concentration per Run 3	0.0026 ppm	0.1212 ppm	0.2617 ppm	0.2331 ppm	243.7775 ppm	45.8215 ppm	0.1807 ppm
Concentration RSD	7.0 %	1.0 %	1.2 %	1.2 %	0.2 %	0.2 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.0515 ppm	5.4487 ppm	0.0011 ppm	0.4464 ppm	0.2372 ppm	0.2723 ppm	0.0021 ppm
Concentration per Run 1	58.9215 ppm	5.4491 ppm	0.0011 ppm	0.4469 ppm	0.2414 ppm	0.2735 ppm	-0.0008 ppm
Concentration per Run 2	57.8397 ppm	5.4517 ppm	0.0009 ppm	0.4478 ppm	0.2361 ppm	0.2710 ppm	0.0075 ppm
Concentration per Run 3	57.3934 ppm	5.4453 ppm	0.0013 ppm	0.4445 ppm	0.2340 ppm	0.2722 ppm	-0.0005 ppm
Concentration RSD	1.4 %	0.1 %	15.0 %	0.4 %	1.6 %	0.5 %	226.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	5.0642 ppm	0.0112 ppm	0.0374 ppm	13.1601 ppm	0.0115 ppm	0.3703 ppm
Concentration per Run 1	0.0002 ppm	5.1322 ppm	0.0112 ppm	0.0377 ppm	13.3523 ppm	0.0097 ppm	0.3768 ppm
Concentration per Run 2	-0.0028 ppm	5.0626 ppm	0.0116 ppm	0.0374 ppm	13.1371 ppm	0.0132 ppm	0.3701 ppm
Concentration per Run 3	0.0032 ppm	4.9979 ppm	0.0109 ppm	0.0372 ppm	12.9909 ppm	0.0115 ppm	0.3640 ppm
Concentration RSD	1,531.5 %	1.3 %	3.1 %	0.6 %	1.4 %	15.2 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6479 ppm	114.3454 %	121.6242 %	92.1379 %	117.6390 %	129.8867 %	120.1910 %
Concentration per Run 1	0.6593 ppm	112.9033 %	123.0942 %	91.7725 %	117.2407 %	132.1525 %	120.5468 %
Concentration per Run 2	0.6442 ppm	114.5986 %	120.2687 %	92.0301 %	117.9574 %	128.0810 %	120.0239 %
Concentration per Run 3	0.6401 ppm	115.5343 %	121.5098 %	92.6109 %	117.7188 %	129.4265 %	120.0024 %
Concentration RSD	1.6 %	1.2 %	1.2 %	0.5 %	0.3 %	1.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-25d2 WG1934069
Analysis started at: 6/15/2024 9:41:17 PM
Rack 3
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	215.9926 ppm	0.7765 ppm	0.0065 ppm	1.9743 ppm	0.0050 ppm	9.3483 ppm
Concentration per Run 1	0.0018 ppm	216.1710 ppm	0.7742 ppm	0.0054 ppm	1.9811 ppm	0.0049 ppm	9.3436 ppm
Concentration per Run 2	0.0009 ppm	215.7224 ppm	0.7776 ppm	0.0067 ppm	1.9682 ppm	0.0053 ppm	9.3636 ppm
Concentration per Run 3	0.0008 ppm	216.0843 ppm	0.7778 ppm	0.0074 ppm	1.9736 ppm	0.0050 ppm	9.3377 ppm
Concentration RSD	45.2 %	0.1 %	0.3 %	15.7 %	0.3 %	4.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0066 ppm	0.1786 ppm	0.5017 ppm	0.1157 ppm	328.8296 ppm	58.7281 ppm	0.2513 ppm
Concentration per Run 1	0.0068 ppm	0.1816 ppm	0.5085 ppm	0.1179 ppm	329.3458 ppm	58.8179 ppm	0.2540 ppm
Concentration per Run 2	0.0068 ppm	0.1776 ppm	0.5007 ppm	0.1155 ppm	328.0293 ppm	58.5764 ppm	0.2493 ppm
Concentration per Run 3	0.0063 ppm	0.1765 ppm	0.4959 ppm	0.1136 ppm	329.1136 ppm	58.7901 ppm	0.2505 ppm
Concentration RSD	3.7 %	1.5 %	1.3 %	1.9 %	0.2 %	0.2 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	77.4976 ppm	7.4363 ppm	-0.0009 ppm	0.6987 ppm	0.3467 ppm	0.8909 ppm	0.0084 ppm
Concentration per Run 1	78.6378 ppm	7.4387 ppm	-0.0010 ppm	0.7011 ppm	0.3502 ppm	0.8917 ppm	0.0093 ppm
Concentration per Run 2	77.3803 ppm	7.4315 ppm	-0.0003 ppm	0.6986 ppm	0.3466 ppm	0.8887 ppm	0.0069 ppm
Concentration per Run 3	76.4748 ppm	7.4388 ppm	-0.0012 ppm	0.6965 ppm	0.3433 ppm	0.8923 ppm	0.0090 ppm
Concentration RSD	1.4 %	0.1 %	53.0 %	0.3 %	1.0 %	0.2 %	15.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.6105 ppm	0.0164 ppm	0.0621 ppm	17.7730 ppm	0.0163 ppm	0.5001 ppm
Concentration per Run 1	-0.0018 ppm	3.6790 ppm	0.0161 ppm	0.0623 ppm	18.0099 ppm	0.0179 ppm	0.5035 ppm
Concentration per Run 2	0.0033 ppm	3.6133 ppm	0.0167 ppm	0.0621 ppm	17.7192 ppm	0.0144 ppm	0.4995 ppm
Concentration per Run 3	-0.0009 ppm	3.5391 ppm	0.0163 ppm	0.0620 ppm	17.5898 ppm	0.0167 ppm	0.4972 ppm
Concentration RSD	1,258.2 %	1.9 %	2.0 %	0.3 %	1.2 %	11.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0018 ppm	117.4867 %	125.2104 %	87.6753 %	118.4833 %	132.1139 %	121.4868 %
Concentration per Run 1	1.0146 ppm	115.9366 %	125.2828 %	87.7703 %	117.8081 %	132.5188 %	121.2184 %
Concentration per Run 2	1.0003 ppm	117.1320 %	125.2906 %	87.8303 %	118.5219 %	132.1688 %	121.6619 %
Concentration per Run 3	0.9905 ppm	119.3914 %	125.0578 %	87.4253 %	119.1200 %	131.6540 %	121.5800 %
Concentration RSD	1.2 %	1.5 %	0.1 %	0.2 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-26d2 WG1934069
Analysis started at: 6/15/2024 9:45:17 PM
Rack 3
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	227.1818 ppm	0.0429 ppm	0.0035 ppm	1.9174 ppm	0.0039 ppm	5.0793 ppm
Concentration per Run 1	-0.0007 ppm	226.9160 ppm	0.0425 ppm	0.0042 ppm	1.9163 ppm	0.0040 ppm	5.0841 ppm
Concentration per Run 2	-0.0005 ppm	227.4613 ppm	0.0433 ppm	0.0017 ppm	1.9179 ppm	0.0038 ppm	5.0826 ppm
Concentration per Run 3	-0.0003 ppm	227.1683 ppm	0.0430 ppm	0.0048 ppm	1.9179 ppm	0.0039 ppm	5.0712 ppm
Concentration RSD	34.8 %	0.1 %	1.0 %	46.6 %	0.0 %	1.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.2319 ppm	0.4275 ppm	0.0527 ppm	396.5193 ppm	102.7740 ppm	0.3365 ppm
Concentration per Run 1	0.0026 ppm	0.2352 ppm	0.4321 ppm	0.0543 ppm	396.2231 ppm	102.9900 ppm	0.3377 ppm
Concentration per Run 2	0.0022 ppm	0.2319 ppm	0.4270 ppm	0.0519 ppm	397.0562 ppm	102.4592 ppm	0.3353 ppm
Concentration per Run 3	0.0022 ppm	0.2287 ppm	0.4233 ppm	0.0520 ppm	396.2786 ppm	102.8727 ppm	0.3365 ppm
Concentration RSD	9.4 %	1.4 %	1.0 %	2.6 %	0.1 %	0.3 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	104.8496 ppm	5.8480 ppm	-0.0022 ppm	1.1835 ppm	0.4471 ppm	0.1108 ppm	0.0084 ppm
Concentration per Run 1	106.0675 ppm	5.8464 ppm	-0.0021 ppm	1.1804 ppm	0.4514 ppm	0.1097 ppm	0.0068 ppm
Concentration per Run 2	104.9070 ppm	5.8528 ppm	-0.0025 ppm	1.1896 ppm	0.4476 ppm	0.1119 ppm	0.0130 ppm
Concentration per Run 3	103.5741 ppm	5.8448 ppm	-0.0018 ppm	1.1805 ppm	0.4424 ppm	0.1106 ppm	0.0053 ppm
Concentration RSD	1.2 %	0.1 %	15.6 %	0.4 %	1.0 %	1.0 %	48.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0053 ppm	2.6987 ppm	0.0182 ppm	0.0356 ppm	21.8461 ppm	0.0229 ppm	0.6007 ppm
Concentration per Run 1	-0.0060 ppm	2.7430 ppm	0.0188 ppm	0.0358 ppm	22.0661 ppm	0.0231 ppm	0.6074 ppm
Concentration per Run 2	-0.0042 ppm	2.6967 ppm	0.0175 ppm	0.0355 ppm	21.8408 ppm	0.0276 ppm	0.6006 ppm
Concentration per Run 3	-0.0057 ppm	2.6563 ppm	0.0182 ppm	0.0356 ppm	21.6313 ppm	0.0181 ppm	0.5940 ppm
Concentration RSD	18.6 %	1.6 %	3.3 %	0.3 %	1.0 %	20.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0359 ppm	122.0547 %	128.0207 %	85.0878 %	102.6748 %	113.3443 %	104.8990 %
Concentration per Run 1	1.0485 ppm	120.6464 %	129.0118 %	84.4769 %	102.5121 %	114.2012 %	104.6593 %
Concentration per Run 2	1.0349 ppm	121.9307 %	127.3031 %	84.6616 %	102.4304 %	112.8051 %	104.6014 %
Concentration per Run 3	1.0243 ppm	123.5868 %	127.7472 %	86.1247 %	103.0818 %	113.0264 %	105.4362 %
Concentration RSD	1.2 %	1.2 %	0.7 %	1.1 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432392-29d2 WG1934069
Analysis started at: 6/15/2024 9:49:17 PM
Rack 3
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	141.2349 ppm	0.2264 ppm	0.0070 ppm	0.6756 ppm	0.0049 ppm	8.9143 ppm
Concentration per Run 1	0.0012 ppm	141.3392 ppm	0.2278 ppm	0.0061 ppm	0.6751 ppm	0.0050 ppm	8.9296 ppm
Concentration per Run 2	0.0006 ppm	141.5815 ppm	0.2279 ppm	0.0072 ppm	0.6767 ppm	0.0049 ppm	8.9319 ppm
Concentration per Run 3	0.0010 ppm	140.7840 ppm	0.2236 ppm	0.0078 ppm	0.6750 ppm	0.0049 ppm	8.8813 ppm
Concentration RSD	30.5 %	0.3 %	1.1 %	11.8 %	0.1 %	1.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0028 ppm	0.0748 ppm	0.3275 ppm	0.1534 ppm	181.9483 ppm	8.1704 ppm	0.1209 ppm
Concentration per Run 1	0.0029 ppm	0.0760 ppm	0.3307 ppm	0.1552 ppm	181.8666 ppm	8.1875 ppm	0.1204 ppm
Concentration per Run 2	0.0028 ppm	0.0751 ppm	0.3265 ppm	0.1532 ppm	182.2019 ppm	8.1690 ppm	0.1234 ppm
Concentration per Run 3	0.0028 ppm	0.0734 ppm	0.3254 ppm	0.1520 ppm	181.7763 ppm	8.1545 ppm	0.1187 ppm
Concentration RSD	2.8 %	1.8 %	0.9 %	1.0 %	0.1 %	0.2 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.7373 ppm	3.8694 ppm	0.0018 ppm	0.2863 ppm	0.1517 ppm	0.7685 ppm	0.0011 ppm
Concentration per Run 1	41.1284 ppm	3.8640 ppm	0.0024 ppm	0.2853 ppm	0.1545 ppm	0.7709 ppm	0.0003 ppm
Concentration per Run 2	40.6396 ppm	3.8797 ppm	0.0013 ppm	0.2932 ppm	0.1504 ppm	0.7675 ppm	0.0040 ppm
Concentration per Run 3	40.4440 ppm	3.8646 ppm	0.0017 ppm	0.2803 ppm	0.1501 ppm	0.7670 ppm	-0.0009 ppm
Concentration RSD	0.9 %	0.2 %	28.6 %	2.3 %	1.6 %	0.3 %	228.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	3.5373 ppm	0.0098 ppm	0.0504 ppm	4.8949 ppm	0.0032 ppm	0.2916 ppm
Concentration per Run 1	0.0034 ppm	3.5821 ppm	0.0099 ppm	0.0504 ppm	4.9463 ppm	0.0038 ppm	0.2940 ppm
Concentration per Run 2	0.0022 ppm	3.5442 ppm	0.0098 ppm	0.0503 ppm	4.8775 ppm	0.0038 ppm	0.2926 ppm
Concentration per Run 3	0.0039 ppm	3.4857 ppm	0.0098 ppm	0.0505 ppm	4.8608 ppm	0.0021 ppm	0.2882 ppm
Concentration RSD	27.3 %	1.4 %	0.5 %	0.2 %	0.9 %	31.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6202 ppm	112.8565 %	118.8747 %	99.7458 %	119.9575 %	131.4745 %	123.9113 %
Concentration per Run 1	0.6295 ppm	111.4130 %	119.5404 %	99.0868 %	119.4717 %	132.6600 %	123.5640 %
Concentration per Run 2	0.6182 ppm	113.3288 %	118.5771 %	99.8086 %	120.7038 %	131.2525 %	124.0304 %
Concentration per Run 3	0.6130 ppm	113.8279 %	118.5064 %	100.3419 %	119.6971 %	130.5111 %	124.1395 %
Concentration RSD	1.4 %	1.1 %	0.5 %	0.6 %	0.5 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432394-01d2 WG1934069
Analysis started at: 6/15/2024 9:53:17 PM
Rack 3
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	139.7729 ppm	0.0411 ppm	0.0141 ppm	1.2812 ppm	0.0046 ppm	173.1688 ppm
Concentration per Run 1	0.0002 ppm	139.6377 ppm	0.0434 ppm	0.0144 ppm	1.2827 ppm	0.0046 ppm	173.0197 ppm
Concentration per Run 2	0.0003 ppm	139.7384 ppm	0.0415 ppm	0.0127 ppm	1.2798 ppm	0.0046 ppm	173.2539 ppm
Concentration per Run 3	-0.0001 ppm	139.9427 ppm	0.0384 ppm	0.0152 ppm	1.2812 ppm	0.0045 ppm	173.2329 ppm
Concentration RSD	145.2 %	0.1 %	6.1 %	8.9 %	0.1 %	2.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.0932 ppm	0.2645 ppm	0.3333 ppm	259.0835 ppm	62.6052 ppm	0.2457 ppm
Concentration per Run 1	0.0025 ppm	0.0952 ppm	0.2680 ppm	0.3374 ppm	260.0035 ppm	62.6235 ppm	0.2451 ppm
Concentration per Run 2	0.0026 ppm	0.0926 ppm	0.2642 ppm	0.3327 ppm	259.0658 ppm	62.5571 ppm	0.2457 ppm
Concentration per Run 3	0.0023 ppm	0.0917 ppm	0.2614 ppm	0.3297 ppm	258.1813 ppm	62.6350 ppm	0.2464 ppm
Concentration RSD	7.5 %	1.9 %	1.3 %	1.2 %	0.4 %	0.1 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	149.0534 ppm	2.6223 ppm	0.0109 ppm	1.8731 ppm	0.2103 ppm	0.5010 ppm	0.0034 ppm
Concentration per Run 1	151.1523 ppm	2.6157 ppm	0.0108 ppm	1.8712 ppm	0.2124 ppm	0.5045 ppm	0.0038 ppm
Concentration per Run 2	149.0228 ppm	2.6264 ppm	0.0110 ppm	1.8748 ppm	0.2100 ppm	0.5003 ppm	0.0007 ppm
Concentration per Run 3	146.9850 ppm	2.6248 ppm	0.0108 ppm	1.8733 ppm	0.2086 ppm	0.4982 ppm	0.0057 ppm
Concentration RSD	1.4 %	0.2 %	1.0 %	0.1 %	0.9 %	0.6 %	73.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	7.5768 ppm	0.0223 ppm	0.2136 ppm	10.8871 ppm	0.0124 ppm	0.3759 ppm
Concentration per Run 1	-0.0003 ppm	7.7135 ppm	0.0225 ppm	0.2154 ppm	11.0229 ppm	0.0105 ppm	0.3802 ppm
Concentration per Run 2	-0.0029 ppm	7.5830 ppm	0.0227 ppm	0.2132 ppm	10.8720 ppm	0.0132 ppm	0.3734 ppm
Concentration per Run 3	-0.0013 ppm	7.4339 ppm	0.0218 ppm	0.2123 ppm	10.7663 ppm	0.0136 ppm	0.3741 ppm
Concentration RSD	88.1 %	1.8 %	2.0 %	0.7 %	1.2 %	13.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8106 ppm	108.4999 %	114.5135 %	85.9280 %	102.5193 %	112.9312 %	102.9026 %
Concentration per Run 1	0.8231 ppm	107.0510 %	114.3059 %	85.6486 %	102.1815 %	112.8375 %	103.3091 %
Concentration per Run 2	0.8074 ppm	108.3700 %	114.1627 %	86.0481 %	102.5014 %	112.6101 %	103.3444 %
Concentration per Run 3	0.8013 ppm	110.0788 %	115.0719 %	86.0874 %	102.8751 %	113.3460 %	102.0543 %
Concentration RSD	1.4 %	1.4 %	0.4 %	0.3 %	0.3 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432394-02d2 WG1934069
Analysis started at: 6/15/2024 9:57:18 PM
Rack 3
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	148.0770 ppm	0.0291 ppm	0.0157 ppm	1.4135 ppm	0.0045 ppm	93.3585 ppm
Concentration per Run 1	0.0010 ppm	147.7877 ppm	0.0296 ppm	0.0162 ppm	1.4075 ppm	0.0045 ppm	93.4508 ppm
Concentration per Run 2	0.0005 ppm	148.1785 ppm	0.0293 ppm	0.0164 ppm	1.4167 ppm	0.0045 ppm	93.3383 ppm
Concentration per Run 3	0.0010 ppm	148.2650 ppm	0.0283 ppm	0.0144 ppm	1.4165 ppm	0.0044 ppm	93.2863 ppm
Concentration RSD	31.7 %	0.2 %	2.3 %	7.1 %	0.4 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0970 ppm	0.2548 ppm	1.0514 ppm	222.1853 ppm	56.6432 ppm	0.2348 ppm
Concentration per Run 1	0.0022 ppm	0.0985 ppm	0.2572 ppm	1.0632 ppm	221.7657 ppm	56.5224 ppm	0.2365 ppm
Concentration per Run 2	0.0016 ppm	0.0970 ppm	0.2548 ppm	1.0503 ppm	222.3866 ppm	56.5589 ppm	0.2334 ppm
Concentration per Run 3	0.0020 ppm	0.0956 ppm	0.2525 ppm	1.0405 ppm	222.4037 ppm	56.8482 ppm	0.2344 ppm
Concentration RSD	16.1 %	1.5 %	0.9 %	1.1 %	0.2 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	87.4020 ppm	2.4602 ppm	0.0056 ppm	2.4036 ppm	0.1850 ppm	0.5937 ppm	0.0004 ppm
Concentration per Run 1	88.3981 ppm	2.4522 ppm	0.0046 ppm	2.4021 ppm	0.1869 ppm	0.5981 ppm	0.0005 ppm
Concentration per Run 2	87.2263 ppm	2.4636 ppm	0.0059 ppm	2.4005 ppm	0.1847 ppm	0.5959 ppm	-0.0009 ppm
Concentration per Run 3	86.5815 ppm	2.4646 ppm	0.0061 ppm	2.4083 ppm	0.1834 ppm	0.5870 ppm	0.0017 ppm
Concentration RSD	1.1 %	0.3 %	14.7 %	0.2 %	0.9 %	1.0 %	300.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0035 ppm	14.8352 ppm	0.1082 ppm	0.1701 ppm	11.6737 ppm	0.0116 ppm	0.3974 ppm
Concentration per Run 1	-0.0036 ppm	15.0623 ppm	0.1082 ppm	0.1706 ppm	11.7889 ppm	0.0117 ppm	0.4010 ppm
Concentration per Run 2	-0.0036 ppm	14.7648 ppm	0.1082 ppm	0.1695 ppm	11.6725 ppm	0.0133 ppm	0.3990 ppm
Concentration per Run 3	-0.0032 ppm	14.6786 ppm	0.1081 ppm	0.1702 ppm	11.5597 ppm	0.0097 ppm	0.3921 ppm
Concentration RSD	7.4 %	1.4 %	0.0 %	0.3 %	1.0 %	15.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7297 ppm	111.0535 %	117.0223 %	88.5450 %	105.2800 %	114.6854 %	105.2102 %
Concentration per Run 1	0.7361 ppm	109.1700 %	117.3013 %	87.9485 %	104.5585 %	115.2843 %	105.0497 %
Concentration per Run 2	0.7296 ppm	111.9485 %	116.5843 %	88.4451 %	106.1219 %	114.1385 %	105.0319 %
Concentration per Run 3	0.7235 ppm	112.0420 %	117.1813 %	89.2416 %	105.1596 %	114.6335 %	105.5491 %
Concentration RSD	0.9 %	1.5 %	0.3 %	0.7 %	0.7 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 10:01:18 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4984 ppm	0.5122 ppm	0.4697 ppm	0.4888 ppm	0.5051 ppm	0.5117 ppm	0.5094 ppm
Concentration per Run 1	0.5001 ppm	0.5098 ppm	0.4716 ppm	0.4898 ppm	0.5036 ppm	0.5118 ppm	0.5136 ppm
Concentration per Run 2	0.4970 ppm	0.5056 ppm	0.4671 ppm	0.4884 ppm	0.5063 ppm	0.5121 ppm	0.5111 ppm
Concentration per Run 3	0.4982 ppm	0.5214 ppm	0.4705 ppm	0.4882 ppm	0.5055 ppm	0.5112 ppm	0.5036 ppm
Recovery Percentage 1	99.687 %	102.449 %	93.942 %	97.761 %	101.026 %	102.341 %	101.889 %
Concentration RSD	0.3 %	1.6 %	0.5 %	0.2 %	0.3 %	0.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4943 ppm	0.5035 ppm	0.4878 ppm	0.4901 ppm	0.5518 ppm	5.2189 ppm	0.4960 ppm
Concentration per Run 1	0.4978 ppm	0.5078 ppm	0.4908 ppm	0.4940 ppm	0.5542 ppm	5.2771 ppm	0.4971 ppm
Concentration per Run 2	0.4909 ppm	0.4999 ppm	0.4858 ppm	0.4873 ppm	0.5561 ppm	5.1931 ppm	0.4937 ppm
Concentration per Run 3	0.4943 ppm	0.5027 ppm	0.4867 ppm	0.4892 ppm	0.5450 ppm	5.1867 ppm	0.4973 ppm
Recovery Percentage 1	98.867 %	100.693 %	97.556 %	98.026 %	110.354 %	104.379 %	99.209 %
Concentration RSD	0.7 %	0.8 %	0.5 %	0.7 %	1.1 %	1.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4964 ppm	0.4961 ppm	0.4903 ppm	10.1799 ppm	0.5015 ppm	0.4899 ppm	0.4784 ppm
Concentration per Run 1	0.5001 ppm	0.4967 ppm	0.4879 ppm	10.1823 ppm	0.5032 ppm	0.4931 ppm	0.4785 ppm
Concentration per Run 2	0.4944 ppm	0.4958 ppm	0.4867 ppm	10.2010 ppm	0.5015 ppm	0.4890 ppm	0.4720 ppm
Concentration per Run 3	0.4947 ppm	0.4957 ppm	0.4963 ppm	10.1565 ppm	0.4999 ppm	0.4877 ppm	0.4847 ppm
Recovery Percentage 1	99.282 %	99.211 %	98.062 %	101.799 %	100.307 %	97.984 %	95.679 %
Concentration RSD	0.6 %	0.1 %	1.1 %	0.2 %	0.3 %	0.6 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4756 ppm	5.0667 ppm	0.5065 ppm	0.5125 ppm	0.4982 ppm	0.4980 ppm	0.4896 ppm
Concentration per Run 1	0.4786 ppm	5.0891 ppm	0.5003 ppm	0.5139 ppm	0.5012 ppm	0.5015 ppm	0.4939 ppm
Concentration per Run 2	0.4744 ppm	5.0425 ppm	0.5084 ppm	0.5123 ppm	0.4954 ppm	0.4965 ppm	0.4868 ppm
Concentration per Run 3	0.4739 ppm	5.0686 ppm	0.5109 ppm	0.5113 ppm	0.4979 ppm	0.4960 ppm	0.4882 ppm
Recovery Percentage 1	95.126 %	96.509 %	101.304 %	102.501 %	99.633 %	99.599 %	97.928 %
Concentration RSD	0.5 %	0.5 %	1.1 %	0.3 %	0.6 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4981 ppm	113.1566 %	111.1233 %	108.7229 %	99.9579 %	101.2730 %	99.2759 %
Concentration per Run 1	0.5007 ppm	112.4275 %	110.7362 %	108.1232 %	100.8217 %	101.1373 %	99.5167 %
Concentration per Run 2	0.4958 ppm	113.4745 %	110.8283 %	108.8427 %	99.7656 %	100.8341 %	99.0281 %
Concentration per Run 3	0.4978 ppm	113.5678 %	111.8054 %	109.2030 %	99.2865 %	101.8476 %	99.2828 %
Recovery Percentage 1	99.629 %						
Concentration RSD	0.5 %	0.6 %	0.5 %	0.5 %	0.8 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 10:05:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0039 ppm	-0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	-0.0007 ppm	0.0008 ppm	-0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0026 ppm
Concentration per Run 2	-0.0003 ppm	-0.0086 ppm	-0.0021 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	-0.0007 ppm	0.0196 ppm	-0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	-7.915 %	3.921 %	-59.774 %	-0.166 %	-0.113 %	0.786 %	-0.304 %
Concentration RSD	32.8 %	366.3 %	19.0 %	290.1 %	1,335.6 %	16.3 %	764.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0051 ppm	0.0067 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0003 ppm	0.0004 ppm	0.0061 ppm	-0.0044 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0005 ppm	0.0031 ppm	0.0059 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0003 ppm	0.0061 ppm	0.0185 ppm	-0.0021 ppm
Recovery Percentage 1	-0.146 %	0.425 %	-3.847 %	4.026 %	10.181 %	0.267 %	-8.256 %
Concentration RSD	309.6 %	780.9 %	41.5 %	31.4 %	34.0 %	171.8 %	165.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0001 ppm	-0.0005 ppm	-0.0549 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	-0.0001 ppm	-0.0529 ppm	0.0003 ppm	-0.0010 ppm	-0.0009 ppm
Concentration per Run 2	-0.0011 ppm	0.0002 ppm	-0.0009 ppm	-0.0551 ppm	-0.0006 ppm	0.0005 ppm	-0.0012 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	-0.0005 ppm	-0.0567 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-1.012 %	1.489 %	-1.025 %	-2.746 %	0.070 %	0.635 %	-1.334 %
Concentration RSD	45.0 %	53.5 %	72.6 %	3.4 %	2,840.1 %	1,508.9 %	107.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0032 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	-0.0048 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	-0.0047 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	0.0002 ppm
Recovery Percentage 1	5.850 %	-0.646 %	-0.080 %	0.610 %	-0.192 %	-4.052 %	1.198 %
Concentration RSD	134.6 %	80.1 %	1,124.6 %	33.9 %	1,686.1 %	90.5 %	137.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	100.8611 %	102.5091 %	101.9720 %	100.0880 %	102.0352 %	101.3790 %
Concentration per Run 1	0.0005 ppm	99.2113 %	102.1777 %	100.6987 %	99.4921 %	102.5766 %	101.0340 %
Concentration per Run 2	0.0007 ppm	101.0286 %	102.1283 %	102.2762 %	100.5520 %	101.5108 %	101.7330 %
Concentration per Run 3	0.0007 ppm	102.3433 %	103.2212 %	102.9411 %	100.2200 %	102.0182 %	101.3701 %
Recovery Percentage 1	12.674 %						
Concentration RSD	16.1 %	1.6 %	0.6 %	1.1 %	0.5 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432394-03d2 WG1934069
Analysis started at: 6/15/2024 10:10:07 PM
Rack 3
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	117.1188 ppm	0.0359 ppm	0.0164 ppm	1.2490 ppm	0.0036 ppm	99.9765 ppm
Concentration per Run 1	0.0005 ppm	117.5723 ppm	0.0347 ppm	0.0157 ppm	1.2467 ppm	0.0035 ppm	100.2864 ppm
Concentration per Run 2	0.0003 ppm	117.0935 ppm	0.0342 ppm	0.0159 ppm	1.2519 ppm	0.0036 ppm	99.8726 ppm
Concentration per Run 3	-0.0001 ppm	116.6906 ppm	0.0388 ppm	0.0175 ppm	1.2484 ppm	0.0037 ppm	99.7705 ppm
Concentration RSD	119.5 %	0.4 %	7.1 %	5.9 %	0.2 %	2.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0836 ppm	0.2271 ppm	0.3177 ppm	218.3836 ppm	51.0737 ppm	0.2042 ppm
Concentration per Run 1	0.0018 ppm	0.0847 ppm	0.2298 ppm	0.3211 ppm	218.1931 ppm	51.2584 ppm	0.2060 ppm
Concentration per Run 2	0.0020 ppm	0.0836 ppm	0.2272 ppm	0.3173 ppm	218.8302 ppm	51.0900 ppm	0.2039 ppm
Concentration per Run 3	0.0016 ppm	0.0825 ppm	0.2241 ppm	0.3146 ppm	218.1274 ppm	50.8726 ppm	0.2028 ppm
Concentration RSD	9.2 %	1.4 %	1.3 %	1.0 %	0.2 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	87.6606 ppm	2.4550 ppm	0.0043 ppm	2.3966 ppm	0.1726 ppm	0.6900 ppm	0.0039 ppm
Concentration per Run 1	88.8635 ppm	2.4571 ppm	0.0035 ppm	2.3982 ppm	0.1760 ppm	0.6749 ppm	0.0019 ppm
Concentration per Run 2	87.7514 ppm	2.4639 ppm	0.0049 ppm	2.3972 ppm	0.1718 ppm	0.6965 ppm	0.0095 ppm
Concentration per Run 3	86.3670 ppm	2.4440 ppm	0.0047 ppm	2.3944 ppm	0.1701 ppm	0.6986 ppm	0.0003 ppm
Concentration RSD	1.4 %	0.4 %	17.6 %	0.1 %	1.7 %	1.9 %	125.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	9.4334 ppm	0.2218 ppm	0.2708 ppm	9.7333 ppm	0.0088 ppm	0.3458 ppm
Concentration per Run 1	-0.0012 ppm	9.6088 ppm	0.2214 ppm	0.2708 ppm	9.8483 ppm	0.0064 ppm	0.3484 ppm
Concentration per Run 2	-0.0013 ppm	9.4412 ppm	0.2221 ppm	0.2705 ppm	9.7264 ppm	0.0094 ppm	0.3443 ppm
Concentration per Run 3	0.0012 ppm	9.2504 ppm	0.2218 ppm	0.2712 ppm	9.6252 ppm	0.0105 ppm	0.3446 ppm
Concentration RSD	321.1 %	1.9 %	0.2 %	0.1 %	1.1 %	24.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7879 ppm	109.0195 %	115.7627 %	90.5640 %	105.2453 %	115.4808 %	106.9192 %
Concentration per Run 1	0.8001 ppm	107.2507 %	115.5503 %	92.3334 %	104.8339 %	115.8141 %	109.0949 %
Concentration per Run 2	0.7866 ppm	108.7187 %	115.5989 %	90.2659 %	104.8195 %	114.9154 %	106.5343 %
Concentration per Run 3	0.7771 ppm	111.0893 %	116.1388 %	89.0928 %	106.0827 %	115.7129 %	105.1285 %
Concentration RSD	1.5 %	1.8 %	0.3 %	1.8 %	0.7 %	0.4 %	1.9 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432438-01d2 WG1934069
Analysis started at: 6/15/2024 10:14:08 PM
Rack 3
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	70.1549 ppm	0.0641 ppm	0.0873 ppm	2.1320 ppm	0.0047 ppm	125.6357 ppm
Concentration per Run 1	0.0005 ppm	70.2743 ppm	0.0650 ppm	0.0876 ppm	2.1411 ppm	0.0047 ppm	126.0560 ppm
Concentration per Run 2	0.0009 ppm	70.1430 ppm	0.0628 ppm	0.0868 ppm	2.1331 ppm	0.0047 ppm	125.4461 ppm
Concentration per Run 3	0.0010 ppm	70.0474 ppm	0.0644 ppm	0.0874 ppm	2.1218 ppm	0.0047 ppm	125.4051 ppm
Concentration RSD	29.9 %	0.2 %	1.8 %	0.5 %	0.5 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.0779 ppm	0.1700 ppm	0.4795 ppm	185.8623 ppm	11.7528 ppm	0.1027 ppm
Concentration per Run 1	0.0106 ppm	0.0783 ppm	0.1724 ppm	0.4842 ppm	186.2980 ppm	11.8083 ppm	0.1046 ppm
Concentration per Run 2	0.0107 ppm	0.0782 ppm	0.1692 ppm	0.4797 ppm	185.4768 ppm	11.7475 ppm	0.1023 ppm
Concentration per Run 3	0.0103 ppm	0.0773 ppm	0.1683 ppm	0.4745 ppm	185.8120 ppm	11.7027 ppm	0.1012 ppm
Concentration RSD	2.0 %	0.7 %	1.3 %	1.0 %	0.2 %	0.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.4905 ppm	4.1135 ppm	0.0036 ppm	8.0030 ppm	0.1779 ppm	11.9268 ppm	0.0283 ppm
Concentration per Run 1	43.0859 ppm	4.1240 ppm	0.0040 ppm	8.0062 ppm	0.1821 ppm	11.9463 ppm	0.0285 ppm
Concentration per Run 2	42.4442 ppm	4.1067 ppm	0.0031 ppm	8.0143 ppm	0.1773 ppm	11.8996 ppm	0.0307 ppm
Concentration per Run 3	41.9414 ppm	4.1097 ppm	0.0037 ppm	7.9885 ppm	0.1742 ppm	11.9344 ppm	0.0257 ppm
Concentration RSD	1.4 %	0.2 %	12.6 %	0.2 %	2.2 %	0.2 %	8.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	4.2852 ppm	0.0664 ppm	0.4848 ppm	3.2094 ppm	0.0026 ppm	0.2273 ppm
Concentration per Run 1	0.0011 ppm	4.3329 ppm	0.0649 ppm	0.4841 ppm	3.2508 ppm	0.0024 ppm	0.2304 ppm
Concentration per Run 2	0.0001 ppm	4.2915 ppm	0.0665 ppm	0.4825 ppm	3.2016 ppm	0.0031 ppm	0.2267 ppm
Concentration per Run 3	0.0012 ppm	4.2312 ppm	0.0677 ppm	0.4877 ppm	3.1758 ppm	0.0023 ppm	0.2248 ppm
Concentration RSD	79.7 %	1.2 %	2.1 %	0.5 %	1.2 %	16.2 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9344 ppm	111.0456 %	116.6576 %	98.1677 %	113.5403 %	124.3963 %	116.2053 %
Concentration per Run 1	2.9848 ppm	109.0173 %	115.7458 %	98.0084 %	112.7819 %	123.9705 %	116.3912 %
Concentration per Run 2	2.9245 ppm	111.1911 %	117.1020 %	98.1121 %	113.7103 %	124.8041 %	116.2647 %
Concentration per Run 3	2.8939 ppm	112.9285 %	117.1251 %	98.3827 %	114.1287 %	124.4144 %	115.9600 %
Concentration RSD	1.6 %	1.8 %	0.7 %	0.2 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: L2432438-02d2 WG1934069
Analysis started at: 6/15/2024 10:18:08 PM
Rack 3
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	63.1715 ppm	0.0606 ppm	0.0216 ppm	1.4173 ppm	0.0048 ppm	53.7001 ppm
Concentration per Run 1	0.0009 ppm	63.1519 ppm	0.0601 ppm	0.0217 ppm	1.4180 ppm	0.0048 ppm	53.8344 ppm
Concentration per Run 2	0.0014 ppm	63.0545 ppm	0.0594 ppm	0.0221 ppm	1.4169 ppm	0.0048 ppm	53.5752 ppm
Concentration per Run 3	0.0012 ppm	63.3081 ppm	0.0624 ppm	0.0209 ppm	1.4171 ppm	0.0048 ppm	53.6908 ppm
Concentration RSD	21.7 %	0.2 %	2.7 %	2.8 %	0.0 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0074 ppm	0.0905 ppm	0.1701 ppm	0.3930 ppm	186.2267 ppm	12.2422 ppm	0.0898 ppm
Concentration per Run 1	0.0074 ppm	0.0915 ppm	0.1723 ppm	0.3957 ppm	186.6144 ppm	12.2557 ppm	0.0913 ppm
Concentration per Run 2	0.0075 ppm	0.0903 ppm	0.1698 ppm	0.3938 ppm	185.5767 ppm	12.1613 ppm	0.0889 ppm
Concentration per Run 3	0.0074 ppm	0.0897 ppm	0.1682 ppm	0.3896 ppm	186.4888 ppm	12.3096 ppm	0.0891 ppm
Concentration RSD	1.1 %	1.0 %	1.2 %	0.8 %	0.3 %	0.6 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.7544 ppm	5.1036 ppm	0.0027 ppm	5.8023 ppm	0.1791 ppm	3.0574 ppm	0.0048 ppm
Concentration per Run 1	27.0494 ppm	5.1051 ppm	0.0030 ppm	5.8215 ppm	0.1801 ppm	3.0802 ppm	0.0036 ppm
Concentration per Run 2	26.7902 ppm	5.0913 ppm	0.0024 ppm	5.8076 ppm	0.1788 ppm	3.0520 ppm	0.0062 ppm
Concentration per Run 3	26.4236 ppm	5.1144 ppm	0.0026 ppm	5.7778 ppm	0.1784 ppm	3.0399 ppm	0.0045 ppm
Concentration RSD	1.2 %	0.2 %	10.6 %	0.4 %	0.5 %	0.7 %	27.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.3716 ppm	0.0600 ppm	0.1863 ppm	3.3551 ppm	0.0029 ppm	0.2319 ppm
Concentration per Run 1	-0.0017 ppm	4.4187 ppm	0.0601 ppm	0.1860 ppm	3.3830 ppm	0.0034 ppm	0.2337 ppm
Concentration per Run 2	0.0011 ppm	4.3690 ppm	0.0590 ppm	0.1867 ppm	3.3540 ppm	0.0027 ppm	0.2314 ppm
Concentration per Run 3	0.0003 ppm	4.3272 ppm	0.0609 ppm	0.1862 ppm	3.3282 ppm	0.0027 ppm	0.2307 ppm
Concentration RSD	1,493.7 %	1.0 %	1.6 %	0.2 %	0.8 %	13.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.1206 ppm	112.5374 %	116.9421 %	100.1045 %	116.9060 %	126.3729 %	117.7939 %
Concentration per Run 1	2.1488 ppm	110.7945 %	116.3465 %	99.0239 %	116.6130 %	126.4494 %	117.2965 %
Concentration per Run 2	2.1089 ppm	111.9101 %	117.4490 %	100.8012 %	115.9529 %	126.8433 %	118.5597 %
Concentration per Run 3	2.1042 ppm	114.9077 %	117.0308 %	100.4885 %	118.1520 %	125.8260 %	117.5254 %
Concentration RSD	1.2 %	1.9 %	0.5 %	0.9 %	1.0 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCV
Analysis started at: 6/15/2024 10:22:09 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5154 ppm	0.5099 ppm	0.4526 ppm	0.5026 ppm	0.5017 ppm	0.5071 ppm	0.5091 ppm
Concentration per Run 1	0.5221 ppm	0.5154 ppm	0.4348 ppm	0.5058 ppm	0.5027 ppm	0.5075 ppm	0.5123 ppm
Concentration per Run 2	0.5144 ppm	0.4996 ppm	0.4573 ppm	0.5034 ppm	0.5002 ppm	0.5065 ppm	0.5090 ppm
Concentration per Run 3	0.5096 ppm	0.5148 ppm	0.4655 ppm	0.4986 ppm	0.5024 ppm	0.5072 ppm	0.5061 ppm
Recovery Percentage 1	103.077 %	101.986 %	90.511 %	100.522 %	100.350 %	101.412 %	101.829 %
Concentration RSD	1.2 %	1.8 %	3.5 %	0.7 %	0.3 %	0.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5121 ppm	0.5211 ppm	0.5042 ppm	0.5077 ppm	0.5505 ppm	5.1634 ppm	0.4919 ppm
Concentration per Run 1	0.5205 ppm	0.5296 ppm	0.5136 ppm	0.5153 ppm	0.5526 ppm	5.2147 ppm	0.4951 ppm
Concentration per Run 2	0.5093 ppm	0.5184 ppm	0.5014 ppm	0.5072 ppm	0.5509 ppm	5.1494 ppm	0.4874 ppm
Concentration per Run 3	0.5065 ppm	0.5153 ppm	0.4975 ppm	0.5006 ppm	0.5481 ppm	5.1261 ppm	0.4931 ppm
Recovery Percentage 1	102.425 %	104.219 %	100.830 %	101.540 %	110.107 %	103.268 %	98.370 %
Concentration RSD	1.5 %	1.4 %	1.7 %	1.4 %	0.4 %	0.9 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5132 ppm	0.4944 ppm	0.5078 ppm	10.1375 ppm	0.5177 ppm	0.4687 ppm	0.4944 ppm
Concentration per Run 1	0.5225 ppm	0.4947 ppm	0.5102 ppm	10.1689 ppm	0.5290 ppm	0.4535 ppm	0.4997 ppm
Concentration per Run 2	0.5121 ppm	0.4937 ppm	0.5075 ppm	10.1260 ppm	0.5146 ppm	0.4718 ppm	0.4924 ppm
Concentration per Run 3	0.5049 ppm	0.4947 ppm	0.5057 ppm	10.1174 ppm	0.5095 ppm	0.4808 ppm	0.4911 ppm
Recovery Percentage 1	102.634 %	98.874 %	101.557 %	101.375 %	103.537 %	93.743 %	98.877 %
Concentration RSD	1.7 %	0.1 %	0.4 %	0.3 %	2.0 %	3.0 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4581 ppm	5.2285 ppm	0.5182 ppm	0.5077 ppm	0.5135 ppm	0.4767 ppm	0.5060 ppm
Concentration per Run 1	0.4425 ppm	5.3013 ppm	0.5212 ppm	0.5041 ppm	0.5217 ppm	0.4590 ppm	0.5122 ppm
Concentration per Run 2	0.4643 ppm	5.2214 ppm	0.5155 ppm	0.5098 ppm	0.5135 ppm	0.4839 ppm	0.5062 ppm
Concentration per Run 3	0.4674 ppm	5.1627 ppm	0.5178 ppm	0.5092 ppm	0.5054 ppm	0.4871 ppm	0.4996 ppm
Recovery Percentage 1	91.617 %	99.590 %	103.635 %	101.540 %	102.704 %	95.334 %	101.201 %
Concentration RSD	3.0 %	1.3 %	0.6 %	0.6 %	1.6 %	3.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5150 ppm	109.3395 %	111.1315 %	113.7771 %	97.6624 %	100.3355 %	103.8091 %
Concentration per Run 1	0.5252 ppm	107.1510 %	111.5033 %	117.1617 %	96.8850 %	100.7050 %	108.6043 %
Concentration per Run 2	0.5127 ppm	109.7808 %	110.6166 %	112.7581 %	97.9179 %	99.8365 %	103.2030 %
Concentration per Run 3	0.5072 ppm	111.0868 %	111.2747 %	111.4116 %	98.1844 %	100.4650 %	99.6199 %
Recovery Percentage 1	103.008 %						
Concentration RSD	1.8 %	1.8 %	0.4 %	2.6 %	0.7 %	0.4 %	4.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:26:26 AM

LabBook: WG1934785_06152024T8.imexp

Sample: CCB
Analysis started at: 6/15/2024 10:26:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0086 ppm	-0.0008 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	0.0001 ppm	0.0059 ppm	-0.0003 ppm	-0.0008 ppm	-0.0002 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 2	-0.0005 ppm	0.0150 ppm	-0.0021 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0002 ppm	0.0049 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0041 ppm
Recovery Percentage 1	-0.653 %	8.583 %	-26.276 %	-0.616 %	-1.474 %	0.613 %	-1.197 %
Concentration RSD	776.4 %	64.7 %	151.3 %	323.4 %	64.6 %	175.3 %	384.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0008 ppm	0.0058 ppm	-0.0125 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0004 ppm	0.0010 ppm	0.0055 ppm	0.0177 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0061 ppm	-0.0262 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0003 ppm	0.0058 ppm	-0.0290 ppm	-0.0005 ppm
Recovery Percentage 1	0.184 %	0.980 %	-3.720 %	7.724 %	11.609 %	-0.499 %	-0.249 %
Concentration RSD	399.5 %	185.1 %	47.0 %	51.8 %	4.8 %	209.8 %	8,295.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	0.0000 ppm	-0.0007 ppm	-0.0604 ppm	-0.0005 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0010 ppm	-0.0548 ppm	-0.0005 ppm	0.0001 ppm	-0.0048 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	-0.0718 ppm	0.0000 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 3	0.0021 ppm	-0.0001 ppm	-0.0005 ppm	-0.0546 ppm	-0.0009 ppm	-0.0001 ppm	0.0057 ppm
Recovery Percentage 1	0.589 %	0.450 %	-1.405 %	-3.020 %	-1.906 %	-4.657 %	0.489 %
Concentration RSD	226.3 %	198.7 %	36.2 %	16.3 %	92.2 %	166.5 %	2,139.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0066 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0069 ppm	0.0004 ppm	0.0002 ppm	-0.0003 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0074 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0053 ppm	-0.0012 ppm	0.0001 ppm	-0.0003 ppm	-0.0010 ppm	-0.0001 ppm
Recovery Percentage 1	-3.479 %	-1.312 %	-0.646 %	1.152 %	-1.489 %	-2.360 %	-0.176 %
Concentration RSD	145.7 %	16.7 %	240.8 %	52.4 %	136.3 %	140.8 %	458.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	99.9570 %	102.2106 %	101.2151 %	98.9725 %	101.6489 %	100.6459 %
Concentration per Run 1	0.0003 ppm	97.7247 %	102.0360 %	99.7043 %	97.5722 %	102.3291 %	100.1486 %
Concentration per Run 2	0.0008 ppm	100.4231 %	102.3352 %	101.4136 %	99.6838 %	101.9708 %	101.0448 %
Concentration per Run 3	0.0005 ppm	101.7233 %	102.2607 %	102.5274 %	99.6616 %	100.6468 %	100.7444 %
Recovery Percentage 1	10.408 %						
Concentration RSD	51.9 %	2.0 %	0.2 %	1.4 %	1.2 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: Blank MAM Trace8
Analysis started at: 6/15/2024 9:00:24 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	-0.5 %	-1.6 %	0.4 %	0.1 %	-0.5 %	-0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	22.4 %	0.2 %	-0.7 %	0.1 %	-0.3 %	1.2 %	-0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-0.1 %	0.1 %	0.1 %	0.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.3 %	0.1 %	0.6 %	-1.0 %	-0.7 %	-0.3 %	-0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-2.2 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: ICAL
Analysis started at: 6/15/2024 9:04:31 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0079 ppm	25.0479 ppm	1.0042 ppm	1.0053 ppm	1.0037 ppm	1.0016 ppm	10.0001 ppm
Concentration per Run 2	1.0017 ppm	24.8320 ppm	0.9989 ppm	1.0027 ppm	0.9949 ppm	0.9992 ppm	10.0006 ppm
Concentration per Run 3	0.9904 ppm	25.1201 ppm	0.9969 ppm	0.9920 ppm	1.0014 ppm	0.9992 ppm	9.9993 ppm
Concentration RSD	0.9 %	0.6 %	0.4 %	0.7 %	0.5 %	0.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0101 ppm	1.0127 ppm	1.0132 ppm	1.0064 ppm	25.0792 ppm	35.2501 ppm	1.0130 ppm
Concentration per Run 2	0.9989 ppm	0.9965 ppm	0.9976 ppm	1.0016 ppm	24.9196 ppm	34.6670 ppm	0.9918 ppm
Concentration per Run 3	0.9910 ppm	0.9908 ppm	0.9891 ppm	0.9920 ppm	25.0011 ppm	35.0829 ppm	0.9952 ppm
Concentration RSD	1.0 %	1.1 %	1.2 %	0.7 %	0.3 %	0.9 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.1250 ppm	1.0009 ppm	0.9969 ppm	24.9235 ppm	1.0152 ppm	1.0010 ppm	1.0119 ppm
Concentration per Run 2	9.9867 ppm	0.9995 ppm	0.9991 ppm	25.0257 ppm	0.9940 ppm	0.9980 ppm	0.9981 ppm
Concentration per Run 3	9.8883 ppm	0.9996 ppm	1.0040 ppm	25.0508 ppm	0.9907 ppm	1.0009 ppm	0.9900 ppm
Concentration RSD	1.2 %	0.1 %	0.4 %	0.3 %	1.3 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9961 ppm	10.0857 ppm	1.0048 ppm	1.0008 ppm	1.0093 ppm	0.9967 ppm	1.0097 ppm
Concentration per Run 2	1.0069 ppm	9.9889 ppm	1.0016 ppm	1.0001 ppm	0.9997 ppm	1.0018 ppm	1.0002 ppm
Concentration per Run 3	0.9970 ppm	9.9255 ppm	0.9936 ppm	0.9991 ppm	0.9910 ppm	1.0014 ppm	0.9901 ppm
Concentration RSD	0.6 %	0.8 %	0.6 %	0.1 %	0.9 %	0.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	110.3338 %	110.9265 %	103.1956 %	94.4790 %	99.7473 %	95.8683 %
Concentration per Run 1	1.0122 ppm	108.5562 %	110.5142 %	102.6896 %	93.6943 %	99.1536 %	95.8801 %
Concentration per Run 2	0.9973 ppm	110.6025 %	111.0579 %	103.2833 %	94.6125 %	99.5425 %	95.8055 %
Concentration per Run 3	0.9905 ppm	111.8427 %	111.2073 %	103.6139 %	95.1302 %	100.5457 %	95.9192 %
Concentration RSD	1.1 %	1.5 %	0.3 %	0.5 %	0.8 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934232-1 WG1934232
Analysis started at: 6/15/2024 10:58:33 PM
Rack 3
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0137 ppm	-0.0005 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0167 ppm
Concentration per Run 1	0.0000 ppm	0.0067 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0144 ppm
Concentration per Run 2	0.0002 ppm	0.0224 ppm	0.0016 ppm	-0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0178 ppm
Concentration per Run 3	0.0003 ppm	0.0122 ppm	-0.0021 ppm	-0.0012 ppm	0.0002 ppm	-0.0001 ppm	0.0177 ppm
Recovery Percentage 1	2.359 %	13.747 %	-15.580 %	-3.196 %	1.045 %	-1.058 %	16.658 %
Concentration RSD	110.6 %	58.0 %	403.6 %	100.8 %	81.9 %	33.7 %	11.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0224 ppm	-0.0123 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0233 ppm	0.0055 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0006 ppm	-0.0001 ppm	0.0204 ppm	-0.0150 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm	0.0237 ppm	-0.0274 ppm	0.0004 ppm
Recovery Percentage 1	-0.369 %	-0.366 %	3.755 %	-0.475 %	44.873 %	-0.493 %	10.357 %
Concentration RSD	74.9 %	446.3 %	75.3 %	229.6 %	8.1 %	135.1 %	97.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0040 ppm	0.0003 ppm	-0.0018 ppm	-0.0305 ppm	-0.0003 ppm	-0.0003 ppm	-0.0015 ppm
Concentration per Run 1	0.0044 ppm	0.0001 ppm	-0.0019 ppm	-0.0357 ppm	-0.0004 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 2	0.0043 ppm	0.0004 ppm	-0.0015 ppm	-0.0286 ppm	0.0003 ppm	-0.0008 ppm	-0.0033 ppm
Concentration per Run 3	0.0033 ppm	0.0004 ppm	-0.0020 ppm	-0.0272 ppm	-0.0008 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	4.010 %	2.822 %	-3.593 %	-1.526 %	-1.201 %	-3.126 %	-3.050 %
Concentration RSD	14.6 %	68.2 %	16.0 %	15.0 %	191.4 %	183.1 %	110.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0148 ppm	0.0004 ppm	0.0001 ppm	0.0060 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0019 ppm	0.0113 ppm	0.0004 ppm	0.0001 ppm	0.0177 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0233 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	-0.0009 ppm	0.0099 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	-8.860 %	2.966 %	0.791 %	0.846 %	59.845 %	0.589 %	1.878 %
Concentration RSD	114.9 %	49.7 %	27.1 %	20.5 %	169.0 %	1,098.8 %	47.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	105.5071 %	104.7599 %	104.9108 %	101.0058 %	101.3513 %	100.6329 %
Concentration per Run 1	0.0011 ppm	103.6898 %	104.7688 %	103.9800 %	100.3285 %	101.6843 %	100.4985 %
Concentration per Run 2	0.0009 ppm	106.2258 %	104.2894 %	104.7909 %	101.7551 %	100.9022 %	100.6391 %
Concentration per Run 3	0.0009 ppm	106.6058 %	105.2214 %	105.9615 %	100.9339 %	101.4674 %	100.7611 %
Recovery Percentage 1	20.123 %						
Concentration RSD	12.3 %	1.5 %	0.4 %	0.9 %	0.7 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934232-2d2 WG1934232
Analysis started at: 6/15/2024 11:02:43 PM
Rack 3
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0526 ppm	2.0528 ppm	0.1227 ppm	1.0353 ppm	2.0179 ppm	0.0513 ppm	10.4000 ppm
Concentration per Run 1	0.0532 ppm	2.0494 ppm	0.1211 ppm	1.0473 ppm	2.0360 ppm	0.0517 ppm	10.4070 ppm
Concentration per Run 2	0.0525 ppm	2.0490 ppm	0.1250 ppm	1.0320 ppm	2.0206 ppm	0.0509 ppm	10.3894 ppm
Concentration per Run 3	0.0522 ppm	2.0601 ppm	0.1221 ppm	1.0266 ppm	1.9970 ppm	0.0512 ppm	10.4035 ppm
Concentration RSD	1.1 %	0.3 %	1.7 %	1.0 %	1.0 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0564 ppm	0.5181 ppm	0.2053 ppm	0.2631 ppm	1.0821 ppm	10.8484 ppm	-0.0007 ppm
Concentration per Run 1	0.0571 ppm	0.5252 ppm	0.2082 ppm	0.2667 ppm	1.0899 ppm	10.9212 ppm	-0.0004 ppm
Concentration per Run 2	0.0566 ppm	0.5184 ppm	0.2065 ppm	0.2628 ppm	1.0794 ppm	10.8599 ppm	-0.0007 ppm
Concentration per Run 3	0.0557 ppm	0.5108 ppm	0.2013 ppm	0.2599 ppm	1.0770 ppm	10.7641 ppm	-0.0010 ppm
Concentration RSD	1.2 %	1.4 %	1.8 %	1.3 %	0.6 %	0.7 %	42.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.5154 ppm	0.5135 ppm	1.0541 ppm	10.5938 ppm	0.5210 ppm	0.5546 ppm	0.5252 ppm
Concentration per Run 1	10.6755 ppm	0.5147 ppm	1.0529 ppm	10.6069 ppm	0.5293 ppm	0.5559 ppm	0.5288 ppm
Concentration per Run 2	10.5058 ppm	0.5128 ppm	1.0581 ppm	10.5759 ppm	0.5231 ppm	0.5570 ppm	0.5283 ppm
Concentration per Run 3	10.3648 ppm	0.5131 ppm	1.0513 ppm	10.5986 ppm	0.5106 ppm	0.5508 ppm	0.5186 ppm
Concentration RSD	1.5 %	0.2 %	0.3 %	0.2 %	1.8 %	0.6 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1203 ppm	1.0586 ppm	1.0177 ppm	1.0190 ppm	1.0547 ppm	0.1238 ppm	0.5195 ppm
Concentration per Run 1	0.1186 ppm	1.0703 ppm	1.0180 ppm	1.0261 ppm	1.0710 ppm	0.1239 ppm	0.5270 ppm
Concentration per Run 2	0.1225 ppm	1.0676 ppm	1.0216 ppm	1.0165 ppm	1.0558 ppm	0.1251 ppm	0.5189 ppm
Concentration per Run 3	0.1198 ppm	1.0379 ppm	1.0134 ppm	1.0143 ppm	1.0374 ppm	0.1225 ppm	0.5125 ppm
Concentration RSD	1.7 %	1.7 %	0.4 %	0.6 %	1.6 %	1.1 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5233 ppm	106.6078 %	107.5036 %	103.5144 %	96.2367 %	99.0357 %	97.5292 %
Concentration per Run 1	0.5312 ppm	104.9087 %	107.5394 %	102.9541 %	95.7484 %	99.5247 %	97.4664 %
Concentration per Run 2	0.5253 ppm	106.9991 %	108.0339 %	103.5542 %	96.6870 %	99.3077 %	97.9323 %
Concentration per Run 3	0.5134 ppm	107.9156 %	106.9375 %	104.0347 %	96.2746 %	98.2747 %	97.1890 %
Concentration RSD	1.7 %	1.4 %	0.5 %	0.5 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-02d2 WG1934232
Analysis started at: 6/15/2024 11:06:41 PM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	109.6767 ppm	0.1754 ppm	0.0196 ppm	0.0639 ppm	0.0036 ppm	15.3641 ppm
Concentration per Run 1	0.0004 ppm	109.3525 ppm	0.1770 ppm	0.0193 ppm	0.0637 ppm	0.0036 ppm	15.3900 ppm
Concentration per Run 2	-0.0001 ppm	109.8351 ppm	0.1748 ppm	0.0193 ppm	0.0641 ppm	0.0035 ppm	15.3633 ppm
Concentration per Run 3	0.0003 ppm	109.8424 ppm	0.1745 ppm	0.0201 ppm	0.0639 ppm	0.0036 ppm	15.3389 ppm
Concentration RSD	124.9 %	0.3 %	0.8 %	2.4 %	0.3 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.2156 ppm	0.1910 ppm	0.2246 ppm	344.4152 ppm	2.5174 ppm	0.2937 ppm
Concentration per Run 1	0.0019 ppm	0.2178 ppm	0.1940 ppm	0.2277 ppm	344.9056 ppm	2.5321 ppm	0.2958 ppm
Concentration per Run 2	0.0018 ppm	0.2143 ppm	0.1902 ppm	0.2243 ppm	344.5378 ppm	2.4916 ppm	0.2928 ppm
Concentration per Run 3	0.0017 ppm	0.2149 ppm	0.1887 ppm	0.2219 ppm	343.8022 ppm	2.5284 ppm	0.2927 ppm
Concentration RSD	6.8 %	0.9 %	1.4 %	1.3 %	0.2 %	0.9 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.7990 ppm	5.2468 ppm	0.0173 ppm	8.4062 ppm	0.2994 ppm	0.1536 ppm	0.0102 ppm
Concentration per Run 1	40.3664 ppm	5.2403 ppm	0.0169 ppm	8.4211 ppm	0.3036 ppm	0.1540 ppm	0.0117 ppm
Concentration per Run 2	39.6103 ppm	5.2508 ppm	0.0175 ppm	8.4142 ppm	0.2987 ppm	0.1516 ppm	0.0096 ppm
Concentration per Run 3	39.4201 ppm	5.2494 ppm	0.0176 ppm	8.3832 ppm	0.2957 ppm	0.1552 ppm	0.0093 ppm
Concentration RSD	1.3 %	0.1 %	2.2 %	0.2 %	1.3 %	1.2 %	12.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	8.4082 ppm	0.0021 ppm	0.0725 ppm	0.4833 ppm	0.0013 ppm	0.1463 ppm
Concentration per Run 1	0.0017 ppm	8.5404 ppm	0.0024 ppm	0.0729 ppm	0.4878 ppm	0.0015 ppm	0.1476 ppm
Concentration per Run 2	-0.0023 ppm	8.3649 ppm	0.0017 ppm	0.0726 ppm	0.4850 ppm	0.0023 ppm	0.1473 ppm
Concentration per Run 3	0.0024 ppm	8.3192 ppm	0.0023 ppm	0.0721 ppm	0.4769 ppm	0.0000 ppm	0.1442 ppm
Concentration RSD	405.6 %	1.4 %	17.5 %	0.6 %	1.2 %	91.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6173 ppm	110.5719 %	113.2912 %	99.9828 %	107.0414 %	115.7099 %	109.7652 %
Concentration per Run 1	0.6280 ppm	108.6969 %	112.9816 %	100.0756 %	106.1326 %	115.9543 %	110.1873 %
Concentration per Run 2	0.6145 ppm	111.5345 %	113.1761 %	99.9864 %	108.0490 %	115.4125 %	109.9405 %
Concentration per Run 3	0.6093 ppm	111.4843 %	113.7158 %	99.8863 %	106.9427 %	115.7628 %	109.1679 %
Concentration RSD	1.6 %	1.5 %	0.3 %	0.1 %	0.9 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-03d2 WG1934232
Analysis started at: 6/15/2024 11:10:39 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	114.5591 ppm	0.2306 ppm	0.0242 ppm	0.0760 ppm	0.0043 ppm	9.9202 ppm
Concentration per Run 1	0.0010 ppm	114.9699 ppm	0.2314 ppm	0.0245 ppm	0.0762 ppm	0.0043 ppm	9.9479 ppm
Concentration per Run 2	0.0004 ppm	114.3452 ppm	0.2307 ppm	0.0244 ppm	0.0758 ppm	0.0042 ppm	9.8762 ppm
Concentration per Run 3	0.0005 ppm	114.3621 ppm	0.2298 ppm	0.0237 ppm	0.0759 ppm	0.0043 ppm	9.9364 ppm
Concentration RSD	48.1 %	0.3 %	0.3 %	1.8 %	0.2 %	1.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.1623 ppm	0.1576 ppm	0.2645 ppm	341.0137 ppm	2.9274 ppm	0.2873 ppm
Concentration per Run 1	0.0022 ppm	0.1639 ppm	0.1588 ppm	0.2682 ppm	341.6502 ppm	2.9878 ppm	0.2937 ppm
Concentration per Run 2	0.0019 ppm	0.1621 ppm	0.1575 ppm	0.2628 ppm	339.5006 ppm	2.8898 ppm	0.2832 ppm
Concentration per Run 3	0.0021 ppm	0.1609 ppm	0.1564 ppm	0.2624 ppm	341.8903 ppm	2.9047 ppm	0.2851 ppm
Concentration RSD	8.2 %	1.0 %	0.8 %	1.2 %	0.4 %	1.8 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.5668 ppm	3.6195 ppm	0.0062 ppm	12.0203 ppm	0.2676 ppm	0.1803 ppm	0.0091 ppm
Concentration per Run 1	39.0197 ppm	3.6260 ppm	0.0063 ppm	12.0078 ppm	0.2695 ppm	0.1814 ppm	0.0078 ppm
Concentration per Run 2	38.4651 ppm	3.6090 ppm	0.0059 ppm	11.9926 ppm	0.2687 ppm	0.1779 ppm	0.0087 ppm
Concentration per Run 3	38.2154 ppm	3.6237 ppm	0.0065 ppm	12.0605 ppm	0.2647 ppm	0.1816 ppm	0.0108 ppm
Concentration RSD	1.1 %	0.3 %	4.9 %	0.3 %	1.0 %	1.1 %	16.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	7.7415 ppm	0.0031 ppm	0.0719 ppm	0.7006 ppm	0.0027 ppm	0.1344 ppm
Concentration per Run 1	0.0021 ppm	7.8612 ppm	0.0028 ppm	0.0717 ppm	0.7077 ppm	0.0024 ppm	0.1340 ppm
Concentration per Run 2	0.0039 ppm	7.6933 ppm	0.0032 ppm	0.0717 ppm	0.6974 ppm	0.0027 ppm	0.1356 ppm
Concentration per Run 3	0.0011 ppm	7.6699 ppm	0.0032 ppm	0.0723 ppm	0.6968 ppm	0.0030 ppm	0.1335 ppm
Concentration RSD	59.5 %	1.3 %	7.2 %	0.5 %	0.9 %	9.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5890 ppm	110.5736 %	113.4528 %	99.8696 %	105.5524 %	114.0986 %	108.3019 %
Concentration per Run 1	0.5926 ppm	108.6514 %	113.3348 %	99.6105 %	104.6455 %	114.2679 %	108.7587 %
Concentration per Run 2	0.5919 ppm	111.1803 %	113.3304 %	100.2785 %	106.0981 %	113.8417 %	108.6298 %
Concentration per Run 3	0.5825 ppm	111.8890 %	113.6931 %	99.7198 %	105.9138 %	114.1862 %	107.5172 %
Concentration RSD	1.0 %	1.5 %	0.2 %	0.4 %	0.7 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-04d2 WG1934232
Analysis started at: 6/15/2024 11:14:36 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	109.4114 ppm	0.3701 ppm	0.0296 ppm	0.0749 ppm	0.0050 ppm	9.0031 ppm
Concentration per Run 1	0.0006 ppm	108.7948 ppm	0.3711 ppm	0.0286 ppm	0.0744 ppm	0.0050 ppm	8.9898 ppm
Concentration per Run 2	0.0000 ppm	109.6466 ppm	0.3710 ppm	0.0302 ppm	0.0752 ppm	0.0050 ppm	9.0278 ppm
Concentration per Run 3	-0.0003 ppm	109.7929 ppm	0.3681 ppm	0.0299 ppm	0.0751 ppm	0.0049 ppm	8.9916 ppm
Concentration RSD	506.5 %	0.5 %	0.5 %	2.9 %	0.6 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.1597 ppm	0.1868 ppm	0.3359 ppm	409.0267 ppm	2.7590 ppm	0.2448 ppm
Concentration per Run 1	0.0023 ppm	0.1624 ppm	0.1894 ppm	0.3390 ppm	406.1188 ppm	2.6805 ppm	0.2411 ppm
Concentration per Run 2	0.0022 ppm	0.1577 ppm	0.1863 ppm	0.3366 ppm	410.8797 ppm	2.7717 ppm	0.2459 ppm
Concentration per Run 3	0.0020 ppm	0.1590 ppm	0.1847 ppm	0.3321 ppm	410.0818 ppm	2.8249 ppm	0.2473 ppm
Concentration RSD	8.5 %	1.5 %	1.3 %	1.0 %	0.6 %	2.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.6023 ppm	2.7127 ppm	0.0138 ppm	16.9933 ppm	0.2774 ppm	0.1496 ppm	0.0055 ppm
Concentration per Run 1	36.0537 ppm	2.7056 ppm	0.0139 ppm	17.1608 ppm	0.2826 ppm	0.1503 ppm	0.0059 ppm
Concentration per Run 2	35.5115 ppm	2.7174 ppm	0.0136 ppm	17.0481 ppm	0.2764 ppm	0.1484 ppm	0.0026 ppm
Concentration per Run 3	35.2416 ppm	2.7150 ppm	0.0140 ppm	16.7711 ppm	0.2732 ppm	0.1500 ppm	0.0081 ppm
Concentration RSD	1.2 %	0.2 %	1.4 %	1.2 %	1.7 %	0.7 %	50.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	8.1535 ppm	0.0024 ppm	0.0651 ppm	0.6477 ppm	0.0014 ppm	0.1348 ppm
Concentration per Run 1	-0.0007 ppm	8.2996 ppm	0.0031 ppm	0.0654 ppm	0.6520 ppm	0.0015 ppm	0.1351 ppm
Concentration per Run 2	-0.0044 ppm	8.1507 ppm	0.0024 ppm	0.0652 ppm	0.6460 ppm	0.0010 ppm	0.1342 ppm
Concentration per Run 3	0.0012 ppm	8.0103 ppm	0.0018 ppm	0.0649 ppm	0.6451 ppm	0.0018 ppm	0.1351 ppm
Concentration RSD	219.2 %	1.8 %	27.4 %	0.4 %	0.6 %	25.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7040 ppm	111.4377 %	113.8804 %	99.4147 %	106.2200 %	114.9640 %	108.6011 %
Concentration per Run 1	0.7179 ppm	110.1116 %	114.3229 %	99.6722 %	105.6183 %	116.1722 %	109.5147 %
Concentration per Run 2	0.6973 ppm	111.6690 %	113.6019 %	99.1519 %	106.1010 %	114.8353 %	108.4112 %
Concentration per Run 3	0.6967 ppm	112.5325 %	113.7163 %	99.4200 %	106.9408 %	113.8845 %	107.8774 %
Concentration RSD	1.7 %	1.1 %	0.3 %	0.3 %	0.6 %	1.0 %	0.8 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-01d2 WG1934232
Analysis started at: 6/15/2024 11:18:34 PM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	98.4066 ppm	0.1173 ppm	0.0019 ppm	0.1455 ppm	0.0029 ppm	12.9485 ppm
Concentration per Run 1	-0.0001 ppm	98.7247 ppm	0.1179 ppm	0.0039 ppm	0.1462 ppm	0.0029 ppm	12.9685 ppm
Concentration per Run 2	0.0003 ppm	98.3658 ppm	0.1165 ppm	0.0020 ppm	0.1448 ppm	0.0029 ppm	12.9938 ppm
Concentration per Run 3	0.0000 ppm	98.1293 ppm	0.1175 ppm	-0.0002 ppm	0.1456 ppm	0.0029 ppm	12.8832 ppm
Concentration RSD	309.6 %	0.3 %	0.6 %	107.9 %	0.5 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.1701 ppm	0.1357 ppm	0.1662 ppm	246.1415 ppm	2.1554 ppm	0.2056 ppm
Concentration per Run 1	0.0018 ppm	0.1719 ppm	0.1364 ppm	0.1671 ppm	246.6692 ppm	2.1879 ppm	0.2052 ppm
Concentration per Run 2	0.0020 ppm	0.1689 ppm	0.1360 ppm	0.1673 ppm	247.3197 ppm	2.1463 ppm	0.2049 ppm
Concentration per Run 3	0.0019 ppm	0.1694 ppm	0.1347 ppm	0.1642 ppm	244.4357 ppm	2.1322 ppm	0.2067 ppm
Concentration RSD	3.4 %	1.0 %	0.7 %	1.1 %	0.6 %	1.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.9562 ppm	5.8083 ppm	0.0061 ppm	0.3528 ppm	0.2293 ppm	0.1719 ppm	0.0053 ppm
Concentration per Run 1	32.1444 ppm	5.8164 ppm	0.0054 ppm	0.3550 ppm	0.2287 ppm	0.1711 ppm	0.0045 ppm
Concentration per Run 2	32.0033 ppm	5.8094 ppm	0.0061 ppm	0.3514 ppm	0.2297 ppm	0.1726 ppm	0.0045 ppm
Concentration per Run 3	31.7208 ppm	5.7991 ppm	0.0069 ppm	0.3519 ppm	0.2295 ppm	0.1719 ppm	0.0069 ppm
Concentration RSD	0.7 %	0.1 %	11.6 %	0.5 %	0.2 %	0.4 %	26.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	8.7245 ppm	0.0020 ppm	0.0605 ppm	0.8538 ppm	0.0018 ppm	0.1300 ppm
Concentration per Run 1	-0.0007 ppm	8.7671 ppm	0.0016 ppm	0.0605 ppm	0.8610 ppm	0.0007 ppm	0.1321 ppm
Concentration per Run 2	0.0007 ppm	8.7253 ppm	0.0020 ppm	0.0609 ppm	0.8515 ppm	0.0019 ppm	0.1291 ppm
Concentration per Run 3	0.0003 ppm	8.6809 ppm	0.0025 ppm	0.0600 ppm	0.8488 ppm	0.0029 ppm	0.1290 ppm
Concentration RSD	595.7 %	0.5 %	23.0 %	0.8 %	0.8 %	62.5 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4775 ppm	110.4887 %	112.9350 %	100.9238 %	106.9193 %	113.8374 %	108.7963 %
Concentration per Run 1	0.4794 ppm	109.4836 %	112.2829 %	100.7722 %	107.1049 %	113.5133 %	109.2689 %
Concentration per Run 2	0.4787 ppm	110.2125 %	113.3820 %	101.0013 %	106.8814 %	114.4179 %	108.7784 %
Concentration per Run 3	0.4745 ppm	111.7700 %	113.1400 %	100.9980 %	106.7714 %	113.5810 %	108.3415 %
Concentration RSD	0.6 %	1.1 %	0.5 %	0.1 %	0.2 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934232-3d2 WG1934232
Analysis started at: 6/15/2024 11:22:31 PM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0480 ppm	116.9991 ppm	0.2929 ppm	0.8683 ppm	1.9698 ppm	0.0505 ppm	30.1134 ppm
Concentration per Run 1	0.0480 ppm	117.7580 ppm	0.2950 ppm	0.8767 ppm	1.9659 ppm	0.0506 ppm	30.3362 ppm
Concentration per Run 2	0.0485 ppm	116.9146 ppm	0.2911 ppm	0.8705 ppm	1.9682 ppm	0.0502 ppm	30.0395 ppm
Concentration per Run 3	0.0475 ppm	116.3246 ppm	0.2926 ppm	0.8577 ppm	1.9752 ppm	0.0508 ppm	29.9644 ppm
Concentration RSD	1.1 %	0.6 %	0.7 %	1.1 %	0.2 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0514 ppm	0.6027 ppm	0.3668 ppm	0.4540 ppm	328.7290 ppm	11.5713 ppm	0.2478 ppm
Concentration per Run 1	0.0519 ppm	0.6087 ppm	0.3695 ppm	0.4577 ppm	328.7487 ppm	11.6769 ppm	0.2521 ppm
Concentration per Run 2	0.0515 ppm	0.6022 ppm	0.3681 ppm	0.4543 ppm	327.9162 ppm	11.5137 ppm	0.2451 ppm
Concentration per Run 3	0.0508 ppm	0.5970 ppm	0.3628 ppm	0.4500 ppm	329.5219 ppm	11.5233 ppm	0.2461 ppm
Concentration RSD	1.1 %	1.0 %	1.0 %	0.8 %	0.2 %	0.8 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.9704 ppm	5.7921 ppm	0.9275 ppm	10.2804 ppm	0.7297 ppm	0.8138 ppm	0.4197 ppm
Concentration per Run 1	49.3697 ppm	5.8239 ppm	0.9202 ppm	10.3699 ppm	0.7351 ppm	0.8168 ppm	0.4241 ppm
Concentration per Run 2	49.0903 ppm	5.7785 ppm	0.9272 ppm	10.2318 ppm	0.7331 ppm	0.8135 ppm	0.4203 ppm
Concentration per Run 3	48.4511 ppm	5.7738 ppm	0.9350 ppm	10.2394 ppm	0.7209 ppm	0.8112 ppm	0.4146 ppm
Concentration RSD	1.0 %	0.5 %	0.8 %	0.8 %	1.1 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1132 ppm	9.9173 ppm	0.8146 ppm	1.0308 ppm	1.5711 ppm	0.1220 ppm	0.6269 ppm
Concentration per Run 1	0.1144 ppm	10.0250 ppm	0.8146 ppm	1.0289 ppm	1.5822 ppm	0.1225 ppm	0.6327 ppm
Concentration per Run 2	0.1117 ppm	9.8991 ppm	0.8161 ppm	1.0291 ppm	1.5730 ppm	0.1223 ppm	0.6272 ppm
Concentration per Run 3	0.1137 ppm	9.8278 ppm	0.8130 ppm	1.0343 ppm	1.5580 ppm	0.1212 ppm	0.6210 ppm
Concentration RSD	1.2 %	1.0 %	0.2 %	0.3 %	0.8 %	0.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0963 ppm	110.0672 %	113.0185 %	97.3894 %	105.8277 %	114.9408 %	108.5311 %
Concentration per Run 1	1.1038 ppm	109.0255 %	112.6378 %	97.0823 %	105.5702 %	115.4080 %	108.3947 %
Concentration per Run 2	1.0999 ppm	110.0645 %	113.3395 %	97.2955 %	105.7530 %	114.7766 %	108.3527 %
Concentration per Run 3	1.0851 ppm	111.1117 %	113.0783 %	97.7904 %	106.1598 %	114.6379 %	108.8458 %
Concentration RSD	0.9 %	0.9 %	0.3 %	0.4 %	0.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934232-4d2 WG1934232
Analysis started at: 6/15/2024 11:26:29 PM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	117.2249 ppm	0.1318 ppm	0.0024 ppm	0.0995 ppm	0.0029 ppm	19.4759 ppm
Concentration per Run 1	-0.0001 ppm	117.1689 ppm	0.1322 ppm	0.0019 ppm	0.0984 ppm	0.0029 ppm	19.5040 ppm
Concentration per Run 2	0.0000 ppm	117.2822 ppm	0.1296 ppm	0.0036 ppm	0.0994 ppm	0.0029 ppm	19.4769 ppm
Concentration per Run 3	0.0006 ppm	117.2237 ppm	0.1335 ppm	0.0017 ppm	0.1006 ppm	0.0029 ppm	19.4468 ppm
Concentration RSD	223.1 %	0.0 %	1.5 %	44.1 %	1.1 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.1206 ppm	0.1796 ppm	0.1835 ppm	297.1680 ppm	1.9427 ppm	0.2511 ppm
Concentration per Run 1	0.0018 ppm	0.1220 ppm	0.1813 ppm	0.1860 ppm	296.7628 ppm	1.9699 ppm	0.2508 ppm
Concentration per Run 2	0.0016 ppm	0.1207 ppm	0.1795 ppm	0.1827 ppm	297.5219 ppm	1.9370 ppm	0.2538 ppm
Concentration per Run 3	0.0018 ppm	0.1190 ppm	0.1778 ppm	0.1819 ppm	297.2192 ppm	1.9214 ppm	0.2486 ppm
Concentration RSD	8.4 %	1.3 %	1.0 %	1.2 %	0.1 %	1.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.3130 ppm	4.1918 ppm	0.0094 ppm	0.4063 ppm	0.2370 ppm	0.2179 ppm	0.0059 ppm
Concentration per Run 1	41.8271 ppm	4.1780 ppm	0.0091 ppm	0.4077 ppm	0.2386 ppm	0.2197 ppm	0.0055 ppm
Concentration per Run 2	41.2662 ppm	4.1903 ppm	0.0095 ppm	0.4048 ppm	0.2384 ppm	0.2162 ppm	0.0066 ppm
Concentration per Run 3	40.8459 ppm	4.2069 ppm	0.0096 ppm	0.4062 ppm	0.2342 ppm	0.2180 ppm	0.0056 ppm
Concentration RSD	1.2 %	0.3 %	3.1 %	0.4 %	1.1 %	0.8 %	10.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	9.3526 ppm	0.0035 ppm	0.0841 ppm	0.7380 ppm	0.0029 ppm	0.1568 ppm
Concentration per Run 1	-0.0034 ppm	9.4955 ppm	0.0031 ppm	0.0834 ppm	0.7449 ppm	0.0017 ppm	0.1579 ppm
Concentration per Run 2	-0.0013 ppm	9.3155 ppm	0.0034 ppm	0.0844 ppm	0.7362 ppm	0.0025 ppm	0.1582 ppm
Concentration per Run 3	-0.0031 ppm	9.2467 ppm	0.0040 ppm	0.0845 ppm	0.7329 ppm	0.0045 ppm	0.1543 ppm
Concentration RSD	43.5 %	1.4 %	12.4 %	0.7 %	0.8 %	50.3 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5379 ppm	110.0399 %	113.2759 %	100.0128 %	107.9939 %	116.1892 %	110.4900 %
Concentration per Run 1	0.5403 ppm	108.4136 %	113.3542 %	99.2854 %	107.4466 %	116.2402 %	110.3829 %
Concentration per Run 2	0.5404 ppm	110.5012 %	113.3269 %	100.6360 %	108.5149 %	116.0107 %	111.0617 %
Concentration per Run 3	0.5330 ppm	111.2048 %	113.1467 %	100.1171 %	108.0200 %	116.3168 %	110.0253 %
Concentration RSD	0.8 %	1.3 %	0.1 %	0.7 %	0.5 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934232-5d2 WG1934232
Analysis started at: 6/15/2024 11:30:27 PM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0508 ppm	93.6727 ppm	0.2363 ppm	0.9704 ppm	2.0366 ppm	0.0513 ppm	21.8212 ppm
Concentration per Run 1	0.0507 ppm	93.4731 ppm	0.2398 ppm	0.9793 ppm	2.0311 ppm	0.0514 ppm	21.8273 ppm
Concentration per Run 2	0.0511 ppm	93.6142 ppm	0.2359 ppm	0.9658 ppm	2.0418 ppm	0.0514 ppm	21.8172 ppm
Concentration per Run 3	0.0508 ppm	93.9310 ppm	0.2332 ppm	0.9661 ppm	2.0369 ppm	0.0510 ppm	21.8191 ppm
Concentration RSD	0.4 %	0.3 %	1.4 %	0.8 %	0.3 %	0.4 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0542 ppm	0.6339 ppm	0.3171 ppm	0.4063 ppm	230.8263 ppm	12.3852 ppm	0.1910 ppm
Concentration per Run 1	0.0547 ppm	0.6418 ppm	0.3202 ppm	0.4096 ppm	230.1982 ppm	12.4561 ppm	0.1916 ppm
Concentration per Run 2	0.0539 ppm	0.6315 ppm	0.3158 ppm	0.4051 ppm	231.7270 ppm	12.3660 ppm	0.1911 ppm
Concentration per Run 3	0.0539 ppm	0.6283 ppm	0.3154 ppm	0.4043 ppm	230.5537 ppm	12.3336 ppm	0.1902 ppm
Concentration RSD	0.8 %	1.1 %	0.8 %	0.7 %	0.3 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.2586 ppm	5.8821 ppm	0.9642 ppm	10.6225 ppm	0.6935 ppm	0.7169 ppm	0.4821 ppm
Concentration per Run 1	39.6708 ppm	5.8743 ppm	0.9520 ppm	10.6203 ppm	0.7001 ppm	0.7271 ppm	0.4813 ppm
Concentration per Run 2	39.0971 ppm	5.8827 ppm	0.9638 ppm	10.6553 ppm	0.6912 ppm	0.7151 ppm	0.4806 ppm
Concentration per Run 3	39.0078 ppm	5.8894 ppm	0.9768 ppm	10.5919 ppm	0.6893 ppm	0.7083 ppm	0.4845 ppm
Concentration RSD	0.9 %	0.1 %	1.3 %	0.3 %	0.8 %	1.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1229 ppm	9.1031 ppm	0.8879 ppm	1.0372 ppm	1.7894 ppm	0.1342 ppm	0.6058 ppm
Concentration per Run 1	0.1267 ppm	9.1682 ppm	0.8917 ppm	1.0385 ppm	1.8066 ppm	0.1369 ppm	0.6144 ppm
Concentration per Run 2	0.1236 ppm	9.0840 ppm	0.8848 ppm	1.0430 ppm	1.7824 ppm	0.1360 ppm	0.6030 ppm
Concentration per Run 3	0.1184 ppm	9.0572 ppm	0.8871 ppm	1.0300 ppm	1.7794 ppm	0.1297 ppm	0.6000 ppm
Concentration RSD	3.4 %	0.6 %	0.4 %	0.6 %	0.8 %	2.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9289 ppm	109.7569 %	112.3927 %	98.6795 %	104.9713 %	112.5291 %	106.1985 %
Concentration per Run 1	0.9378 ppm	108.3084 %	112.1235 %	98.0151 %	104.0911 %	112.2414 %	106.3075 %
Concentration per Run 2	0.9235 ppm	110.4941 %	112.5990 %	98.7691 %	105.6588 %	112.7874 %	106.0929 %
Concentration per Run 3	0.9255 ppm	110.4683 %	112.4556 %	99.2543 %	105.1640 %	112.5585 %	106.1952 %
Concentration RSD	0.8 %	1.1 %	0.2 %	0.6 %	0.8 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934232-6d10 WG1934232
Analysis started at: 6/15/2024 11:34:24 PM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	20.2727 ppm	0.0211 ppm	0.0008 ppm	0.0295 ppm	0.0006 ppm	2.6488 ppm
Concentration per Run 1	-0.0001 ppm	20.3727 ppm	0.0207 ppm	-0.0011 ppm	0.0294 ppm	0.0006 ppm	2.6636 ppm
Concentration per Run 2	-0.0006 ppm	20.2963 ppm	0.0216 ppm	0.0024 ppm	0.0295 ppm	0.0006 ppm	2.6464 ppm
Concentration per Run 3	0.0000 ppm	20.1490 ppm	0.0210 ppm	0.0011 ppm	0.0295 ppm	0.0006 ppm	2.6365 ppm
Concentration RSD	137.3 %	0.6 %	2.3 %	231.8 %	0.2 %	1.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0362 ppm	0.0283 ppm	0.0338 ppm	51.9889 ppm	0.4611 ppm	0.0441 ppm
Concentration per Run 1	0.0004 ppm	0.0372 ppm	0.0289 ppm	0.0344 ppm	52.0077 ppm	0.5002 ppm	0.0456 ppm
Concentration per Run 2	0.0005 ppm	0.0362 ppm	0.0281 ppm	0.0338 ppm	51.8947 ppm	0.4623 ppm	0.0447 ppm
Concentration per Run 3	0.0005 ppm	0.0353 ppm	0.0278 ppm	0.0333 ppm	52.0643 ppm	0.4208 ppm	0.0419 ppm
Concentration RSD	4.7 %	2.7 %	2.0 %	1.6 %	0.2 %	8.6 %	4.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8350 ppm	1.2108 ppm	0.0020 ppm	0.0302 ppm	0.0490 ppm	0.0343 ppm	-0.0012 ppm
Concentration per Run 1	6.9192 ppm	1.2165 ppm	0.0021 ppm	0.0361 ppm	0.0498 ppm	0.0342 ppm	0.0013 ppm
Concentration per Run 2	6.8348 ppm	1.2108 ppm	0.0024 ppm	0.0255 ppm	0.0489 ppm	0.0340 ppm	-0.0036 ppm
Concentration per Run 3	6.7511 ppm	1.2050 ppm	0.0015 ppm	0.0291 ppm	0.0484 ppm	0.0349 ppm	-0.0014 ppm
Concentration RSD	1.2 %	0.5 %	24.1 %	17.9 %	1.4 %	1.4 %	204.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	1.7918 ppm	0.0013 ppm	0.0123 ppm	0.1765 ppm	0.0004 ppm	0.0272 ppm
Concentration per Run 1	0.0030 ppm	1.8159 ppm	0.0019 ppm	0.0124 ppm	0.1782 ppm	0.0002 ppm	0.0277 ppm
Concentration per Run 2	0.0002 ppm	1.7940 ppm	0.0014 ppm	0.0123 ppm	0.1769 ppm	-0.0004 ppm	0.0271 ppm
Concentration per Run 3	0.0028 ppm	1.7655 ppm	0.0006 ppm	0.0122 ppm	0.1744 ppm	0.0014 ppm	0.0268 ppm
Concentration RSD	79.0 %	1.4 %	51.1 %	0.9 %	1.1 %	218.3 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1009 ppm	108.0255 %	109.2952 %	106.2817 %	100.7515 %	103.6786 %	102.9727 %
Concentration per Run 1	0.1025 ppm	106.4446 %	108.6821 %	105.1709 %	100.2699 %	103.8989 %	102.7681 %
Concentration per Run 2	0.1006 ppm	108.4118 %	109.8309 %	106.1931 %	101.0928 %	103.9917 %	102.7467 %
Concentration per Run 3	0.0997 ppm	109.2202 %	109.3726 %	107.4810 %	100.8917 %	103.1451 %	103.4033 %
Concentration RSD	1.4 %	1.3 %	0.5 %	1.1 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCV
Analysis started at: 6/15/2024 11:38:22 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5138 ppm	0.5161 ppm	0.4780 ppm	0.5013 ppm	0.5052 ppm	0.5148 ppm	0.5143 ppm
Concentration per Run 1	0.5175 ppm	0.5267 ppm	0.4816 ppm	0.5066 ppm	0.5073 ppm	0.5161 ppm	0.5133 ppm
Concentration per Run 2	0.5126 ppm	0.5173 ppm	0.4764 ppm	0.5004 ppm	0.5038 ppm	0.5142 ppm	0.5189 ppm
Concentration per Run 3	0.5111 ppm	0.5043 ppm	0.4762 ppm	0.4968 ppm	0.5046 ppm	0.5140 ppm	0.5106 ppm
Recovery Percentage 1	102.752 %	103.225 %	95.610 %	100.252 %	101.049 %	102.961 %	102.856 %
Concentration RSD	0.7 %	2.2 %	0.6 %	1.0 %	0.4 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5149 ppm	0.5210 ppm	0.5034 ppm	0.5068 ppm	0.5577 ppm	5.3415 ppm	0.5038 ppm
Concentration per Run 1	0.5194 ppm	0.5254 ppm	0.5094 ppm	0.5123 ppm	0.5579 ppm	5.3555 ppm	0.5055 ppm
Concentration per Run 2	0.5147 ppm	0.5215 ppm	0.5009 ppm	0.5055 ppm	0.5556 ppm	5.3442 ppm	0.5012 ppm
Concentration per Run 3	0.5106 ppm	0.5161 ppm	0.4997 ppm	0.5026 ppm	0.5596 ppm	5.3246 ppm	0.5048 ppm
Recovery Percentage 1	102.975 %	104.202 %	100.672 %	101.364 %	111.541 %	106.829 %	100.766 %
Concentration RSD	0.9 %	0.9 %	1.1 %	1.0 %	0.4 %	0.3 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5122 ppm	0.5038 ppm	0.5051 ppm	10.2520 ppm	0.5168 ppm	0.5004 ppm	0.4962 ppm
Concentration per Run 1	0.5163 ppm	0.5033 ppm	0.5032 ppm	10.2539 ppm	0.5228 ppm	0.5049 ppm	0.4988 ppm
Concentration per Run 2	0.5109 ppm	0.5047 ppm	0.5052 ppm	10.2539 ppm	0.5145 ppm	0.4996 ppm	0.4974 ppm
Concentration per Run 3	0.5094 ppm	0.5035 ppm	0.5069 ppm	10.2481 ppm	0.5131 ppm	0.4966 ppm	0.4926 ppm
Recovery Percentage 1	102.438 %	100.770 %	101.016 %	102.520 %	103.359 %	100.074 %	99.248 %
Concentration RSD	0.7 %	0.1 %	0.4 %	0.0 %	1.0 %	0.8 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4873 ppm	5.2480 ppm	0.5197 ppm	0.5158 ppm	0.5109 ppm	0.5089 ppm	0.5020 ppm
Concentration per Run 1	0.4910 ppm	5.2922 ppm	0.5167 ppm	0.5204 ppm	0.5160 ppm	0.5140 ppm	0.5060 ppm
Concentration per Run 2	0.4870 ppm	5.2377 ppm	0.5194 ppm	0.5133 ppm	0.5098 ppm	0.5092 ppm	0.5012 ppm
Concentration per Run 3	0.4840 ppm	5.2141 ppm	0.5231 ppm	0.5136 ppm	0.5067 ppm	0.5034 ppm	0.4989 ppm
Recovery Percentage 1	97.467 %	99.962 %	103.943 %	103.156 %	102.174 %	101.775 %	100.406 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.8 %	0.9 %	1.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5152 ppm	110.2411 %	109.6398 %	108.4886 %	97.9945 %	100.5795 %	99.4521 %
Concentration per Run 1	0.5213 ppm	108.8082 %	108.4430 %	107.4931 %	97.6188 %	99.4473 %	99.3386 %
Concentration per Run 2	0.5125 ppm	110.3258 %	110.4261 %	108.7593 %	97.9451 %	101.3557 %	99.3916 %
Concentration per Run 3	0.5119 ppm	111.5892 %	110.0502 %	109.2132 %	98.4195 %	100.9355 %	99.6261 %
Recovery Percentage 1	103.049 %						
Concentration RSD	1.0 %	1.3 %	1.0 %	0.8 %	0.4 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCB
Analysis started at: 6/15/2024 11:42:18 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0088 ppm	-0.0010 ppm	-0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0086 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0006 ppm	0.0120 ppm	-0.0017 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	-0.0005 ppm	0.0057 ppm	-0.0016 ppm	-0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Recovery Percentage 1	-5.413 %	8.792 %	-32.286 %	-4.127 %	0.753 %	0.208 %	1.098 %
Concentration RSD	63.0 %	35.9 %	120.7 %	110.4 %	63.1 %	187.8 %	69.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0056 ppm	0.0104 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0054 ppm	0.0018 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0056 ppm	-0.0097 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0057 ppm	0.0390 ppm	0.0008 ppm
Recovery Percentage 1	1.350 %	-0.288 %	-1.715 %	5.478 %	11.118 %	0.415 %	5.332 %
Concentration RSD	99.2 %	467.6 %	89.9 %	13.5 %	2.8 %	245.5 %	247.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0001 ppm	-0.0001 ppm	-0.0582 ppm	-0.0005 ppm	-0.0007 ppm	0.0007 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0615 ppm	-0.0004 ppm	-0.0012 ppm	0.0006 ppm
Concentration per Run 2	-0.0029 ppm	0.0003 ppm	0.0001 ppm	-0.0625 ppm	0.0000 ppm	-0.0013 ppm	-0.0012 ppm
Concentration per Run 3	-0.0010 ppm	0.0000 ppm	-0.0002 ppm	-0.0506 ppm	-0.0012 ppm	0.0003 ppm	0.0028 ppm
Recovery Percentage 1	-1.369 %	1.228 %	-0.139 %	-2.910 %	-2.072 %	-7.433 %	1.445 %
Concentration RSD	103.3 %	103.7 %	281.8 %	11.4 %	111.7 %	116.5 %	271.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0044 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0004 ppm	-0.0047 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	-0.0003 ppm
Concentration per Run 2	0.0007 ppm	-0.0019 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0019 ppm	-0.0065 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	-2.558 %	-0.878 %	-0.587 %	0.941 %	-2.848 %	1.929 %	1.023 %
Concentration RSD	562.8 %	52.2 %	135.0 %	70.2 %	10.4 %	44.6 %	323.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	99.9599 %	102.1572 %	102.1738 %	99.5903 %	101.6305 %	101.1815 %
Concentration per Run 1	0.0009 ppm	98.1405 %	101.9076 %	100.7792 %	98.8073 %	101.9607 %	101.0614 %
Concentration per Run 2	0.0008 ppm	99.7311 %	101.7368 %	102.5354 %	99.2956 %	100.9812 %	101.6549 %
Concentration per Run 3	0.0006 ppm	102.0079 %	102.8272 %	103.2067 %	100.6679 %	101.9495 %	100.8283 %
Recovery Percentage 1	15.131 %						
Concentration RSD	14.3 %	1.9 %	0.6 %	1.2 %	1.0 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCV
Analysis started at: 6/15/2024 11:53:13 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5106 ppm	0.5072 ppm	0.4743 ppm	0.5005 ppm	0.5026 ppm	0.5108 ppm	0.5071 ppm
Concentration per Run 1	0.5140 ppm	0.5162 ppm	0.4762 ppm	0.5050 ppm	0.5006 ppm	0.5112 ppm	0.5060 ppm
Concentration per Run 2	0.5102 ppm	0.4992 ppm	0.4745 ppm	0.5003 ppm	0.5047 ppm	0.5104 ppm	0.5043 ppm
Concentration per Run 3	0.5076 ppm	0.5060 ppm	0.4723 ppm	0.4961 ppm	0.5026 ppm	0.5108 ppm	0.5111 ppm
Recovery Percentage 1	102.123 %	101.433 %	94.867 %	100.093 %	100.526 %	102.162 %	101.424 %
Concentration RSD	0.6 %	1.7 %	0.4 %	0.9 %	0.4 %	0.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5115 ppm	0.5164 ppm	0.5006 ppm	0.5024 ppm	0.5339 ppm	5.2685 ppm	0.4946 ppm
Concentration per Run 1	0.5152 ppm	0.5212 ppm	0.5044 ppm	0.5078 ppm	0.5355 ppm	5.3103 ppm	0.4968 ppm
Concentration per Run 2	0.5119 ppm	0.5167 ppm	0.5013 ppm	0.5011 ppm	0.5333 ppm	5.2748 ppm	0.4966 ppm
Concentration per Run 3	0.5072 ppm	0.5113 ppm	0.4960 ppm	0.4983 ppm	0.5330 ppm	5.2204 ppm	0.4904 ppm
Recovery Percentage 1	102.292 %	103.284 %	100.112 %	100.477 %	106.785 %	105.370 %	98.920 %
Concentration RSD	0.8 %	1.0 %	0.9 %	1.0 %	0.3 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5092 ppm	0.4991 ppm	0.5022 ppm	10.1981 ppm	0.5134 ppm	0.4983 ppm	0.4934 ppm
Concentration per Run 1	0.5134 ppm	0.4990 ppm	0.4988 ppm	10.2460 ppm	0.5159 ppm	0.5003 ppm	0.5010 ppm
Concentration per Run 2	0.5095 ppm	0.4981 ppm	0.5042 ppm	10.1634 ppm	0.5148 ppm	0.4999 ppm	0.4931 ppm
Concentration per Run 3	0.5048 ppm	0.5001 ppm	0.5037 ppm	10.1850 ppm	0.5094 ppm	0.4945 ppm	0.4861 ppm
Recovery Percentage 1	101.847 %	99.811 %	100.448 %	101.981 %	102.677 %	99.651 %	98.677 %
Concentration RSD	0.8 %	0.2 %	0.6 %	0.4 %	0.7 %	0.6 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4815 ppm	5.1986 ppm	0.5160 ppm	0.5115 ppm	0.5054 ppm	0.5087 ppm	0.5002 ppm
Concentration per Run 1	0.4821 ppm	5.2259 ppm	0.5161 ppm	0.5113 ppm	0.5092 ppm	0.5105 ppm	0.5050 ppm
Concentration per Run 2	0.4820 ppm	5.2000 ppm	0.5177 ppm	0.5115 ppm	0.5060 ppm	0.5080 ppm	0.4991 ppm
Concentration per Run 3	0.4804 ppm	5.1699 ppm	0.5143 ppm	0.5116 ppm	0.5009 ppm	0.5074 ppm	0.4965 ppm
Recovery Percentage 1	96.298 %	99.021 %	103.203 %	102.294 %	101.075 %	101.730 %	100.049 %
Concentration RSD	0.2 %	0.5 %	0.3 %	0.0 %	0.8 %	0.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5119 ppm	110.2475 %	110.1017 %	108.2910 %	97.7387 %	100.4160 %	98.9156 %
Concentration per Run 1	0.5147 ppm	108.9425 %	109.6456 %	107.6390 %	97.5597 %	100.3711 %	98.9582 %
Concentration per Run 2	0.5129 ppm	110.7708 %	110.9326 %	108.1596 %	98.1971 %	101.0043 %	98.9345 %
Concentration per Run 3	0.5080 ppm	111.0291 %	109.7268 %	109.0745 %	97.4594 %	99.8727 %	98.8539 %
Recovery Percentage 1	102.374 %						
Concentration RSD	0.7 %	1.0 %	0.7 %	0.7 %	0.4 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCB
Analysis started at: 6/15/2024 11:57:15 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0012 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	-0.0063 ppm	0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 2	-0.0002 ppm	-0.0071 ppm	-0.0014 ppm	-0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 3	-0.0003 ppm	0.0100 ppm	-0.0015 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	-2.256 %	-1.154 %	-24.348 %	-1.061 %	0.931 %	1.486 %	1.463 %
Concentration RSD	94.2 %	835.4 %	173.2 %	411.0 %	119.8 %	56.6 %	72.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0054 ppm	-0.0068 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0050 ppm	-0.0220 ppm	0.0026 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0051 ppm	0.0082 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0063 ppm	-0.0066 ppm	-0.0002 ppm
Recovery Percentage 1	1.721 %	0.602 %	-1.820 %	4.921 %	10.890 %	-0.271 %	10.080 %
Concentration RSD	41.2 %	166.1 %	91.8 %	14.3 %	13.1 %	222.5 %	140.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0543 ppm	-0.0005 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0004 ppm	-0.0602 ppm	-0.0006 ppm	-0.0008 ppm	-0.0011 ppm
Concentration per Run 2	-0.0015 ppm	0.0002 ppm	0.0000 ppm	-0.0547 ppm	-0.0011 ppm	0.0007 ppm	-0.0024 ppm
Concentration per Run 3	0.0008 ppm	0.0003 ppm	-0.0006 ppm	-0.0479 ppm	0.0001 ppm	-0.0004 ppm	0.0012 ppm
Recovery Percentage 1	-0.495 %	2.128 %	-0.073 %	-2.713 %	-2.039 %	-1.770 %	-1.602 %
Concentration RSD	237.3 %	60.0 %	1,341.1 %	11.4 %	118.5 %	438.5 %	226.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0057 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	0.0008 ppm	-0.0068 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 2	0.0024 ppm	-0.0034 ppm	0.0002 ppm	0.0001 ppm	-0.0007 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0004 ppm	-0.0070 ppm	-0.0007 ppm	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	12.063 %	-1.147 %	-0.167 %	0.845 %	-3.467 %	-3.335 %	1.158 %
Concentration RSD	85.1 %	35.1 %	598.9 %	91.6 %	83.6 %	40.7 %	151.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	100.2381 %	101.3093 %	101.6359 %	99.3164 %	100.7340 %	100.5304 %
Concentration per Run 1	0.0008 ppm	98.3022 %	100.3649 %	101.3037 %	98.0799 %	100.6445 %	101.2041 %
Concentration per Run 2	0.0005 ppm	100.6122 %	101.4910 %	101.3497 %	99.8168 %	100.6016 %	100.1222 %
Concentration per Run 3	0.0004 ppm	101.8000 %	102.0720 %	102.2544 %	100.0525 %	100.9558 %	100.2648 %
Recovery Percentage 1	11.390 %						
Concentration RSD	30.2 %	1.8 %	0.9 %	0.5 %	1.1 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-05d2 WG1934232
Analysis started at: 6/16/2024 12:03:18 AM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	106.3386 ppm	0.5014 ppm	0.0308 ppm	0.0270 ppm	0.0047 ppm	11.0033 ppm
Concentration per Run 1	0.0004 ppm	106.2619 ppm	0.5027 ppm	0.0306 ppm	0.0269 ppm	0.0048 ppm	11.0071 ppm
Concentration per Run 2	-0.0004 ppm	106.1622 ppm	0.5034 ppm	0.0321 ppm	0.0269 ppm	0.0047 ppm	10.9706 ppm
Concentration per Run 3	0.0003 ppm	106.5918 ppm	0.4983 ppm	0.0297 ppm	0.0271 ppm	0.0047 ppm	11.0322 ppm
Concentration RSD	533.8 %	0.2 %	0.6 %	4.0 %	0.5 %	0.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.1763 ppm	0.1456 ppm	0.2526 ppm	389.8346 ppm	2.3626 ppm	0.2719 ppm
Concentration per Run 1	0.0022 ppm	0.1773 ppm	0.1463 ppm	0.2542 ppm	390.0441 ppm	2.3963 ppm	0.2740 ppm
Concentration per Run 2	0.0022 ppm	0.1767 ppm	0.1449 ppm	0.2527 ppm	388.2255 ppm	2.3416 ppm	0.2682 ppm
Concentration per Run 3	0.0021 ppm	0.1749 ppm	0.1456 ppm	0.2510 ppm	391.2340 ppm	2.3498 ppm	0.2736 ppm
Concentration RSD	2.6 %	0.7 %	0.5 %	0.6 %	0.4 %	1.2 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.2819 ppm	3.7757 ppm	0.0053 ppm	26.1704 ppm	0.2801 ppm	0.2061 ppm	0.0082 ppm
Concentration per Run 1	40.5609 ppm	3.7774 ppm	0.0050 ppm	26.1517 ppm	0.2802 ppm	0.2074 ppm	0.0100 ppm
Concentration per Run 2	40.2562 ppm	3.7756 ppm	0.0048 ppm	26.2396 ppm	0.2816 ppm	0.2070 ppm	0.0068 ppm
Concentration per Run 3	40.0287 ppm	3.7742 ppm	0.0059 ppm	26.1200 ppm	0.2785 ppm	0.2041 ppm	0.0078 ppm
Concentration RSD	0.7 %	0.0 %	10.6 %	0.2 %	0.6 %	0.9 %	20.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	9.0401 ppm	0.0022 ppm	0.0719 ppm	0.2576 ppm	0.0011 ppm	0.1238 ppm
Concentration per Run 1	-0.0013 ppm	9.0732 ppm	0.0017 ppm	0.0721 ppm	0.2600 ppm	0.0018 ppm	0.1245 ppm
Concentration per Run 2	0.0029 ppm	9.0401 ppm	0.0021 ppm	0.0718 ppm	0.2596 ppm	0.0005 ppm	0.1246 ppm
Concentration per Run 3	0.0003 ppm	9.0071 ppm	0.0027 ppm	0.0719 ppm	0.2532 ppm	0.0010 ppm	0.1223 ppm
Concentration RSD	337.8 %	0.4 %	24.7 %	0.2 %	1.5 %	62.0 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7294 ppm	112.3915 %	114.2354 %	100.6368 %	103.5479 %	110.6894 %	105.7636 %
Concentration per Run 1	0.7327 ppm	111.6869 %	114.5171 %	99.9539 %	103.3961 %	110.9556 %	105.4496 %
Concentration per Run 2	0.7313 ppm	112.3082 %	114.7050 %	100.3403 %	103.5639 %	111.1687 %	105.3641 %
Concentration per Run 3	0.7243 ppm	113.1795 %	113.4840 %	101.6161 %	103.6837 %	109.9437 %	106.4772 %
Concentration RSD	0.6 %	0.7 %	0.6 %	0.9 %	0.1 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-06d2 WG1934232
Analysis started at: 6/16/2024 12:07:22 AM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	127.4901 ppm	0.1845 ppm	0.0030 ppm	0.0938 ppm	0.0035 ppm	17.1571 ppm
Concentration per Run 1	0.0002 ppm	127.2976 ppm	0.1871 ppm	0.0029 ppm	0.0940 ppm	0.0035 ppm	17.0935 ppm
Concentration per Run 2	0.0003 ppm	127.7139 ppm	0.1837 ppm	0.0035 ppm	0.0941 ppm	0.0035 ppm	17.1919 ppm
Concentration per Run 3	0.0008 ppm	127.4586 ppm	0.1828 ppm	0.0025 ppm	0.0934 ppm	0.0035 ppm	17.1859 ppm
Concentration RSD	61.6 %	0.2 %	1.2 %	16.5 %	0.4 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.1381 ppm	0.1832 ppm	0.2863 ppm	311.4606 ppm	1.7774 ppm	0.2810 ppm
Concentration per Run 1	0.0021 ppm	0.1391 ppm	0.1854 ppm	0.2881 ppm	310.3856 ppm	1.7753 ppm	0.2803 ppm
Concentration per Run 2	0.0025 ppm	0.1385 ppm	0.1834 ppm	0.2867 ppm	312.0614 ppm	1.7949 ppm	0.2831 ppm
Concentration per Run 3	0.0024 ppm	0.1366 ppm	0.1809 ppm	0.2841 ppm	311.9347 ppm	1.7621 ppm	0.2797 ppm
Concentration RSD	9.9 %	1.0 %	1.2 %	0.7 %	0.3 %	0.9 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.2805 ppm	4.8694 ppm	0.0050 ppm	2.3779 ppm	0.2902 ppm	0.1860 ppm	0.0032 ppm
Concentration per Run 1	44.7114 ppm	4.8648 ppm	0.0047 ppm	2.3725 ppm	0.2953 ppm	0.1851 ppm	0.0021 ppm
Concentration per Run 2	44.4274 ppm	4.8726 ppm	0.0053 ppm	2.3829 ppm	0.2911 ppm	0.1864 ppm	0.0068 ppm
Concentration per Run 3	43.7026 ppm	4.8708 ppm	0.0051 ppm	2.3784 ppm	0.2843 ppm	0.1866 ppm	0.0008 ppm
Concentration RSD	1.2 %	0.1 %	6.1 %	0.2 %	1.9 %	0.4 %	97.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	10.3352 ppm	0.0031 ppm	0.0879 ppm	0.5779 ppm	0.0019 ppm	0.1600 ppm
Concentration per Run 1	-0.0005 ppm	10.4097 ppm	0.0033 ppm	0.0876 ppm	0.5843 ppm	0.0016 ppm	0.1624 ppm
Concentration per Run 2	0.0006 ppm	10.3820 ppm	0.0038 ppm	0.0877 ppm	0.5795 ppm	0.0024 ppm	0.1595 ppm
Concentration per Run 3	0.0004 ppm	10.2138 ppm	0.0023 ppm	0.0883 ppm	0.5698 ppm	0.0017 ppm	0.1581 ppm
Concentration RSD	356.0 %	1.0 %	24.9 %	0.4 %	1.3 %	23.5 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6398 ppm	110.4708 %	113.8887 %	99.6808 %	107.0655 %	115.4611 %	109.4182 %
Concentration per Run 1	0.6480 ppm	109.2215 %	114.4674 %	99.6955 %	106.8214 %	116.2148 %	110.0576 %
Concentration per Run 2	0.6433 ppm	109.9259 %	113.3333 %	99.3562 %	106.6452 %	115.2094 %	108.9454 %
Concentration per Run 3	0.6282 ppm	112.2649 %	113.8653 %	99.9907 %	107.7299 %	114.9591 %	109.2517 %
Concentration RSD	1.6 %	1.4 %	0.5 %	0.3 %	0.5 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-07d2 WG1934232
Analysis started at: 6/16/2024 12:11:20 AM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	131.6062 ppm	0.2727 ppm	0.0099 ppm	0.0711 ppm	0.0042 ppm	7.4471 ppm
Concentration per Run 1	0.0005 ppm	130.7637 ppm	0.2767 ppm	0.0109 ppm	0.0708 ppm	0.0043 ppm	7.4498 ppm
Concentration per Run 2	-0.0001 ppm	131.7286 ppm	0.2734 ppm	0.0107 ppm	0.0715 ppm	0.0042 ppm	7.4399 ppm
Concentration per Run 3	0.0002 ppm	132.3262 ppm	0.2680 ppm	0.0082 ppm	0.0711 ppm	0.0041 ppm	7.4516 ppm
Concentration RSD	158.1 %	0.6 %	1.6 %	15.4 %	0.5 %	1.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1633 ppm	0.1818 ppm	0.2360 ppm	321.7898 ppm	2.2781 ppm	0.3735 ppm
Concentration per Run 1	0.0017 ppm	0.1641 ppm	0.1833 ppm	0.2385 ppm	322.4002 ppm	2.2854 ppm	0.3654 ppm
Concentration per Run 2	0.0016 ppm	0.1637 ppm	0.1815 ppm	0.2346 ppm	323.1548 ppm	2.2887 ppm	0.3783 ppm
Concentration per Run 3	0.0015 ppm	0.1620 ppm	0.1807 ppm	0.2350 ppm	319.8142 ppm	2.2603 ppm	0.3768 ppm
Concentration RSD	6.1 %	0.7 %	0.8 %	0.9 %	0.5 %	0.7 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.3912 ppm	3.2860 ppm	0.0042 ppm	6.1133 ppm	0.2563 ppm	0.1381 ppm	0.0065 ppm
Concentration per Run 1	40.8945 ppm	3.2902 ppm	0.0045 ppm	6.1751 ppm	0.2589 ppm	0.1386 ppm	0.0067 ppm
Concentration per Run 2	40.2733 ppm	3.2807 ppm	0.0043 ppm	6.0915 ppm	0.2561 ppm	0.1363 ppm	0.0066 ppm
Concentration per Run 3	40.0057 ppm	3.2870 ppm	0.0039 ppm	6.0734 ppm	0.2538 ppm	0.1393 ppm	0.0063 ppm
Concentration RSD	1.1 %	0.1 %	6.5 %	0.9 %	1.0 %	1.2 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	9.2155 ppm	0.0014 ppm	0.0526 ppm	0.6479 ppm	0.0019 ppm	0.1685 ppm
Concentration per Run 1	0.0018 ppm	9.3269 ppm	0.0013 ppm	0.0535 ppm	0.6540 ppm	0.0025 ppm	0.1701 ppm
Concentration per Run 2	0.0014 ppm	9.1631 ppm	0.0010 ppm	0.0527 ppm	0.6454 ppm	0.0026 ppm	0.1682 ppm
Concentration per Run 3	-0.0037 ppm	9.1565 ppm	0.0019 ppm	0.0516 ppm	0.6443 ppm	0.0005 ppm	0.1673 ppm
Concentration RSD	1,721.0 %	1.0 %	32.5 %	1.7 %	0.8 %	63.8 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5801 ppm	111.0221 %	112.8842 %	100.3250 %	105.4807 %	112.6092 %	107.8435 %
Concentration per Run 1	0.5869 ppm	109.1775 %	112.4770 %	99.9110 %	104.7393 %	113.2269 %	107.7359 %
Concentration per Run 2	0.5770 ppm	111.2666 %	113.1335 %	100.3433 %	105.4214 %	112.3859 %	107.5367 %
Concentration per Run 3	0.5762 ppm	112.6223 %	113.0422 %	100.7207 %	106.2816 %	112.2148 %	108.2580 %
Concentration RSD	1.0 %	1.6 %	0.3 %	0.4 %	0.7 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-08d2 WG1934232
Analysis started at: 6/16/2024 12:15:18 AM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	123.8048 ppm	0.2515 ppm	0.0208 ppm	0.1133 ppm	0.0043 ppm	8.5976 ppm
Concentration per Run 1	0.0007 ppm	123.2933 ppm	0.2513 ppm	0.0215 ppm	0.1131 ppm	0.0044 ppm	8.5955 ppm
Concentration per Run 2	0.0003 ppm	124.1758 ppm	0.2504 ppm	0.0209 ppm	0.1133 ppm	0.0043 ppm	8.5994 ppm
Concentration per Run 3	0.0002 ppm	123.9453 ppm	0.2529 ppm	0.0201 ppm	0.1136 ppm	0.0043 ppm	8.5980 ppm
Concentration RSD	63.9 %	0.4 %	0.5 %	3.2 %	0.2 %	1.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.1379 ppm	0.1639 ppm	0.2519 ppm	328.7437 ppm	3.3231 ppm	0.2773 ppm
Concentration per Run 1	0.0027 ppm	0.1392 ppm	0.1662 ppm	0.2547 ppm	329.5539 ppm	3.3151 ppm	0.2767 ppm
Concentration per Run 2	0.0022 ppm	0.1373 ppm	0.1637 ppm	0.2505 ppm	327.4772 ppm	3.3417 ppm	0.2791 ppm
Concentration per Run 3	0.0028 ppm	0.1372 ppm	0.1618 ppm	0.2503 ppm	329.1999 ppm	3.3126 ppm	0.2762 ppm
Concentration RSD	13.1 %	0.8 %	1.4 %	1.0 %	0.3 %	0.5 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.0128 ppm	3.0700 ppm	0.0072 ppm	17.2284 ppm	0.2606 ppm	0.1799 ppm	0.0048 ppm
Concentration per Run 1	40.5051 ppm	3.0594 ppm	0.0067 ppm	17.3423 ppm	0.2637 ppm	0.1801 ppm	0.0050 ppm
Concentration per Run 2	39.9205 ppm	3.0752 ppm	0.0074 ppm	17.1475 ppm	0.2604 ppm	0.1780 ppm	0.0021 ppm
Concentration per Run 3	39.6129 ppm	3.0753 ppm	0.0076 ppm	17.1954 ppm	0.2575 ppm	0.1817 ppm	0.0073 ppm
Concentration RSD	1.1 %	0.3 %	6.6 %	0.6 %	1.2 %	1.0 %	54.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	7.7059 ppm	0.0021 ppm	0.0781 ppm	0.9989 ppm	0.0025 ppm	0.1621 ppm
Concentration per Run 1	-0.0037 ppm	7.8034 ppm	0.0019 ppm	0.0789 ppm	1.0093 ppm	0.0002 ppm	0.1627 ppm
Concentration per Run 2	0.0011 ppm	7.6808 ppm	0.0026 ppm	0.0774 ppm	0.9992 ppm	0.0041 ppm	0.1630 ppm
Concentration per Run 3	-0.0038 ppm	7.6334 ppm	0.0019 ppm	0.0780 ppm	0.9884 ppm	0.0033 ppm	0.1606 ppm
Concentration RSD	133.8 %	1.1 %	20.9 %	1.0 %	1.0 %	81.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5826 ppm	111.2925 %	114.1114 %	99.9712 %	108.5773 %	117.0140 %	110.9996 %
Concentration per Run 1	0.5895 ppm	110.2157 %	114.0287 %	99.2658 %	108.5634 %	117.3971 %	110.1683 %
Concentration per Run 2	0.5827 ppm	111.3323 %	114.8160 %	100.2623 %	108.5534 %	117.7177 %	111.5915 %
Concentration per Run 3	0.5756 ppm	112.3297 %	113.4894 %	100.3854 %	108.6150 %	115.9272 %	111.2391 %
Concentration RSD	1.2 %	1.0 %	0.6 %	0.6 %	0.0 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-09d2 WG1934232
Analysis started at: 6/16/2024 12:19:16 AM
Rack 3
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	69.6749 ppm	0.0916 ppm	0.1304 ppm	0.0566 ppm	0.0026 ppm	23.3002 ppm
Concentration per Run 1	0.0000 ppm	69.7428 ppm	0.0920 ppm	0.1326 ppm	0.0564 ppm	0.0026 ppm	23.3239 ppm
Concentration per Run 2	0.0000 ppm	69.7176 ppm	0.0912 ppm	0.1312 ppm	0.0567 ppm	0.0026 ppm	23.2993 ppm
Concentration per Run 3	-0.0001 ppm	69.5642 ppm	0.0916 ppm	0.1274 ppm	0.0567 ppm	0.0026 ppm	23.2774 ppm
Concentration RSD	57.0 %	0.1 %	0.4 %	2.1 %	0.3 %	1.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0542 ppm	0.1192 ppm	0.0982 ppm	166.0581 ppm	7.0525 ppm	0.2056 ppm
Concentration per Run 1	0.0011 ppm	0.0549 ppm	0.1198 ppm	0.0991 ppm	166.2357 ppm	7.1037 ppm	0.2072 ppm
Concentration per Run 2	0.0013 ppm	0.0544 ppm	0.1209 ppm	0.0991 ppm	165.6141 ppm	7.0362 ppm	0.2041 ppm
Concentration per Run 3	0.0010 ppm	0.0535 ppm	0.1168 ppm	0.0965 ppm	166.3245 ppm	7.0174 ppm	0.2057 ppm
Concentration RSD	9.4 %	1.3 %	1.8 %	1.5 %	0.2 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.6032 ppm	1.2381 ppm	0.0217 ppm	28.1400 ppm	0.1332 ppm	0.0614 ppm	0.0021 ppm
Concentration per Run 1	31.9207 ppm	1.2392 ppm	0.0215 ppm	28.1490 ppm	0.1347 ppm	0.0610 ppm	0.0028 ppm
Concentration per Run 2	31.8958 ppm	1.2356 ppm	0.0217 ppm	28.1338 ppm	0.1347 ppm	0.0620 ppm	0.0010 ppm
Concentration per Run 3	30.9932 ppm	1.2395 ppm	0.0219 ppm	28.1372 ppm	0.1303 ppm	0.0611 ppm	0.0026 ppm
Concentration RSD	1.7 %	0.2 %	0.7 %	0.0 %	1.9 %	0.9 %	46.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	5.2836 ppm	0.0027 ppm	0.1348 ppm	1.2560 ppm	0.0022 ppm	0.1470 ppm
Concentration per Run 1	-0.0021 ppm	5.3298 ppm	0.0024 ppm	0.1348 ppm	1.2657 ppm	0.0033 ppm	0.1481 ppm
Concentration per Run 2	-0.0007 ppm	5.3248 ppm	0.0026 ppm	0.1348 ppm	1.2683 ppm	0.0027 ppm	0.1482 ppm
Concentration per Run 3	0.0019 ppm	5.1963 ppm	0.0031 ppm	0.1349 ppm	1.2340 ppm	0.0004 ppm	0.1447 ppm
Concentration RSD	677.5 %	1.4 %	12.9 %	0.0 %	1.5 %	70.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3259 ppm	110.7905 %	113.0010 %	102.6716 %	107.3043 %	113.0439 %	109.3987 %
Concentration per Run 1	0.3294 ppm	109.4949 %	113.1960 %	102.4880 %	106.9709 %	113.5389 %	110.0336 %
Concentration per Run 2	0.3284 ppm	110.1109 %	113.0976 %	102.4617 %	106.8687 %	113.1314 %	108.7067 %
Concentration per Run 3	0.3197 ppm	112.7659 %	112.7095 %	103.0652 %	108.0733 %	112.4614 %	109.4557 %
Concentration RSD	1.6 %	1.6 %	0.2 %	0.3 %	0.6 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-10d2 WG1934232
Analysis started at: 6/16/2024 12:23:14 AM
Rack 3
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	121.9101 ppm	0.2287 ppm	0.0042 ppm	0.0934 ppm	0.0029 ppm	13.3646 ppm
Concentration per Run 1	0.0003 ppm	121.7723 ppm	0.2290 ppm	0.0061 ppm	0.0932 ppm	0.0029 ppm	13.3938 ppm
Concentration per Run 2	0.0001 ppm	121.9513 ppm	0.2291 ppm	0.0026 ppm	0.0939 ppm	0.0028 ppm	13.3215 ppm
Concentration per Run 3	0.0006 ppm	122.0067 ppm	0.2278 ppm	0.0040 ppm	0.0930 ppm	0.0029 ppm	13.3786 ppm
Concentration RSD	62.1 %	0.1 %	0.3 %	42.5 %	0.5 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.1545 ppm	0.1728 ppm	0.2198 ppm	338.6026 ppm	2.3811 ppm	0.2749 ppm
Concentration per Run 1	0.0023 ppm	0.1540 ppm	0.1738 ppm	0.2208 ppm	338.3375 ppm	2.4067 ppm	0.2765 ppm
Concentration per Run 2	0.0020 ppm	0.1553 ppm	0.1723 ppm	0.2187 ppm	338.2392 ppm	2.3510 ppm	0.2736 ppm
Concentration per Run 3	0.0023 ppm	0.1542 ppm	0.1723 ppm	0.2199 ppm	339.2310 ppm	2.3856 ppm	0.2747 ppm
Concentration RSD	6.6 %	0.5 %	0.5 %	0.5 %	0.2 %	1.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.8609 ppm	4.4094 ppm	0.0051 ppm	1.3502 ppm	0.2591 ppm	0.3452 ppm	0.0092 ppm
Concentration per Run 1	44.0777 ppm	4.4073 ppm	0.0048 ppm	1.3488 ppm	0.2590 ppm	0.3461 ppm	0.0120 ppm
Concentration per Run 2	43.7742 ppm	4.4091 ppm	0.0057 ppm	1.3568 ppm	0.2598 ppm	0.3434 ppm	0.0067 ppm
Concentration per Run 3	43.7308 ppm	4.4117 ppm	0.0048 ppm	1.3448 ppm	0.2586 ppm	0.3460 ppm	0.0088 ppm
Concentration RSD	0.4 %	0.1 %	10.1 %	0.5 %	0.2 %	0.4 %	29.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	9.0880 ppm	0.0021 ppm	0.0874 ppm	0.7277 ppm	0.0025 ppm	0.1724 ppm
Concentration per Run 1	-0.0006 ppm	9.1276 ppm	0.0023 ppm	0.0872 ppm	0.7314 ppm	0.0018 ppm	0.1729 ppm
Concentration per Run 2	-0.0018 ppm	9.0556 ppm	0.0016 ppm	0.0877 ppm	0.7257 ppm	0.0032 ppm	0.1722 ppm
Concentration per Run 3	-0.0005 ppm	9.0807 ppm	0.0023 ppm	0.0873 ppm	0.7261 ppm	0.0026 ppm	0.1720 ppm
Concentration RSD	76.0 %	0.4 %	21.1 %	0.3 %	0.4 %	27.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5548 ppm	113.1033 %	114.0496 %	100.6308 %	110.1577 %	116.7006 %	111.5938 %
Concentration per Run 1	0.5572 ppm	111.9703 %	114.0710 %	100.7698 %	109.5807 %	116.4313 %	111.9816 %
Concentration per Run 2	0.5551 ppm	113.3431 %	113.8728 %	100.5482 %	110.3972 %	116.7517 %	111.4557 %
Concentration per Run 3	0.5520 ppm	113.9964 %	114.2052 %	100.5744 %	110.4951 %	116.9186 %	111.3440 %
Concentration RSD	0.5 %	0.9 %	0.1 %	0.1 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-11d2 WG1934232
Analysis started at: 6/16/2024 12:27:12 AM
Rack 3
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	130.3152 ppm	0.2168 ppm	0.0058 ppm	0.0974 ppm	0.0029 ppm	12.4875 ppm
Concentration per Run 1	0.0001 ppm	130.4534 ppm	0.2179 ppm	0.0049 ppm	0.0977 ppm	0.0029 ppm	12.5000 ppm
Concentration per Run 2	0.0009 ppm	130.3210 ppm	0.2166 ppm	0.0059 ppm	0.0970 ppm	0.0030 ppm	12.5031 ppm
Concentration per Run 3	0.0007 ppm	130.1712 ppm	0.2161 ppm	0.0064 ppm	0.0975 ppm	0.0030 ppm	12.4594 ppm
Concentration RSD	79.7 %	0.1 %	0.4 %	13.7 %	0.4 %	1.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.1221 ppm	0.2435 ppm	0.2051 ppm	340.7333 ppm	2.1938 ppm	0.2829 ppm
Concentration per Run 1	0.0019 ppm	0.1227 ppm	0.2452 ppm	0.2064 ppm	341.0152 ppm	2.2378 ppm	0.2866 ppm
Concentration per Run 2	0.0024 ppm	0.1224 ppm	0.2442 ppm	0.2063 ppm	341.9275 ppm	2.1861 ppm	0.2824 ppm
Concentration per Run 3	0.0026 ppm	0.1212 ppm	0.2412 ppm	0.2027 ppm	339.2572 ppm	2.1576 ppm	0.2797 ppm
Concentration RSD	15.2 %	0.6 %	0.9 %	1.0 %	0.4 %	1.9 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	46.1646 ppm	4.2769 ppm	0.0259 ppm	1.9922 ppm	0.2756 ppm	0.3315 ppm	0.0045 ppm
Concentration per Run 1	46.5777 ppm	4.2800 ppm	0.0259 ppm	1.9882 ppm	0.2781 ppm	0.3326 ppm	0.0051 ppm
Concentration per Run 2	46.1624 ppm	4.2871 ppm	0.0255 ppm	1.9944 ppm	0.2756 ppm	0.3314 ppm	0.0054 ppm
Concentration per Run 3	45.7538 ppm	4.2634 ppm	0.0263 ppm	1.9941 ppm	0.2730 ppm	0.3305 ppm	0.0029 ppm
Concentration RSD	0.9 %	0.3 %	1.5 %	0.2 %	0.9 %	0.3 %	30.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	9.9882 ppm	0.0024 ppm	0.0890 ppm	0.7423 ppm	0.0008 ppm	0.1864 ppm
Concentration per Run 1	0.0020 ppm	10.0213 ppm	0.0019 ppm	0.0893 ppm	0.7501 ppm	0.0002 ppm	0.1901 ppm
Concentration per Run 2	-0.0022 ppm	10.0108 ppm	0.0022 ppm	0.0891 ppm	0.7395 ppm	0.0019 ppm	0.1852 ppm
Concentration per Run 3	0.0000 ppm	9.9325 ppm	0.0030 ppm	0.0886 ppm	0.7372 ppm	0.0003 ppm	0.1838 ppm
Concentration RSD	2,212.1 %	0.5 %	23.2 %	0.4 %	0.9 %	121.5 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5580 ppm	110.1982 %	114.4697 %	99.8879 %	106.2296 %	115.3398 %	109.1250 %
Concentration per Run 1	0.5649 ppm	109.1457 %	114.5218 %	99.8532 %	105.8653 %	115.7187 %	109.5914 %
Concentration per Run 2	0.5580 ppm	110.2670 %	113.8211 %	99.5379 %	106.4536 %	114.7286 %	108.4404 %
Concentration per Run 3	0.5511 ppm	111.1819 %	115.0661 %	100.2725 %	106.3697 %	115.5719 %	109.3432 %
Concentration RSD	1.2 %	0.9 %	0.5 %	0.4 %	0.3 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: eL2430640-12d2 WG1934232
Analysis started at: 6/16/2024 12:31:10 AM
Rack 3
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	110.8751 ppm	0.5093 ppm	0.0599 ppm	0.0600 ppm	0.0044 ppm	25.4385 ppm
Concentration per Run 1	0.0001 ppm	110.6656 ppm	0.5131 ppm	0.0599 ppm	0.0600 ppm	0.0044 ppm	25.3713 ppm
Concentration per Run 2	-0.0008 ppm	110.9233 ppm	0.5102 ppm	0.0602 ppm	0.0600 ppm	0.0044 ppm	25.5003 ppm
Concentration per Run 3	-0.0005 ppm	111.0364 ppm	0.5048 ppm	0.0597 ppm	0.0599 ppm	0.0045 ppm	25.4438 ppm
Concentration RSD	126.5 %	0.2 %	0.8 %	0.4 %	0.1 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.2793 ppm	0.1702 ppm	0.4329 ppm	505.2695 ppm	3.0244 ppm	0.3095 ppm
Concentration per Run 1	0.0029 ppm	0.2820 ppm	0.1719 ppm	0.4366 ppm	504.9735 ppm	3.0456 ppm	0.3131 ppm
Concentration per Run 2	0.0029 ppm	0.2775 ppm	0.1693 ppm	0.4312 ppm	505.6770 ppm	3.0284 ppm	0.3081 ppm
Concentration per Run 3	0.0028 ppm	0.2782 ppm	0.1694 ppm	0.4309 ppm	505.1580 ppm	2.9993 ppm	0.3073 ppm
Concentration RSD	1.9 %	0.9 %	0.9 %	0.7 %	0.1 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.6938 ppm	5.3788 ppm	0.0231 ppm	19.1407 ppm	0.3101 ppm	0.1885 ppm	0.0124 ppm
Concentration per Run 1	41.1983 ppm	5.3762 ppm	0.0231 ppm	19.1283 ppm	0.3124 ppm	0.1911 ppm	0.0122 ppm
Concentration per Run 2	40.5415 ppm	5.3847 ppm	0.0231 ppm	19.1344 ppm	0.3093 ppm	0.1886 ppm	0.0147 ppm
Concentration per Run 3	40.3417 ppm	5.3756 ppm	0.0232 ppm	19.1593 ppm	0.3086 ppm	0.1857 ppm	0.0104 ppm
Concentration RSD	1.1 %	0.1 %	0.2 %	0.1 %	0.7 %	1.5 %	17.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	8.3699 ppm	0.0057 ppm	0.1852 ppm	0.7914 ppm	0.0010 ppm	0.1831 ppm
Concentration per Run 1	0.0028 ppm	8.4416 ppm	0.0058 ppm	0.1853 ppm	0.7929 ppm	0.0020 ppm	0.1849 ppm
Concentration per Run 2	-0.0002 ppm	8.3599 ppm	0.0052 ppm	0.1855 ppm	0.7908 ppm	0.0005 ppm	0.1816 ppm
Concentration per Run 3	-0.0022 ppm	8.3081 ppm	0.0061 ppm	0.1849 ppm	0.7904 ppm	0.0003 ppm	0.1828 ppm
Concentration RSD	1,904.5 %	0.8 %	8.1 %	0.2 %	0.2 %	97.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7726 ppm	114.3434 %	117.2110 %	99.5278 %	106.1337 %	115.2373 %	108.9577 %
Concentration per Run 1	0.7846 ppm	112.6610 %	117.4649 %	99.4134 %	104.9638 %	115.7498 %	108.9815 %
Concentration per Run 2	0.7682 ppm	115.0320 %	116.3643 %	99.2799 %	106.6265 %	114.4027 %	108.6355 %
Concentration per Run 3	0.7651 ppm	115.3372 %	117.8039 %	99.8902 %	106.8110 %	115.5594 %	109.2561 %
Concentration RSD	1.4 %	1.3 %	0.6 %	0.3 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-13d2 WG1934232
Analysis started at: 6/16/2024 12:35:08 AM
Rack 3
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	114.6840 ppm	0.3549 ppm	0.0351 ppm	0.0330 ppm	0.0034 ppm	12.7958 ppm
Concentration per Run 1	0.0009 ppm	114.2834 ppm	0.3560 ppm	0.0356 ppm	0.0331 ppm	0.0034 ppm	12.7922 ppm
Concentration per Run 2	-0.0004 ppm	115.1912 ppm	0.3544 ppm	0.0359 ppm	0.0330 ppm	0.0034 ppm	12.8279 ppm
Concentration per Run 3	0.0008 ppm	114.5773 ppm	0.3545 ppm	0.0339 ppm	0.0328 ppm	0.0034 ppm	12.7673 ppm
Concentration RSD	156.9 %	0.4 %	0.3 %	3.1 %	0.6 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.3666 ppm	0.1560 ppm	0.2307 ppm	341.5244 ppm	2.9688 ppm	0.3558 ppm
Concentration per Run 1	0.0031 ppm	0.3688 ppm	0.1571 ppm	0.2325 ppm	341.0707 ppm	2.9616 ppm	0.3525 ppm
Concentration per Run 2	0.0032 ppm	0.3682 ppm	0.1558 ppm	0.2303 ppm	342.2846 ppm	2.9896 ppm	0.3591 ppm
Concentration per Run 3	0.0034 ppm	0.3628 ppm	0.1550 ppm	0.2294 ppm	341.2179 ppm	2.9554 ppm	0.3559 ppm
Concentration RSD	3.8 %	0.9 %	0.7 %	0.7 %	0.2 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.5347 ppm	3.3034 ppm	0.0507 ppm	17.0450 ppm	0.2974 ppm	0.1186 ppm	0.0085 ppm
Concentration per Run 1	40.8910 ppm	3.2940 ppm	0.0498 ppm	17.1397 ppm	0.3003 ppm	0.1209 ppm	0.0087 ppm
Concentration per Run 2	40.6281 ppm	3.3127 ppm	0.0504 ppm	16.9917 ppm	0.2985 ppm	0.1179 ppm	0.0099 ppm
Concentration per Run 3	40.0850 ppm	3.3034 ppm	0.0520 ppm	17.0038 ppm	0.2934 ppm	0.1169 ppm	0.0069 ppm
Concentration RSD	1.0 %	0.3 %	2.3 %	0.5 %	1.2 %	1.8 %	17.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	8.3269 ppm	0.0024 ppm	0.0924 ppm	0.6119 ppm	0.0013 ppm	0.1290 ppm
Concentration per Run 1	0.0027 ppm	8.3798 ppm	0.0036 ppm	0.0930 ppm	0.6177 ppm	0.0005 ppm	0.1299 ppm
Concentration per Run 2	-0.0019 ppm	8.2898 ppm	0.0009 ppm	0.0926 ppm	0.6087 ppm	0.0017 ppm	0.1308 ppm
Concentration per Run 3	0.0020 ppm	8.3111 ppm	0.0028 ppm	0.0917 ppm	0.6092 ppm	0.0017 ppm	0.1264 ppm
Concentration RSD	258.7 %	0.6 %	58.1 %	0.7 %	0.8 %	52.5 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6019 ppm	111.4215 %	114.4472 %	100.7123 %	104.7150 %	113.1295 %	107.5994 %
Concentration per Run 1	0.6088 ppm	110.3035 %	114.2495 %	100.1870 %	104.4848 %	113.4341 %	107.4958 %
Concentration per Run 2	0.6037 ppm	111.0110 %	114.2675 %	100.9402 %	104.3057 %	112.8267 %	108.0627 %
Concentration per Run 3	0.5933 ppm	112.9501 %	114.8246 %	101.0097 %	105.3544 %	113.1276 %	107.2398 %
Concentration RSD	1.3 %	1.2 %	0.3 %	0.5 %	0.5 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2430640-14d2 WG1934232
Analysis started at: 6/16/2024 12:39:05 AM
Rack 3
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	81.5256 ppm	0.2588 ppm	0.0947 ppm	0.0913 ppm	0.0031 ppm	21.3442 ppm
Concentration per Run 1	0.0004 ppm	81.7335 ppm	0.2611 ppm	0.0942 ppm	0.0912 ppm	0.0031 ppm	21.3365 ppm
Concentration per Run 2	0.0005 ppm	81.6225 ppm	0.2578 ppm	0.0955 ppm	0.0913 ppm	0.0032 ppm	21.3616 ppm
Concentration per Run 3	0.0008 ppm	81.2207 ppm	0.2576 ppm	0.0942 ppm	0.0913 ppm	0.0031 ppm	21.3344 ppm
Concentration RSD	39.7 %	0.3 %	0.8 %	0.8 %	0.0 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1355 ppm	0.1540 ppm	0.1813 ppm	231.8163 ppm	5.1968 ppm	0.2168 ppm
Concentration per Run 1	0.0017 ppm	0.1371 ppm	0.1553 ppm	0.1827 ppm	231.9965 ppm	5.2267 ppm	0.2186 ppm
Concentration per Run 2	0.0016 ppm	0.1353 ppm	0.1540 ppm	0.1810 ppm	231.9051 ppm	5.2123 ppm	0.2169 ppm
Concentration per Run 3	0.0016 ppm	0.1342 ppm	0.1528 ppm	0.1801 ppm	231.5474 ppm	5.1514 ppm	0.2150 ppm
Concentration RSD	2.3 %	1.1 %	0.8 %	0.7 %	0.1 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.2236 ppm	3.5527 ppm	0.0068 ppm	36.0120 ppm	0.2142 ppm	0.2140 ppm	0.0030 ppm
Concentration per Run 1	35.6175 ppm	3.5522 ppm	0.0064 ppm	36.0601 ppm	0.2148 ppm	0.2139 ppm	-0.0018 ppm
Concentration per Run 2	35.1703 ppm	3.5566 ppm	0.0069 ppm	35.9316 ppm	0.2140 ppm	0.2152 ppm	0.0060 ppm
Concentration per Run 3	34.8829 ppm	3.5494 ppm	0.0072 ppm	36.0442 ppm	0.2139 ppm	0.2129 ppm	0.0050 ppm
Concentration RSD	1.1 %	0.1 %	6.0 %	0.2 %	0.2 %	0.5 %	139.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	8.6264 ppm	0.0087 ppm	0.1675 ppm	0.9937 ppm	0.0013 ppm	0.1565 ppm
Concentration per Run 1	0.0006 ppm	8.7174 ppm	0.0078 ppm	0.1674 ppm	1.0048 ppm	0.0020 ppm	0.1582 ppm
Concentration per Run 2	-0.0007 ppm	8.6099 ppm	0.0093 ppm	0.1678 ppm	0.9897 ppm	0.0020 ppm	0.1564 ppm
Concentration per Run 3	0.0046 ppm	8.5519 ppm	0.0090 ppm	0.1673 ppm	0.9866 ppm	-0.0001 ppm	0.1547 ppm
Concentration RSD	187.6 %	1.0 %	9.3 %	0.1 %	1.0 %	96.2 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6300 ppm	111.4548 %	115.5394 %	101.4838 %	106.3244 %	114.9478 %	109.3500 %
Concentration per Run 1	0.6345 ppm	110.1773 %	115.6672 %	101.2313 %	105.9848 %	115.2584 %	109.1790 %
Concentration per Run 2	0.6286 ppm	111.4190 %	115.1059 %	101.2807 %	106.2887 %	114.2001 %	109.3411 %
Concentration per Run 3	0.6268 ppm	112.7680 %	115.8451 %	101.9395 %	106.6996 %	115.3849 %	109.5300 %
Concentration RSD	0.6 %	1.2 %	0.3 %	0.4 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCV
Analysis started at: 6/16/2024 12:43:03 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5118 ppm	0.5082 ppm	0.4791 ppm	0.5006 ppm	0.5032 ppm	0.5119 ppm	0.5074 ppm
Concentration per Run 1	0.5151 ppm	0.5183 ppm	0.4812 ppm	0.5056 ppm	0.5040 ppm	0.5114 ppm	0.5083 ppm
Concentration per Run 2	0.5106 ppm	0.5118 ppm	0.4788 ppm	0.4996 ppm	0.5041 ppm	0.5121 ppm	0.5050 ppm
Concentration per Run 3	0.5097 ppm	0.4945 ppm	0.4772 ppm	0.4967 ppm	0.5015 ppm	0.5122 ppm	0.5090 ppm
Recovery Percentage 1	102.358 %	101.640 %	95.811 %	100.125 %	100.638 %	102.379 %	101.489 %
Concentration RSD	0.6 %	2.4 %	0.4 %	0.9 %	0.3 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5133 ppm	0.5189 ppm	0.5010 ppm	0.5041 ppm	0.5459 ppm	5.2511 ppm	0.4968 ppm
Concentration per Run 1	0.5205 ppm	0.5278 ppm	0.5051 ppm	0.5110 ppm	0.5479 ppm	5.3189 ppm	0.5009 ppm
Concentration per Run 2	0.5114 ppm	0.5159 ppm	0.5000 ppm	0.5041 ppm	0.5457 ppm	5.2043 ppm	0.4970 ppm
Concentration per Run 3	0.5080 ppm	0.5131 ppm	0.4980 ppm	0.4973 ppm	0.5440 ppm	5.2299 ppm	0.4925 ppm
Recovery Percentage 1	102.660 %	103.787 %	100.200 %	100.825 %	109.170 %	105.021 %	99.364 %
Concentration RSD	1.3 %	1.5 %	0.7 %	1.4 %	0.4 %	1.1 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5112 ppm	0.5007 ppm	0.5015 ppm	10.1890 ppm	0.5148 ppm	0.4998 ppm	0.4951 ppm
Concentration per Run 1	0.5171 ppm	0.5024 ppm	0.4994 ppm	10.1961 ppm	0.5203 ppm	0.5032 ppm	0.4990 ppm
Concentration per Run 2	0.5086 ppm	0.4996 ppm	0.5006 ppm	10.1636 ppm	0.5143 ppm	0.4991 ppm	0.4968 ppm
Concentration per Run 3	0.5078 ppm	0.5000 ppm	0.5046 ppm	10.2072 ppm	0.5100 ppm	0.4972 ppm	0.4896 ppm
Recovery Percentage 1	102.234 %	100.135 %	100.304 %	101.890 %	102.966 %	99.969 %	99.023 %
Concentration RSD	1.0 %	0.3 %	0.5 %	0.2 %	1.0 %	0.6 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4878 ppm	5.2372 ppm	0.5128 ppm	0.5122 ppm	0.5076 ppm	0.5094 ppm	0.5000 ppm
Concentration per Run 1	0.4908 ppm	5.2869 ppm	0.5125 ppm	0.5119 ppm	0.5128 ppm	0.5128 ppm	0.5050 ppm
Concentration per Run 2	0.4898 ppm	5.2381 ppm	0.5079 ppm	0.5109 ppm	0.5079 ppm	0.5086 ppm	0.4993 ppm
Concentration per Run 3	0.4826 ppm	5.1867 ppm	0.5179 ppm	0.5137 ppm	0.5021 ppm	0.5067 ppm	0.4958 ppm
Recovery Percentage 1	97.551 %	99.757 %	102.556 %	102.438 %	101.519 %	101.877 %	100.002 %
Concentration RSD	0.9 %	1.0 %	1.0 %	0.3 %	1.1 %	0.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5121 ppm	109.9582 %	109.9950 %	107.8170 %	98.1624 %	100.6425 %	99.1188 %
Concentration per Run 1	0.5177 ppm	107.6830 %	110.3231 %	107.0996 %	97.2048 %	101.5525 %	99.3305 %
Concentration per Run 2	0.5109 ppm	110.5644 %	110.4109 %	107.7317 %	98.9183 %	100.7875 %	98.7391 %
Concentration per Run 3	0.5076 ppm	111.6270 %	109.2510 %	108.6198 %	98.3641 %	99.5875 %	99.2868 %
Recovery Percentage 1	102.413 %						
Concentration RSD	1.0 %	1.9 %	0.6 %	0.7 %	0.9 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCB
Analysis started at: 6/16/2024 12:47:00 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0066 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	-0.0003 ppm	0.0077 ppm	0.0007 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	0.0046 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 3	0.0006 ppm	0.0076 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Recovery Percentage 1	1.082 %	6.625 %	3.740 %	0.076 %	0.557 %	1.167 %	1.029 %
Concentration RSD	614.7 %	26.9 %	481.2 %	2,212.4 %	244.0 %	66.5 %	209.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0084 ppm	-0.0174 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0082 ppm	-0.0391 ppm	-0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0077 ppm	0.0173 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0092 ppm	-0.0305 ppm	0.0012 ppm
Recovery Percentage 1	0.414 %	0.946 %	-0.062 %	2.375 %	16.766 %	-0.697 %	1.292 %
Concentration RSD	418.2 %	44.6 %	1,511.1 %	48.1 %	9.1 %	174.3 %	778.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0004 ppm	-0.0005 ppm	-0.0586 ppm	-0.0009 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	-0.0010 ppm	0.0002 ppm	-0.0007 ppm	-0.0560 ppm	-0.0019 ppm	-0.0006 ppm	-0.0009 ppm
Concentration per Run 2	-0.0010 ppm	0.0003 ppm	-0.0008 ppm	-0.0582 ppm	-0.0007 ppm	0.0005 ppm	-0.0011 ppm
Concentration per Run 3	-0.0015 ppm	0.0005 ppm	-0.0001 ppm	-0.0615 ppm	-0.0003 ppm	0.0005 ppm	0.0004 ppm
Recovery Percentage 1	-1.154 %	3.506 %	-1.076 %	-2.928 %	-3.736 %	1.144 %	-1.071 %
Concentration RSD	23.6 %	47.2 %	68.8 %	4.7 %	91.4 %	554.0 %	155.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	-0.0031 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	-0.0040 ppm	0.0008 ppm	0.0003 ppm	-0.0005 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	-0.0024 ppm	-0.0011 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0004 ppm	-0.0028 ppm	0.0003 ppm	0.0001 ppm	-0.0004 ppm	-0.0008 ppm	-0.0003 ppm
Recovery Percentage 1	1.082 %	-0.612 %	-0.033 %	1.131 %	-3.620 %	-2.897 %	-1.879 %
Concentration RSD	429.5 %	27.6 %	5,788.7 %	115.7 %	37.6 %	59.3 %	74.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	100.7932 %	102.2646 %	102.3276 %	99.3252 %	101.7392 %	101.0174 %
Concentration per Run 1	0.0009 ppm	98.7697 %	101.6425 %	102.1587 %	98.0542 %	101.9539 %	101.3527 %
Concentration per Run 2	0.0006 ppm	100.9480 %	101.5844 %	101.7742 %	99.7123 %	101.1973 %	100.4577 %
Concentration per Run 3	0.0005 ppm	102.6619 %	103.5670 %	103.0501 %	100.2093 %	102.0663 %	101.2417 %
Recovery Percentage 1	13.736 %						
Concentration RSD	24.4 %	1.9 %	1.1 %	0.6 %	1.1 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432443-01 WG1934502
Analysis started at: 6/16/2024 1:15:36 AM
Rack 3
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0149 ppm	-0.0003 ppm	0.0056 ppm	0.0000 ppm	0.0000 ppm	0.0465 ppm
Concentration per Run 1	-0.0002 ppm	0.0108 ppm	0.0002 ppm	0.0061 ppm	-0.0001 ppm	-0.0001 ppm	0.0437 ppm
Concentration per Run 2	-0.0001 ppm	0.0229 ppm	0.0004 ppm	0.0040 ppm	0.0000 ppm	0.0000 ppm	0.0458 ppm
Concentration per Run 3	-0.0003 ppm	0.0110 ppm	-0.0016 ppm	0.0067 ppm	0.0000 ppm	0.0000 ppm	0.0501 ppm
Concentration RSD	43.8 %	46.5 %	357.1 %	26.2 %	229.6 %	98.7 %	7.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0081 ppm	147.9505 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0002 ppm	0.0095 ppm	146.8156 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0075 ppm	147.8439 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0072 ppm	149.1920 ppm	0.0004 ppm
Concentration RSD	225.9 %	161.7 %	7.5 %	54.9 %	15.9 %	0.8 %	113.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0122 ppm	0.0002 ppm	-0.0013 ppm	79.6582 ppm	0.0006 ppm	-0.0004 ppm	-0.0020 ppm
Concentration per Run 1	0.0107 ppm	0.0003 ppm	-0.0006 ppm	79.0934 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0144 ppm	0.0001 ppm	-0.0013 ppm	79.7634 ppm	0.0007 ppm	-0.0015 ppm	-0.0011 ppm
Concentration per Run 3	0.0115 ppm	0.0002 ppm	-0.0018 ppm	80.1177 ppm	0.0008 ppm	-0.0001 ppm	-0.0047 ppm
Concentration RSD	16.2 %	73.8 %	48.5 %	0.7 %	53.0 %	221.4 %	121.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0690 ppm	-0.0018 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0831 ppm	-0.0023 ppm	0.0001 ppm	0.0006 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0007 ppm	0.0661 ppm	-0.0017 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	0.0577 ppm	-0.0014 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm
Concentration RSD	1,539.1 %	18.8 %	23.8 %	53.9 %	49.8 %	1,044.5 %	127.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0033 ppm	121.6770 %	114.6311 %	110.4931 %	93.5873 %	98.8740 %	95.6933 %
Concentration per Run 1	0.0034 ppm	122.3302 %	114.5712 %	110.4423 %	93.1360 %	98.3432 %	95.0985 %
Concentration per Run 2	0.0034 ppm	122.1790 %	114.7575 %	110.3629 %	94.2597 %	99.3040 %	95.4797 %
Concentration per Run 3	0.0032 ppm	120.5217 %	114.5645 %	110.6742 %	93.3663 %	98.9748 %	96.5015 %
Concentration RSD	3.8 %	0.8 %	0.1 %	0.1 %	0.6 %	0.5 %	0.8 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432477-01 WG1934502
Analysis started at: 6/16/2024 1:19:48 AM
Rack 3
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.8340 ppm	0.0001 ppm	0.0232 ppm	0.0277 ppm	0.0000 ppm	38.9159 ppm
Concentration per Run 1	-0.0008 ppm	0.8475 ppm	-0.0009 ppm	0.0234 ppm	0.0281 ppm	0.0001 ppm	39.2042 ppm
Concentration per Run 2	-0.0003 ppm	0.8342 ppm	0.0011 ppm	0.0235 ppm	0.0276 ppm	0.0000 ppm	38.8460 ppm
Concentration per Run 3	-0.0004 ppm	0.8202 ppm	0.0002 ppm	0.0227 ppm	0.0274 ppm	0.0000 ppm	38.6975 ppm
Concentration RSD	52.1 %	1.6 %	692.7 %	1.9 %	1.2 %	304.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0009 ppm	0.0062 ppm	0.5226 ppm	2.3476 ppm	0.0026 ppm
Concentration per Run 1	-0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0063 ppm	0.5280 ppm	2.4081 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0010 ppm	0.0065 ppm	0.5203 ppm	2.3129 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0058 ppm	0.5196 ppm	2.3218 ppm	0.0042 ppm
Concentration RSD	5,635.9 %	91.9 %	27.5 %	5.2 %	0.9 %	2.2 %	56.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.5175 ppm	0.0335 ppm	-0.0007 ppm	14.4633 ppm	0.0017 ppm	0.0004 ppm	-0.0018 ppm
Concentration per Run 1	10.7536 ppm	0.0339 ppm	-0.0011 ppm	14.5668 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	10.4795 ppm	0.0334 ppm	-0.0007 ppm	14.4558 ppm	0.0021 ppm	0.0004 ppm	-0.0030 ppm
Concentration per Run 3	10.3194 ppm	0.0332 ppm	-0.0003 ppm	14.3673 ppm	0.0017 ppm	0.0004 ppm	-0.0024 ppm
Concentration RSD	2.1 %	1.1 %	58.3 %	0.7 %	22.7 %	12.4 %	88.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	1.0055 ppm	-0.0008 ppm	0.1851 ppm	0.0058 ppm	0.0011 ppm	0.0009 ppm
Concentration per Run 1	-0.0023 ppm	1.0215 ppm	-0.0001 ppm	0.1875 ppm	0.0059 ppm	0.0013 ppm	0.0008 ppm
Concentration per Run 2	-0.0008 ppm	1.0028 ppm	-0.0015 ppm	0.1845 ppm	0.0057 ppm	0.0009 ppm	0.0010 ppm
Concentration per Run 3	0.0016 ppm	0.9921 ppm	-0.0010 ppm	0.1834 ppm	0.0058 ppm	0.0011 ppm	0.0007 ppm
Concentration RSD	386.4 %	1.5 %	81.9 %	1.1 %	1.8 %	19.9 %	15.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0092 ppm	97.8208 %	102.4485 %	97.3601 %	96.8847 %	102.5285 %	99.3859 %
Concentration per Run 1	0.0094 ppm	96.0770 %	101.5388 %	96.4435 %	95.5006 %	102.4614 %	99.2959 %
Concentration per Run 2	0.0091 ppm	97.7298 %	103.0261 %	97.5286 %	96.9735 %	103.1058 %	99.3448 %
Concentration per Run 3	0.0090 ppm	99.6555 %	102.7808 %	98.1083 %	98.1801 %	102.0184 %	99.5169 %
Concentration RSD	2.4 %	1.8 %	0.8 %	0.9 %	1.4 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432528-01 WG1934502
Analysis started at: 6/16/2024 1:23:48 AM
Rack 3
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0147 ppm	0.0006 ppm	0.1198 ppm	0.0075 ppm	0.0000 ppm	21.4751 ppm
Concentration per Run 1	-0.0001 ppm	0.0206 ppm	-0.0010 ppm	0.1208 ppm	0.0075 ppm	0.0000 ppm	21.5325 ppm
Concentration per Run 2	-0.0007 ppm	0.0091 ppm	0.0008 ppm	0.1204 ppm	0.0075 ppm	0.0000 ppm	21.4783 ppm
Concentration per Run 3	0.0000 ppm	0.0145 ppm	0.0019 ppm	0.1182 ppm	0.0074 ppm	0.0000 ppm	21.4145 ppm
Concentration RSD	146.9 %	39.2 %	250.3 %	1.2 %	0.8 %	234.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0063 ppm	0.1365 ppm	23.9436 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0063 ppm	0.1378 ppm	24.0073 ppm	0.0030 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0000 ppm	0.0066 ppm	0.1393 ppm	23.9717 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0005 ppm	0.0060 ppm	0.1324 ppm	23.8518 ppm	0.0040 ppm
Concentration RSD	351.1 %	14.4 %	99.6 %	5.0 %	2.7 %	0.3 %	31.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.5253 ppm	0.2810 ppm	0.0009 ppm	103.4710 ppm	0.0038 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 1	18.8273 ppm	0.2817 ppm	0.0012 ppm	103.8828 ppm	0.0036 ppm	0.0002 ppm	-0.0012 ppm
Concentration per Run 2	18.5463 ppm	0.2812 ppm	0.0006 ppm	103.5109 ppm	0.0039 ppm	-0.0002 ppm	-0.0031 ppm
Concentration per Run 3	18.2023 ppm	0.2802 ppm	0.0010 ppm	103.0191 ppm	0.0038 ppm	-0.0011 ppm	0.0062 ppm
Concentration RSD	1.7 %	0.3 %	36.1 %	0.4 %	3.7 %	192.6 %	761.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	6.4115 ppm	-0.0011 ppm	0.1164 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0024 ppm	6.4840 ppm	-0.0008 ppm	0.1175 ppm	0.0000 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	6.4070 ppm	-0.0014 ppm	0.1164 ppm	0.0000 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0006 ppm	6.3434 ppm	-0.0011 ppm	0.1152 ppm	-0.0003 ppm	0.0004 ppm	0.0003 ppm
Concentration RSD	136.9 %	1.1 %	24.1 %	1.0 %	204.9 %	900.2 %	10.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0306 ppm	96.3409 %	102.2689 %	93.5908 %	94.4851 %	101.4444 %	96.5997 %
Concentration per Run 1	0.0308 ppm	94.7891 %	103.0860 %	93.2163 %	93.5209 %	102.8111 %	97.0085 %
Concentration per Run 2	0.0312 ppm	96.0300 %	101.8295 %	93.1692 %	94.2929 %	100.9924 %	96.0280 %
Concentration per Run 3	0.0300 ppm	98.2035 %	101.8910 %	94.3869 %	95.6414 %	100.5296 %	96.7626 %
Concentration RSD	2.0 %	1.8 %	0.7 %	0.7 %	1.1 %	1.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432540-01 WG1934502
Analysis started at: 6/16/2024 1:27:47 AM
Rack 3
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1059 ppm	0.0002 ppm	0.0206 ppm	0.0179 ppm	0.0000 ppm	32.1304 ppm
Concentration per Run 1	-0.0002 ppm	0.1101 ppm	-0.0016 ppm	0.0220 ppm	0.0180 ppm	0.0000 ppm	32.2995 ppm
Concentration per Run 2	-0.0001 ppm	0.0961 ppm	0.0026 ppm	0.0206 ppm	0.0179 ppm	-0.0001 ppm	32.0748 ppm
Concentration per Run 3	0.0001 ppm	0.1117 ppm	-0.0004 ppm	0.0191 ppm	0.0178 ppm	0.0000 ppm	32.0170 ppm
Concentration RSD	318.6 %	8.1 %	1,094.0 %	7.0 %	0.7 %	110.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0610 ppm	0.0834 ppm	1.7651 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0618 ppm	0.0820 ppm	1.8026 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0615 ppm	0.0856 ppm	1.7645 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0596 ppm	0.0827 ppm	1.7281 ppm	0.0022 ppm
Concentration RSD	132.1 %	94.7 %	101.5 %	1.9 %	2.3 %	2.1 %	38.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.0561 ppm	0.0048 ppm	-0.0008 ppm	20.6323 ppm	0.0020 ppm	-0.0005 ppm	-0.0025 ppm
Concentration per Run 1	9.2093 ppm	0.0049 ppm	-0.0008 ppm	20.7305 ppm	0.0026 ppm	0.0001 ppm	-0.0029 ppm
Concentration per Run 2	9.0828 ppm	0.0049 ppm	-0.0010 ppm	20.5769 ppm	0.0018 ppm	-0.0003 ppm	-0.0032 ppm
Concentration per Run 3	8.8760 ppm	0.0048 ppm	-0.0006 ppm	20.5894 ppm	0.0016 ppm	-0.0013 ppm	-0.0015 ppm
Concentration RSD	1.9 %	1.3 %	27.3 %	0.4 %	26.0 %	142.6 %	34.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.3509 ppm	-0.0010 ppm	0.1602 ppm	0.0032 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.3520 ppm	-0.0001 ppm	0.1615 ppm	0.0030 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	0.3513 ppm	-0.0019 ppm	0.1597 ppm	0.0034 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.3494 ppm	-0.0011 ppm	0.1595 ppm	0.0032 ppm	0.0013 ppm	0.0000 ppm
Concentration RSD	12.9 %	0.4 %	91.6 %	0.7 %	6.4 %	268.1 %	168.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0132 ppm	98.1441 %	102.2164 %	97.6655 %	97.0451 %	102.0556 %	99.3878 %
Concentration per Run 1	0.0131 ppm	96.7587 %	102.1227 %	96.8586 %	95.7343 %	102.8631 %	99.4124 %
Concentration per Run 2	0.0135 ppm	97.8628 %	102.5698 %	97.7145 %	97.0985 %	102.3754 %	99.6084 %
Concentration per Run 3	0.0130 ppm	99.8108 %	101.9566 %	98.4234 %	98.3026 %	100.9283 %	99.1426 %
Concentration RSD	2.0 %	1.6 %	0.3 %	0.8 %	1.3 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432603-02 WG1934502
Analysis started at: 6/16/2024 1:31:45 AM
Rack 3
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0892 ppm	-0.0003 ppm	0.5845 ppm	0.0448 ppm	0.0000 ppm	115.2321 ppm
Concentration per Run 1	-0.0002 ppm	0.0912 ppm	0.0006 ppm	0.5875 ppm	0.0453 ppm	-0.0001 ppm	115.4669 ppm
Concentration per Run 2	0.0002 ppm	0.0906 ppm	-0.0003 ppm	0.5848 ppm	0.0446 ppm	0.0000 ppm	115.3529 ppm
Concentration per Run 3	0.0002 ppm	0.0859 ppm	-0.0013 ppm	0.5810 ppm	0.0445 ppm	0.0000 ppm	114.8766 ppm
Concentration RSD	366.0 %	3.3 %	290.3 %	0.6 %	0.9 %	155.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0016 ppm	0.0017 ppm	0.0711 ppm	1.1808 ppm	13.6371 ppm	0.0532 ppm
Concentration per Run 1	0.0002 ppm	0.0015 ppm	0.0016 ppm	0.0715 ppm	1.1866 ppm	13.7552 ppm	0.0548 ppm
Concentration per Run 2	0.0002 ppm	0.0013 ppm	0.0015 ppm	0.0716 ppm	1.1793 ppm	13.6561 ppm	0.0531 ppm
Concentration per Run 3	0.0001 ppm	0.0020 ppm	0.0019 ppm	0.0702 ppm	1.1765 ppm	13.4999 ppm	0.0516 ppm
Concentration RSD	24.8 %	22.7 %	11.5 %	1.1 %	0.4 %	0.9 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.9524 ppm	0.0871 ppm	0.0032 ppm	255.1927 ppm	0.0062 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	22.2043 ppm	0.0879 ppm	0.0033 ppm	255.0218 ppm	0.0061 ppm	0.0007 ppm	-0.0012 ppm
Concentration per Run 2	21.9812 ppm	0.0869 ppm	0.0028 ppm	256.4555 ppm	0.0058 ppm	0.0009 ppm	0.0027 ppm
Concentration per Run 3	21.6715 ppm	0.0865 ppm	0.0037 ppm	254.1007 ppm	0.0068 ppm	-0.0015 ppm	-0.0017 ppm
Concentration RSD	1.2 %	0.8 %	14.1 %	0.5 %	8.2 %	4,699.0 %	3,803.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	5.7125 ppm	-0.0004 ppm	1.1014 ppm	0.0029 ppm	0.0009 ppm	0.0008 ppm
Concentration per Run 1	0.0021 ppm	5.7284 ppm	-0.0005 ppm	1.1093 ppm	0.0030 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 2	-0.0004 ppm	5.7315 ppm	0.0004 ppm	1.1001 ppm	0.0030 ppm	0.0022 ppm	0.0006 ppm
Concentration per Run 3	0.0013 ppm	5.6775 ppm	-0.0011 ppm	1.0947 ppm	0.0026 ppm	0.0010 ppm	0.0008 ppm
Concentration RSD	130.5 %	0.5 %	201.0 %	0.7 %	7.6 %	135.7 %	23.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1208 ppm	95.6895 %	104.1837 %	90.2345 %	91.7621 %	101.9835 %	94.1938 %
Concentration per Run 1	0.1216 ppm	94.6569 %	103.9175 %	89.5908 %	91.2333 %	102.2355 %	94.3374 %
Concentration per Run 2	0.1214 ppm	95.5688 %	103.5235 %	90.2986 %	91.8512 %	101.3086 %	94.1014 %
Concentration per Run 3	0.1195 ppm	96.8427 %	105.1101 %	90.8140 %	92.2019 %	102.4066 %	94.1426 %
Concentration RSD	1.0 %	1.1 %	0.8 %	0.7 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432272-02 WG1934502
Analysis started at: 6/16/2024 1:35:44 AM
Rack 3
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0071 ppm	0.0002 ppm	0.0088 ppm	0.0402 ppm	0.0001 ppm	13.6140 ppm
Concentration per Run 1	0.0001 ppm	-0.0052 ppm	0.0004 ppm	0.0099 ppm	0.0406 ppm	0.0001 ppm	13.7163 ppm
Concentration per Run 2	0.0002 ppm	0.0113 ppm	-0.0003 ppm	0.0074 ppm	0.0399 ppm	0.0001 ppm	13.5929 ppm
Concentration per Run 3	-0.0004 ppm	0.0153 ppm	0.0006 ppm	0.0093 ppm	0.0400 ppm	0.0001 ppm	13.5328 ppm
Concentration RSD	1,203.3 %	153.0 %	183.3 %	14.8 %	1.0 %	38.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0015 ppm	0.2919 ppm	2.1213 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0008 ppm	0.0016 ppm	0.2954 ppm	2.1314 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0017 ppm	0.2907 ppm	2.1196 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0012 ppm	0.2895 ppm	2.1128 ppm	0.0008 ppm
Concentration RSD	98.5 %	17.8 %	80.5 %	17.2 %	1.1 %	0.4 %	69.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7854 ppm	0.0048 ppm	-0.0016 ppm	27.5368 ppm	0.0007 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	3.8255 ppm	0.0048 ppm	-0.0013 ppm	27.6875 ppm	0.0011 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	3.7991 ppm	0.0048 ppm	-0.0017 ppm	27.5089 ppm	0.0006 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	3.7316 ppm	0.0047 ppm	-0.0018 ppm	27.4139 ppm	0.0003 ppm	-0.0009 ppm	-0.0002 ppm
Concentration RSD	1.3 %	1.2 %	16.6 %	0.5 %	61.3 %	205.1 %	7.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	10.0070 ppm	-0.0012 ppm	0.0943 ppm	-0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0012 ppm	10.0862 ppm	-0.0012 ppm	0.0946 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0026 ppm	10.0119 ppm	-0.0016 ppm	0.0941 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0014 ppm	9.9230 ppm	-0.0008 ppm	0.0943 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration RSD	543,566.8 %	0.8 %	34.0 %	0.3 %	58.9 %	107.1 %	41.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	99.5121 %	102.9447 %	98.8424 %	97.4876 %	101.9467 %	100.1646 %
Concentration per Run 1	0.0027 ppm	98.5735 %	102.6628 %	98.3065 %	96.8066 %	102.5062 %	100.5401 %
Concentration per Run 2	0.0030 ppm	99.3339 %	102.2151 %	98.7691 %	97.6230 %	100.9266 %	100.2029 %
Concentration per Run 3	0.0030 ppm	100.6290 %	103.9562 %	99.4515 %	98.0333 %	102.4072 %	99.7509 %
Concentration RSD	5.4 %	1.0 %	0.9 %	0.6 %	0.6 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934502-7 WG1934502
Analysis started at: 6/16/2024 1:39:42 AM
Rack 3
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0552 ppm	2.1196 ppm	0.1318 ppm	1.1061 ppm	2.1364 ppm	0.0537 ppm	23.6179 ppm
Concentration per Run 1	0.0555 ppm	2.1429 ppm	0.1329 ppm	1.1165 ppm	2.1489 ppm	0.0538 ppm	23.7875 ppm
Concentration per Run 2	0.0553 ppm	2.1174 ppm	0.1301 ppm	1.1075 ppm	2.1333 ppm	0.0538 ppm	23.5739 ppm
Concentration per Run 3	0.0550 ppm	2.0984 ppm	0.1323 ppm	1.0943 ppm	2.1271 ppm	0.0534 ppm	23.4924 ppm
Concentration RSD	0.5 %	1.1 %	1.1 %	1.0 %	0.5 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0596 ppm	0.5455 ppm	0.2155 ppm	0.2780 ppm	1.3536 ppm	12.9499 ppm	0.0043 ppm
Concentration per Run 1	0.0606 ppm	0.5543 ppm	0.2185 ppm	0.2813 ppm	1.3607 ppm	13.0849 ppm	0.0045 ppm
Concentration per Run 2	0.0596 ppm	0.5449 ppm	0.2152 ppm	0.2787 ppm	1.3504 ppm	12.8996 ppm	0.0044 ppm
Concentration per Run 3	0.0586 ppm	0.5373 ppm	0.2127 ppm	0.2740 ppm	1.3496 ppm	12.8652 ppm	0.0041 ppm
Concentration RSD	1.7 %	1.6 %	1.3 %	1.3 %	0.5 %	0.9 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6736 ppm	0.5301 ppm	0.9811 ppm	37.1087 ppm	0.5480 ppm	0.5674 ppm	0.4471 ppm
Concentration per Run 1	14.9496 ppm	0.5350 ppm	0.9780 ppm	37.3154 ppm	0.5570 ppm	0.5761 ppm	0.4486 ppm
Concentration per Run 2	14.6601 ppm	0.5296 ppm	0.9812 ppm	37.0617 ppm	0.5477 ppm	0.5667 ppm	0.4465 ppm
Concentration per Run 3	14.4112 ppm	0.5258 ppm	0.9842 ppm	36.9489 ppm	0.5392 ppm	0.5594 ppm	0.4461 ppm
Concentration RSD	1.8 %	0.9 %	0.3 %	0.5 %	1.6 %	1.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1332 ppm	11.0073 ppm	0.9403 ppm	1.1425 ppm	1.1049 ppm	0.1321 ppm	0.5518 ppm
Concentration per Run 1	0.1361 ppm	11.1332 ppm	0.9448 ppm	1.1449 ppm	1.1214 ppm	0.1332 ppm	0.5590 ppm
Concentration per Run 2	0.1348 ppm	11.0252 ppm	0.9324 ppm	1.1466 ppm	1.1054 ppm	0.1330 ppm	0.5512 ppm
Concentration per Run 3	0.1286 ppm	10.8633 ppm	0.9438 ppm	1.1359 ppm	1.0880 ppm	0.1301 ppm	0.5451 ppm
Concentration RSD	3.0 %	1.2 %	0.7 %	0.5 %	1.5 %	1.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5628 ppm	99.6828 %	104.0865 %	97.3821 %	96.4280 %	100.8605 %	99.0304 %
Concentration per Run 1	0.5751 ppm	98.2279 %	102.6778 %	96.4266 %	95.4790 %	100.3305 %	99.5010 %
Concentration per Run 2	0.5594 ppm	99.9795 %	104.3874 %	97.2846 %	97.0208 %	100.8849 %	98.8677 %
Concentration per Run 3	0.5538 ppm	100.8410 %	105.1944 %	98.4352 %	96.7841 %	101.3660 %	98.7225 %
Concentration RSD	2.0 %	1.3 %	1.2 %	1.0 %	0.9 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934502-8 WG1934502
Analysis started at: 6/16/2024 1:43:41 AM
Rack 3
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0114 ppm	0.0008 ppm	0.0095 ppm	0.0404 ppm	0.0001 ppm	13.5425 ppm
Concentration per Run 1	-0.0005 ppm	0.0090 ppm	0.0017 ppm	0.0093 ppm	0.0407 ppm	0.0000 ppm	13.6055 ppm
Concentration per Run 2	-0.0001 ppm	0.0048 ppm	0.0009 ppm	0.0096 ppm	0.0399 ppm	0.0001 ppm	13.5433 ppm
Concentration per Run 3	-0.0005 ppm	0.0204 ppm	-0.0001 ppm	0.0096 ppm	0.0406 ppm	0.0001 ppm	13.4787 ppm
Concentration RSD	58.3 %	70.6 %	114.5 %	1.4 %	1.2 %	125.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0026 ppm	0.2994 ppm	2.0944 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0025 ppm	0.2995 ppm	2.1199 ppm	0.0017 ppm
Concentration per Run 2	-0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0028 ppm	0.2976 ppm	2.0593 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0025 ppm	0.3011 ppm	2.1039 ppm	0.0014 ppm
Concentration RSD	249.7 %	287.4 %	104.3 %	4.9 %	0.6 %	1.5 %	43.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7430 ppm	0.0050 ppm	0.0025 ppm	27.3509 ppm	0.0007 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	3.7881 ppm	0.0048 ppm	0.0029 ppm	27.5500 ppm	0.0008 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	3.7464 ppm	0.0052 ppm	0.0022 ppm	27.3175 ppm	0.0004 ppm	0.0014 ppm	0.0027 ppm
Concentration per Run 3	3.6945 ppm	0.0051 ppm	0.0024 ppm	27.1851 ppm	0.0009 ppm	-0.0010 ppm	0.0000 ppm
Concentration RSD	1.3 %	4.1 %	14.6 %	0.7 %	39.6 %	789.1 %	118.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	9.9226 ppm	0.0023 ppm	0.0943 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	10.0114 ppm	0.0012 ppm	0.0952 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	-0.0027 ppm	9.9339 ppm	0.0023 ppm	0.0937 ppm	-0.0003 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	9.8225 ppm	0.0033 ppm	0.0938 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	95.7 %	1.0 %	44.4 %	0.9 %	129.5 %	240.9 %	50.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0073 ppm	99.9434 %	102.3745 %	98.8364 %	97.9520 %	101.4419 %	99.9343 %
Concentration per Run 1	0.0075 ppm	98.7867 %	101.5638 %	98.3311 %	97.7136 %	101.5679 %	100.2394 %
Concentration per Run 2	0.0075 ppm	99.8821 %	102.4103 %	98.9926 %	97.8593 %	101.4261 %	100.0452 %
Concentration per Run 3	0.0070 ppm	101.1615 %	103.1494 %	99.1856 %	98.2830 %	101.3317 %	99.5184 %
Concentration RSD	3.8 %	1.2 %	0.8 %	0.5 %	0.3 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934502-9 WG1934502
Analysis started at: 6/16/2024 1:47:40 AM
Rack 3
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0538 ppm	2.1404 ppm	0.1331 ppm	1.1643 ppm	2.1533 ppm	0.0539 ppm	24.1086 ppm
Concentration per Run 1	0.0543 ppm	2.1646 ppm	0.1349 ppm	1.1788 ppm	2.1700 ppm	0.0545 ppm	24.2899 ppm
Concentration per Run 2	0.0540 ppm	2.1239 ppm	0.1342 ppm	1.1613 ppm	2.1494 ppm	0.0538 ppm	24.0863 ppm
Concentration per Run 3	0.0531 ppm	2.1328 ppm	0.1302 ppm	1.1527 ppm	2.1404 ppm	0.0533 ppm	23.9496 ppm
Concentration RSD	1.2 %	1.0 %	1.9 %	1.1 %	0.7 %	1.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0606 ppm	0.5519 ppm	0.2196 ppm	0.2812 ppm	1.3571 ppm	13.3250 ppm	0.0031 ppm
Concentration per Run 1	0.0618 ppm	0.5632 ppm	0.2232 ppm	0.2860 ppm	1.3639 ppm	13.5224 ppm	0.0040 ppm
Concentration per Run 2	0.0606 ppm	0.5507 ppm	0.2192 ppm	0.2814 ppm	1.3540 ppm	13.2462 ppm	0.0024 ppm
Concentration per Run 3	0.0596 ppm	0.5418 ppm	0.2165 ppm	0.2761 ppm	1.3534 ppm	13.2063 ppm	0.0028 ppm
Concentration RSD	1.8 %	2.0 %	1.5 %	1.8 %	0.4 %	1.3 %	27.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.2682 ppm	0.5333 ppm	1.0084 ppm	37.6154 ppm	0.5558 ppm	0.5798 ppm	0.4014 ppm
Concentration per Run 1	15.5032 ppm	0.5373 ppm	1.0087 ppm	37.7955 ppm	0.5655 ppm	0.5857 ppm	0.4010 ppm
Concentration per Run 2	15.2642 ppm	0.5327 ppm	1.0057 ppm	37.8915 ppm	0.5560 ppm	0.5789 ppm	0.4031 ppm
Concentration per Run 3	15.0373 ppm	0.5299 ppm	1.0106 ppm	37.1592 ppm	0.5459 ppm	0.5748 ppm	0.4002 ppm
Concentration RSD	1.5 %	0.7 %	0.2 %	1.1 %	1.8 %	0.9 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1341 ppm	11.1981 ppm	1.0110 ppm	1.1919 ppm	1.1585 ppm	0.1365 ppm	0.5600 ppm
Concentration per Run 1	0.1361 ppm	11.3673 ppm	1.0189 ppm	1.2019 ppm	1.1739 ppm	0.1369 ppm	0.5683 ppm
Concentration per Run 2	0.1342 ppm	11.1923 ppm	1.0053 ppm	1.2004 ppm	1.1566 ppm	0.1371 ppm	0.5589 ppm
Concentration per Run 3	0.1319 ppm	11.0348 ppm	1.0088 ppm	1.1734 ppm	1.1452 ppm	0.1357 ppm	0.5529 ppm
Concentration RSD	1.6 %	1.5 %	0.7 %	1.3 %	1.2 %	0.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5686 ppm	98.9704 %	104.5274 %	96.6121 %	96.1446 %	102.0885 %	99.2137 %
Concentration per Run 1	0.5782 ppm	97.1441 %	104.4384 %	95.8509 %	94.7740 %	102.8972 %	99.2024 %
Concentration per Run 2	0.5663 ppm	99.2045 %	105.0310 %	96.7147 %	96.4450 %	102.6145 %	99.1573 %
Concentration per Run 3	0.5612 ppm	100.5626 %	104.1126 %	97.2708 %	97.2147 %	100.7539 %	99.2815 %
Concentration RSD	1.5 %	1.7 %	0.4 %	0.7 %	1.3 %	1.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: WG1934502-10d5 WG1934502
Analysis started at: 6/16/2024 1:51:38 AM
Rack 3
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0096 ppm	-0.0009 ppm	0.0016 ppm	0.0078 ppm	0.0000 ppm	2.5767 ppm
Concentration per Run 1	-0.0002 ppm	0.0130 ppm	-0.0012 ppm	0.0017 ppm	0.0077 ppm	0.0000 ppm	2.5836 ppm
Concentration per Run 2	-0.0001 ppm	0.0104 ppm	-0.0014 ppm	0.0029 ppm	0.0080 ppm	0.0000 ppm	2.5770 ppm
Concentration per Run 3	0.0002 ppm	0.0055 ppm	-0.0002 ppm	0.0002 ppm	0.0076 ppm	0.0000 ppm	2.5695 ppm
Concentration RSD	303.6 %	39.7 %	71.0 %	85.4 %	2.4 %	972.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0003 ppm	0.0584 ppm	0.4334 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0594 ppm	0.4579 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0570 ppm	0.4248 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	-0.0004 ppm	0.0001 ppm	0.0589 ppm	0.4175 ppm	0.0009 ppm
Concentration RSD	228.8 %	67.9 %	61.2 %	51.8 %	2.1 %	5.0 %	109.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7034 ppm	0.0011 ppm	0.0039 ppm	5.2938 ppm	-0.0005 ppm	-0.0003 ppm	0.0044 ppm
Concentration per Run 1	0.7113 ppm	0.0009 ppm	0.0040 ppm	5.3021 ppm	-0.0005 ppm	-0.0009 ppm	0.0042 ppm
Concentration per Run 2	0.7044 ppm	0.0012 ppm	0.0036 ppm	5.2883 ppm	-0.0006 ppm	0.0008 ppm	0.0030 ppm
Concentration per Run 3	0.6946 ppm	0.0012 ppm	0.0041 ppm	5.2910 ppm	-0.0003 ppm	-0.0009 ppm	0.0059 ppm
Concentration RSD	1.2 %	13.5 %	6.6 %	0.1 %	30.2 %	299.9 %	33.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	1.7857 ppm	0.0045 ppm	0.0179 ppm	0.0001 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	1.8145 ppm	0.0039 ppm	0.0180 ppm	0.0000 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 2	0.0012 ppm	1.7832 ppm	0.0042 ppm	0.0178 ppm	0.0001 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	1.7594 ppm	0.0053 ppm	0.0177 ppm	0.0002 ppm	-0.0017 ppm	-0.0002 ppm
Concentration RSD	179.3 %	1.5 %	16.5 %	0.9 %	100.5 %	12.6 %	129.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	107.4161 %	107.3599 %	106.3745 %	99.0348 %	100.4251 %	100.3830 %
Concentration per Run 1	0.0011 ppm	106.1138 %	107.4143 %	105.6675 %	98.8688 %	100.8388 %	100.6529 %
Concentration per Run 2	0.0009 ppm	107.7580 %	106.6383 %	106.0032 %	99.2738 %	99.5583 %	99.9278 %
Concentration per Run 3	0.0008 ppm	108.3764 %	108.0270 %	107.4529 %	98.9618 %	100.8780 %	100.5684 %
Concentration RSD	16.2 %	1.1 %	0.6 %	0.9 %	0.2 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCV
Analysis started at: 6/16/2024 1:55:37 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5122 ppm	0.5059 ppm	0.4788 ppm	0.5038 ppm	0.5045 ppm	0.5110 ppm	0.5072 ppm
Concentration per Run 1	0.5162 ppm	0.5038 ppm	0.4801 ppm	0.5026 ppm	0.5061 ppm	0.5149 ppm	0.5124 ppm
Concentration per Run 2	0.5132 ppm	0.5086 ppm	0.4786 ppm	0.5054 ppm	0.5038 ppm	0.5090 ppm	0.5063 ppm
Concentration per Run 3	0.5072 ppm	0.5054 ppm	0.4777 ppm	0.5033 ppm	0.5036 ppm	0.5090 ppm	0.5028 ppm
Recovery Percentage 1	102.439 %	101.184 %	95.764 %	100.757 %	100.901 %	102.199 %	101.433 %
Concentration RSD	0.9 %	0.5 %	0.3 %	0.3 %	0.3 %	0.7 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5128 ppm	0.5181 ppm	0.5027 ppm	0.5070 ppm	0.5352 ppm	5.2048 ppm	0.4942 ppm
Concentration per Run 1	0.5160 ppm	0.5226 ppm	0.5073 ppm	0.5117 ppm	0.5392 ppm	5.2551 ppm	0.5013 ppm
Concentration per Run 2	0.5136 ppm	0.5187 ppm	0.5044 ppm	0.5070 ppm	0.5333 ppm	5.1895 ppm	0.4926 ppm
Concentration per Run 3	0.5089 ppm	0.5132 ppm	0.4965 ppm	0.5023 ppm	0.5331 ppm	5.1697 ppm	0.4888 ppm
Recovery Percentage 1	102.568 %	103.629 %	100.544 %	101.394 %	107.044 %	104.096 %	98.843 %
Concentration RSD	0.7 %	0.9 %	1.1 %	0.9 %	0.6 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5131 ppm	0.4986 ppm	0.5041 ppm	10.1859 ppm	0.5180 ppm	0.4982 ppm	0.4970 ppm
Concentration per Run 1	0.5172 ppm	0.5008 ppm	0.5020 ppm	10.2210 ppm	0.5197 ppm	0.5010 ppm	0.4948 ppm
Concentration per Run 2	0.5157 ppm	0.4996 ppm	0.5054 ppm	10.1506 ppm	0.5210 ppm	0.4973 ppm	0.4948 ppm
Concentration per Run 3	0.5064 ppm	0.4953 ppm	0.5051 ppm	10.1862 ppm	0.5134 ppm	0.4963 ppm	0.5014 ppm
Recovery Percentage 1	102.621 %	99.713 %	100.829 %	101.859 %	103.607 %	99.648 %	99.406 %
Concentration RSD	1.1 %	0.6 %	0.4 %	0.3 %	0.8 %	0.5 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4825 ppm	5.2383 ppm	0.5220 ppm	0.5125 ppm	0.5075 ppm	0.5047 ppm	0.5022 ppm
Concentration per Run 1	0.4867 ppm	5.2657 ppm	0.5184 ppm	0.5163 ppm	0.5122 ppm	0.5088 ppm	0.5078 ppm
Concentration per Run 2	0.4836 ppm	5.2425 ppm	0.5271 ppm	0.5088 ppm	0.5080 ppm	0.5057 ppm	0.5024 ppm
Concentration per Run 3	0.4773 ppm	5.2066 ppm	0.5205 ppm	0.5123 ppm	0.5024 ppm	0.4995 ppm	0.4964 ppm
Recovery Percentage 1	96.510 %	99.777 %	104.403 %	102.493 %	101.502 %	100.937 %	100.443 %
Concentration RSD	1.0 %	0.6 %	0.9 %	0.7 %	1.0 %	0.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5134 ppm	110.2320 %	110.3531 %	108.3720 %	98.2005 %	101.1265 %	99.8094 %
Concentration per Run 1	0.5163 ppm	108.8381 %	109.8086 %	107.7734 %	97.9426 %	101.0202 %	99.8819 %
Concentration per Run 2	0.5156 ppm	109.5951 %	109.2833 %	108.8786 %	97.4242 %	100.2269 %	100.0772 %
Concentration per Run 3	0.5083 ppm	112.2628 %	111.9673 %	108.4640 %	99.2346 %	102.1323 %	99.4691 %
Recovery Percentage 1	102.681 %						
Concentration RSD	0.9 %	1.6 %	1.3 %	0.5 %	0.9 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCB
Analysis started at: 6/16/2024 1:59:34 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0043 ppm	-0.0002 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	-0.0015 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 2	-0.0003 ppm	0.0106 ppm	0.0007 ppm	-0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	-0.0003 ppm	0.0023 ppm	0.0001 ppm	-0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0031 ppm
Recovery Percentage 1	-1.824 %	4.256 %	-7.394 %	-3.090 %	-1.275 %	0.399 %	1.257 %
Concentration RSD	195.2 %	132.9 %	521.1 %	74.2 %	122.2 %	191.0 %	193.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0045 ppm	-0.0209 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0063 ppm	-0.0207 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0026 ppm	-0.0120 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0047 ppm	-0.0300 ppm	-0.0002 ppm
Recovery Percentage 1	-0.525 %	0.022 %	-0.881 %	3.910 %	9.029 %	-0.836 %	6.191 %
Concentration RSD	294.4 %	4,501.2 %	371.5 %	55.0 %	40.9 %	43.2 %	241.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0003 ppm	0.0000 ppm	-0.0539 ppm	-0.0005 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	-0.0595 ppm	-0.0009 ppm	-0.0003 ppm	0.0016 ppm
Concentration per Run 2	-0.0004 ppm	0.0005 ppm	-0.0002 ppm	-0.0594 ppm	-0.0003 ppm	-0.0004 ppm	-0.0023 ppm
Concentration per Run 3	-0.0019 ppm	0.0003 ppm	0.0005 ppm	-0.0428 ppm	-0.0003 ppm	-0.0005 ppm	0.0004 ppm
Recovery Percentage 1	-0.957 %	3.017 %	-0.025 %	-2.695 %	-2.149 %	-4.174 %	-0.248 %
Concentration RSD	83.9 %	63.3 %	3,378.0 %	17.9 %	64.7 %	28.8 %	1,618.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0088 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	-0.0098 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	-0.0078 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0087 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0017 ppm	-0.0001 ppm
Recovery Percentage 1	5.282 %	-1.753 %	0.728 %	0.115 %	-1.515 %	4.527 %	0.914 %
Concentration RSD	123.0 %	11.2 %	50.8 %	1,169.7 %	157.2 %	126.6 %	186.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	100.2816 %	101.5072 %	101.7983 %	99.2553 %	100.9793 %	101.2059 %
Concentration per Run 1	0.0005 ppm	98.7408 %	100.2052 %	101.3636 %	98.4367 %	100.4391 %	101.4649 %
Concentration per Run 2	0.0006 ppm	100.0443 %	102.2219 %	101.1943 %	98.9401 %	101.5626 %	100.8403 %
Concentration per Run 3	0.0007 ppm	102.0596 %	102.0945 %	102.8372 %	100.3892 %	100.9361 %	101.3125 %
Recovery Percentage 1	11.988 %						
Concentration RSD	20.9 %	1.7 %	1.1 %	0.9 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432616-07 WG1934502
Analysis started at: 6/16/2024 2:05:28 AM
Rack 3
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0956 ppm	-0.0009 ppm	0.0127 ppm	0.0128 ppm	0.0000 ppm	6.6679 ppm
Concentration per Run 1	-0.0006 ppm	0.1021 ppm	0.0002 ppm	0.0129 ppm	0.0130 ppm	0.0000 ppm	6.7037 ppm
Concentration per Run 2	0.0001 ppm	0.0916 ppm	-0.0013 ppm	0.0126 ppm	0.0128 ppm	0.0000 ppm	6.6619 ppm
Concentration per Run 3	0.0000 ppm	0.0930 ppm	-0.0016 ppm	0.0126 ppm	0.0126 ppm	0.0000 ppm	6.6382 ppm
Concentration RSD	243.9 %	6.0 %	107.5 %	1.4 %	1.6 %	275.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0043 ppm	0.0872 ppm	0.6223 ppm	17.4091 ppm	0.0051 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	0.0046 ppm	0.0885 ppm	0.6251 ppm	17.4639 ppm	0.0053 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	0.0039 ppm	0.0875 ppm	0.6224 ppm	17.3660 ppm	0.0046 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0044 ppm	0.0855 ppm	0.6193 ppm	17.3973 ppm	0.0054 ppm
Concentration RSD	44.0 %	73.1 %	9.2 %	1.8 %	0.5 %	0.3 %	7.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9335 ppm	0.0305 ppm	-0.0009 ppm	57.2670 ppm	0.0139 ppm	0.0016 ppm	-0.0014 ppm
Concentration per Run 1	1.9704 ppm	0.0308 ppm	-0.0009 ppm	57.6796 ppm	0.0151 ppm	0.0019 ppm	-0.0012 ppm
Concentration per Run 2	1.9262 ppm	0.0305 ppm	-0.0009 ppm	57.1486 ppm	0.0139 ppm	0.0024 ppm	-0.0020 ppm
Concentration per Run 3	1.9038 ppm	0.0300 ppm	-0.0008 ppm	56.9729 ppm	0.0126 ppm	0.0005 ppm	-0.0011 ppm
Concentration RSD	1.8 %	1.3 %	1.2 %	0.6 %	8.9 %	62.9 %	32.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	1.3507 ppm	0.0004 ppm	0.0393 ppm	0.0021 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0008 ppm	1.3658 ppm	0.0001 ppm	0.0395 ppm	0.0020 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	1.3519 ppm	0.0008 ppm	0.0393 ppm	0.0023 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 3	0.0008 ppm	1.3343 ppm	0.0004 ppm	0.0390 ppm	0.0022 ppm	0.0002 ppm	0.0006 ppm
Concentration RSD	52.8 %	1.2 %	80.0 %	0.7 %	6.8 %	493.0 %	60.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3400 ppm	99.8307 %	105.9282 %	98.5054 %	97.8850 %	104.7181 %	100.1173 %
Concentration per Run 1	0.3453 ppm	98.1378 %	104.7092 %	97.5800 %	96.5596 %	104.2681 %	100.1221 %
Concentration per Run 2	0.3401 ppm	99.9911 %	106.5108 %	98.9177 %	98.2660 %	105.0184 %	100.6403 %
Concentration per Run 3	0.3347 ppm	101.3633 %	106.5646 %	99.0185 %	98.8292 %	104.8680 %	99.5895 %
Concentration RSD	1.6 %	1.6 %	1.0 %	0.8 %	1.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432633-01 WG1934502
Analysis started at: 6/16/2024 2:09:30 AM
Rack 3
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0422 ppm	-0.0007 ppm	0.0167 ppm	0.0351 ppm	0.0000 ppm	37.7105 ppm
Concentration per Run 1	-0.0002 ppm	0.0430 ppm	0.0016 ppm	0.0160 ppm	0.0355 ppm	0.0000 ppm	37.8612 ppm
Concentration per Run 2	-0.0004 ppm	0.0416 ppm	-0.0020 ppm	0.0177 ppm	0.0351 ppm	0.0000 ppm	37.7033 ppm
Concentration per Run 3	0.0001 ppm	0.0420 ppm	-0.0016 ppm	0.0164 ppm	0.0346 ppm	0.0000 ppm	37.5669 ppm
Concentration RSD	147.6 %	1.7 %	306.1 %	5.5 %	1.4 %	310.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0024 ppm	0.0031 ppm	0.0601 ppm	1.5481 ppm	-0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0026 ppm	0.0033 ppm	0.0637 ppm	1.5755 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0030 ppm	0.0574 ppm	1.5619 ppm	-0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0024 ppm	0.0029 ppm	0.0593 ppm	1.5070 ppm	-0.0010 ppm
Concentration RSD	1,940.6 %	29.2 %	5.7 %	6.2 %	5.3 %	2.3 %	9.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.6655 ppm	0.0037 ppm	-0.0016 ppm	4.4900 ppm	0.0020 ppm	0.0009 ppm	-0.0023 ppm
Concentration per Run 1	11.8578 ppm	0.0036 ppm	-0.0015 ppm	4.5162 ppm	0.0015 ppm	0.0007 ppm	-0.0023 ppm
Concentration per Run 2	11.6672 ppm	0.0038 ppm	-0.0014 ppm	4.4926 ppm	0.0026 ppm	0.0009 ppm	-0.0026 ppm
Concentration per Run 3	11.4714 ppm	0.0035 ppm	-0.0021 ppm	4.4610 ppm	0.0020 ppm	0.0010 ppm	-0.0021 ppm
Concentration RSD	1.7 %	4.5 %	23.1 %	0.6 %	29.3 %	16.5 %	12.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	3.2579 ppm	-0.0008 ppm	0.0840 ppm	0.0009 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0050 ppm	3.3000 ppm	-0.0010 ppm	0.0844 ppm	0.0012 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run 2	0.0024 ppm	3.2546 ppm	-0.0005 ppm	0.0846 ppm	0.0005 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0021 ppm	3.2193 ppm	-0.0010 ppm	0.0831 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm
Concentration RSD	49.9 %	1.2 %	35.3 %	1.0 %	42.2 %	113.2 %	243.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0103 ppm	98.3900 %	102.8147 %	98.0558 %	97.7607 %	103.1372 %	100.5669 %
Concentration per Run 1	0.0105 ppm	97.2503 %	102.4426 %	97.3609 %	96.9564 %	103.5292 %	100.6042 %
Concentration per Run 2	0.0102 ppm	97.9825 %	102.9525 %	97.7592 %	97.6212 %	103.0009 %	100.2562 %
Concentration per Run 3	0.0100 ppm	99.9372 %	103.0490 %	99.0473 %	98.7045 %	102.8814 %	100.8402 %
Concentration RSD	2.7 %	1.4 %	0.3 %	0.9 %	0.9 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432633-02 WG1934502
Analysis started at: 6/16/2024 2:13:29 AM
Rack 3
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0676 ppm	0.0004 ppm	0.0073 ppm	0.0267 ppm	0.0000 ppm	15.7650 ppm
Concentration per Run 1	-0.0001 ppm	0.0759 ppm	-0.0001 ppm	0.0073 ppm	0.0270 ppm	0.0000 ppm	15.8318 ppm
Concentration per Run 2	0.0000 ppm	0.0708 ppm	-0.0007 ppm	0.0078 ppm	0.0267 ppm	-0.0001 ppm	15.7761 ppm
Concentration per Run 3	-0.0003 ppm	0.0562 ppm	0.0020 ppm	0.0068 ppm	0.0264 ppm	0.0000 ppm	15.6873 ppm
Concentration RSD	154.8 %	15.1 %	351.5 %	7.2 %	1.1 %	117.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0012 ppm	3.4379 ppm	0.9188 ppm	0.0028 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0008 ppm	3.4477 ppm	0.9502 ppm	0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	-0.0004 ppm	0.0016 ppm	3.4382 ppm	0.9194 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0012 ppm	3.4279 ppm	0.8869 ppm	0.0020 ppm
Concentration RSD	133.7 %	132.6 %	37.5 %	34.4 %	0.3 %	3.4 %	28.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9205 ppm	0.0477 ppm	-0.0020 ppm	7.6463 ppm	0.0007 ppm	-0.0004 ppm	-0.0022 ppm
Concentration per Run 1	5.9961 ppm	0.0480 ppm	-0.0017 ppm	7.6898 ppm	0.0008 ppm	0.0002 ppm	-0.0023 ppm
Concentration per Run 2	5.9316 ppm	0.0478 ppm	-0.0025 ppm	7.6273 ppm	0.0010 ppm	-0.0008 ppm	-0.0019 ppm
Concentration per Run 3	5.8338 ppm	0.0473 ppm	-0.0018 ppm	7.6217 ppm	0.0002 ppm	-0.0007 ppm	-0.0024 ppm
Concentration RSD	1.4 %	0.8 %	22.6 %	0.5 %	67.5 %	129.7 %	12.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	9.8340 ppm	-0.0012 ppm	0.0828 ppm	0.0021 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0008 ppm	9.9640 ppm	-0.0012 ppm	0.0832 ppm	0.0022 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0011 ppm	9.8320 ppm	-0.0014 ppm	0.0829 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0014 ppm	9.7060 ppm	-0.0012 ppm	0.0823 ppm	0.0021 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	28.0 %	1.3 %	11.3 %	0.6 %	4.3 %	198.3 %	53.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0031 ppm	99.8379 %	103.2817 %	99.6570 %	98.7080 %	102.7838 %	100.7784 %
Concentration per Run 1	0.0031 ppm	98.8629 %	103.2209 %	98.9056 %	97.9563 %	103.5470 %	100.9846 %
Concentration per Run 2	0.0032 ppm	99.2881 %	103.1598 %	99.7688 %	98.6279 %	102.3762 %	100.9749 %
Concentration per Run 3	0.0032 ppm	101.3626 %	103.4646 %	100.2965 %	99.5399 %	102.4283 %	100.3756 %
Concentration RSD	1.1 %	1.3 %	0.2 %	0.7 %	0.8 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432633-03 WG1934502
Analysis started at: 6/16/2024 2:17:28 AM
Rack 3
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0188 ppm	0.0010 ppm	0.0175 ppm	0.0815 ppm	0.0000 ppm	88.9231 ppm
Concentration per Run 1	-0.0002 ppm	0.0204 ppm	0.0016 ppm	0.0179 ppm	0.0825 ppm	0.0000 ppm	89.3321 ppm
Concentration per Run 2	0.0000 ppm	0.0195 ppm	0.0008 ppm	0.0173 ppm	0.0816 ppm	0.0000 ppm	88.9713 ppm
Concentration per Run 3	-0.0006 ppm	0.0166 ppm	0.0005 ppm	0.0173 ppm	0.0805 ppm	0.0000 ppm	88.4658 ppm
Concentration RSD	131.4 %	10.6 %	54.5 %	2.0 %	1.2 %	49.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0018 ppm	0.0387 ppm	2.6142 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0014 ppm	0.0017 ppm	0.0415 ppm	2.6932 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0012 ppm	0.0020 ppm	0.0396 ppm	2.5923 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0016 ppm	0.0351 ppm	2.5572 ppm	0.0007 ppm
Concentration RSD	120.3 %	142.2 %	5.0 %	11.6 %	8.5 %	2.7 %	48.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.4232 ppm	0.0023 ppm	-0.0016 ppm	2.8392 ppm	0.0002 ppm	-0.0003 ppm	-0.0016 ppm
Concentration per Run 1	12.6010 ppm	0.0022 ppm	-0.0014 ppm	2.8361 ppm	-0.0008 ppm	-0.0013 ppm	-0.0011 ppm
Concentration per Run 2	12.4479 ppm	0.0025 ppm	-0.0020 ppm	2.8436 ppm	0.0008 ppm	0.0006 ppm	-0.0041 ppm
Concentration per Run 3	12.2206 ppm	0.0022 ppm	-0.0016 ppm	2.8378 ppm	0.0005 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	1.5 %	7.8 %	17.1 %	0.1 %	445.4 %	321.7 %	146.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	5.8939 ppm	-0.0002 ppm	0.2934 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	-0.0004 ppm	5.9445 ppm	0.0003 ppm	0.2955 ppm	0.0001 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 2	-0.0012 ppm	5.9123 ppm	-0.0002 ppm	0.2941 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 3	0.0006 ppm	5.8248 ppm	-0.0008 ppm	0.2906 ppm	0.0000 ppm	0.0010 ppm	0.0002 ppm
Concentration RSD	247.9 %	1.1 %	226.7 %	0.8 %	58.8 %	262.8 %	6.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	97.3615 %	101.9836 %	95.0567 %	96.3938 %	102.2205 %	98.6801 %
Concentration per Run 1	0.0021 ppm	96.3368 %	101.7584 %	94.4205 %	95.8465 %	102.5013 %	98.8230 %
Concentration per Run 2	0.0019 ppm	96.7145 %	100.9837 %	95.3702 %	95.8123 %	101.2272 %	98.6416 %
Concentration per Run 3	0.0018 ppm	99.0331 %	103.2087 %	95.3794 %	97.5228 %	102.9328 %	98.5758 %
Concentration RSD	6.2 %	1.5 %	1.1 %	0.6 %	1.0 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432633-04 WG1934502
Analysis started at: 6/16/2024 2:21:27 AM
Rack 3
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1501 ppm	-0.0011 ppm	0.0188 ppm	0.0275 ppm	0.0000 ppm	11.6796 ppm
Concentration per Run 1	-0.0004 ppm	0.1535 ppm	-0.0031 ppm	0.0197 ppm	0.0276 ppm	0.0000 ppm	11.6588 ppm
Concentration per Run 2	-0.0004 ppm	0.1469 ppm	0.0007 ppm	0.0188 ppm	0.0278 ppm	0.0000 ppm	11.8296 ppm
Concentration per Run 3	-0.0003 ppm	0.1498 ppm	-0.0009 ppm	0.0178 ppm	0.0270 ppm	0.0000 ppm	11.5504 ppm
Concentration RSD	19.0 %	2.2 %	177.0 %	5.3 %	1.5 %	23.6 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0011 ppm	0.1456 ppm	1.1419 ppm	0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0017 ppm	0.0010 ppm	0.1441 ppm	1.1674 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0011 ppm	0.1486 ppm	1.1296 ppm	0.0044 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0014 ppm	0.0011 ppm	0.1441 ppm	1.1286 ppm	-0.0004 ppm
Concentration RSD	75.0 %	761.7 %	12.6 %	6.0 %	1.8 %	1.9 %	103.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.4879 ppm	0.0034 ppm	-0.0015 ppm	14.3075 ppm	0.0003 ppm	0.0005 ppm	-0.0029 ppm
Concentration per Run 1	5.5659 ppm	0.0035 ppm	-0.0012 ppm	14.2907 ppm	0.0003 ppm	0.0010 ppm	-0.0030 ppm
Concentration per Run 2	5.4817 ppm	0.0033 ppm	-0.0014 ppm	14.4899 ppm	-0.0004 ppm	0.0009 ppm	-0.0015 ppm
Concentration per Run 3	5.4161 ppm	0.0034 ppm	-0.0018 ppm	14.1418 ppm	0.0010 ppm	-0.0004 ppm	-0.0041 ppm
Concentration RSD	1.4 %	2.8 %	22.1 %	1.2 %	222.7 %	159.1 %	44.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	8.3682 ppm	-0.0013 ppm	0.0579 ppm	0.0068 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	-0.0027 ppm	8.4633 ppm	-0.0017 ppm	0.0579 ppm	0.0064 ppm	0.0024 ppm	0.0003 ppm
Concentration per Run 2	0.0015 ppm	8.3710 ppm	-0.0016 ppm	0.0583 ppm	0.0068 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	8.2703 ppm	-0.0006 ppm	0.0574 ppm	0.0072 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	564.6 %	1.2 %	45.2 %	0.7 %	6.2 %	156.1 %	54.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0035 ppm	99.3949 %	101.2861 %	98.8381 %	98.5096 %	99.4525 %	100.8436 %
Concentration per Run 1	0.0039 ppm	97.6780 %	101.6171 %	97.4059 %	97.1256 %	98.8216 %	100.6324 %
Concentration per Run 2	0.0035 ppm	99.8229 %	100.4442 %	99.0965 %	99.2340 %	98.5865 %	100.9400 %
Concentration per Run 3	0.0032 ppm	100.6838 %	101.7969 %	100.0119 %	99.1693 %	100.9495 %	100.9584 %
Concentration RSD	9.2 %	1.6 %	0.7 %	1.3 %	1.2 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432659-01 WG1934502
Analysis started at: 6/16/2024 2:25:26 AM
Rack 3
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0458 ppm	-0.0018 ppm	0.1366 ppm	0.0356 ppm	0.0000 ppm	72.1898 ppm
Concentration per Run 1	0.0001 ppm	0.0457 ppm	-0.0013 ppm	0.1386 ppm	0.0360 ppm	0.0000 ppm	72.5689 ppm
Concentration per Run 2	-0.0009 ppm	0.0426 ppm	-0.0015 ppm	0.1358 ppm	0.0356 ppm	0.0000 ppm	72.1134 ppm
Concentration per Run 3	0.0001 ppm	0.0492 ppm	-0.0028 ppm	0.1353 ppm	0.0352 ppm	0.0000 ppm	71.8870 ppm
Concentration RSD	230.1 %	7.2 %	45.0 %	1.3 %	1.1 %	140.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0017 ppm	0.2231 ppm	3.0522 ppm	0.1332 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0003 ppm	0.0015 ppm	0.2252 ppm	3.1118 ppm	0.1343 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0020 ppm	0.2223 ppm	3.0174 ppm	0.1326 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0016 ppm	0.2219 ppm	3.0275 ppm	0.1328 ppm
Concentration RSD	306.8 %	141.9 %	69.3 %	15.3 %	0.8 %	1.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5724 ppm	0.0787 ppm	-0.0003 ppm	15.8849 ppm	0.0024 ppm	-0.0006 ppm	-0.0018 ppm
Concentration per Run 1	22.0487 ppm	0.0790 ppm	-0.0006 ppm	16.0383 ppm	0.0030 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	21.5178 ppm	0.0788 ppm	0.0000 ppm	15.8267 ppm	0.0023 ppm	-0.0001 ppm	-0.0027 ppm
Concentration per Run 3	21.1505 ppm	0.0782 ppm	-0.0003 ppm	15.7895 ppm	0.0018 ppm	-0.0008 ppm	-0.0029 ppm
Concentration RSD	2.1 %	0.5 %	108.1 %	0.8 %	25.6 %	66.0 %	97.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	4.2136 ppm	-0.0004 ppm	0.3760 ppm	0.0011 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	4.2762 ppm	-0.0001 ppm	0.3788 ppm	0.0012 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	0.0025 ppm	4.1995 ppm	-0.0001 ppm	0.3758 ppm	0.0014 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 3	0.0004 ppm	4.1650 ppm	-0.0010 ppm	0.3734 ppm	0.0007 ppm	0.0012 ppm	0.0005 ppm
Concentration RSD	140.5 %	1.4 %	130.5 %	0.7 %	32.9 %	20.9 %	27.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	97.5107 %	101.9407 %	95.3485 %	95.9574 %	101.6880 %	98.2278 %
Concentration per Run 1	0.0054 ppm	95.4524 %	101.2832 %	94.6637 %	94.3741 %	102.2167 %	98.3641 %
Concentration per Run 2	0.0052 ppm	97.7682 %	102.5686 %	95.4025 %	96.2112 %	101.9943 %	98.4472 %
Concentration per Run 3	0.0055 ppm	99.3114 %	101.9701 %	95.9793 %	97.2870 %	100.8530 %	97.8721 %
Concentration RSD	3.0 %	2.0 %	0.6 %	0.7 %	1.5 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432692-02 WG1934502
Analysis started at: 6/16/2024 2:29:25 AM
Rack 3
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.4228 ppm	0.0005 ppm	0.0378 ppm	0.0319 ppm	0.0000 ppm	49.6307 ppm
Concentration per Run 1	0.0006 ppm	0.4300 ppm	-0.0004 ppm	0.0383 ppm	0.0319 ppm	0.0000 ppm	49.6839 ppm
Concentration per Run 2	0.0000 ppm	0.4161 ppm	0.0003 ppm	0.0383 ppm	0.0319 ppm	-0.0001 ppm	49.7823 ppm
Concentration per Run 3	0.0000 ppm	0.4222 ppm	0.0017 ppm	0.0367 ppm	0.0319 ppm	0.0000 ppm	49.4258 ppm
Concentration RSD	170.2 %	1.6 %	204.2 %	2.4 %	0.1 %	130.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0014 ppm	0.0032 ppm	0.1146 ppm	0.7208 ppm	51.1265 ppm	0.0036 ppm
Concentration per Run 1	0.0002 ppm	0.0016 ppm	0.0032 ppm	0.1157 ppm	0.7173 ppm	50.8641 ppm	0.0042 ppm
Concentration per Run 2	0.0002 ppm	0.0016 ppm	0.0031 ppm	0.1144 ppm	0.7250 ppm	51.5536 ppm	0.0034 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0033 ppm	0.1138 ppm	0.7200 ppm	50.9618 ppm	0.0032 ppm
Concentration RSD	21.4 %	34.5 %	3.1 %	0.9 %	0.5 %	0.7 %	14.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.2950 ppm	0.0571 ppm	-0.0001 ppm	382.5284 ppm	0.0094 ppm	0.0152 ppm	-0.0012 ppm
Concentration per Run 1	15.4667 ppm	0.0576 ppm	-0.0002 ppm	383.9952 ppm	0.0094 ppm	0.0155 ppm	0.0025 ppm
Concentration per Run 2	15.3126 ppm	0.0570 ppm	-0.0004 ppm	382.9779 ppm	0.0095 ppm	0.0150 ppm	-0.0023 ppm
Concentration per Run 3	15.1058 ppm	0.0567 ppm	0.0003 ppm	380.6120 ppm	0.0091 ppm	0.0152 ppm	-0.0037 ppm
Concentration RSD	1.2 %	0.8 %	385.7 %	0.5 %	2.1 %	1.5 %	277.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	1.6326 ppm	0.0318 ppm	0.2292 ppm	0.0098 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 1	0.0008 ppm	1.6461 ppm	0.0316 ppm	0.2300 ppm	0.0097 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 2	0.0018 ppm	1.6300 ppm	0.0325 ppm	0.2287 ppm	0.0103 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 3	0.0004 ppm	1.6217 ppm	0.0314 ppm	0.2288 ppm	0.0095 ppm	0.0014 ppm	0.0016 ppm
Concentration RSD	70.6 %	0.8 %	1.8 %	0.3 %	4.5 %	163.2 %	9.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2206 ppm	97.1454 %	103.9878 %	91.1701 %	89.9038 %	100.6116 %	93.6916 %
Concentration per Run 1	0.2217 ppm	96.0542 %	104.5205 %	90.6294 %	88.7830 %	101.6113 %	93.7498 %
Concentration per Run 2	0.2229 ppm	97.1491 %	103.9062 %	90.9085 %	90.1892 %	100.4471 %	93.5237 %
Concentration per Run 3	0.2174 ppm	98.2330 %	103.5367 %	91.9722 %	90.7393 %	99.7765 %	93.8012 %
Concentration RSD	1.3 %	1.1 %	0.5 %	0.8 %	1.1 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432748-01 WG1934502
Analysis started at: 6/16/2024 2:33:24 AM
Rack 3
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.3110 ppm	-0.0019 ppm	0.1710 ppm	0.0084 ppm	0.0000 ppm	4.7645 ppm
Concentration per Run 1	-0.0001 ppm	0.3060 ppm	-0.0004 ppm	0.1720 ppm	0.0084 ppm	0.0000 ppm	4.7917 ppm
Concentration per Run 2	0.0001 ppm	0.3064 ppm	-0.0022 ppm	0.1718 ppm	0.0083 ppm	0.0000 ppm	4.7646 ppm
Concentration per Run 3	-0.0004 ppm	0.3205 ppm	-0.0030 ppm	0.1692 ppm	0.0084 ppm	0.0000 ppm	4.7373 ppm
Concentration RSD	158.9 %	2.7 %	71.0 %	0.9 %	0.5 %	25.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0028 ppm	0.2500 ppm	0.1452 ppm	2.1780 ppm	0.0076 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0025 ppm	0.2526 ppm	0.1475 ppm	2.2331 ppm	0.0077 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0033 ppm	0.2505 ppm	0.1447 ppm	2.1415 ppm	0.0056 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0025 ppm	0.2470 ppm	0.1434 ppm	2.1595 ppm	0.0096 ppm
Concentration RSD	158.1 %	270.3 %	15.9 %	1.1 %	1.5 %	2.2 %	26.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0017 ppm	0.0171 ppm	-0.0015 ppm	109.0099 ppm	0.0070 ppm	0.0027 ppm	-0.0022 ppm
Concentration per Run 1	1.0116 ppm	0.0172 ppm	-0.0016 ppm	109.5634 ppm	0.0064 ppm	0.0034 ppm	-0.0015 ppm
Concentration per Run 2	1.0045 ppm	0.0172 ppm	-0.0014 ppm	109.4298 ppm	0.0082 ppm	0.0027 ppm	-0.0029 ppm
Concentration per Run 3	0.9891 ppm	0.0168 ppm	-0.0014 ppm	108.0364 ppm	0.0063 ppm	0.0021 ppm	-0.0023 ppm
Concentration RSD	1.1 %	1.4 %	7.7 %	0.8 %	15.7 %	25.0 %	32.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	1.9996 ppm	-0.0010 ppm	0.0340 ppm	0.0014 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	-0.0009 ppm	2.0132 ppm	-0.0020 ppm	0.0342 ppm	0.0015 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	2.0055 ppm	-0.0008 ppm	0.0341 ppm	0.0011 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	-0.0018 ppm	1.9800 ppm	-0.0003 ppm	0.0336 ppm	0.0017 ppm	0.0011 ppm	0.0001 ppm
Concentration RSD	71.5 %	0.9 %	84.2 %	1.0 %	19.8 %	120.3 %	74.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1075 ppm	99.2745 %	105.9004 %	97.1569 %	96.1438 %	104.5094 %	99.2696 %
Concentration per Run 1	0.1088 ppm	98.6513 %	104.7040 %	95.9362 %	96.2495 %	104.1014 %	98.6719 %
Concentration per Run 2	0.1075 ppm	99.0838 %	106.2688 %	97.5188 %	95.9406 %	105.1881 %	99.9631 %
Concentration per Run 3	0.1062 ppm	100.0883 %	106.7285 %	98.0155 %	96.2413 %	104.2389 %	99.1737 %
Concentration RSD	1.2 %	0.7 %	1.0 %	1.1 %	0.2 %	0.6 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432753-01 WG1934502
Analysis started at: 6/16/2024 2:37:23 AM
Rack 3
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1572 ppm	0.0005 ppm	0.0153 ppm	0.0121 ppm	0.0000 ppm	6.7326 ppm
Concentration per Run 1	-0.0002 ppm	0.1586 ppm	0.0001 ppm	0.0154 ppm	0.0120 ppm	0.0000 ppm	6.7714 ppm
Concentration per Run 2	0.0000 ppm	0.1466 ppm	0.0002 ppm	0.0150 ppm	0.0122 ppm	0.0000 ppm	6.6989 ppm
Concentration per Run 3	-0.0001 ppm	0.1666 ppm	0.0011 ppm	0.0155 ppm	0.0122 ppm	0.0000 ppm	6.7275 ppm
Concentration RSD	60.1 %	6.4 %	110.8 %	1.7 %	0.9 %	118.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0018 ppm	0.2884 ppm	0.3573 ppm	2.3119 ppm	0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0019 ppm	0.2933 ppm	0.3594 ppm	2.3629 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0017 ppm	0.2898 ppm	0.3558 ppm	2.2694 ppm	0.0035 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0020 ppm	0.2822 ppm	0.3568 ppm	2.3034 ppm	0.0017 ppm
Concentration RSD	76.1 %	119.1 %	8.6 %	2.0 %	0.5 %	2.0 %	45.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0856 ppm	0.0192 ppm	-0.0015 ppm	89.9036 ppm	0.0051 ppm	0.0094 ppm	-0.0017 ppm
Concentration per Run 1	1.1071 ppm	0.0193 ppm	-0.0015 ppm	90.0418 ppm	0.0046 ppm	0.0094 ppm	-0.0043 ppm
Concentration per Run 2	1.0849 ppm	0.0191 ppm	-0.0017 ppm	89.7632 ppm	0.0056 ppm	0.0091 ppm	0.0008 ppm
Concentration per Run 3	1.0647 ppm	0.0193 ppm	-0.0014 ppm	89.9059 ppm	0.0052 ppm	0.0095 ppm	-0.0017 ppm
Concentration RSD	2.0 %	0.6 %	11.2 %	0.2 %	9.5 %	2.1 %	148.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	2.4031 ppm	0.0002 ppm	0.0420 ppm	0.0054 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	-0.0021 ppm	2.4280 ppm	0.0001 ppm	0.0424 ppm	0.0053 ppm	-0.0011 ppm	0.0006 ppm
Concentration per Run 2	-0.0011 ppm	2.3964 ppm	-0.0005 ppm	0.0421 ppm	0.0051 ppm	0.0023 ppm	0.0004 ppm
Concentration per Run 3	0.0004 ppm	2.3850 ppm	0.0011 ppm	0.0415 ppm	0.0058 ppm	-0.0003 ppm	0.0003 ppm
Concentration RSD	139.8 %	0.9 %	339.4 %	1.2 %	6.9 %	566.4 %	33.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2510 ppm	99.8994 %	105.9055 %	98.0535 %	97.1292 %	104.7521 %	99.8797 %
Concentration per Run 1	0.2559 ppm	97.8777 %	105.6591 %	98.1646 %	95.6779 %	105.1786 %	100.6731 %
Concentration per Run 2	0.2507 ppm	100.3286 %	106.4122 %	97.8954 %	97.7803 %	104.9229 %	99.7785 %
Concentration per Run 3	0.2465 ppm	101.4919 %	105.6452 %	98.1003 %	97.9295 %	104.1547 %	99.1875 %
Concentration RSD	1.9 %	1.8 %	0.4 %	0.1 %	1.3 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432755-01 WG1934502
Analysis started at: 6/16/2024 2:41:21 AM
Rack 3
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.1119 ppm	0.0004 ppm	0.0213 ppm	0.0121 ppm	0.0000 ppm	5.2445 ppm
Concentration per Run 1	0.0001 ppm	0.1273 ppm	0.0013 ppm	0.0212 ppm	0.0120 ppm	0.0000 ppm	5.2600 ppm
Concentration per Run 2	0.0001 ppm	0.1050 ppm	-0.0007 ppm	0.0219 ppm	0.0120 ppm	0.0000 ppm	5.2304 ppm
Concentration per Run 3	0.0002 ppm	0.1034 ppm	0.0006 ppm	0.0207 ppm	0.0121 ppm	0.0000 ppm	5.2431 ppm
Concentration RSD	61.3 %	11.9 %	239.2 %	2.7 %	0.4 %	15.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.2679 ppm	0.2271 ppm	10.4579 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.2671 ppm	0.2317 ppm	10.5260 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.2712 ppm	0.2239 ppm	10.3891 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.2655 ppm	0.2258 ppm	10.4585 ppm	0.0004 ppm
Concentration RSD	108.8 %	43.5 %	280.0 %	1.1 %	1.8 %	0.7 %	71.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2361 ppm	0.0168 ppm	-0.0015 ppm	61.6590 ppm	0.0054 ppm	0.0032 ppm	-0.0021 ppm
Concentration per Run 1	1.2341 ppm	0.0167 ppm	-0.0018 ppm	61.6909 ppm	0.0053 ppm	0.0038 ppm	-0.0018 ppm
Concentration per Run 2	1.2423 ppm	0.0167 ppm	-0.0011 ppm	61.8604 ppm	0.0056 ppm	0.0035 ppm	-0.0006 ppm
Concentration per Run 3	1.2319 ppm	0.0169 ppm	-0.0017 ppm	61.4256 ppm	0.0054 ppm	0.0024 ppm	-0.0040 ppm
Concentration RSD	0.4 %	0.5 %	26.3 %	0.4 %	3.2 %	22.1 %	82.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	2.2469 ppm	0.0008 ppm	0.0432 ppm	0.0020 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	0.0025 ppm	2.2304 ppm	0.0007 ppm	0.0434 ppm	0.0023 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 2	-0.0007 ppm	2.2672 ppm	0.0008 ppm	0.0430 ppm	0.0016 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	2.2430 ppm	0.0010 ppm	0.0434 ppm	0.0020 ppm	0.0018 ppm	0.0001 ppm
Concentration RSD	288.8 %	0.8 %	15.8 %	0.5 %	17.3 %	49.4 %	81.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0482 ppm	102.2969 %	104.9903 %	99.5731 %	98.7443 %	103.3052 %	99.8428 %
Concentration per Run 1	0.0483 ppm	102.3227 %	104.6495 %	99.1013 %	99.7789 %	103.4191 %	99.9746 %
Concentration per Run 2	0.0483 ppm	101.3421 %	105.2765 %	99.3498 %	98.0696 %	103.3957 %	99.7033 %
Concentration per Run 3	0.0479 ppm	103.2258 %	105.0448 %	100.2681 %	98.3843 %	103.1009 %	99.8505 %
Concentration RSD	0.5 %	0.9 %	0.3 %	0.6 %	0.9 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCV
Analysis started at: 6/16/2024 2:45:20 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5194 ppm	0.5117 ppm	0.4831 ppm	0.5082 ppm	0.5111 ppm	0.5164 ppm	0.5122 ppm
Concentration per Run 1	0.5265 ppm	0.5175 ppm	0.4858 ppm	0.5149 ppm	0.5130 ppm	0.5169 ppm	0.5137 ppm
Concentration per Run 2	0.5192 ppm	0.5143 ppm	0.4869 ppm	0.5088 ppm	0.5131 ppm	0.5174 ppm	0.5138 ppm
Concentration per Run 3	0.5123 ppm	0.5033 ppm	0.4766 ppm	0.5009 ppm	0.5073 ppm	0.5149 ppm	0.5091 ppm
Recovery Percentage 1	103.870 %	102.338 %	96.614 %	101.637 %	102.225 %	103.280 %	102.438 %
Concentration RSD	1.4 %	1.5 %	1.2 %	1.4 %	0.7 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5166 ppm	0.5231 ppm	0.5083 ppm	0.5131 ppm	0.5380 ppm	5.2859 ppm	0.4999 ppm
Concentration per Run 1	0.5257 ppm	0.5318 ppm	0.5170 ppm	0.5226 ppm	0.5413 ppm	5.3541 ppm	0.5029 ppm
Concentration per Run 2	0.5161 ppm	0.5221 ppm	0.5087 ppm	0.5111 ppm	0.5381 ppm	5.2803 ppm	0.5022 ppm
Concentration per Run 3	0.5081 ppm	0.5155 ppm	0.4993 ppm	0.5055 ppm	0.5347 ppm	5.2234 ppm	0.4947 ppm
Recovery Percentage 1	103.321 %	104.627 %	101.660 %	102.619 %	107.608 %	105.719 %	99.986 %
Concentration RSD	1.7 %	1.6 %	1.7 %	1.7 %	0.6 %	1.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5175 ppm	0.5034 ppm	0.5096 ppm	10.2771 ppm	0.5222 ppm	0.5026 ppm	0.5023 ppm
Concentration per Run 1	0.5260 ppm	0.5054 ppm	0.5128 ppm	10.2633 ppm	0.5302 ppm	0.5053 ppm	0.5094 ppm
Concentration per Run 2	0.5186 ppm	0.5042 ppm	0.5093 ppm	10.3126 ppm	0.5218 ppm	0.5044 ppm	0.4989 ppm
Concentration per Run 3	0.5080 ppm	0.5007 ppm	0.5068 ppm	10.2555 ppm	0.5146 ppm	0.4980 ppm	0.4986 ppm
Recovery Percentage 1	103.506 %	100.689 %	101.924 %	102.771 %	104.442 %	100.511 %	100.459 %
Concentration RSD	1.7 %	0.5 %	0.6 %	0.3 %	1.5 %	0.8 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4884 ppm	5.2820 ppm	0.5160 ppm	0.5173 ppm	0.5152 ppm	0.5100 ppm	0.5115 ppm
Concentration per Run 1	0.4890 ppm	5.3546 ppm	0.5188 ppm	0.5165 ppm	0.5237 ppm	0.5122 ppm	0.5221 ppm
Concentration per Run 2	0.4938 ppm	5.2764 ppm	0.5150 ppm	0.5154 ppm	0.5134 ppm	0.5134 ppm	0.5095 ppm
Concentration per Run 3	0.4823 ppm	5.2148 ppm	0.5142 ppm	0.5200 ppm	0.5085 ppm	0.5043 ppm	0.5030 ppm
Recovery Percentage 1	97.675 %	100.609 %	103.206 %	103.458 %	103.041 %	101.991 %	102.301 %
Concentration RSD	1.2 %	1.3 %	0.5 %	0.5 %	1.5 %	1.0 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5164 ppm	109.2166 %	109.8099 %	107.4225 %	97.9382 %	100.8176 %	99.4020 %
Concentration per Run 1	0.5261 ppm	107.1399 %	109.6552 %	106.7853 %	96.9121 %	100.8798 %	99.5687 %
Concentration per Run 2	0.5178 ppm	109.2839 %	109.5303 %	107.5004 %	97.9761 %	100.6162 %	99.3485 %
Concentration per Run 3	0.5053 ppm	111.2261 %	110.2443 %	107.9818 %	98.9263 %	100.9568 %	99.2889 %
Recovery Percentage 1	103.283 %						
Concentration RSD	2.0 %	1.9 %	0.3 %	0.6 %	1.0 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCB
Analysis started at: 6/16/2024 2:49:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0083 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	-0.0003 ppm	0.0168 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 2	-0.0006 ppm	0.0011 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0069 ppm	-0.0001 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0024 ppm
Recovery Percentage 1	-4.039 %	8.291 %	-4.530 %	-1.745 %	-0.817 %	0.433 %	2.078 %
Concentration RSD	108.4 %	95.9 %	41.0 %	86.3 %	155.2 %	34.0 %	113.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0005 ppm	0.0067 ppm	-0.0034 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0003 ppm	0.0053 ppm	-0.0050 ppm	-0.0020 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0004 ppm	0.0060 ppm	-0.0008 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0008 ppm	0.0088 ppm	-0.0043 ppm	0.0007 ppm
Recovery Percentage 1	0.865 %	2.224 %	-3.175 %	4.827 %	13.393 %	-0.135 %	-1.508 %
Concentration RSD	206.6 %	34.9 %	52.5 %	51.2 %	28.3 %	67.9 %	1,050.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0402 ppm	-0.0004 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0300 ppm	-0.0007 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 2	0.0010 ppm	0.0003 ppm	-0.0004 ppm	-0.0505 ppm	0.0002 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	-0.0001 ppm	-0.0400 ppm	-0.0007 ppm	0.0003 ppm	0.0005 ppm
Recovery Percentage 1	0.065 %	1.674 %	-0.556 %	-2.008 %	-1.591 %	-4.260 %	0.010 %
Concentration RSD	1,313.2 %	90.3 %	60.2 %	25.6 %	122.0 %	158.3 %	11,150.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	-0.0096 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0102 ppm	-0.0011 ppm	-0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0023 ppm	-0.0101 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0085 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm
Recovery Percentage 1	-4.799 %	-1.913 %	-1.289 %	0.076 %	-1.884 %	-1.869 %	1.454 %
Concentration RSD	332.8 %	10.1 %	73.0 %	949.2 %	59.1 %	212.3 %	52.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	100.1936 %	101.2104 %	101.5270 %	100.6170 %	101.3821 %	102.0224 %
Concentration per Run 1	0.0010 ppm	98.6042 %	100.7309 %	100.4700 %	99.6919 %	101.5222 %	102.0010 %
Concentration per Run 2	0.0010 ppm	100.1776 %	100.4221 %	101.7410 %	100.8677 %	100.5329 %	102.4414 %
Concentration per Run 3	0.0007 ppm	101.7992 %	102.4782 %	102.3700 %	101.2914 %	102.0911 %	101.6247 %
Recovery Percentage 1	18.263 %						
Concentration RSD	17.4 %	1.6 %	1.1 %	1.0 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: L2432780-01 WG1934502
Analysis started at: 6/16/2024 2:54:45 AM
Rack 3
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.2029 ppm	0.0009 ppm	0.0532 ppm	0.0413 ppm	0.0007 ppm	47.9182 ppm
Concentration per Run 1	-0.0001 ppm	1.2032 ppm	0.0013 ppm	0.0524 ppm	0.0416 ppm	0.0007 ppm	48.1609 ppm
Concentration per Run 2	-0.0003 ppm	1.2057 ppm	0.0003 ppm	0.0545 ppm	0.0416 ppm	0.0007 ppm	47.9284 ppm
Concentration per Run 3	-0.0003 ppm	1.1997 ppm	0.0012 ppm	0.0526 ppm	0.0408 ppm	0.0006 ppm	47.6653 ppm
Concentration RSD	47.8 %	0.3 %	60.0 %	2.2 %	1.1 %	3.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0103 ppm	0.0867 ppm	16.2251 ppm	4.5000 ppm	0.0125 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0101 ppm	0.0852 ppm	16.2568 ppm	4.5457 ppm	0.0134 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0104 ppm	0.0877 ppm	16.2770 ppm	4.5338 ppm	0.0119 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	0.0103 ppm	0.0871 ppm	16.1417 ppm	4.4206 ppm	0.0122 ppm
Concentration RSD	28.5 %	70.6 %	1.5 %	1.5 %	0.4 %	1.5 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2583 ppm	0.0874 ppm	-0.0006 ppm	119.8852 ppm	0.0058 ppm	0.0018 ppm	0.0005 ppm
Concentration per Run 1	5.1775 ppm	0.0880 ppm	-0.0002 ppm	120.4450 ppm	0.0061 ppm	0.0019 ppm	0.0010 ppm
Concentration per Run 2	5.3198 ppm	0.0873 ppm	-0.0004 ppm	119.9500 ppm	0.0053 ppm	0.0017 ppm	-0.0002 ppm
Concentration per Run 3	5.2775 ppm	0.0870 ppm	-0.0013 ppm	119.2604 ppm	0.0059 ppm	0.0019 ppm	0.0008 ppm
Concentration RSD	1.4 %	0.6 %	97.7 %	0.5 %	6.8 %	5.5 %	119.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	13.6141 ppm	0.0074 ppm	0.2209 ppm	0.0812 ppm	0.0015 ppm	0.0023 ppm
Concentration per Run 1	0.0011 ppm	13.2575 ppm	0.0068 ppm	0.2214 ppm	0.0793 ppm	0.0017 ppm	0.0023 ppm
Concentration per Run 2	-0.0030 ppm	13.7726 ppm	0.0077 ppm	0.2215 ppm	0.0811 ppm	0.0017 ppm	0.0022 ppm
Concentration per Run 3	-0.0006 ppm	13.8121 ppm	0.0078 ppm	0.2197 ppm	0.0833 ppm	0.0011 ppm	0.0023 ppm
Concentration RSD	253.5 %	2.3 %	7.7 %	0.5 %	2.4 %	23.2 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0993 ppm	103.0999 %	106.6691 %	98.5329 %	99.7268 %	103.8658 %	100.6046 %
Concentration per Run 1	0.0973 ppm	104.2199 %	106.4774 %	98.1884 %	101.8148 %	104.1636 %	101.4135 %
Concentration per Run 2	0.1008 ppm	102.2267 %	106.4224 %	98.4796 %	99.2576 %	103.6134 %	100.3633 %
Concentration per Run 3	0.0996 ppm	102.8532 %	107.1074 %	98.9307 %	98.1079 %	103.8205 %	100.0369 %
Concentration RSD	1.8 %	1.0 %	0.4 %	0.4 %	1.9 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCV
Analysis started at: 6/16/2024 2:58:47 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5107 ppm	0.5085 ppm	0.4737 ppm	0.5016 ppm	0.5056 ppm	0.5105 ppm	0.5064 ppm
Concentration per Run 1	0.5141 ppm	0.5112 ppm	0.4805 ppm	0.5025 ppm	0.5060 ppm	0.5110 ppm	0.5080 ppm
Concentration per Run 2	0.5124 ppm	0.5112 ppm	0.4707 ppm	0.5054 ppm	0.5060 ppm	0.5100 ppm	0.5058 ppm
Concentration per Run 3	0.5055 ppm	0.5031 ppm	0.4700 ppm	0.4968 ppm	0.5049 ppm	0.5105 ppm	0.5054 ppm
Recovery Percentage 1	102.130 %	101.699 %	94.744 %	100.315 %	101.127 %	102.100 %	101.281 %
Concentration RSD	0.9 %	0.9 %	1.2 %	0.9 %	0.1 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5082 ppm	0.5146 ppm	0.4992 ppm	0.5071 ppm	0.5342 ppm	5.2138 ppm	0.4986 ppm
Concentration per Run 1	0.5144 ppm	0.5207 ppm	0.5054 ppm	0.5118 ppm	0.5341 ppm	5.2040 ppm	0.4987 ppm
Concentration per Run 2	0.5089 ppm	0.5151 ppm	0.4991 ppm	0.5076 ppm	0.5359 ppm	5.2207 ppm	0.5003 ppm
Concentration per Run 3	0.5012 ppm	0.5080 ppm	0.4931 ppm	0.5019 ppm	0.5326 ppm	5.2166 ppm	0.4968 ppm
Recovery Percentage 1	101.635 %	102.924 %	99.845 %	101.419 %	106.843 %	104.275 %	99.718 %
Concentration RSD	1.3 %	1.2 %	1.2 %	1.0 %	0.3 %	0.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5078 ppm	0.4999 ppm	0.4990 ppm	10.1477 ppm	0.5120 ppm	0.4931 ppm	0.4920 ppm
Concentration per Run 1	0.5161 ppm	0.4983 ppm	0.4985 ppm	10.1719 ppm	0.5192 ppm	0.4971 ppm	0.4956 ppm
Concentration per Run 2	0.5086 ppm	0.5014 ppm	0.4999 ppm	10.1229 ppm	0.5115 ppm	0.4926 ppm	0.4902 ppm
Concentration per Run 3	0.4988 ppm	0.4999 ppm	0.4988 ppm	10.1484 ppm	0.5052 ppm	0.4897 ppm	0.4901 ppm
Recovery Percentage 1	101.566 %	99.974 %	99.809 %	101.477 %	102.396 %	98.629 %	98.396 %
Concentration RSD	1.7 %	0.3 %	0.2 %	0.2 %	1.4 %	0.7 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4809 ppm	5.3742 ppm	0.5127 ppm	0.5120 ppm	0.5053 ppm	0.4999 ppm	0.5006 ppm
Concentration per Run 1	0.4827 ppm	5.4182 ppm	0.5133 ppm	0.5122 ppm	0.5121 ppm	0.5036 ppm	0.5052 ppm
Concentration per Run 2	0.4828 ppm	5.3878 ppm	0.5114 ppm	0.5127 ppm	0.5052 ppm	0.5009 ppm	0.5010 ppm
Concentration per Run 3	0.4774 ppm	5.3165 ppm	0.5134 ppm	0.5112 ppm	0.4987 ppm	0.4952 ppm	0.4955 ppm
Recovery Percentage 1	96.190 %	102.365 %	102.543 %	102.406 %	101.065 %	99.978 %	100.115 %
Concentration RSD	0.6 %	1.0 %	0.2 %	0.2 %	1.3 %	0.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5062 ppm	111.0566 %	111.7003 %	108.7705 %	98.8260 %	102.5409 %	100.4595 %
Concentration per Run 1	0.5132 ppm	109.5369 %	111.8805 %	108.0785 %	98.3339 %	102.8111 %	100.2227 %
Concentration per Run 2	0.5047 ppm	111.4302 %	111.4302 %	108.9462 %	99.3158 %	102.0239 %	100.3597 %
Concentration per Run 3	0.5006 ppm	112.2028 %	111.7902 %	109.2867 %	98.8284 %	102.7876 %	100.7960 %
Recovery Percentage 1	101.235 %						
Concentration RSD	1.3 %	1.2 %	0.2 %	0.6 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: CCB
Analysis started at: 6/16/2024 3:02:44 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0072 ppm	-0.0010 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 1	-0.0001 ppm	-0.0073 ppm	-0.0017 ppm	-0.0004 ppm	-0.0002 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0124 ppm	-0.0011 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0165 ppm	-0.0002 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm	-0.0006 ppm
Recovery Percentage 1	-0.148 %	7.197 %	-33.355 %	-0.884 %	0.045 %	1.805 %	1.575 %
Concentration RSD	1,120.2 %	177.3 %	75.1 %	145.2 %	4,257.2 %	111.8 %	124.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0068 ppm	-0.0172 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0005 ppm	0.0062 ppm	-0.0207 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0077 ppm	-0.0168 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0064 ppm	-0.0141 ppm	0.0000 ppm
Recovery Percentage 1	-0.881 %	1.642 %	-2.614 %	2.775 %	13.526 %	-0.689 %	-0.496 %
Concentration RSD	119.0 %	57.1 %	98.6 %	66.0 %	12.1 %	19.3 %	2,165.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0001 ppm	-0.0002 ppm	-0.0406 ppm	-0.0004 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	-0.0024 ppm	0.0001 ppm	0.0001 ppm	-0.0439 ppm	-0.0001 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 2	-0.0005 ppm	0.0002 ppm	-0.0005 ppm	-0.0417 ppm	-0.0005 ppm	-0.0018 ppm	0.0014 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	-0.0003 ppm	-0.0362 ppm	-0.0004 ppm	0.0001 ppm	-0.0031 ppm
Recovery Percentage 1	-1.157 %	0.815 %	-0.424 %	-2.031 %	-1.409 %	-6.666 %	-0.188 %
Concentration RSD	90.3 %	211.3 %	126.3 %	9.8 %	67.1 %	149.6 %	2,806.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0146 ppm	-0.0006 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0171 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0126 ppm	-0.0010 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0142 ppm	-0.0007 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	0.426 %	2.923 %	-1.165 %	-0.511 %	-2.809 %	-0.307 %	0.347 %
Concentration RSD	912.5 %	15.5 %	89.0 %	121.8 %	54.2 %	377.0 %	382.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	100.3211 %	102.4009 %	101.7596 %	100.6679 %	103.0262 %	102.2367 %
Concentration per Run 1	0.0009 ppm	99.6116 %	102.9834 %	100.4362 %	100.3997 %	104.0102 %	101.7288 %
Concentration per Run 2	0.0007 ppm	99.5549 %	101.5449 %	101.7301 %	100.1573 %	102.1993 %	102.3231 %
Concentration per Run 3	0.0010 ppm	101.7966 %	102.6743 %	103.1124 %	101.4467 %	102.8692 %	102.6582 %
Recovery Percentage 1	16.897 %						
Concentration RSD	17.0 %	1.3 %	0.7 %	1.3 %	0.7 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/17/2024 9:28:02 AM

LabBook: WG1934785_06152024T8B.imexp

Sample: LLOQ
Analysis started at: 6/16/2024 3:06:42 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	0.1200 ppm	0.0048 ppm	0.0337 ppm	**0.0161 ppm**	0.0053 ppm	**0.1360 ppm**
Concentration per Run 1	0.0077 ppm	0.1294 ppm	0.0035 ppm	0.0328 ppm	0.0162 ppm	0.0053 ppm	0.1373 ppm
Concentration per Run 2	0.0077 ppm	0.1146 ppm	0.0060 ppm	0.0339 ppm	0.0160 ppm	0.0053 ppm	0.1351 ppm
Concentration per Run 3	0.0076 ppm	0.1159 ppm	0.0050 ppm	0.0343 ppm	0.0162 ppm	0.0052 ppm	0.1356 ppm
Recovery Percentage 1	109.350 %	119.969 %	96.462 %	112.219 %	161.334 %	105.589 %	135.979 %
Concentration RSD	1.0 %	6.9 %	26.6 %	2.4 %	**0.5 %**	0.8 %	**0.8 %**

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.0233 ppm	0.0110 ppm	**0.0131 ppm**	**0.0850 ppm**	2.7834 ppm	**0.0121 ppm**
Concentration per Run 1	0.0045 ppm	0.0237 ppm	0.0113 ppm	0.0132 ppm	0.0849 ppm	2.8119 ppm	0.0104 ppm
Concentration per Run 2	0.0043 ppm	0.0233 ppm	0.0108 ppm	0.0130 ppm	0.0846 ppm	2.7970 ppm	0.0133 ppm
Concentration per Run 3	0.0045 ppm	0.0229 ppm	0.0108 ppm	0.0132 ppm	0.0855 ppm	2.7414 ppm	0.0127 ppm
Recovery Percentage 1	89.499 %	116.444 %	109.653 %	131.200 %	170.050 %	111.337 %	121.086 %
Concentration RSD	2.6 %	1.6 %	2.7 %	**0.9 %**	**0.6 %**	1.3 %	**12.6 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1200 ppm	0.0112 ppm	0.0528 ppm	2.2149 ppm	**0.0340 ppm**	0.0096 ppm	0.0413 ppm
Concentration per Run 1	0.1214 ppm	0.0111 ppm	0.0522 ppm	2.2166 ppm	0.0342 ppm	0.0097 ppm	0.0423 ppm
Concentration per Run 2	0.1190 ppm	0.0114 ppm	0.0534 ppm	2.2191 ppm	0.0345 ppm	0.0093 ppm	0.0442 ppm
Concentration per Run 3	0.1197 ppm	0.0110 ppm	0.0527 ppm	2.2090 ppm	0.0331 ppm	0.0099 ppm	0.0374 ppm
Recovery Percentage 1	120.031 %	111.948 %	105.615 %	110.744 %	135.807 %	96.126 %	82.602 %
Concentration RSD	1.0 %	1.9 %	1.1 %	0.2 %	**2.2 %**	3.4 %	8.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0116 ppm	0.5747 ppm	0.0493 ppm	0.0108 ppm	0.0558 ppm	**0.0217 ppm**	0.0113 ppm
Concentration per Run 1	0.0130 ppm	0.5806 ppm	0.0490 ppm	0.0108 ppm	0.0564 ppm	0.0223 ppm	0.0115 ppm
Concentration per Run 2	0.0117 ppm	0.5753 ppm	0.0496 ppm	0.0108 ppm	0.0559 ppm	0.0233 ppm	0.0112 ppm
Concentration per Run 3	0.0102 ppm	0.5681 ppm	0.0492 ppm	0.0108 ppm	0.0551 ppm	0.0196 ppm	0.0113 ppm
Recovery Percentage 1	116.224 %	114.935 %	98.502 %	108.082 %	111.543 %	108.546 %	113.190 %
Concentration RSD	12.0 %	1.1 %	0.6 %	0.5 %	1.2 %	8.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0080 ppm**	103.8993 %	106.7789 %	108.1588 %	100.9410 %	102.7269 %	105.6200 %
Concentration per Run 1	0.0082 ppm	102.5613 %	106.7780 %	103.5424 %	100.1792 %	103.2116 %	102.3149 %
Concentration per Run 2	0.0081 ppm	104.2007 %	106.5343 %	103.9515 %	101.3586 %	102.2927 %	101.9257 %
Concentration per Run 3	0.0079 ppm	104.9360 %	107.0244 %	116.9826 %	101.2851 %	102.6764 %	112.6196 %
Recovery Percentage 1	160.970 %						
Concentration RSD	**1.5 %**	1.2 %	0.2 %	7.1 %	0.7 %	0.4 %	5.7 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: Blank MAM Trace5
Analysis started at: 6/16/2024 6:16:07 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	44.7 %	0.3 %	3.7 %	0.5 %	0.1 %	0.5 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.2 %	0.4 %	0.0 %	-0.2 %	0.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-3.7 %	0.2 %	-0.5 %	-0.1 %	-0.2 %	-0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.1 %	4.5 %	-0.1 %	-0.1 %	-0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: ICAL
Analysis started at: 6/16/2024 6:22:31 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9985 ppm	25.4775 ppm	1.0002 ppm	0.9986 ppm	1.0191 ppm	1.0192 ppm	10.1785 ppm
Concentration per Run 2	1.0002 ppm	24.9182 ppm	0.9989 ppm	0.9984 ppm	0.9960 ppm	0.9958 ppm	9.9605 ppm
Concentration per Run 3	1.0012 ppm	24.6043 ppm	1.0009 ppm	1.0030 ppm	0.9850 ppm	0.9850 ppm	9.8610 ppm
Concentration RSD	0.1 %	1.8 %	0.1 %	0.3 %	1.7 %	1.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0001 ppm	0.9997 ppm	1.0005 ppm	1.0013 ppm	25.4824 ppm	35.7704 ppm	9.9686 ppm
Concentration per Run 2	0.9978 ppm	0.9982 ppm	1.0000 ppm	0.9990 ppm	24.8999 ppm	34.7784 ppm	10.0038 ppm
Concentration per Run 3	1.0021 ppm	1.0021 ppm	0.9995 ppm	0.9997 ppm	24.6177 ppm	34.4512 ppm	10.0276 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.1 %	1.8 %	2.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0194 ppm	0.9936 ppm	25.4857 ppm	1.0003 ppm	0.9994 ppm	0.9981 ppm	1.0016 ppm
Concentration per Run 2	0.9946 ppm	0.9982 ppm	24.8796 ppm	0.9977 ppm	0.9966 ppm	0.9995 ppm	1.0036 ppm
Concentration per Run 3	0.9860 ppm	1.0082 ppm	24.6348 ppm	1.0020 ppm	1.0040 ppm	1.0024 ppm	0.9948 ppm
Concentration RSD	1.7 %	0.7 %	1.8 %	0.2 %	0.4 %	0.2 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0006 ppm	0.9992 ppm	1.0187 ppm	0.9977 ppm	0.9978 ppm	0.9994 ppm	1.0001 ppm
Concentration per Run 2	9.9802 ppm	0.9959 ppm	0.9961 ppm	0.9993 ppm	0.9993 ppm	1.0000 ppm	0.9981 ppm
Concentration per Run 3	10.0192 ppm	1.0049 ppm	0.9852 ppm	1.0030 ppm	1.0029 ppm	1.0006 ppm	1.0017 ppm
Concentration RSD	0.2 %	0.5 %	1.7 %	0.3 %	0.3 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.0364 %	99.1150 %	99.0309 %	126.0168 %	104.9451 %	109.1288 %
Concentration per Run 1	101.5803 %	99.1403 %	98.8819 %	126.7767 %	104.9398 %	109.5787 %
Concentration per Run 2	103.4444 %	98.8916 %	98.9018 %	126.1015 %	105.1247 %	108.8161 %
Concentration per Run 3	104.0845 %	99.3130 %	99.3088 %	125.1721 %	104.7708 %	108.9915 %
Concentration RSD	1.3 %	0.2 %	0.2 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: ICV
Analysis started at: 6/16/2024 6:28:35 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5180 ppm	0.4997 ppm	0.5058 ppm	0.5054 ppm	0.5078 ppm	0.5213 ppm	0.5102 ppm
Concentration per Run 1	0.5179 ppm	0.5295 ppm	0.5055 ppm	0.5048 ppm	0.5307 ppm	0.5458 ppm	0.5455 ppm
Concentration per Run 2	0.5181 ppm	0.4928 ppm	0.5058 ppm	0.5058 ppm	0.4986 ppm	0.5114 ppm	0.4885 ppm
Concentration per Run 3	0.5180 ppm	0.4767 ppm	0.5060 ppm	0.5056 ppm	0.4941 ppm	0.5066 ppm	0.4966 ppm
Recovery Percentage 1	103.603 %	99.931 %	101.157 %	101.083 %	101.561 %	104.256 %	102.043 %
Concentration RSD	0.0 %	5.4 %	0.0 %	0.1 %	3.9 %	4.1 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5129 ppm	0.5216 ppm	0.5187 ppm	0.5063 ppm	0.5480 ppm	5.2057 ppm	0.5136 ppm
Concentration per Run 1	0.5124 ppm	0.5211 ppm	0.5184 ppm	0.5067 ppm	0.5726 ppm	5.4943 ppm	0.5117 ppm
Concentration per Run 2	0.5135 ppm	0.5221 ppm	0.5196 ppm	0.5060 ppm	0.5382 ppm	5.0747 ppm	0.5175 ppm
Concentration per Run 3	0.5127 ppm	0.5217 ppm	0.5181 ppm	0.5062 ppm	0.5333 ppm	5.0481 ppm	0.5116 ppm
Recovery Percentage 1	102.573 %	104.327 %	103.741 %	101.264 %	109.607 %	104.114 %	102.716 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	3.9 %	4.8 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5102 ppm	0.5143 ppm	10.3718 ppm	0.5208 ppm	0.5176 ppm	0.5182 ppm	0.5076 ppm
Concentration per Run 1	0.5341 ppm	0.5114 ppm	10.8496 ppm	0.5210 ppm	0.5173 ppm	0.5188 ppm	0.5044 ppm
Concentration per Run 2	0.5016 ppm	0.5147 ppm	10.1922 ppm	0.5216 ppm	0.5182 ppm	0.5185 ppm	0.5088 ppm
Concentration per Run 3	0.4949 ppm	0.5166 ppm	10.0737 ppm	0.5199 ppm	0.5173 ppm	0.5174 ppm	0.5096 ppm
Recovery Percentage 1	102.039 %	102.852 %	103.718 %	104.162 %	103.519 %	103.649 %	101.515 %
Concentration RSD	4.1 %	0.5 %	4.0 %	0.2 %	0.1 %	0.1 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6947 ppm	0.5172 ppm	0.5011 ppm	0.5217 ppm	0.5173 ppm	0.5100 ppm	0.5203 ppm
Concentration per Run 1	5.6951 ppm	0.5154 ppm	0.5236 ppm	0.5209 ppm	0.5159 ppm	0.5098 ppm	0.5202 ppm
Concentration per Run 2	5.7006 ppm	0.5179 ppm	0.4928 ppm	0.5234 ppm	0.5181 ppm	0.5113 ppm	0.5206 ppm
Concentration per Run 3	5.6884 ppm	0.5182 ppm	0.4869 ppm	0.5208 ppm	0.5179 ppm	0.5088 ppm	0.5202 ppm
Recovery Percentage 1	108.471 %	103.434 %	100.213 %	104.342 %	103.460 %	101.996 %	104.068 %
Concentration RSD	0.1 %	0.3 %	3.9 %	0.3 %	0.2 %	0.3 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.2497 %	100.3225 %	99.7227 %	116.1587 %	104.8930 %	107.2499 %
Concentration per Run 1	98.3099 %	100.5531 %	99.9440 %	113.5293 %	104.9741 %	107.5164 %
Concentration per Run 2	103.8183 %	99.9684 %	99.7981 %	116.9166 %	104.7538 %	106.7459 %
Concentration per Run 3	104.6207 %	100.4459 %	99.4261 %	118.0301 %	104.9510 %	107.4874 %
Recovery Percentage 1						
Concentration RSD	3.4 %	0.3 %	0.3 %	2.0 %	0.1 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: ICB
Analysis started at: 6/16/2024 6:34:40 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0008 ppm	0.0009 ppm	0.0018 ppm	0.0004 ppm	0.0001 ppm	0.0053 ppm
Concentration per Run 1	-0.0001 ppm	0.0209 ppm	0.0007 ppm	0.0022 ppm	0.0006 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0002 ppm	-0.0218 ppm	0.0019 ppm	0.0014 ppm	0.0003 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 3	0.0003 ppm	-0.0015 ppm	0.0001 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0161 ppm
Recovery Percentage 1	2.566 %	-0.819 %	18.755 %	6.098 %	3.579 %	1.112 %	5.273 %
Concentration RSD	119.1 %	2,605.0 %	99.0 %	22.8 %	55.4 %	138.3 %	188.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0007 ppm	0.0091 ppm	-0.1303 ppm	-0.0040 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0006 ppm	-0.0007 ppm	0.0085 ppm	-0.1310 ppm	-0.0050 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	-0.0008 ppm	0.0108 ppm	-0.1258 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0009 ppm	-0.0004 ppm	0.0079 ppm	-0.1342 ppm	-0.0034 ppm
Recovery Percentage 1	-0.201 %	-1.134 %	5.201 %	-6.550 %	18.153 %	-5.214 %	-3.973 %
Concentration RSD	555.2 %	67.3 %	86.0 %	28.1 %	17.1 %	3.2 %	21.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0029 ppm	-0.0219 ppm	-0.0001 ppm	0.0007 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0034 ppm	-0.0070 ppm	-0.0003 ppm	-0.0007 ppm	0.0014 ppm	-0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0028 ppm	-0.0243 ppm	0.0003 ppm	0.0016 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0026 ppm	-0.0344 ppm	-0.0002 ppm	0.0013 ppm	0.0003 ppm	0.0016 ppm
Recovery Percentage 1	0.612 %	5.865 %	-1.095 %	-0.295 %	7.423 %	2.415 %	3.929 %
Concentration RSD	389.5 %	14.6 %	63.2 %	416.4 %	164.4 %	69.4 %	270.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0026 ppm	-0.0005 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	-0.0001 ppm	-0.0016 ppm
Concentration per Run 2	0.0021 ppm	-0.0009 ppm	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	-0.0004 ppm	-0.0015 ppm
Concentration per Run 3	0.0032 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0016 ppm
Recovery Percentage 1	0.513 %	-0.938 %	-0.885 %	2.195 %	1.826 %	0.387 %	-31.445 %
Concentration RSD	22.7 %	110.5 %	159.3 %	92.8 %	303.2 %	1,382.0 %	5.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.2482 %	101.6391 %	101.0607 %	110.9559 %	103.2471 %	105.5216 %
Concentration per Run 1	103.3740 %	101.3704 %	100.9633 %	109.0559 %	102.8775 %	105.3150 %
Concentration per Run 2	104.8038 %	102.0399 %	101.1803 %	111.3675 %	103.3809 %	105.6888 %
Concentration per Run 3	104.5669 %	101.5071 %	101.0385 %	112.4444 %	103.4829 %	105.5610 %
Recovery Percentage 1						
Concentration RSD	0.7 %	0.3 %	0.1 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: ICV
Analysis started at: 6/16/2024 6:41:18 AM
Comments Position Adjusted
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5129 ppm	0.4910 ppm	0.4971 ppm	0.4997 ppm	0.5057 ppm	0.5171 ppm	0.5077 ppm
Concentration per Run 1	0.5136 ppm	0.4870 ppm	0.4994 ppm	0.5013 ppm	0.5054 ppm	0.5166 ppm	0.5033 ppm
Concentration per Run 2	0.5112 ppm	0.4949 ppm	0.4992 ppm	0.4997 ppm	0.5124 ppm	0.5244 ppm	0.5195 ppm
Concentration per Run 3	0.5138 ppm	0.4910 ppm	0.4926 ppm	0.4980 ppm	0.4993 ppm	0.5102 ppm	0.5002 ppm
Recovery Percentage 1	102.575 %	98.195 %	99.411 %	99.935 %	101.133 %	103.415 %	101.536 %
Concentration RSD	0.3 %	0.8 %	0.8 %	0.3 %	1.3 %	1.4 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5058 ppm	0.5137 ppm	0.5132 ppm	0.5001 ppm	0.5323 ppm	5.1711 ppm	0.5051 ppm
Concentration per Run 1	0.5070 ppm	0.5156 ppm	0.5133 ppm	0.5006 ppm	0.5329 ppm	5.1536 ppm	0.5016 ppm
Concentration per Run 2	0.5058 ppm	0.5137 ppm	0.5133 ppm	0.4997 ppm	0.5398 ppm	5.2465 ppm	0.5066 ppm
Concentration per Run 3	0.5046 ppm	0.5119 ppm	0.5129 ppm	0.4999 ppm	0.5243 ppm	5.1132 ppm	0.5071 ppm
Recovery Percentage 1	101.160 %	102.745 %	102.631 %	100.015 %	106.467 %	103.422 %	101.013 %
Concentration RSD	0.2 %	0.4 %	0.1 %	0.1 %	1.5 %	1.3 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5052 ppm	0.5026 ppm	10.2855 ppm	0.5128 ppm	0.5092 ppm	0.5077 ppm	0.5054 ppm
Concentration per Run 1	0.5046 ppm	0.5022 ppm	10.2901 ppm	0.5139 ppm	0.5105 ppm	0.5081 ppm	0.5090 ppm
Concentration per Run 2	0.5113 ppm	0.5026 ppm	10.3882 ppm	0.5132 ppm	0.5098 ppm	0.5073 ppm	0.5012 ppm
Concentration per Run 3	0.4998 ppm	0.5029 ppm	10.1784 ppm	0.5113 ppm	0.5074 ppm	0.5077 ppm	0.5059 ppm
Recovery Percentage 1	101.046 %	100.516 %	102.855 %	102.562 %	101.850 %	101.540 %	101.079 %
Concentration RSD	1.1 %	0.1 %	1.0 %	0.3 %	0.3 %	0.1 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2383 ppm	0.5220 ppm	0.5032 ppm	0.5120 ppm	0.5093 ppm	0.5043 ppm	0.5122 ppm
Concentration per Run 1	5.2537 ppm	0.5218 ppm	0.5033 ppm	0.5126 ppm	0.5111 ppm	0.5046 ppm	0.5137 ppm
Concentration per Run 2	5.2396 ppm	0.5226 ppm	0.5098 ppm	0.5117 ppm	0.5092 ppm	0.5047 ppm	0.5123 ppm
Concentration per Run 3	5.2217 ppm	0.5217 ppm	0.4963 ppm	0.5118 ppm	0.5077 ppm	0.5036 ppm	0.5107 ppm
Recovery Percentage 1	99.778 %	104.406 %	100.631 %	102.407 %	101.862 %	100.859 %	102.444 %
Concentration RSD	0.3 %	0.1 %	1.3 %	0.1 %	0.3 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.4819 %	100.9166 %	100.4876 %	119.4839 %	106.1414 %	108.7465 %
Concentration per Run 1	102.0299 %	100.9077 %	100.5110 %	119.9950 %	105.9498 %	108.7269 %
Concentration per Run 2	101.7078 %	101.1064 %	100.4392 %	119.0160 %	106.1929 %	108.8226 %
Concentration per Run 3	103.7079 %	100.7357 %	100.5127 %	119.4406 %	106.2815 %	108.6900 %
Recovery Percentage 1						
Concentration RSD	1.0 %	0.2 %	0.0 %	0.4 %	0.2 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: ICB
Analysis started at: 6/16/2024 6:47:26 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0143 ppm	0.0014 ppm	0.0019 ppm	0.0004 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 1	-0.0001 ppm	-0.0022 ppm	0.0023 ppm	0.0016 ppm	0.0003 ppm	0.0001 ppm	0.0092 ppm
Concentration per Run 2	-0.0004 ppm	-0.0230 ppm	0.0017 ppm	0.0016 ppm	0.0005 ppm	0.0002 ppm	0.0097 ppm
Concentration per Run 3	0.0002 ppm	-0.0178 ppm	0.0002 ppm	0.0025 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-1.821 %	-14.307 %	28.180 %	6.343 %	4.006 %	2.878 %	6.327 %
Concentration RSD	231.2 %	75.8 %	74.7 %	26.6 %	31.5 %	43.6 %	86.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0070 ppm	-0.1749 ppm	-0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0007 ppm	0.0088 ppm	-0.1666 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0010 ppm	0.0046 ppm	-0.1615 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0075 ppm	-0.1967 ppm	-0.0041 ppm
Recovery Percentage 1	-0.047 %	-0.643 %	2.122 %	-6.531 %	13.973 %	-6.998 %	-2.868 %
Concentration RSD	569.4 %	63.7 %	108.6 %	50.5 %	31.0 %	10.9 %	54.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0025 ppm	-0.0143 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.0028 ppm	-0.0140 ppm	0.0001 ppm	-0.0002 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	0.0023 ppm	-0.0090 ppm	0.0000 ppm	0.0008 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 3	0.0008 ppm	0.0023 ppm	-0.0200 ppm	-0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0013 ppm
Recovery Percentage 1	7.074 %	4.910 %	-0.717 %	0.012 %	3.051 %	0.915 %	-1.437 %
Concentration RSD	22.5 %	10.8 %	38.3 %	1,684.1 %	162.9 %	203.8 %	766.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0022 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	0.0017 ppm	-0.0010 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm	-0.0019 ppm
Concentration per Run 2	0.0020 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0010 ppm	0.0002 ppm	-0.0018 ppm
Concentration per Run 3	0.0029 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm	-0.0004 ppm	-0.0019 ppm
Recovery Percentage 1	0.440 %	-0.730 %	1.970 %	2.607 %	-2.814 %	-0.048 %	-37.770 %
Concentration RSD	28.8 %	154.8 %	60.4 %	63.5 %	152.4 %	7,976.0 %	2.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2969 %	101.6660 %	101.3837 %	111.2515 %	103.6285 %	105.8641 %
Concentration per Run 1	102.5923 %	101.6784 %	101.2094 %	109.7772 %	103.3308 %	105.9073 %
Concentration per Run 2	102.4609 %	101.4907 %	101.4700 %	111.1404 %	103.7089 %	105.5796 %
Concentration per Run 3	104.8374 %	101.8288 %	101.4718 %	112.8371 %	103.8458 %	106.1055 %
Recovery Percentage 1						
Concentration RSD	1.3 %	0.2 %	0.1 %	1.4 %	0.3 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LLOQ RL
Analysis started at: 6/16/2024 6:53:48 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0069 ppm	**0.0780 ppm**	0.0046 ppm	0.0311 ppm	0.0102 ppm	0.0049 ppm	0.1009 ppm
Concentration per Run 1	0.0070 ppm	0.0840 ppm	0.0059 ppm	0.0314 ppm	0.0101 ppm	0.0049 ppm	0.1099 ppm
Concentration per Run 2	0.0063 ppm	0.0752 ppm	0.0049 ppm	0.0309 ppm	0.0102 ppm	0.0047 ppm	0.1009 ppm
Concentration per Run 3	0.0074 ppm	0.0749 ppm	0.0031 ppm	0.0309 ppm	0.0104 ppm	0.0050 ppm	0.0918 ppm
Recovery Percentage 1	98.674 %	78.043 %	92.936 %	103.541 %	102.199 %	97.284 %	100.880 %
Concentration RSD	8.6 %	**6.6 %**	30.2 %	0.9 %	1.1 %	2.5 %	9.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0041 ppm	0.0208 ppm	0.0106 ppm	0.0098 ppm	0.0549 ppm	2.4017 ppm	0.1051 ppm
Concentration per Run 1	0.0041 ppm	0.0210 ppm	0.0102 ppm	0.0100 ppm	0.0541 ppm	2.3260 ppm	0.1042 ppm
Concentration per Run 2	0.0041 ppm	0.0207 ppm	0.0108 ppm	0.0094 ppm	0.0575 ppm	2.4139 ppm	0.1058 ppm
Concentration per Run 3	0.0041 ppm	0.0206 ppm	0.0109 ppm	0.0099 ppm	0.0531 ppm	2.4651 ppm	0.1053 ppm
Recovery Percentage 1	102.156 %	103.914 %	106.082 %	97.777 %	109.726 %	96.067 %	105.113 %
Concentration RSD	0.6 %	1.2 %	3.4 %	3.1 %	4.2 %	2.9 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0108 ppm	0.0515 ppm	2.0510 ppm	0.0254 ppm	0.0106 ppm	0.0519 ppm	0.0113 ppm
Concentration per Run 1	0.0110 ppm	0.0518 ppm	2.0246 ppm	0.0256 ppm	0.0110 ppm	0.0513 ppm	0.0114 ppm
Concentration per Run 2	0.0106 ppm	0.0514 ppm	2.0587 ppm	0.0253 ppm	0.0105 ppm	0.0512 ppm	0.0102 ppm
Concentration per Run 3	0.0106 ppm	0.0513 ppm	2.0697 ppm	0.0255 ppm	0.0103 ppm	0.0532 ppm	0.0123 ppm
Recovery Percentage 1	107.561 %	103.071 %	102.551 %	101.800 %	106.061 %	103.818 %	112.752 %
Concentration RSD	2.1 %	0.5 %	1.1 %	0.7 %	3.6 %	2.2 %	9.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5361 ppm	0.0528 ppm	0.0094 ppm	0.0515 ppm	0.0205 ppm	0.0103 ppm	**0.0034 ppm**
Concentration per Run 1	0.5383 ppm	0.0533 ppm	0.0093 ppm	0.0509 ppm	0.0202 ppm	0.0102 ppm	0.0034 ppm
Concentration per Run 2	0.5351 ppm	0.0531 ppm	0.0095 ppm	0.0520 ppm	0.0203 ppm	0.0105 ppm	0.0034 ppm
Concentration per Run 3	0.5349 ppm	0.0521 ppm	0.0094 ppm	0.0518 ppm	0.0211 ppm	0.0102 ppm	0.0035 ppm
Recovery Percentage 1	107.223 %	105.663 %	94.002 %	103.083 %	102.597 %	103.050 %	68.961 %
Concentration RSD	0.3 %	1.3 %	1.2 %	1.1 %	2.3 %	1.3 %	**0.8 %**

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.9556 %	101.8326 %	101.6048 %	119.7079 %	106.6902 %	108.6394 %
Concentration per Run 1	107.2484 %	101.6455 %	101.3312 %	119.2519 %	106.2287 %	108.4007 %
Concentration per Run 2	107.0452 %	101.8605 %	101.7533 %	120.0624 %	106.9311 %	108.5994 %
Concentration per Run 3	106.5731 %	101.9918 %	101.7301 %	119.8093 %	106.9109 %	108.9182 %
Recovery Percentage 1						
Concentration RSD	0.3 %	0.2 %	0.2 %	0.3 %	0.4 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: ICSA
Analysis started at: 6/16/2024 7:00:05 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	495.9778 ppm	-0.0030 ppm	-0.0033 ppm	0.0024 ppm	-0.0001 ppm	464.4168 ppm
Concentration per Run 1	0.0005 ppm	505.1869 ppm	-0.0024 ppm	-0.0022 ppm	0.0027 ppm	0.0000 ppm	472.8471 ppm
Concentration per Run 2	0.0009 ppm	491.5803 ppm	-0.0044 ppm	-0.0037 ppm	0.0024 ppm	-0.0001 ppm	459.2304 ppm
Concentration per Run 3	0.0009 ppm	491.1664 ppm	-0.0021 ppm	-0.0039 ppm	0.0022 ppm	-0.0001 ppm	461.1729 ppm
Recovery Percentage 1	10.886 %	495,977.836 %	-59.835 %	-10.851 %	24.284 %	-1.191 %	464,416.789 %
Concentration RSD	33.1 %	1.6 %	41.8 %	28.7 %	9.4 %	79.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	0.0002 ppm	0.0004 ppm	0.0031 ppm	187.4320 ppm	-0.1405 ppm	490.2970 ppm
Concentration per Run 1	0.0024 ppm	-0.0001 ppm	0.0004 ppm	0.0031 ppm	190.2529 ppm	-0.1261 ppm	490.2213 ppm
Concentration per Run 2	0.0025 ppm	0.0001 ppm	0.0006 ppm	0.0032 ppm	186.3114 ppm	-0.1614 ppm	490.6191 ppm
Concentration per Run 3	0.0023 ppm	0.0004 ppm	0.0002 ppm	0.0031 ppm	185.7317 ppm	-0.1340 ppm	490.0505 ppm
Recovery Percentage 1	60.135 %	0.767 %	3.974 %	31.277 %	374,863.981 %	-5.621 %	490,296.997 %
Concentration RSD	4.2 %	149.6 %	55.8 %	2.4 %	1.3 %	13.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	-0.0016 ppm	0.0259 ppm	-0.0084 ppm	-0.0136 ppm	0.0128 ppm	0.0091 ppm
Concentration per Run 1	-0.0002 ppm	-0.0017 ppm	0.0249 ppm	-0.0083 ppm	-0.0158 ppm	0.0113 ppm	0.0101 ppm
Concentration per Run 2	0.0006 ppm	-0.0016 ppm	0.0288 ppm	-0.0086 ppm	-0.0114 ppm	0.0139 ppm	0.0068 ppm
Concentration per Run 3	-0.0002 ppm	-0.0016 ppm	0.0240 ppm	-0.0083 ppm	-0.0137 ppm	0.0132 ppm	0.0103 ppm
Recovery Percentage 1	0.248 %	-3.296 %	1.295 %	-33.686 %	-136.295 %	25.563 %	90.643 %
Concentration RSD	1,834.2 %	1.9 %	9.7 %	1.8 %	16.2 %	10.5 %	21.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0190 ppm	-0.0002 ppm	0.0044 ppm	0.0052 ppm	0.0016 ppm	0.0004 ppm	-0.0013 ppm
Concentration per Run 1	0.0190 ppm	0.0010 ppm	0.0046 ppm	0.0057 ppm	0.0023 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 2	0.0177 ppm	-0.0005 ppm	0.0044 ppm	0.0048 ppm	0.0016 ppm	0.0002 ppm	-0.0013 ppm
Concentration per Run 3	0.0203 ppm	-0.0010 ppm	0.0043 ppm	0.0051 ppm	0.0010 ppm	0.0006 ppm	-0.0012 ppm
Recovery Percentage 1	3.794 %	-0.334 %	44.276 %	51.860 %	8.103 %	3.550 %	-25.163 %
Concentration RSD	6.8 %	615.5 %	3.5 %	9.6 %	41.4 %	57.2 %	7.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2790 %	90.2701 %	89.7805 %	119.9757 %	88.2373 %	99.3003 %
Concentration per Run 1	98.7467 %	90.3164 %	90.0201 %	120.1619 %	88.1558 %	99.4230 %
Concentration per Run 2	100.5390 %	90.1933 %	89.7597 %	119.7752 %	88.3048 %	99.4495 %
Concentration per Run 3	101.5511 %	90.3007 %	89.5616 %	119.9901 %	88.2513 %	99.0285 %
Recovery Percentage 1						
Concentration RSD	1.4 %	0.1 %	0.3 %	0.2 %	0.1 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: SIC Multi (Fe Carryover)
Analysis started at: 6/16/2024 7:06:40 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0868 ppm	-0.0030 ppm	0.0038 ppm	0.0004 ppm	-0.0009 ppm	0.0420 ppm
Concentration per Run 1	-0.0004 ppm	0.1358 ppm	-0.0032 ppm	0.0039 ppm	0.0003 ppm	-0.0011 ppm	0.0982 ppm
Concentration per Run 2	-0.0011 ppm	0.0844 ppm	-0.0034 ppm	0.0041 ppm	0.0004 ppm	-0.0009 ppm	0.0216 ppm
Concentration per Run 3	0.0000 ppm	0.0401 ppm	-0.0022 ppm	0.0035 ppm	0.0004 ppm	-0.0009 ppm	0.0062 ppm
Recovery Percentage 1	-6.725 %	86.783 %	-59.055 %	12.743 %	3.636 %	-18.848 %	42.020 %
Concentration RSD	116.9 %	55.2 %	21.2 %	6.9 %	16.5 %	11.3 %	117.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0006 ppm	0.0081 ppm	20.3128 ppm	-0.0030 ppm	0.0522 ppm	-0.2398 ppm	-0.0297 ppm
Concentration per Run 1	-0.0006 ppm	0.0081 ppm	20.2124 ppm	-0.0028 ppm	0.0757 ppm	-0.2729 ppm	-0.0300 ppm
Concentration per Run 2	-0.0007 ppm	0.0083 ppm	20.3045 ppm	-0.0029 ppm	0.0462 ppm	-0.1935 ppm	-0.0269 ppm
Concentration per Run 3	-0.0006 ppm	0.0080 ppm	20.4213 ppm	-0.0034 ppm	0.0349 ppm	-0.2531 ppm	-0.0322 ppm
Recovery Percentage 1	-15.234 %	40.628 %	203,127.502 %	-30.254 %	104.463 %	-9.592 %	-29.684 %
Concentration RSD	7.3 %	2.2 %	0.5 %	10.9 %	40.3 %	17.2 %	9.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.0203 ppm	0.0015 ppm	-0.0197 ppm	0.0000 ppm	0.0033 ppm	0.0489 ppm	0.0047 ppm
Concentration per Run 1	19.9706 ppm	0.0016 ppm	-0.0271 ppm	0.0001 ppm	0.0037 ppm	0.0503 ppm	0.0042 ppm
Concentration per Run 2	20.1258 ppm	0.0015 ppm	-0.0170 ppm	0.0001 ppm	0.0042 ppm	0.0491 ppm	0.0050 ppm
Concentration per Run 3	19.9645 ppm	0.0014 ppm	-0.0149 ppm	-0.0001 ppm	0.0021 ppm	0.0471 ppm	0.0050 ppm
Recovery Percentage 1	200,203.277 %	2.978 %	-0.983 %	0.161 %	33.217 %	97.712 %	47.290 %
Concentration RSD	0.5 %	6.8 %	33.2 %	264.6 %	34.1 %	3.3 %	9.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0105 ppm	-0.0027 ppm	0.0005 ppm	19.6894 ppm	0.0127 ppm	10.1041 ppm	-0.0058 ppm
Concentration per Run 1	-0.0095 ppm	-0.0026 ppm	0.0006 ppm	19.5570 ppm	0.0122 ppm	10.0862 ppm	-0.0059 ppm
Concentration per Run 2	-0.0105 ppm	-0.0023 ppm	0.0005 ppm	19.7239 ppm	0.0134 ppm	10.1665 ppm	-0.0060 ppm
Concentration per Run 3	-0.0115 ppm	-0.0032 ppm	0.0004 ppm	19.7873 ppm	0.0124 ppm	10.0596 ppm	-0.0057 ppm
Recovery Percentage 1	-2.100 %	-5.374 %	5.045 %	196,894.064 %	63.418 %	101,041.004 %	-116.909 %
Concentration RSD	9.7 %	16.7 %	18.1 %	0.6 %	5.2 %	0.6 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.9591 %	102.9912 %	103.3200 %	125.3625 %	109.6241 %	111.4264 %
Concentration per Run 1	106.5584 %	103.2516 %	103.4397 %	127.6909 %	109.6070 %	111.9140 %
Concentration per Run 2	105.2996 %	102.7340 %	103.4119 %	124.3086 %	109.7091 %	111.2909 %
Concentration per Run 3	106.0192 %	102.9881 %	103.1083 %	124.0881 %	109.5561 %	111.0744 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.3 %	0.2 %	1.6 %	0.1 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LDR Check
Analysis started at: 6/16/2024 7:13:25 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	0.0311 ppm	20.4750 ppm	18.9278 ppm	19.2577 ppm	4.9032 ppm	0.0138 ppm
Concentration per Run 1	0.0017 ppm	0.0169 ppm	20.5151 ppm	18.9592 ppm	19.3701 ppm	4.9199 ppm	0.0173 ppm
Concentration per Run 2	0.0012 ppm	0.0315 ppm	20.5013 ppm	18.9547 ppm	19.1662 ppm	4.8944 ppm	0.0082 ppm
Concentration per Run 3	0.0003 ppm	0.0449 ppm	20.4084 ppm	18.8694 ppm	19.2367 ppm	4.8952 ppm	0.0158 ppm
Recovery Percentage 1	0.000 %	0.000 %	102.375 %	94.639 %	96.288 %	98.063 %	0.000 %
Concentration RSD	64.8 %	44.9 %	0.3 %	0.3 %	0.5 %	0.3 %	35.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	4.8761 ppm	4.9317 ppm	0.0019 ppm	20.2330 ppm	0.0445 ppm	424.7950 ppm	-0.0444 ppm
Concentration per Run 1	4.8843 ppm	4.9371 ppm	0.0024 ppm	20.0609 ppm	0.0455 ppm	436.3338 ppm	-0.0427 ppm
Concentration per Run 2	4.8832 ppm	4.9386 ppm	0.0017 ppm	20.2773 ppm	0.0461 ppm	421.6574 ppm	-0.0488 ppm
Concentration per Run 3	4.8608 ppm	4.9193 ppm	0.0015 ppm	20.3608 ppm	0.0419 ppm	416.3939 ppm	-0.0417 ppm
Recovery Percentage 1	97.522 %	98.633 %	0.000 %	101.165 %	0.000 %	84.959 %	0.000 %
Concentration RSD	0.3 %	0.2 %	23.3 %	0.8 %	5.1 %	2.4 %	8.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0042 ppm	5.1504 ppm	377.7613 ppm	9.5498 ppm	47.9343 ppm	5.0700 ppm	5.3507 ppm
Concentration per Run 1	0.0045 ppm	5.1352 ppm	388.4602 ppm	9.5670 ppm	48.0097 ppm	5.0715 ppm	5.3480 ppm
Concentration per Run 2	0.0039 ppm	5.1621 ppm	374.6835 ppm	9.5663 ppm	48.0159 ppm	5.0761 ppm	5.3614 ppm
Concentration per Run 3	0.0043 ppm	5.1540 ppm	370.1402 ppm	9.5160 ppm	47.7773 ppm	5.0624 ppm	5.3428 ppm
Recovery Percentage 1	0.000 %	103.008 %	75.552 %	95.498 %	95.869 %	101.399 %	107.015 %
Concentration RSD	6.6 %	0.3 %	2.5 %	0.3 %	0.3 %	0.1 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	21.7503 ppm	7.4220 ppm	4.7021 ppm	0.0108 ppm	4.5894 ppm	-0.0017 ppm	19.1837 ppm
Concentration per Run 1	21.7804 ppm	7.4255 ppm	4.7492 ppm	0.0110 ppm	4.5973 ppm	-0.0011 ppm	19.2154 ppm
Concentration per Run 2	21.7804 ppm	7.4364 ppm	4.6805 ppm	0.0108 ppm	4.5954 ppm	-0.0018 ppm	19.2152 ppm
Concentration per Run 3	21.6900 ppm	7.4042 ppm	4.6766 ppm	0.0104 ppm	4.5755 ppm	-0.0023 ppm	19.1206 ppm
Recovery Percentage 1	108.751 %	74.220 %	94.041 %	0.000 %	91.788 %	0.000 %	95.919 %
Concentration RSD	0.2 %	0.2 %	0.9 %	2.8 %	0.3 %	33.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.1859 %	93.4138 %	85.1880 %	121.1018 %	99.3912 %	101.8870 %
Concentration per Run 1	103.9414 %	93.7875 %	85.2989 %	121.8084 %	99.3791 %	102.3117 %
Concentration per Run 2	104.0289 %	93.1772 %	85.0630 %	120.6560 %	99.2472 %	101.6938 %
Concentration per Run 3	104.5873 %	93.2767 %	85.2021 %	120.8410 %	99.5473 %	101.6555 %
Recovery Percentage 1						
Concentration RSD	0.3 %	0.4 %	0.1 %	0.5 %	0.2 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 10:16:25 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5067 ppm	0.4785 ppm	0.4945 ppm	0.4900 ppm	0.5036 ppm	0.5173 ppm	0.5050 ppm
Concentration per Run 1	0.5063 ppm	0.4808 ppm	0.4933 ppm	0.4891 ppm	0.5180 ppm	0.5327 ppm	0.5127 ppm
Concentration per Run 2	0.5073 ppm	0.4783 ppm	0.4931 ppm	0.4912 ppm	0.5010 ppm	0.5137 ppm	0.5012 ppm
Concentration per Run 3	0.5064 ppm	0.4766 ppm	0.4970 ppm	0.4896 ppm	0.4918 ppm	0.5055 ppm	0.5010 ppm
Recovery Percentage 1	101.335 %	95.707 %	98.895 %	97.994 %	100.719 %	103.458 %	100.997 %
Concentration RSD	0.1 %	0.4 %	0.4 %	0.2 %	2.6 %	2.7 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5009 ppm	0.5057 ppm	0.5069 ppm	0.4902 ppm	0.5330 ppm	5.1271 ppm	0.5093 ppm
Concentration per Run 1	0.5006 ppm	0.5052 ppm	0.5067 ppm	0.4911 ppm	0.5519 ppm	5.3304 ppm	0.5056 ppm
Concentration per Run 2	0.5011 ppm	0.5062 ppm	0.5067 ppm	0.4904 ppm	0.5258 ppm	5.0704 ppm	0.5115 ppm
Concentration per Run 3	0.5010 ppm	0.5058 ppm	0.5074 ppm	0.4891 ppm	0.5213 ppm	4.9806 ppm	0.5108 ppm
Recovery Percentage 1	100.176 %	101.150 %	101.389 %	98.041 %	106.598 %	102.543 %	101.859 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.2 %	3.1 %	3.5 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5123 ppm	0.4912 ppm	10.2796 ppm	0.5092 ppm	0.5071 ppm	0.4999 ppm	0.4930 ppm
Concentration per Run 1	0.5294 ppm	0.4884 ppm	10.5802 ppm	0.5091 ppm	0.5080 ppm	0.4991 ppm	0.4899 ppm
Concentration per Run 2	0.5093 ppm	0.4917 ppm	10.2063 ppm	0.5096 ppm	0.5068 ppm	0.5008 ppm	0.4942 ppm
Concentration per Run 3	0.4982 ppm	0.4936 ppm	10.0522 ppm	0.5088 ppm	0.5064 ppm	0.4998 ppm	0.4950 ppm
Recovery Percentage 1	102.456 %	98.245 %	102.796 %	101.834 %	101.412 %	99.977 %	98.605 %
Concentration RSD	3.1 %	0.5 %	2.6 %	0.1 %	0.2 %	0.2 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5220 ppm	0.5013 ppm	0.4969 ppm	0.5108 ppm	0.5019 ppm	0.4998 ppm	0.5079 ppm
Concentration per Run 1	5.5199 ppm	0.4998 ppm	0.5117 ppm	0.5106 ppm	0.5019 ppm	0.5000 ppm	0.5077 ppm
Concentration per Run 2	5.5222 ppm	0.5014 ppm	0.4931 ppm	0.5111 ppm	0.5018 ppm	0.5005 ppm	0.5081 ppm
Concentration per Run 3	5.5238 ppm	0.5027 ppm	0.4857 ppm	0.5107 ppm	0.5021 ppm	0.4988 ppm	0.5080 ppm
Recovery Percentage 1	105.181 %	100.258 %	99.373 %	102.163 %	100.390 %	99.954 %	101.587 %
Concentration RSD	0.0 %	0.3 %	2.7 %	0.1 %	0.0 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.4658 %	102.5383 %	102.9059 %	119.9492 %	108.3637 %	109.6783 %
Concentration per Run 1	98.7813 %	102.6502 %	103.2435 %	118.8743 %	108.5622 %	109.8760 %
Concentration per Run 2	102.3153 %	102.6034 %	102.7278 %	120.7454 %	108.1188 %	109.7088 %
Concentration per Run 3	103.3007 %	102.3612 %	102.7464 %	120.2279 %	108.4100 %	109.4500 %
Recovery Percentage 1						
Concentration RSD	2.3 %	0.2 %	0.3 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 10:22:29 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0173 ppm	-0.0004 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0103 ppm
Concentration per Run 1	-0.0002 ppm	-0.0178 ppm	-0.0001 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm	0.0086 ppm
Concentration per Run 2	0.0000 ppm	-0.0222 ppm	-0.0014 ppm	0.0009 ppm	0.0004 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 3	0.0003 ppm	-0.0119 ppm	0.0001 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0104 ppm
Recovery Percentage 1	0.225 %	-17.310 %	-8.835 %	3.794 %	2.918 %	-0.101 %	10.319 %
Concentration RSD	1,616.8 %	30.0 %	180.9 %	18.1 %	68.7 %	1,069.9 %	16.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0010 ppm	0.0050 ppm	-0.1892 ppm	-0.0027 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0013 ppm	0.0063 ppm	-0.1857 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	-0.0008 ppm	0.0045 ppm	-0.1541 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0010 ppm	0.0041 ppm	-0.2277 ppm	-0.0043 ppm
Recovery Percentage 1	-0.692 %	-0.870 %	3.663 %	-10.298 %	9.938 %	-7.567 %	-2.716 %
Concentration RSD	115.1 %	69.4 %	112.1 %	24.7 %	23.3 %	19.5 %	77.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0018 ppm	-0.0216 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0020 ppm	-0.0175 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 2	-0.0006 ppm	0.0018 ppm	-0.0210 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	-0.0013 ppm
Concentration per Run 3	0.0003 ppm	0.0015 ppm	-0.0262 ppm	-0.0001 ppm	0.0009 ppm	0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	-0.270 %	3.573 %	-1.078 %	0.204 %	2.694 %	-0.019 %	-1.316 %
Concentration RSD	1,742.1 %	16.2 %	20.5 %	258.1 %	229.0 %	10,299.3 %	870.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0018 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0022 ppm
Concentration per Run 1	0.0009 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	-0.0022 ppm
Concentration per Run 2	0.0024 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0023 ppm
Concentration per Run 3	0.0020 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0002 ppm	-0.0022 ppm
Recovery Percentage 1	0.354 %	-0.679 %	1.288 %	1.977 %	1.696 %	2.266 %	-44.579 %
Concentration RSD	45.7 %	90.0 %	87.4 %	134.7 %	156.3 %	33.3 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.9567 %	104.4711 %	104.8701 %	115.4652 %	107.2550 %	108.5648 %
Concentration per Run 1	109.8961 %	104.6158 %	104.8578 %	114.7988 %	106.9794 %	108.4703 %
Concentration per Run 2	106.6228 %	104.5543 %	104.6909 %	115.1978 %	107.1469 %	108.7570 %
Concentration per Run 3	107.3513 %	104.2432 %	105.0616 %	116.3989 %	107.6388 %	108.4670 %
Recovery Percentage 1						
Concentration RSD	1.6 %	0.2 %	0.2 %	0.7 %	0.3 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: xLLOQ RL 0.005 Zn
Analysis started at: 6/16/2024 10:28:51 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0056 ppm	-0.0061 ppm	0.0049 ppm	0.0063 ppm	0.0053 ppm	0.0052 ppm	0.0130 ppm
Concentration per Run 1	0.0053 ppm	-0.0130 ppm	0.0057 ppm	0.0065 ppm	0.0053 ppm	0.0051 ppm	0.0070 ppm
Concentration per Run 2	0.0059 ppm	-0.0030 ppm	0.0050 ppm	0.0061 ppm	0.0056 ppm	0.0054 ppm	0.0149 ppm
Concentration per Run 3	0.0057 ppm	-0.0024 ppm	0.0039 ppm	0.0064 ppm	0.0052 ppm	0.0050 ppm	0.0172 ppm
Recovery Percentage 1	112.522 %	-122.299 %	97.355 %	126.564 %	106.915 %	103.220 %	0.000 %
Concentration RSD	5.2 %	97.5 %	18.6 %	2.8 %	3.6 %	3.4 %	41.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0053 ppm	0.0052 ppm	0.0053 ppm	0.0046 ppm	0.0128 ppm	-0.1352 ppm	0.0041 ppm
Concentration per Run 1	0.0054 ppm	0.0052 ppm	0.0051 ppm	0.0049 ppm	0.0124 ppm	-0.1103 ppm	0.0060 ppm
Concentration per Run 2	0.0053 ppm	0.0052 ppm	0.0058 ppm	0.0041 ppm	0.0121 ppm	-0.1540 ppm	0.0042 ppm
Concentration per Run 3	0.0053 ppm	0.0051 ppm	0.0049 ppm	0.0047 ppm	0.0138 ppm	-0.1414 ppm	0.0021 ppm
Recovery Percentage 1	106.925 %	103.252 %	105.881 %	91.028 %	255.133 %	0.000 %	0.000 %
Concentration RSD	0.7 %	1.2 %	8.7 %	8.4 %	7.4 %	16.6 %	48.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0058 ppm	0.0056 ppm	0.0858 ppm	0.0056 ppm	0.0054 ppm	0.0052 ppm	0.0056 ppm
Concentration per Run 1	0.0051 ppm	0.0056 ppm	0.0947 ppm	0.0060 ppm	0.0062 ppm	0.0051 ppm	0.0053 ppm
Concentration per Run 2	0.0061 ppm	0.0059 ppm	0.0792 ppm	0.0053 ppm	0.0051 ppm	0.0049 ppm	0.0064 ppm
Concentration per Run 3	0.0064 ppm	0.0054 ppm	0.0835 ppm	0.0055 ppm	0.0049 ppm	0.0057 ppm	0.0052 ppm
Recovery Percentage 1	116.968 %	112.874 %	0.000 %	111.539 %	108.158 %	104.521 %	112.762 %
Concentration RSD	11.9 %	4.2 %	9.3 %	6.9 %	12.4 %	8.4 %	11.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0591 ppm	0.0048 ppm	0.0050 ppm	0.0053 ppm	0.0056 ppm	0.0054 ppm	0.0089 ppm
Concentration per Run 1	0.0609 ppm	0.0051 ppm	0.0048 ppm	0.0053 ppm	0.0062 ppm	0.0054 ppm	0.0099 ppm
Concentration per Run 2	0.0578 ppm	0.0048 ppm	0.0051 ppm	0.0053 ppm	0.0055 ppm	0.0055 ppm	0.0088 ppm
Concentration per Run 3	0.0585 ppm	0.0046 ppm	0.0052 ppm	0.0052 ppm	0.0051 ppm	0.0054 ppm	0.0080 ppm
Recovery Percentage 1	1,181.131 %	96.315 %	100.051 %	105.490 %	111.742 %	108.639 %	177.811 %
Concentration RSD	2.8 %	5.2 %	3.7 %	0.9 %	10.1 %	1.1 %	11.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.5013 %	103.4134 %	103.7783 %	109.7450 %	106.4681 %	107.7999 %
Concentration per Run 1	105.4066 %	103.1371 %	103.4216 %	108.7506 %	105.8202 %	107.6082 %
Concentration per Run 2	102.9925 %	103.5688 %	103.6976 %	108.9928 %	106.5948 %	107.9254 %
Concentration per Run 3	105.1047 %	103.5344 %	104.2157 %	111.4915 %	106.9892 %	107.8662 %
Recovery Percentage 1						
Concentration RSD	1.3 %	0.2 %	0.4 %	1.4 %	0.6 %	0.2 %

LabBook: WG1934905_06162024T5.imexp

Sample: xLLOQ RL 0.01 Zn
Analysis started at: 6/16/2024 10:35:09 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0103 ppm	0.2307 ppm	0.0101 ppm	0.0107 ppm	0.0099 ppm	0.0096 ppm	0.1087 ppm
Concentration per Run 1	0.0102 ppm	0.2151 ppm	0.0097 ppm	0.0106 ppm	0.0097 ppm	0.0093 ppm	0.1043 ppm
Concentration per Run 2	0.0102 ppm	0.2371 ppm	0.0106 ppm	0.0105 ppm	0.0102 ppm	0.0097 ppm	0.1086 ppm
Concentration per Run 3	0.0106 ppm	0.2397 ppm	0.0099 ppm	0.0109 ppm	0.0096 ppm	0.0098 ppm	0.1132 ppm
Recovery Percentage 1	0.000 %	0.000 %	100.840 %	106.774 %	98.651 %	0.000 %	0.000 %
Concentration RSD	2.4 %	5.9 %	4.6 %	1.6 %	3.1 %	2.6 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0104 ppm	0.0104 ppm	0.0109 ppm	0.0093 ppm	0.2525 ppm	0.2078 ppm	0.1050 ppm
Concentration per Run 1	0.0104 ppm	0.0103 ppm	0.0107 ppm	0.0089 ppm	0.2473 ppm	0.2061 ppm	0.1049 ppm
Concentration per Run 2	0.0104 ppm	0.0105 ppm	0.0108 ppm	0.0096 ppm	0.2528 ppm	0.2290 ppm	0.1062 ppm
Concentration per Run 3	0.0103 ppm	0.0106 ppm	0.0113 ppm	0.0094 ppm	0.2573 ppm	0.1882 ppm	0.1038 ppm
Recovery Percentage 1	0.000 %	104.331 %	109.298 %	92.725 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.3 %	1.3 %	3.2 %	4.1 %	2.0 %	9.8 %	1.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0101 ppm	0.0105 ppm	0.2246 ppm	0.0103 ppm	0.0105 ppm	0.0095 ppm	0.0111 ppm
Concentration per Run 1	0.0103 ppm	0.0105 ppm	0.2119 ppm	0.0105 ppm	0.0097 ppm	0.0091 ppm	0.0086 ppm
Concentration per Run 2	0.0103 ppm	0.0104 ppm	0.2316 ppm	0.0104 ppm	0.0116 ppm	0.0102 ppm	0.0125 ppm
Concentration per Run 3	0.0098 ppm	0.0104 ppm	0.2303 ppm	0.0100 ppm	0.0103 ppm	0.0093 ppm	0.0124 ppm
Recovery Percentage 1	101.313 %	104.552 %	0.000 %	103.052 %	105.461 %	0.000 %	111.372 %
Concentration RSD	2.7 %	0.3 %	4.9 %	2.6 %	8.9 %	5.9 %	19.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0997 ppm	0.0106 ppm	0.0095 ppm	0.0104 ppm	0.0108 ppm	0.0104 ppm	0.0087 ppm
Concentration per Run 1	0.0994 ppm	0.0106 ppm	0.0093 ppm	0.0103 ppm	0.0106 ppm	0.0103 ppm	0.0087 ppm
Concentration per Run 2	0.1004 ppm	0.0104 ppm	0.0094 ppm	0.0109 ppm	0.0107 ppm	0.0103 ppm	0.0088 ppm
Concentration per Run 3	0.0994 ppm	0.0107 ppm	0.0098 ppm	0.0101 ppm	0.0112 ppm	0.0106 ppm	0.0087 ppm
Recovery Percentage 1	0.000 %	105.603 %	94.855 %	104.454 %	107.996 %	104.003 %	87.330 %
Concentration RSD	0.6 %	1.7 %	2.5 %	3.7 %	2.8 %	1.7 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.3237 %	103.7423 %	103.9285 %	116.9093 %	108.0235 %	109.0386 %
Concentration per Run 1	110.1559 %	103.4024 %	103.9543 %	116.8273 %	107.9114 %	108.5588 %
Concentration per Run 2	107.9917 %	103.8271 %	103.9295 %	117.1126 %	107.9121 %	109.0284 %
Concentration per Run 3	106.8234 %	103.9975 %	103.9019 %	116.7881 %	108.2472 %	109.5286 %
Recovery Percentage 1						
Concentration RSD	1.6 %	0.3 %	0.0 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LLOQ RL 0.005 Zn
Analysis started at: 6/16/2024 10:41:24 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	**0.0970 ppm**	0.0040 ppm	0.0057 ppm	0.0050 ppm	0.0047 ppm	0.0604 ppm
Concentration per Run 1	0.0052 ppm	0.1052 ppm	0.0055 ppm	0.0055 ppm	0.0049 ppm	0.0047 ppm	0.0654 ppm
Concentration per Run 2	0.0050 ppm	0.0922 ppm	0.0032 ppm	0.0059 ppm	0.0050 ppm	0.0047 ppm	0.0579 ppm
Concentration per Run 3	0.0057 ppm	0.0936 ppm	0.0034 ppm	0.0056 ppm	0.0051 ppm	0.0048 ppm	0.0579 ppm
Recovery Percentage 1	106.558 %	1,939.734 %	80.858 %	113.953 %	100.547 %	94.158 %	0.000 %
Concentration RSD	7.3 %	**7.3 %**	30.9 %	3.5 %	2.1 %	1.3 %	7.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0052 ppm	0.0049 ppm	0.0056 ppm	0.0049 ppm	**0.1282 ppm**	-0.0282 ppm	0.0505 ppm
Concentration per Run 1	0.0052 ppm	0.0051 ppm	0.0056 ppm	0.0049 ppm	0.1258 ppm	-0.0355 ppm	0.0503 ppm
Concentration per Run 2	0.0052 ppm	0.0050 ppm	0.0059 ppm	0.0050 ppm	0.1306 ppm	-0.0177 ppm	0.0515 ppm
Concentration per Run 3	0.0051 ppm	0.0048 ppm	0.0053 ppm	0.0048 ppm	0.1283 ppm	-0.0316 ppm	0.0499 ppm
Recovery Percentage 1	103.438 %	98.889 %	111.943 %	98.743 %	2,564.506 %	0.000 %	0.000 %
Concentration RSD	0.4 %	2.8 %	5.4 %	2.1 %	**1.9 %**	33.1 %	1.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0057 ppm	0.0050 ppm	0.1146 ppm	0.0052 ppm	0.0059 ppm	0.0047 ppm	0.0040 ppm
Concentration per Run 1	0.0058 ppm	0.0050 ppm	0.1176 ppm	0.0054 ppm	0.0052 ppm	0.0037 ppm	0.0042 ppm
Concentration per Run 2	0.0057 ppm	0.0051 ppm	0.1118 ppm	0.0049 ppm	0.0074 ppm	0.0051 ppm	0.0031 ppm
Concentration per Run 3	0.0057 ppm	0.0050 ppm	0.1143 ppm	0.0051 ppm	0.0050 ppm	0.0053 ppm	0.0047 ppm
Recovery Percentage 1	114.838 %	100.551 %	0.000 %	103.258 %	117.211 %	94.620 %	80.225 %
Concentration RSD	1.2 %	1.3 %	2.6 %	5.3 %	23.0 %	18.3 %	19.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	**0.0504 ppm**	0.0048 ppm	0.0047 ppm	0.0051 ppm	0.0058 ppm	0.0053 ppm	0.0053 ppm
Concentration per Run 1	0.0516 ppm	0.0048 ppm	0.0047 ppm	0.0049 ppm	0.0051 ppm	0.0051 ppm	0.0054 ppm
Concentration per Run 2	0.0498 ppm	0.0047 ppm	0.0049 ppm	0.0051 ppm	0.0064 ppm	0.0056 ppm	0.0053 ppm
Concentration per Run 3	0.0497 ppm	0.0048 ppm	0.0047 ppm	0.0054 ppm	0.0058 ppm	0.0052 ppm	0.0053 ppm
Recovery Percentage 1	1,007.311 %	95.528 %	94.972 %	102.887 %	115.418 %	106.148 %	106.902 %
Concentration RSD	**2.1 %**	2.0 %	2.6 %	4.9 %	11.2 %	5.0 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.6571 %	104.5093 %	104.4925 %	114.6881 %	108.3116 %	109.6238 %
Concentration per Run 1	110.0461 %	104.5421 %	104.4244 %	113.8840 %	107.9210 %	109.4475 %
Concentration per Run 2	107.7389 %	104.8172 %	104.6030 %	114.7370 %	108.4043 %	109.8279 %
Concentration per Run 3	108.1863 %	104.1686 %	104.4502 %	115.4432 %	108.6095 %	109.5960 %
Recovery Percentage 1						
Concentration RSD	1.1 %	0.3 %	0.1 %	0.7 %	0.3 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LLOQ RL 0.1 Al
Analysis started at: 6/16/2024 10:54:13 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0817 ppm	-0.0009 ppm	0.0010 ppm	0.0000 ppm	-0.0001 ppm	0.1047 ppm
Concentration per Run 1	0.0006 ppm	0.0927 ppm	0.0003 ppm	0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.1086 ppm
Concentration per Run 2	0.0001 ppm	0.0740 ppm	-0.0002 ppm	0.0010 ppm	0.0001 ppm	-0.0002 ppm	0.1058 ppm
Concentration per Run 3	-0.0005 ppm	0.0784 ppm	-0.0028 ppm	0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0997 ppm
Recovery Percentage 1	0.000 %	81.718 %	0.000 %	0.000 %	0.000 %	0.000 %	104.673 %
Concentration RSD	845.9 %	11.9 %	177.6 %	10.0 %	424.1 %	196.6 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0003 ppm	-0.0011 ppm	0.0045 ppm	-0.1955 ppm	0.1020 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0011 ppm	0.0064 ppm	-0.2052 ppm	0.0992 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0012 ppm	0.0054 ppm	-0.1917 ppm	0.1029 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0003 ppm	-0.0010 ppm	0.0018 ppm	-0.1896 ppm	0.1038 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	101.955 %
Concentration RSD	81.2 %	21.9 %	54.1 %	9.8 %	53.9 %	4.3 %	2.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0000 ppm	-0.0259 ppm	-0.0001 ppm	0.0005 ppm	-0.0009 ppm	0.0007 ppm
Concentration per Run 1	0.0006 ppm	0.0001 ppm	-0.0153 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0005 ppm	-0.0002 ppm	-0.0283 ppm	-0.0001 ppm	0.0007 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0340 ppm	0.0000 ppm	0.0007 ppm	-0.0014 ppm	0.0008 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	38.6 %	1,049.7 %	37.1 %	146.5 %	68.1 %	84.4 %	113.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0042 ppm	-0.0015 ppm	0.0000 ppm	0.0002 ppm	-0.0011 ppm	0.0002 ppm	-0.0015 ppm
Concentration per Run 1	0.0036 ppm	-0.0017 ppm	0.0001 ppm	0.0002 ppm	-0.0018 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 2	0.0038 ppm	-0.0015 ppm	-0.0002 ppm	0.0003 ppm	-0.0014 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 3	0.0052 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0017 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	20.1 %	10.9 %	2,790.9 %	108.1 %	73.5 %	88.2 %	22.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.3163 %	105.8629 %	106.2867 %	114.0051 %	107.8963 %	109.8766 %
Concentration per Run 1	104.1938 %	105.8188 %	106.1067 %	110.5505 %	107.4628 %	109.8610 %
Concentration per Run 2	106.4501 %	105.8294 %	106.4685 %	114.8798 %	108.2077 %	109.8392 %
Concentration per Run 3	108.3050 %	105.9406 %	106.2850 %	116.5849 %	108.0183 %	109.9295 %
Recovery Percentage 1						
Concentration RSD	1.9 %	0.1 %	0.2 %	2.7 %	0.4 %	0.0 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: IEC 500 Al +Pb
Analysis started at: 6/16/2024 11:00:34 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	475.9104 ppm	0.0017 ppm	-0.0049 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	476.4780 ppm	0.0011 ppm	-0.0044 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0006 ppm	477.6634 ppm	-0.0002 ppm	-0.0057 ppm	-0.0003 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	-0.0004 ppm	473.5898 ppm	0.0043 ppm	-0.0047 ppm	0.0000 ppm	0.0001 ppm	0.0019 ppm
Recovery Percentage 1	-4.439 %	475,910.396 %	34.855 %	-16.408 %	0.023 %	0.975 %	0.958 %
Concentration RSD	112.9 %	0.4 %	132.7 %	13.5 %	11,421.5 %	44.8 %	89.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0011 ppm	-0.0002 ppm	0.0008 ppm	-0.0006 ppm	-0.0528 ppm	-0.1943 ppm	-0.0499 ppm
Concentration per Run 1	-0.0011 ppm	-0.0004 ppm	0.0007 ppm	-0.0008 ppm	-0.0528 ppm	-0.1869 ppm	-0.0476 ppm
Concentration per Run 2	-0.0011 ppm	0.0001 ppm	0.0006 ppm	-0.0006 ppm	-0.0533 ppm	-0.2228 ppm	-0.0504 ppm
Concentration per Run 3	-0.0010 ppm	-0.0001 ppm	0.0010 ppm	-0.0004 ppm	-0.0524 ppm	-0.1732 ppm	-0.0518 ppm
Recovery Percentage 1	-26.947 %	-0.828 %	7.657 %	-5.898 %	-105.681 %	-7.772 %	-49.948 %
Concentration RSD	3.9 %	153.7 %	24.7 %	36.5 %	0.8 %	13.2 %	4.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0162 ppm	0.0013 ppm	0.0000 ppm	0.0070 ppm	0.0037 ppm
Concentration per Run 1	-0.0006 ppm	-0.0004 ppm	-0.0174 ppm	0.0015 ppm	0.0002 ppm	0.0058 ppm	0.0073 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0188 ppm	0.0014 ppm	-0.0005 ppm	0.0070 ppm	-0.0004 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	-0.0123 ppm	0.0010 ppm	0.0003 ppm	0.0082 ppm	0.0042 ppm
Recovery Percentage 1	-0.837 %	-0.427 %	-0.809 %	5.126 %	-0.070 %	13.973 %	37.227 %
Concentration RSD	525.8 %	147.0 %	21.3 %	17.8 %	6,225.2 %	16.8 %	103.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0115 ppm	-0.0015 ppm	-0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0003 ppm	-0.0015 ppm
Concentration per Run 1	0.0113 ppm	-0.0016 ppm	-0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0004 ppm	-0.0015 ppm
Concentration per Run 2	0.0110 ppm	-0.0012 ppm	0.0001 ppm	-0.0002 ppm	-0.0023 ppm	0.0003 ppm	-0.0016 ppm
Concentration per Run 3	0.0123 ppm	-0.0016 ppm	-0.0004 ppm	0.0004 ppm	-0.0006 ppm	0.0003 ppm	-0.0014 ppm
Recovery Percentage 1	2.306 %	-2.972 %	-1.395 %	1.572 %	-2.565 %	3.224 %	-30.470 %
Concentration RSD	5.6 %	14.7 %	175.2 %	188.5 %	351.4 %	23.3 %	7.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.5946 %	98.3960 %	102.8898 %	119.7735 %	103.2008 %	106.5234 %
Concentration per Run 1	106.0881 %	98.7254 %	102.8592 %	119.0903 %	102.8916 %	106.5775 %
Concentration per Run 2	106.6101 %	98.3283 %	102.9474 %	119.4350 %	103.3706 %	106.4946 %
Concentration per Run 3	107.0857 %	98.1343 %	102.8628 %	120.7951 %	103.3402 %	106.4981 %
Recovery Percentage 1						
Concentration RSD	0.5 %	0.3 %	0.0 %	0.8 %	0.3 %	0.0 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: IEC 200 Fe -As +Se (Al carryover)
Analysis started at: 6/16/2024 11:09:58 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	0.1497 ppm	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0009 ppm	0.2067 ppm	-0.0001 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0019 ppm
Concentration per Run 2	0.0008 ppm	0.1493 ppm	-0.0009 ppm	0.0013 ppm	0.0008 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	0.0013 ppm	0.0930 ppm	0.0010 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	14.223 %	149.709 %	0.041 %	3.302 %	3.956 %	-0.401 %	-0.542 %
Concentration RSD	27.1 %	38.0 %	47,178.9 %	24.4 %	88.4 %	184.6 %	326.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0031 ppm	-0.0004 ppm	0.0001 ppm	-0.0004 ppm	193.3011 ppm	-0.1997 ppm	-0.0004 ppm
Concentration per Run 1	0.0031 ppm	-0.0006 ppm	0.0001 ppm	-0.0002 ppm	189.3750 ppm	-0.1924 ppm	-0.0009 ppm
Concentration per Run 2	0.0032 ppm	-0.0003 ppm	0.0004 ppm	-0.0005 ppm	196.6076 ppm	-0.2048 ppm	-0.0027 ppm
Concentration per Run 3	0.0031 ppm	-0.0004 ppm	-0.0001 ppm	-0.0004 ppm	193.9207 ppm	-0.2021 ppm	0.0025 ppm
Recovery Percentage 1	78.692 %	-2.094 %	1.459 %	-3.930 %	386,602.177 %	-7.990 %	-0.361 %
Concentration RSD	1.4 %	29.7 %	196.8 %	44.8 %	1.9 %	3.3 %	719.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	-0.0018 ppm	-0.0260 ppm	-0.0099 ppm	0.0027 ppm	0.0045 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	-0.0020 ppm	-0.0260 ppm	-0.0099 ppm	0.0030 ppm	0.0055 ppm	0.0013 ppm
Concentration per Run 2	-0.0008 ppm	-0.0016 ppm	-0.0224 ppm	-0.0097 ppm	0.0019 ppm	0.0027 ppm	0.0006 ppm
Concentration per Run 3	0.0002 ppm	-0.0018 ppm	-0.0295 ppm	-0.0102 ppm	0.0031 ppm	0.0052 ppm	-0.0006 ppm
Recovery Percentage 1	-1.424 %	-3.626 %	-1.299 %	-39.702 %	26.706 %	8.944 %	4.435 %
Concentration RSD	371.5 %	9.5 %	13.6 %	2.2 %	25.4 %	34.3 %	214.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0041 ppm	-0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0015 ppm	0.0008 ppm	-0.0023 ppm
Concentration per Run 1	0.0047 ppm	-0.0009 ppm	0.0001 ppm	-0.0006 ppm	0.0014 ppm	0.0007 ppm	-0.0023 ppm
Concentration per Run 2	0.0048 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0019 ppm	0.0006 ppm	-0.0024 ppm
Concentration per Run 3	0.0029 ppm	-0.0016 ppm	0.0003 ppm	0.0003 ppm	0.0012 ppm	0.0010 ppm	-0.0023 ppm
Recovery Percentage 1	0.826 %	-1.729 %	1.538 %	1.213 %	7.434 %	7.584 %	-46.964 %
Concentration RSD	26.1 %	83.9 %	97.7 %	507.5 %	24.3 %	25.0 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.4097 %	103.6366 %	103.6598 %	129.1661 %	109.7436 %	113.3633 %
Concentration per Run 1	107.5511 %	103.6759 %	103.7875 %	133.5497 %	110.0882 %	113.7772 %
Concentration per Run 2	103.6162 %	103.7243 %	103.5313 %	127.7606 %	109.4795 %	113.1825 %
Concentration per Run 3	105.0618 %	103.5097 %	103.6606 %	126.1880 %	109.6630 %	113.1302 %
Recovery Percentage 1						
Concentration RSD	1.9 %	0.1 %	0.1 %	3.0 %	0.3 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: xIEC 10 V +Be
Analysis started at: 6/16/2024 11:25:48 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0156 ppm	-0.0015 ppm	0.0004 ppm	0.0005 ppm	-0.0005 ppm	-0.0612 ppm
Concentration per Run 1	-0.0004 ppm	-0.0160 ppm	-0.0016 ppm	0.0002 ppm	0.0005 ppm	-0.0005 ppm	-0.0638 ppm
Concentration per Run 2	-0.0001 ppm	-0.0150 ppm	-0.0017 ppm	0.0005 ppm	0.0006 ppm	-0.0005 ppm	-0.0574 ppm
Concentration per Run 3	-0.0005 ppm	-0.0160 ppm	-0.0011 ppm	0.0004 ppm	0.0004 ppm	-0.0006 ppm	-0.0624 ppm
Recovery Percentage 1	-4.885 %	-15.646 %	-29.169 %	1.363 %	4.820 %	-10.832 %	-61.205 %
Concentration RSD	61.7 %	3.8 %	22.1 %	39.1 %	18.3 %	3.0 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0008 ppm	0.0242 ppm	-0.2246 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0007 ppm	0.0263 ppm	-0.1938 ppm	0.0028 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0234 ppm	-0.2549 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0008 ppm	0.0230 ppm	-0.2251 ppm	-0.0001 ppm
Recovery Percentage 1	-0.863 %	-0.669 %	4.881 %	-7.571 %	48.419 %	-8.985 %	1.138 %
Concentration RSD	31.4 %	79.7 %	47.4 %	1.6 %	7.5 %	13.6 %	128.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0010 ppm	-0.0249 ppm	0.0002 ppm	-0.0003 ppm	0.0138 ppm	0.0021 ppm
Concentration per Run 1	0.0005 ppm	0.0011 ppm	-0.0306 ppm	0.0002 ppm	0.0002 ppm	0.0125 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	-0.0234 ppm	0.0004 ppm	-0.0010 ppm	0.0143 ppm	0.0031 ppm
Concentration per Run 3	0.0005 ppm	0.0010 ppm	-0.0205 ppm	0.0001 ppm	0.0000 ppm	0.0146 ppm	0.0020 ppm
Recovery Percentage 1	3.695 %	2.094 %	-1.244 %	0.851 %	-2.925 %	27.667 %	21.297 %
Concentration RSD	64.4 %	8.6 %	20.9 %	80.3 %	223.9 %	8.1 %	43.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0134 ppm	11.1138 ppm	-0.0014 ppm
Concentration per Run 1	-0.0017 ppm	-0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0131 ppm	11.1853 ppm	-0.0015 ppm
Concentration per Run 2	-0.0027 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0134 ppm	11.1168 ppm	-0.0014 ppm
Concentration per Run 3	-0.0014 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0139 ppm	11.0394 ppm	-0.0015 ppm
Recovery Percentage 1	-0.384 %	-0.267 %	-0.190 %	-0.260 %	67.164 %	111,138.331 %	-28.796 %
Concentration RSD	34.4 %	346.6 %	678.2 %	675.0 %	3.0 %	0.7 %	3.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.4550 %	104.3568 %	105.1840 %	112.0898 %	110.0298 %	109.8993 %
Concentration per Run 1	102.7429 %	104.5021 %	105.2393 %	110.8766 %	109.5342 %	109.8547 %
Concentration per Run 2	102.0527 %	104.4463 %	105.2223 %	111.0301 %	110.1252 %	110.0595 %
Concentration per Run 3	105.5696 %	104.1220 %	105.0904 %	114.3627 %	110.4299 %	109.7838 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.2 %	0.1 %	1.8 %	0.4 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: SIC 20 Ti +Be
Analysis started at: 6/16/2024 11:39:11 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0238 ppm	0.0023 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0118 ppm
Concentration per Run 1	-0.0003 ppm	-0.0310 ppm	0.0024 ppm	0.0023 ppm	0.0003 ppm	-0.0001 ppm	0.0159 ppm
Concentration per Run 2	-0.0001 ppm	-0.0218 ppm	0.0027 ppm	0.0021 ppm	0.0002 ppm	0.0002 ppm	0.0138 ppm
Concentration per Run 3	-0.0002 ppm	-0.0187 ppm	0.0017 ppm	0.0025 ppm	0.0000 ppm	-0.0002 ppm	0.0055 ppm
Recovery Percentage 1	-2.443 %	-23.845 %	45.653 %	7.645 %	1.905 %	-0.111 %	11.754 %
Concentration RSD	64.4 %	26.9 %	22.1 %	8.2 %	79.0 %	3,389.5 %	47.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0020 ppm	-0.0008 ppm	-0.0032 ppm	0.0071 ppm	-0.2457 ppm	-0.0084 ppm
Concentration per Run 1	0.0000 ppm	0.0025 ppm	-0.0007 ppm	-0.0031 ppm	0.0097 ppm	-0.2004 ppm	-0.0105 ppm
Concentration per Run 2	-0.0001 ppm	0.0016 ppm	-0.0006 ppm	-0.0032 ppm	0.0071 ppm	-0.2960 ppm	-0.0088 ppm
Concentration per Run 3	-0.0001 ppm	0.0020 ppm	-0.0010 ppm	-0.0034 ppm	0.0043 ppm	-0.2409 ppm	-0.0060 ppm
Recovery Percentage 1	-1.515 %	10.058 %	-7.504 %	-32.310 %	14.140 %	-9.829 %	-8.415 %
Concentration RSD	30.1 %	22.9 %	30.4 %	4.9 %	38.3 %	19.5 %	27.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0260 ppm	0.0002 ppm	0.0012 ppm	0.0015 ppm	-0.0038 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0255 ppm	0.0003 ppm	0.0013 ppm	0.0015 ppm	-0.0064 ppm
Concentration per Run 2	0.0005 ppm	-0.0004 ppm	-0.0391 ppm	0.0001 ppm	0.0012 ppm	0.0016 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0133 ppm	0.0002 ppm	0.0009 ppm	0.0013 ppm	-0.0016 ppm
Recovery Percentage 1	1.430 %	-0.608 %	-1.299 %	0.865 %	11.585 %	2.939 %	-37.859 %
Concentration RSD	229.2 %	62.0 %	49.6 %	37.6 %	17.6 %	9.4 %	65.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0217 ppm	-0.0006 ppm	0.0001 ppm	**19.7013 ppm**	-0.0047 ppm	-0.0018 ppm	-0.0027 ppm
Concentration per Run 1	-0.0194 ppm	-0.0005 ppm	0.0001 ppm	19.5853 ppm	-0.0056 ppm	-0.0017 ppm	-0.0027 ppm
Concentration per Run 2	-0.0219 ppm	-0.0004 ppm	0.0002 ppm	19.7942 ppm	-0.0032 ppm	-0.0019 ppm	-0.0027 ppm
Concentration per Run 3	-0.0238 ppm	-0.0009 ppm	-0.0002 ppm	19.7245 ppm	-0.0052 ppm	-0.0018 ppm	-0.0027 ppm
Recovery Percentage 1	-4.342 %	-1.159 %	0.661 %	197,013.060 %	-23.451 %	-17.737 %	-54.271 %
Concentration RSD	10.2 %	49.3 %	289.6 %	**0.5 %**	28.0 %	6.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.3922 %	104.6954 %	105.9766 %	125.6278 %	111.1167 %	112.5700 %
Concentration per Run 1	106.1694 %	104.8904 %	106.1228 %	127.8925 %	111.2586 %	112.7203 %
Concentration per Run 2	104.5250 %	104.7136 %	105.7372 %	124.6052 %	110.8642 %	112.8540 %
Concentration per Run 3	105.4821 %	104.4824 %	106.0698 %	124.3856 %	111.2273 %	112.1358 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.2 %	1.6 %	0.2 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LDR 500 Na
Analysis started at: 6/16/2024 11:50:41 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0024 ppm	0.0007 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0140 ppm
Concentration per Run 1	0.0007 ppm	0.0039 ppm	0.0010 ppm	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0095 ppm
Concentration per Run 2	0.0000 ppm	-0.0117 ppm	0.0005 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0159 ppm
Concentration per Run 3	-0.0003 ppm	0.0005 ppm	0.0007 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm	0.0166 ppm
Concentration RSD	329.0 %	336.6 %	35.8 %	66.9 %	36.2 %	285.8 %	27.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0066 ppm	-0.0114 ppm	-0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0061 ppm	-0.0839 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0077 ppm	-0.0132 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0010 ppm	-0.0003 ppm	0.0062 ppm	0.0628 ppm	-0.0007 ppm
Concentration RSD	98.2 %	49.0 %	59.6 %	3,563.7 %	14.2 %	641.5 %	183.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0001 ppm	**449.8404 ppm**	-0.0001 ppm	-0.0002 ppm	-0.0011 ppm	-0.0005 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	459.6900 ppm	0.0001 ppm	0.0002 ppm	-0.0033 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	446.8837 ppm	-0.0004 ppm	-0.0002 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	442.9476 ppm	0.0000 ppm	-0.0005 ppm	-0.0008 ppm	-0.0006 ppm
Concentration RSD	87.8 %	153.7 %	1.9 %	289.0 %	235.0 %	179.8 %	154.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0031 ppm	-0.0004 ppm	-0.0002 ppm	0.0020 ppm	0.0011 ppm	-0.0001 ppm	-0.0019 ppm
Concentration per Run 1	0.0036 ppm	0.0000 ppm	-0.0003 ppm	0.0018 ppm	0.0019 ppm	-0.0002 ppm	-0.0019 ppm
Concentration per Run 2	0.0021 ppm	-0.0008 ppm	-0.0001 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	0.0036 ppm	-0.0005 ppm	0.0000 ppm	0.0020 ppm	0.0012 ppm	0.0000 ppm	-0.0020 ppm
Concentration RSD	28.4 %	94.4 %	117.7 %	7.2 %	91.1 %	136.5 %	3.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.7924 %	96.2012 %	98.8413 %	107.8754 %	99.0410 %	101.2778 %
Concentration per Run 1	101.0787 %	96.3591 %	98.9180 %	105.0837 %	98.8748 %	101.0275 %
Concentration per Run 2	101.7497 %	96.1114 %	98.7237 %	107.8455 %	98.8842 %	101.3669 %
Concentration per Run 3	102.5489 %	96.1332 %	98.8821 %	110.6972 %	99.3640 %	101.4391 %
Concentration RSD	0.7 %	0.1 %	0.1 %	2.6 %	0.3 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LDR 500 K
Analysis started at: 6/16/2024 11:57:11 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0230 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0000 ppm	0.0126 ppm
Concentration per Run 1	-0.0001 ppm	-0.0231 ppm	0.0014 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0192 ppm
Concentration per Run 2	0.0007 ppm	-0.0155 ppm	0.0004 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 3	0.0002 ppm	-0.0305 ppm	-0.0017 ppm	0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0178 ppm
Concentration RSD	138.0 %	32.5 %	4,406.6 %	27.3 %	66.6 %	84.5 %	81.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0070 ppm	456.5699 ppm	-0.0035 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0040 ppm	455.7906 ppm	-0.0036 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0111 ppm	460.9451 ppm	-0.0044 ppm
Concentration per Run 3	0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0058 ppm	452.9740 ppm	-0.0024 ppm
Concentration RSD	4.0 %	410.0 %	156.9 %	58.4 %	52.8 %	0.9 %	29.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	-0.0002 ppm	0.5201 ppm	0.0002 ppm	-0.0002 ppm	-0.0013 ppm	0.0016 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.5290 ppm	0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.5346 ppm	0.0001 ppm	-0.0003 ppm	-0.0012 ppm	0.0027 ppm
Concentration per Run 3	0.0006 ppm	-0.0003 ppm	0.4967 ppm	0.0004 ppm	-0.0002 ppm	-0.0015 ppm	0.0010 ppm
Concentration RSD	50.4 %	54.4 %	3.9 %	89.6 %	60.5 %	10.1 %	63.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0033 ppm	-0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0020 ppm	0.0002 ppm	-0.0022 ppm
Concentration per Run 1	0.0042 ppm	-0.0008 ppm	-0.0003 ppm	0.0006 ppm	0.0025 ppm	0.0003 ppm	-0.0021 ppm
Concentration per Run 2	0.0028 ppm	-0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0020 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 3	0.0028 ppm	-0.0003 ppm	0.0003 ppm	0.0011 ppm	0.0015 ppm	0.0000 ppm	-0.0021 ppm
Concentration RSD	24.0 %	53.0 %	656.3 %	38.7 %	24.9 %	102.9 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.1320 %	97.8673 %	99.6784 %	110.2763 %	101.7949 %	103.9840 %
Concentration per Run 1	104.0292 %	97.9160 %	99.8469 %	110.4847 %	101.6315 %	103.8438 %
Concentration per Run 2	101.1033 %	97.9237 %	99.8396 %	110.0184 %	101.8007 %	103.8256 %
Concentration per Run 3	101.2635 %	97.7623 %	99.3486 %	110.3257 %	101.9525 %	104.2826 %
Concentration RSD	1.6 %	0.1 %	0.3 %	0.2 %	0.2 %	0.2 %

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 12:03:33 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4944 ppm	0.4572 ppm	0.4818 ppm	0.4777 ppm	0.4744 ppm	0.4903 ppm	0.4820 ppm
Concentration per Run 1	0.4942 ppm	0.4542 ppm	0.4814 ppm	0.4771 ppm	0.4668 ppm	0.4819 ppm	0.4726 ppm
Concentration per Run 2	0.4949 ppm	0.4546 ppm	0.4841 ppm	0.4784 ppm	0.4800 ppm	0.4961 ppm	0.4773 ppm
Concentration per Run 3	0.4941 ppm	0.4628 ppm	0.4798 ppm	0.4777 ppm	0.4763 ppm	0.4930 ppm	0.4962 ppm
Recovery Percentage 1	98.886 %	91.444 %	96.351 %	95.545 %	94.873 %	98.069 %	96.402 %
Concentration RSD	0.1 %	1.1 %	0.5 %	0.1 %	1.4 %	1.5 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4936 ppm	0.4972 ppm	0.4989 ppm	0.4803 ppm	0.5026 ppm	5.4276 ppm	0.4944 ppm
Concentration per Run 1	0.4937 ppm	0.4970 ppm	0.4983 ppm	0.4801 ppm	0.4936 ppm	5.4207 ppm	0.4937 ppm
Concentration per Run 2	0.4939 ppm	0.4977 ppm	0.4995 ppm	0.4808 ppm	0.5075 ppm	5.4815 ppm	0.4957 ppm
Concentration per Run 3	0.4931 ppm	0.4969 ppm	0.4989 ppm	0.4800 ppm	0.5067 ppm	5.3804 ppm	0.4936 ppm
Recovery Percentage 1	98.711 %	99.446 %	99.780 %	96.061 %	100.517 %	108.551 %	98.871 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	1.6 %	0.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4814 ppm	0.4847 ppm	9.8171 ppm	0.4971 ppm	0.4954 ppm	0.4864 ppm	0.4908 ppm
Concentration per Run 1	0.4728 ppm	0.4818 ppm	9.6633 ppm	0.4976 ppm	0.4940 ppm	0.4847 ppm	0.4890 ppm
Concentration per Run 2	0.4874 ppm	0.4846 ppm	9.9218 ppm	0.4969 ppm	0.4984 ppm	0.4873 ppm	0.4913 ppm
Concentration per Run 3	0.4840 ppm	0.4877 ppm	9.8661 ppm	0.4968 ppm	0.4937 ppm	0.4873 ppm	0.4923 ppm
Recovery Percentage 1	96.276 %	96.944 %	98.171 %	99.421 %	99.079 %	97.283 %	98.169 %
Concentration RSD	1.6 %	0.6 %	1.4 %	0.1 %	0.5 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3695 ppm	0.4943 ppm	0.4698 ppm	0.4987 ppm	0.4924 ppm	0.4888 ppm	0.4981 ppm
Concentration per Run 1	5.3721 ppm	0.4946 ppm	0.4623 ppm	0.4984 ppm	0.4916 ppm	0.4883 ppm	0.4985 ppm
Concentration per Run 2	5.3754 ppm	0.4946 ppm	0.4754 ppm	0.4993 ppm	0.4931 ppm	0.4902 ppm	0.4982 ppm
Concentration per Run 3	5.3609 ppm	0.4938 ppm	0.4717 ppm	0.4984 ppm	0.4924 ppm	0.4879 ppm	0.4975 ppm
Recovery Percentage 1	102.276 %	98.868 %	93.964 %	99.734 %	98.475 %	97.763 %	99.612 %
Concentration RSD	0.1 %	0.1 %	1.4 %	0.1 %	0.2 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.9174 %	103.0781 %	103.2403 %	123.1298 %	109.6629 %	111.0654 %
Concentration per Run 1	106.2772 %	103.1882 %	103.1538 %	125.6686 %	109.7419 %	111.2792 %
Concentration per Run 2	103.7037 %	102.6948 %	103.2096 %	122.0059 %	109.4361 %	110.5596 %
Concentration per Run 3	104.7713 %	103.3512 %	103.3576 %	121.7150 %	109.8107 %	111.3574 %
Recovery Percentage 1						
Concentration RSD	1.2 %	0.3 %	0.1 %	1.8 %	0.2 %	0.4 %

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 12:09:38 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0217 ppm	0.0002 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm	0.0107 ppm
Concentration per Run 1	-0.0004 ppm	-0.0366 ppm	0.0014 ppm	0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0098 ppm
Concentration per Run 2	-0.0003 ppm	-0.0139 ppm	-0.0018 ppm	0.0007 ppm	0.0007 ppm	0.0001 ppm	0.0080 ppm
Concentration per Run 3	-0.0002 ppm	-0.0146 ppm	0.0010 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0142 ppm
Recovery Percentage 1	-4.222 %	-21.669 %	4.029 %	2.416 %	3.482 %	1.800 %	10.676 %
Concentration RSD	27.4 %	59.7 %	878.4 %	7.9 %	82.4 %	31.5 %	30.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0010 ppm	0.0042 ppm	-0.1164 ppm	-0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0011 ppm	0.0025 ppm	-0.1220 ppm	-0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0008 ppm	0.0033 ppm	-0.1160 ppm	-0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0009 ppm	-0.0012 ppm	0.0069 ppm	-0.1111 ppm	0.0003 ppm
Recovery Percentage 1	-0.589 %	-0.840 %	3.535 %	-10.268 %	8.476 %	-4.656 %	-2.079 %
Concentration RSD	233.8 %	111.5 %	155.9 %	22.1 %	55.9 %	4.7 %	102.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0017 ppm	0.0149 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 1	0.0004 ppm	0.0021 ppm	0.0145 ppm	0.0000 ppm	0.0012 ppm	0.0002 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0015 ppm	0.0221 ppm	0.0001 ppm	0.0004 ppm	-0.0009 ppm	0.0025 ppm
Concentration per Run 3	0.0001 ppm	0.0016 ppm	0.0081 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0004 ppm
Recovery Percentage 1	1.467 %	3.466 %	0.745 %	-0.011 %	5.351 %	-0.958 %	12.909 %
Concentration RSD	192.5 %	16.2 %	47.3 %	2,843.1 %	118.9 %	123.7 %	84.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0022 ppm	-0.0005 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	-0.0026 ppm
Concentration per Run 1	0.0018 ppm	-0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0003 ppm	-0.0026 ppm
Concentration per Run 2	0.0030 ppm	-0.0007 ppm	-0.0001 ppm	0.0005 ppm	-0.0011 ppm	0.0003 ppm	-0.0025 ppm
Concentration per Run 3	0.0017 ppm	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0026 ppm
Recovery Percentage 1	0.430 %	-1.039 %	0.126 %	4.854 %	-0.602 %	1.242 %	-51.666 %
Concentration RSD	32.9 %	52.9 %	1,614.6 %	35.6 %	715.7 %	226.0 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.6980 %	103.6199 %	104.1987 %	112.1505 %	106.9908 %	107.6445 %
Concentration per Run 1	101.9200 %	103.4971 %	104.3704 %	109.9745 %	106.9418 %	107.1786 %
Concentration per Run 2	104.5813 %	103.4955 %	104.2637 %	112.3574 %	107.1070 %	107.5525 %
Concentration per Run 3	104.5926 %	103.8671 %	103.9621 %	114.1195 %	106.9235 %	108.2025 %
Recovery Percentage 1						
Concentration RSD	1.5 %	0.2 %	0.2 %	1.9 %	0.1 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LDR 500 Fe Pass
Analysis started at: 6/16/2024 12:24:35 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0021 ppm	-0.0001 ppm	0.0028 ppm	0.0012 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	0.0017 ppm	-0.0056 ppm	0.0025 ppm	0.0009 ppm	0.0009 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 2	0.0021 ppm	-0.0057 ppm	0.0044 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	0.0025 ppm	0.0108 ppm	0.0016 ppm	0.0019 ppm	0.0007 ppm	0.0000 ppm	-0.0004 ppm
Concentration RSD	18.5 %	6,531.1 %	51.3 %	48.6 %	42.4 %	68.5 %	674.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0082 ppm	-0.0005 ppm	-0.0011 ppm	0.0000 ppm	456.9162 ppm	-0.1665 ppm	0.0045 ppm
Concentration per Run 1	0.0082 ppm	-0.0005 ppm	-0.0015 ppm	0.0002 ppm	455.5760 ppm	-0.1462 ppm	0.0049 ppm
Concentration per Run 2	0.0082 ppm	-0.0005 ppm	-0.0007 ppm	-0.0003 ppm	461.0507 ppm	-0.1893 ppm	0.0036 ppm
Concentration per Run 3	0.0081 ppm	-0.0004 ppm	-0.0013 ppm	0.0001 ppm	454.1218 ppm	-0.1641 ppm	0.0050 ppm
Concentration RSD	0.3 %	15.3 %	35.3 %	43,156.8 %	0.8 %	13.0 %	17.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	-0.0042 ppm	-0.0082 ppm	-0.0133 ppm	0.0082 ppm	0.0115 ppm	0.0040 ppm
Concentration per Run 1	-0.0002 ppm	-0.0040 ppm	-0.0142 ppm	-0.0134 ppm	0.0080 ppm	0.0112 ppm	0.0040 ppm
Concentration per Run 2	0.0000 ppm	-0.0042 ppm	-0.0121 ppm	-0.0131 ppm	0.0086 ppm	0.0102 ppm	0.0038 ppm
Concentration per Run 3	-0.0001 ppm	-0.0044 ppm	0.0016 ppm	-0.0134 ppm	0.0079 ppm	0.0131 ppm	0.0042 ppm
Concentration RSD	106.9 %	4.5 %	104.2 %	1.2 %	4.6 %	12.6 %	3.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0003 ppm	0.0003 ppm	0.0002 ppm	0.0046 ppm	0.0014 ppm	-0.0026 ppm
Concentration per Run 1	0.0034 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0045 ppm	0.0012 ppm	-0.0025 ppm
Concentration per Run 2	0.0034 ppm	0.0007 ppm	0.0002 ppm	0.0005 ppm	0.0034 ppm	0.0018 ppm	-0.0027 ppm
Concentration per Run 3	0.0040 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0058 ppm	0.0014 ppm	-0.0026 ppm
Concentration RSD	9.9 %	193.0 %	48.9 %	175.8 %	26.9 %	19.8 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.3771 %	102.8908 %	102.3824 %	129.7965 %	108.0379 %	112.2626 %
Concentration per Run 1	105.3187 %	102.6744 %	102.7804 %	133.9660 %	108.5216 %	111.9831 %
Concentration per Run 2	104.5747 %	103.3496 %	102.2425 %	128.3512 %	107.8111 %	112.6959 %
Concentration per Run 3	106.2378 %	102.6483 %	102.1242 %	127.0724 %	107.7810 %	112.1087 %
Concentration RSD	0.8 %	0.4 %	0.3 %	2.8 %	0.4 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: IEC 500 Ca +Se
Analysis started at: 6/16/2024 12:39:20 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0112 ppm	0.0012 ppm	0.0012 ppm	0.0014 ppm	-0.0001 ppm	467.6886 ppm
Concentration per Run 1	-0.0003 ppm	0.0146 ppm	0.0014 ppm	0.0010 ppm	0.0014 ppm	-0.0001 ppm	474.3607 ppm
Concentration per Run 2	-0.0004 ppm	0.0261 ppm	0.0017 ppm	0.0014 ppm	0.0017 ppm	-0.0001 ppm	466.8890 ppm
Concentration per Run 3	-0.0011 ppm	-0.0070 ppm	0.0006 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	461.8162 ppm
Recovery Percentage 1	-8.538 %	11.218 %	23.982 %	4.089 %	14.040 %	-1.358 %	467,688.646 %
Concentration RSD	66.1 %	149.5 %	46.7 %	19.7 %	21.1 %	102.6 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0011 ppm	-0.0007 ppm	0.0402 ppm	-0.0955 ppm	-0.0012 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0009 ppm	-0.0002 ppm	0.0320 ppm	-0.0974 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0011 ppm	-0.0012 ppm	0.0425 ppm	-0.1139 ppm	-0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0012 ppm	-0.0007 ppm	0.0462 ppm	-0.0751 ppm	-0.0019 ppm
Recovery Percentage 1	2.002 %	-0.038 %	10.757 %	-6.921 %	80.479 %	-3.819 %	-1.164 %
Concentration RSD	51.0 %	3,226.2 %	10.8 %	76.8 %	18.3 %	20.4 %	266.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	-0.0003 ppm	0.0046 ppm	0.0003 ppm	0.0011 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0002 ppm	0.0011 ppm	0.0003 ppm	0.0022 ppm	-0.0021 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0150 ppm	0.0002 ppm	-0.0006 ppm	-0.0003 ppm	-0.0032 ppm
Concentration per Run 3	0.0005 ppm	-0.0003 ppm	-0.0023 ppm	0.0005 ppm	0.0016 ppm	-0.0017 ppm	0.0024 ppm
Recovery Percentage 1	4.166 %	-0.696 %	0.232 %	1.354 %	10.737 %	-2.714 %	-0.508 %
Concentration RSD	60.3 %	46.9 %	197.7 %	52.4 %	136.0 %	67.9 %	5,689.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0066 ppm	-0.0004 ppm	0.0042 ppm	0.0042 ppm	0.0007 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 1	0.0066 ppm	-0.0001 ppm	0.0043 ppm	0.0039 ppm	0.0005 ppm	-0.0001 ppm	-0.0018 ppm
Concentration per Run 2	0.0067 ppm	-0.0006 ppm	0.0040 ppm	0.0043 ppm	0.0019 ppm	0.0001 ppm	-0.0018 ppm
Concentration per Run 3	0.0066 ppm	-0.0006 ppm	0.0042 ppm	0.0044 ppm	-0.0001 ppm	0.0003 ppm	-0.0017 ppm
Recovery Percentage 1	1.325 %	-0.869 %	41.681 %	41.946 %	3.720 %	0.852 %	-34.910 %
Concentration RSD	0.8 %	60.6 %	3.8 %	6.4 %	138.8 %	237.0 %	2.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.0682 %	98.4185 %	97.8446 %	110.3736 %	97.6111 %	102.3675 %
Concentration per Run 1	101.9768 %	98.1185 %	97.7527 %	108.5885 %	97.2763 %	101.9152 %
Concentration per Run 2	103.0611 %	98.6410 %	98.1090 %	110.5450 %	97.7391 %	102.5456 %
Concentration per Run 3	104.1666 %	98.4961 %	97.6721 %	111.9872 %	97.8178 %	102.6416 %
Recovery Percentage 1						
Concentration RSD	1.1 %	0.3 %	0.2 %	1.5 %	0.3 %	0.4 %

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934502-2 WG1934502
Analysis started at: 6/16/2024 12:49:52 PM
Comments Sb RR
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0512 ppm	1.8545 ppm	0.1204 ppm	0.9632 ppm	1.8769 ppm	0.0486 ppm	9.5469 ppm
Concentration per Run 1	0.0508 ppm	1.7651 ppm	0.1205 ppm	0.9650 ppm	1.7907 ppm	0.0462 ppm	9.1488 ppm
Concentration per Run 2	0.0512 ppm	1.8991 ppm	0.1209 ppm	0.9615 ppm	1.9169 ppm	0.0497 ppm	9.7128 ppm
Concentration per Run 3	0.0515 ppm	1.8992 ppm	0.1197 ppm	0.9632 ppm	1.9231 ppm	0.0499 ppm	9.7791 ppm
Concentration RSD	0.7 %	4.2 %	0.5 %	0.2 %	4.0 %	4.2 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0549 ppm	0.4941 ppm	0.2046 ppm	0.2505 ppm	0.9865 ppm	9.8237 ppm	10.1095 ppm
Concentration per Run 1	0.0548 ppm	0.4943 ppm	0.2059 ppm	0.2506 ppm	0.9374 ppm	9.3571 ppm	10.1205 ppm
Concentration per Run 2	0.0548 ppm	0.4934 ppm	0.2045 ppm	0.2506 ppm	1.0089 ppm	9.9738 ppm	10.1184 ppm
Concentration per Run 3	0.0550 ppm	0.4944 ppm	0.2036 ppm	0.2502 ppm	1.0132 ppm	10.1401 ppm	10.0896 ppm
Concentration RSD	0.2 %	0.1 %	0.6 %	0.1 %	4.3 %	4.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4775 ppm	0.9530 ppm	9.8669 ppm	0.4936 ppm	0.5279 ppm	0.4837 ppm	0.1209 ppm
Concentration per Run 1	0.4548 ppm	0.9410 ppm	9.4285 ppm	0.4937 ppm	0.5284 ppm	0.4802 ppm	0.1200 ppm
Concentration per Run 2	0.4883 ppm	0.9526 ppm	10.0826 ppm	0.4932 ppm	0.5277 ppm	0.4817 ppm	0.1221 ppm
Concentration per Run 3	0.4895 ppm	0.9655 ppm	10.0898 ppm	0.4938 ppm	0.5276 ppm	0.4893 ppm	0.1205 ppm
Concentration RSD	4.1 %	1.3 %	3.8 %	0.1 %	0.1 %	1.0 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0592 ppm	0.9961 ppm	0.9148 ppm	1.0161 ppm	0.1213 ppm	0.5002 ppm	0.5038 ppm
Concentration per Run 1	1.0609 ppm	0.9955 ppm	0.8729 ppm	1.0163 ppm	0.1200 ppm	0.5001 ppm	0.5047 ppm
Concentration per Run 2	1.0562 ppm	0.9939 ppm	0.9345 ppm	1.0168 ppm	0.1213 ppm	0.4998 ppm	0.5031 ppm
Concentration per Run 3	1.0604 ppm	0.9990 ppm	0.9370 ppm	1.0150 ppm	0.1226 ppm	0.5008 ppm	0.5035 ppm
Concentration RSD	0.2 %	0.3 %	4.0 %	0.1 %	1.0 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.9425 %	103.6083 %	103.3504 %	117.6890 %	110.2589 %	111.0267 %
Concentration per Run 1	115.0380 %	103.6489 %	103.6216 %	119.6583 %	110.3854 %	111.0907 %
Concentration per Run 2	107.3861 %	103.5008 %	103.1290 %	115.9583 %	110.2955 %	110.9023 %
Concentration per Run 3	107.4035 %	103.6751 %	103.3007 %	117.4504 %	110.0959 %	111.0870 %
Concentration RSD	4.0 %	0.1 %	0.2 %	1.6 %	0.1 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2430640-12D4 WG1934232
Analysis started at: 6/16/2024 12:56:00 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	52.5297 ppm	0.2476 ppm	0.0335 ppm	0.0280 ppm	0.0022 ppm	12.1659 ppm
Concentration per Run 1	0.0012 ppm	50.5893 ppm	0.2482 ppm	0.0331 ppm	0.0269 ppm	0.0022 ppm	11.7439 ppm
Concentration per Run 2	0.0010 ppm	54.7732 ppm	0.2487 ppm	0.0338 ppm	0.0292 ppm	0.0023 ppm	12.6681 ppm
Concentration per Run 3	0.0013 ppm	52.2265 ppm	0.2459 ppm	0.0336 ppm	0.0278 ppm	0.0022 ppm	12.0858 ppm
Concentration RSD	12.1 %	4.0 %	0.6 %	1.1 %	4.1 %	3.0 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0050 ppm	0.1553 ppm	0.0938 ppm	0.2243 ppm	257.1453 ppm	1.2712 ppm	21.6134 ppm
Concentration per Run 1	0.0051 ppm	0.1559 ppm	0.0934 ppm	0.2245 ppm	244.7345 ppm	1.1686 ppm	21.5991 ppm
Concentration per Run 2	0.0050 ppm	0.1551 ppm	0.0938 ppm	0.2235 ppm	271.6643 ppm	1.3537 ppm	21.6537 ppm
Concentration per Run 3	0.0050 ppm	0.1549 ppm	0.0941 ppm	0.2249 ppm	255.0372 ppm	1.2913 ppm	21.5873 ppm
Concentration RSD	1.4 %	0.3 %	0.4 %	0.3 %	5.3 %	7.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.6029 ppm	0.0183 ppm	9.1997 ppm	0.1581 ppm	0.1000 ppm	0.0136 ppm	0.0039 ppm
Concentration per Run 1	2.5074 ppm	0.0187 ppm	8.8850 ppm	0.1582 ppm	0.1010 ppm	0.0152 ppm	0.0058 ppm
Concentration per Run 2	2.7136 ppm	0.0184 ppm	9.5804 ppm	0.1586 ppm	0.1001 ppm	0.0132 ppm	0.0030 ppm
Concentration per Run 3	2.5877 ppm	0.0178 ppm	9.1337 ppm	0.1575 ppm	0.0990 ppm	0.0124 ppm	0.0030 ppm
Concentration RSD	4.0 %	2.7 %	3.8 %	0.4 %	1.0 %	10.6 %	40.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0708 ppm	0.0042 ppm	0.0862 ppm	0.4051 ppm	0.0037 ppm	0.0977 ppm	0.4220 ppm
Concentration per Run 1	4.0772 ppm	0.0037 ppm	0.0831 ppm	0.4047 ppm	0.0041 ppm	0.0979 ppm	0.4230 ppm
Concentration per Run 2	4.0617 ppm	0.0042 ppm	0.0896 ppm	0.4048 ppm	0.0030 ppm	0.0979 ppm	0.4210 ppm
Concentration per Run 3	4.0736 ppm	0.0047 ppm	0.0858 ppm	0.4057 ppm	0.0039 ppm	0.0974 ppm	0.4218 ppm
Concentration RSD	0.2 %	12.1 %	3.8 %	0.1 %	17.0 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	115.5765 %	107.3190 %	106.9259 %	132.1237 %	109.2486 %	113.5712 %
Concentration per Run 1	119.0904 %	107.4429 %	107.1353 %	138.9266 %	109.2559 %	113.6876 %
Concentration per Run 2	111.1616 %	107.1974 %	106.7773 %	127.9815 %	109.1299 %	113.5949 %
Concentration per Run 3	116.4775 %	107.3167 %	106.8650 %	129.4631 %	109.3600 %	113.4312 %
Concentration RSD	3.5 %	0.1 %	0.2 %	4.5 %	0.1 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934453-1 WG1934453
Analysis started at: 6/16/2024 1:13:24 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0095 ppm	0.0003 ppm	0.0018 ppm	0.0002 ppm	0.0000 ppm	0.0390 ppm
Concentration per Run 1	-0.0004 ppm	-0.0123 ppm	-0.0007 ppm	0.0019 ppm	0.0001 ppm	-0.0001 ppm	0.0308 ppm
Concentration per Run 2	-0.0007 ppm	-0.0053 ppm	0.0007 ppm	0.0021 ppm	0.0001 ppm	-0.0001 ppm	0.0427 ppm
Concentration per Run 3	0.0000 ppm	-0.0110 ppm	0.0010 ppm	0.0015 ppm	0.0005 ppm	0.0001 ppm	0.0434 ppm
Recovery Percentage 1	-4.728 %	-9.534 %	6.073 %	6.100 %	2.369 %	-0.237 %	38.960 %
Concentration RSD	102.4 %	38.9 %	300.5 %	16.6 %	99.1 %	688.7 %	18.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0008 ppm	-0.0012 ppm	0.0324 ppm	-0.0936 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0012 ppm	0.0364 ppm	-0.1130 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0007 ppm	-0.0012 ppm	0.0350 ppm	-0.0898 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0011 ppm	-0.0011 ppm	0.0257 ppm	-0.0779 ppm	-0.0009 ppm
Recovery Percentage 1	-0.396 %	-1.234 %	7.773 %	-11.789 %	64.730 %	-3.743 %	-0.396 %
Concentration RSD	95.1 %	20.2 %	38.0 %	7.7 %	18.0 %	19.1 %	157.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0009 ppm	0.1124 ppm	0.0004 ppm	0.0004 ppm	0.0010 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	0.1216 ppm	0.0005 ppm	0.0005 ppm	0.0011 ppm	0.0013 ppm
Concentration per Run 2	0.0007 ppm	0.0009 ppm	0.1076 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.1081 ppm	0.0006 ppm	0.0004 ppm	0.0014 ppm	-0.0002 ppm
Recovery Percentage 1	2.939 %	1.774 %	5.622 %	1.662 %	3.716 %	2.087 %	13.815 %
Concentration RSD	131.3 %	11.9 %	7.1 %	57.3 %	20.0 %	38.2 %	118.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0138 ppm	0.0015 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	0.0002 ppm	-0.0023 ppm
Concentration per Run 1	0.0151 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	-0.0015 ppm	0.0005 ppm	-0.0023 ppm
Concentration per Run 2	0.0134 ppm	0.0016 ppm	-0.0001 ppm	0.0004 ppm	-0.0010 ppm	0.0002 ppm	-0.0023 ppm
Concentration per Run 3	0.0129 ppm	0.0012 ppm	0.0000 ppm	0.0004 ppm	-0.0008 ppm	0.0001 ppm	-0.0023 ppm
Recovery Percentage 1	2.764 %	3.030 %	0.056 %	3.077 %	-5.596 %	2.461 %	-46.142 %
Concentration RSD	8.1 %	17.8 %	1,502.5 %	50.8 %	32.8 %	76.7 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2720 %	101.9747 %	101.1456 %	132.9653 %	105.3398 %	109.2364 %
Concentration per Run 1	101.6161 %	101.9177 %	100.9368 %	141.0050 %	105.4819 %	109.3912 %
Concentration per Run 2	103.1016 %	101.9985 %	101.0756 %	131.0169 %	105.0578 %	109.3091 %
Concentration per Run 3	105.0984 %	102.0080 %	101.4244 %	126.8740 %	105.4798 %	109.0088 %
Recovery Percentage 1						
Concentration RSD	1.7 %	0.0 %	0.2 %	5.5 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934453-2 WG1934453
Analysis started at: 6/16/2024 1:19:42 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0494 ppm	1.8954 ppm	0.1192 ppm	0.9112 ppm	1.9276 ppm	0.0494 ppm	9.4450 ppm
Concentration per Run 1	0.0490 ppm	1.9032 ppm	0.1194 ppm	0.9108 ppm	1.9302 ppm	0.0495 ppm	9.4511 ppm
Concentration per Run 2	0.0501 ppm	1.9260 ppm	0.1204 ppm	0.9096 ppm	1.9593 ppm	0.0501 ppm	9.6140 ppm
Concentration per Run 3	0.0492 ppm	1.8570 ppm	0.1179 ppm	0.9133 ppm	1.8933 ppm	0.0486 ppm	9.2700 ppm
Concentration RSD	1.2 %	1.9 %	1.1 %	0.2 %	1.7 %	1.5 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0541 ppm	0.4903 ppm	0.2009 ppm	0.2458 ppm	1.0347 ppm	9.6175 ppm	9.3841 ppm
Concentration per Run 1	0.0541 ppm	0.4905 ppm	0.2013 ppm	0.2448 ppm	1.0361 ppm	9.6474 ppm	9.3610 ppm
Concentration per Run 2	0.0540 ppm	0.4892 ppm	0.2011 ppm	0.2466 ppm	1.0536 ppm	9.7511 ppm	9.4064 ppm
Concentration per Run 3	0.0542 ppm	0.4913 ppm	0.2002 ppm	0.2460 ppm	1.0144 ppm	9.4539 ppm	9.3850 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.4 %	1.9 %	1.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4853 ppm	0.9731 ppm	9.7564 ppm	0.4865 ppm	0.5397 ppm	0.4932 ppm	0.1216 ppm
Concentration per Run 1	0.4853 ppm	0.9703 ppm	9.7658 ppm	0.4863 ppm	0.5407 ppm	0.4937 ppm	0.1210 ppm
Concentration per Run 2	0.4939 ppm	0.9721 ppm	9.9130 ppm	0.4855 ppm	0.5384 ppm	0.4925 ppm	0.1224 ppm
Concentration per Run 3	0.4766 ppm	0.9771 ppm	9.5905 ppm	0.4876 ppm	0.5401 ppm	0.4933 ppm	0.1215 ppm
Concentration RSD	1.8 %	0.4 %	1.7 %	0.2 %	0.2 %	0.1 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1161 ppm	0.9851 ppm	0.9153 ppm	0.9518 ppm	0.1230 ppm	0.4870 ppm	0.4906 ppm
Concentration per Run 1	1.1144 ppm	0.9855 ppm	0.9160 ppm	0.9482 ppm	0.1217 ppm	0.4866 ppm	0.4908 ppm
Concentration per Run 2	1.1142 ppm	0.9818 ppm	0.9297 ppm	0.9563 ppm	0.1237 ppm	0.4864 ppm	0.4898 ppm
Concentration per Run 3	1.1197 ppm	0.9881 ppm	0.9002 ppm	0.9507 ppm	0.1234 ppm	0.4880 ppm	0.4913 ppm
Concentration RSD	0.3 %	0.3 %	1.6 %	0.4 %	0.9 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.7205 %	99.8286 %	99.7370 %	119.8924 %	106.2839 %	109.1591 %
Concentration per Run 1	102.7181 %	99.3434 %	99.7055 %	122.7648 %	106.3005 %	108.8336 %
Concentration per Run 2	101.1467 %	100.0155 %	99.6948 %	118.3744 %	106.4621 %	109.2025 %
Concentration per Run 3	104.2968 %	100.1269 %	99.8108 %	118.5379 %	106.0891 %	109.4410 %
Concentration RSD	1.5 %	0.4 %	0.1 %	2.1 %	0.2 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432725-21 WG1934453
Analysis started at: 6/16/2024 1:25:47 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0037 ppm	0.0002 ppm	0.0293 ppm	0.1077 ppm	0.0000 ppm	185.5327 ppm
Concentration per Run 1	0.0004 ppm	0.0157 ppm	-0.0009 ppm	0.0292 ppm	0.1069 ppm	0.0000 ppm	185.0454 ppm
Concentration per Run 2	-0.0003 ppm	-0.0102 ppm	0.0005 ppm	0.0293 ppm	0.1094 ppm	-0.0001 ppm	188.4095 ppm
Concentration per Run 3	0.0000 ppm	0.0056 ppm	0.0011 ppm	0.0295 ppm	0.1068 ppm	0.0000 ppm	183.1433 ppm
Concentration RSD	1,929.5 %	356.3 %	407.8 %	0.4 %	1.4 %	209.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0024 ppm	0.0012 ppm	-0.0013 ppm	0.0433 ppm	3.4341 ppm	1.5351 ppm
Concentration per Run 1	0.0000 ppm	0.0023 ppm	0.0012 ppm	-0.0013 ppm	0.0420 ppm	3.4309 ppm	1.5382 ppm
Concentration per Run 2	0.0000 ppm	0.0024 ppm	0.0013 ppm	-0.0011 ppm	0.0435 ppm	3.5102 ppm	1.5305 ppm
Concentration per Run 3	0.0000 ppm	0.0024 ppm	0.0010 ppm	-0.0014 ppm	0.0443 ppm	3.3613 ppm	1.5364 ppm
Concentration RSD	103.5 %	2.3 %	11.5 %	10.1 %	2.7 %	2.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2084 ppm	0.0056 ppm	2.9970 ppm	0.0206 ppm	0.0016 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.2076 ppm	0.0059 ppm	2.9772 ppm	0.0207 ppm	0.0018 ppm	0.0004 ppm	-0.0010 ppm
Concentration per Run 2	0.2122 ppm	0.0058 ppm	3.0430 ppm	0.0207 ppm	0.0017 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.2055 ppm	0.0052 ppm	2.9706 ppm	0.0204 ppm	0.0012 ppm	0.0003 ppm	-0.0025 ppm
Concentration RSD	1.6 %	7.2 %	1.3 %	0.8 %	18.9 %	110.6 %	134.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5780 ppm	0.0009 ppm	0.2445 ppm	0.0026 ppm	-0.0005 ppm	0.0007 ppm	0.0513 ppm
Concentration per Run 1	2.5794 ppm	0.0005 ppm	0.2440 ppm	0.0024 ppm	0.0021 ppm	0.0007 ppm	0.0513 ppm
Concentration per Run 2	2.5743 ppm	0.0006 ppm	0.2481 ppm	0.0028 ppm	-0.0031 ppm	0.0008 ppm	0.0513 ppm
Concentration per Run 3	2.5804 ppm	0.0016 ppm	0.2413 ppm	0.0028 ppm	-0.0005 ppm	0.0006 ppm	0.0514 ppm
Concentration RSD	0.1 %	60.8 %	1.4 %	7.0 %	512.0 %	13.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.6684 %	98.5117 %	97.4519 %	120.6420 %	102.1275 %	107.4260 %
Concentration per Run 1	103.8254 %	98.5439 %	97.2423 %	123.0728 %	102.0122 %	107.3097 %
Concentration per Run 2	101.8841 %	98.5280 %	97.7008 %	119.0178 %	102.3295 %	107.5779 %
Concentration per Run 3	105.2958 %	98.4633 %	97.4126 %	119.8353 %	102.0409 %	107.3904 %
Concentration RSD	1.7 %	0.0 %	0.2 %	1.8 %	0.2 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934453-3 WG1934453
Analysis started at: 6/16/2024 1:32:00 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0492 ppm	1.8435 ppm	0.1236 ppm	0.9624 ppm	1.9925 ppm	0.0486 ppm	195.3771 ppm
Concentration per Run 1	0.0498 ppm	1.8370 ppm	0.1249 ppm	0.9628 ppm	1.9897 ppm	0.0483 ppm	195.2055 ppm
Concentration per Run 2	0.0487 ppm	1.8495 ppm	0.1224 ppm	0.9628 ppm	2.0128 ppm	0.0491 ppm	197.1944 ppm
Concentration per Run 3	0.0491 ppm	1.8440 ppm	0.1236 ppm	0.9615 ppm	1.9750 ppm	0.0485 ppm	193.7312 ppm
Concentration RSD	1.1 %	0.3 %	1.0 %	0.1 %	1.0 %	0.8 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0536 ppm	0.4898 ppm	0.1948 ppm	0.2457 ppm	1.0097 ppm	13.1615 ppm	10.5817 ppm
Concentration per Run 1	0.0537 ppm	0.4900 ppm	0.1950 ppm	0.2445 ppm	1.0070 ppm	13.1034 ppm	10.5771 ppm
Concentration per Run 2	0.0536 ppm	0.4899 ppm	0.1949 ppm	0.2457 ppm	1.0211 ppm	13.2740 ppm	10.5697 ppm
Concentration per Run 3	0.0536 ppm	0.4896 ppm	0.1946 ppm	0.2470 ppm	1.0011 ppm	13.1072 ppm	10.5983 ppm
Concentration RSD	0.1 %	0.0 %	0.1 %	0.5 %	1.0 %	0.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6751 ppm	0.9940 ppm	12.6680 ppm	0.4997 ppm	0.5344 ppm	0.5047 ppm	0.1227 ppm
Concentration per Run 1	0.6725 ppm	0.9920 ppm	12.6380 ppm	0.4998 ppm	0.5348 ppm	0.5049 ppm	0.1225 ppm
Concentration per Run 2	0.6814 ppm	0.9941 ppm	12.7676 ppm	0.4999 ppm	0.5340 ppm	0.5048 ppm	0.1211 ppm
Concentration per Run 3	0.6713 ppm	0.9959 ppm	12.5984 ppm	0.4995 ppm	0.5344 ppm	0.5045 ppm	0.1245 ppm
Concentration RSD	0.8 %	0.2 %	0.7 %	0.0 %	0.1 %	0.0 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.7999 ppm	0.9899 ppm	1.1439 ppm	0.9561 ppm	0.1214 ppm	0.4822 ppm	0.5371 ppm
Concentration per Run 1	3.8013 ppm	0.9895 ppm	1.1424 ppm	0.9542 ppm	0.1206 ppm	0.4816 ppm	0.5373 ppm
Concentration per Run 2	3.8013 ppm	0.9905 ppm	1.1545 ppm	0.9547 ppm	0.1222 ppm	0.4823 ppm	0.5370 ppm
Concentration per Run 3	3.7972 ppm	0.9895 ppm	1.1348 ppm	0.9594 ppm	0.1215 ppm	0.4827 ppm	0.5369 ppm
Concentration RSD	0.1 %	0.1 %	0.9 %	0.3 %	0.7 %	0.1 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.8308 %	97.9482 %	96.3465 %	121.2344 %	101.6944 %	106.6915 %
Concentration per Run 1	103.6546 %	97.7711 %	96.2828 %	123.9743 %	101.6500 %	106.5217 %
Concentration per Run 2	103.0318 %	97.7931 %	96.4657 %	120.1043 %	101.8043 %	106.6601 %
Concentration per Run 3	104.8060 %	98.2803 %	96.2911 %	119.6247 %	101.6289 %	106.8927 %
Concentration RSD	0.9 %	0.3 %	0.1 %	2.0 %	0.1 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934453-4 WG1934453
Analysis started at: 6/16/2024 1:38:04 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0066 ppm	0.0010 ppm	0.0305 ppm	0.1104 ppm	-0.0001 ppm	189.2675 ppm
Concentration per Run 1	-0.0006 ppm	-0.0169 ppm	0.0002 ppm	0.0304 ppm	0.1088 ppm	-0.0001 ppm	187.1282 ppm
Concentration per Run 2	-0.0002 ppm	-0.0072 ppm	0.0015 ppm	0.0304 ppm	0.1120 ppm	-0.0001 ppm	192.3570 ppm
Concentration per Run 3	0.0002 ppm	0.0042 ppm	0.0013 ppm	0.0307 ppm	0.1104 ppm	-0.0001 ppm	188.3174 ppm
Concentration RSD	198.2 %	160.2 %	66.7 %	0.7 %	1.4 %	14.7 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0026 ppm	0.0011 ppm	-0.0014 ppm	0.0342 ppm	3.5004 ppm	1.5730 ppm
Concentration per Run 1	0.0000 ppm	0.0025 ppm	0.0010 ppm	-0.0020 ppm	0.0306 ppm	3.4804 ppm	1.5673 ppm
Concentration per Run 2	0.0000 ppm	0.0026 ppm	0.0011 ppm	-0.0013 ppm	0.0364 ppm	3.5743 ppm	1.5745 ppm
Concentration per Run 3	0.0000 ppm	0.0025 ppm	0.0011 ppm	-0.0010 ppm	0.0357 ppm	3.4466 ppm	1.5772 ppm
Concentration RSD	65.8 %	3.1 %	4.6 %	36.9 %	9.2 %	1.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2112 ppm	0.0058 ppm	3.0517 ppm	0.0211 ppm	0.0013 ppm	0.0002 ppm	-0.0024 ppm
Concentration per Run 1	0.2096 ppm	0.0061 ppm	3.0083 ppm	0.0209 ppm	0.0009 ppm	-0.0004 ppm	-0.0022 ppm
Concentration per Run 2	0.2138 ppm	0.0059 ppm	3.1007 ppm	0.0214 ppm	0.0018 ppm	-0.0002 ppm	-0.0037 ppm
Concentration per Run 3	0.2103 ppm	0.0054 ppm	3.0461 ppm	0.0210 ppm	0.0011 ppm	0.0012 ppm	-0.0014 ppm
Concentration RSD	1.1 %	5.7 %	1.5 %	1.3 %	34.8 %	479.7 %	47.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6460 ppm	0.0007 ppm	0.2488 ppm	0.0020 ppm	-0.0013 ppm	0.0007 ppm	0.0527 ppm
Concentration per Run 1	2.6459 ppm	0.0007 ppm	0.2459 ppm	0.0020 ppm	-0.0012 ppm	0.0007 ppm	0.0528 ppm
Concentration per Run 2	2.6453 ppm	0.0012 ppm	0.2527 ppm	0.0020 ppm	-0.0013 ppm	0.0008 ppm	0.0526 ppm
Concentration per Run 3	2.6467 ppm	0.0001 ppm	0.2477 ppm	0.0022 ppm	-0.0015 ppm	0.0007 ppm	0.0527 ppm
Concentration RSD	0.0 %	79.7 %	1.4 %	4.7 %	13.1 %	9.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.7518 %	98.3111 %	96.8449 %	122.8405 %	102.1355 %	107.6696 %
Concentration per Run 1	106.7237 %	98.6753 %	96.6891 %	126.5663 %	102.0481 %	108.3495 %
Concentration per Run 2	103.9795 %	97.8724 %	96.8283 %	120.6711 %	102.2624 %	107.0881 %
Concentration per Run 3	106.5523 %	98.3856 %	97.0173 %	121.2842 %	102.0960 %	107.5712 %
Concentration RSD	1.5 %	0.4 %	0.2 %	2.6 %	0.1 %	0.6 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432725-22 WG1934453
Analysis started at: 6/16/2024 1:44:18 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0297 ppm	0.0010 ppm	0.0085 ppm	0.0562 ppm	-0.0001 ppm	180.8828 ppm
Concentration per Run 1	-0.0006 ppm	0.0291 ppm	0.0008 ppm	0.0085 ppm	0.0552 ppm	0.0000 ppm	178.2788 ppm
Concentration per Run 2	0.0002 ppm	0.0272 ppm	0.0020 ppm	0.0082 ppm	0.0572 ppm	-0.0001 ppm	183.8037 ppm
Concentration per Run 3	-0.0009 ppm	0.0327 ppm	0.0002 ppm	0.0087 ppm	0.0561 ppm	-0.0001 ppm	180.5659 ppm
Concentration RSD	127.4 %	9.5 %	93.6 %	3.0 %	1.7 %	52.7 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0014 ppm	0.0220 ppm	0.0147 ppm	4.3510 ppm	0.3261 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0012 ppm	0.0217 ppm	0.0158 ppm	4.3321 ppm	0.3255 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0014 ppm	0.0219 ppm	0.0147 ppm	4.3897 ppm	0.3303 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0015 ppm	0.0223 ppm	0.0134 ppm	4.3310 ppm	0.3224 ppm
Concentration RSD	114.7 %	16.4 %	11.6 %	1.6 %	8.3 %	0.8 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0065 ppm	2.6792 ppm	0.0064 ppm	0.0003 ppm	-0.0004 ppm	-0.0023 ppm
Concentration per Run 1	0.0006 ppm	0.0064 ppm	2.6470 ppm	0.0065 ppm	0.0008 ppm	0.0008 ppm	-0.0030 ppm
Concentration per Run 2	0.0003 ppm	0.0065 ppm	2.7213 ppm	0.0064 ppm	-0.0002 ppm	-0.0011 ppm	-0.0029 ppm
Concentration per Run 3	0.0005 ppm	0.0066 ppm	2.6693 ppm	0.0062 ppm	0.0002 ppm	-0.0009 ppm	-0.0011 ppm
Concentration RSD	31.0 %	1.7 %	1.4 %	1.7 %	197.1 %	261.6 %	45.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1602 ppm	0.0007 ppm	0.4254 ppm	0.0021 ppm	-0.0016 ppm	0.0024 ppm	-0.0027 ppm
Concentration per Run 1	1.1617 ppm	0.0006 ppm	0.4192 ppm	0.0020 ppm	-0.0016 ppm	0.0024 ppm	-0.0027 ppm
Concentration per Run 2	1.1598 ppm	0.0008 ppm	0.4324 ppm	0.0019 ppm	-0.0014 ppm	0.0020 ppm	-0.0027 ppm
Concentration per Run 3	1.1590 ppm	0.0007 ppm	0.4245 ppm	0.0023 ppm	-0.0019 ppm	0.0027 ppm	-0.0027 ppm
Concentration RSD	0.1 %	16.0 %	1.6 %	9.7 %	17.1 %	14.1 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.0260 %	98.6456 %	97.2891 %	122.2500 %	102.4592 %	107.3799 %
Concentration per Run 1	105.9894 %	98.5284 %	97.4715 %	125.3570 %	102.4955 %	107.3153 %
Concentration per Run 2	103.6528 %	98.5379 %	97.2786 %	121.0933 %	102.3058 %	107.0618 %
Concentration per Run 3	105.4356 %	98.8705 %	97.1172 %	120.2997 %	102.5762 %	107.7624 %
Concentration RSD	1.2 %	0.2 %	0.2 %	2.2 %	0.1 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 1:50:35 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4900 ppm	0.4508 ppm	0.4746 ppm	0.4744 ppm	0.4668 ppm	0.4916 ppm	0.5080 ppm
Concentration per Run 1	0.4898 ppm	0.4521 ppm	0.4756 ppm	0.4761 ppm	0.4615 ppm	0.4852 ppm	0.5070 ppm
Concentration per Run 2	0.4898 ppm	0.4426 ppm	0.4739 ppm	0.4741 ppm	0.4714 ppm	0.4970 ppm	0.5093 ppm
Concentration per Run 3	0.4902 ppm	0.4577 ppm	0.4744 ppm	0.4731 ppm	0.4674 ppm	0.4924 ppm	0.5079 ppm
Recovery Percentage 1	97.993 %	90.161 %	94.924 %	94.889 %	93.356 %	98.312 %	101.608 %
Concentration RSD	0.0 %	1.7 %	0.2 %	0.3 %	1.1 %	1.2 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4969 ppm	0.5011 ppm	0.4995 ppm	0.4784 ppm	0.4995 ppm	4.7317 ppm	0.4822 ppm
Concentration per Run 1	0.4981 ppm	0.5024 ppm	0.4994 ppm	0.4784 ppm	0.4948 ppm	4.6497 ppm	0.4797 ppm
Concentration per Run 2	0.4967 ppm	0.5005 ppm	0.4991 ppm	0.4783 ppm	0.5024 ppm	4.7867 ppm	0.4820 ppm
Concentration per Run 3	0.4959 ppm	0.5004 ppm	0.5000 ppm	0.4785 ppm	0.5014 ppm	4.7587 ppm	0.4848 ppm
Recovery Percentage 1	99.376 %	100.222 %	99.893 %	95.685 %	99.905 %	94.634 %	96.432 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.0 %	0.8 %	1.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4723 ppm	0.4930 ppm	9.7230 ppm	0.4904 ppm	0.4855 ppm	0.4848 ppm	0.5100 ppm
Concentration per Run 1	0.4654 ppm	0.4915 ppm	9.5993 ppm	0.4916 ppm	0.4856 ppm	0.4855 ppm	0.5081 ppm
Concentration per Run 2	0.4784 ppm	0.4930 ppm	9.8295 ppm	0.4906 ppm	0.4862 ppm	0.4850 ppm	0.5093 ppm
Concentration per Run 3	0.4731 ppm	0.4944 ppm	9.7402 ppm	0.4888 ppm	0.4847 ppm	0.4839 ppm	0.5125 ppm
Recovery Percentage 1	94.467 %	98.597 %	97.230 %	98.071 %	97.097 %	96.960 %	101.992 %
Concentration RSD	1.4 %	0.3 %	1.2 %	0.3 %	0.2 %	0.2 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2785 ppm	0.5022 ppm	0.4655 ppm	0.4917 ppm	0.4951 ppm	0.4811 ppm	0.4968 ppm
Concentration per Run 1	5.3001 ppm	0.5032 ppm	0.4598 ppm	0.4898 ppm	0.4962 ppm	0.4806 ppm	0.4983 ppm
Concentration per Run 2	5.2752 ppm	0.5010 ppm	0.4702 ppm	0.4934 ppm	0.4945 ppm	0.4820 ppm	0.4966 ppm
Concentration per Run 3	5.2600 ppm	0.5024 ppm	0.4665 ppm	0.4919 ppm	0.4947 ppm	0.4808 ppm	0.4956 ppm
Recovery Percentage 1	100.542 %	100.437 %	93.099 %	98.340 %	99.022 %	96.219 %	99.370 %
Concentration RSD	0.4 %	0.2 %	1.1 %	0.4 %	0.2 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.2736 %	101.7301 %	100.9940 %	124.1613 %	109.8900 %	111.0804 %
Concentration per Run 1	108.0559 %	101.7916 %	101.2441 %	126.0061 %	109.6851 %	111.3100 %
Concentration per Run 2	106.3870 %	101.7962 %	101.0740 %	123.3994 %	109.9578 %	111.0051 %
Concentration per Run 3	107.3778 %	101.6026 %	100.6638 %	123.0784 %	110.0270 %	110.9260 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.1 %	0.3 %	1.3 %	0.2 %	0.2 %

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 1:56:39 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0174 ppm	0.0005 ppm	0.0016 ppm	0.0004 ppm	0.0002 ppm	0.0129 ppm
Concentration per Run 1	-0.0004 ppm	-0.0180 ppm	0.0004 ppm	0.0016 ppm	0.0005 ppm	0.0003 ppm	0.0084 ppm
Concentration per Run 2	-0.0002 ppm	-0.0193 ppm	0.0012 ppm	0.0015 ppm	0.0006 ppm	0.0003 ppm	0.0209 ppm
Concentration per Run 3	-0.0004 ppm	-0.0148 ppm	-0.0002 ppm	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0094 ppm
Recovery Percentage 1	-4.714 %	-17.380 %	9.470 %	5.417 %	4.472 %	4.872 %	12.912 %
Concentration RSD	42.6 %	13.3 %	153.9 %	9.7 %	58.8 %	15.0 %	54.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0018 ppm	0.0079 ppm	-0.1973 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0018 ppm	0.0061 ppm	-0.1918 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0006 ppm	-0.0019 ppm	0.0087 ppm	-0.1934 ppm	-0.0045 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0018 ppm	0.0088 ppm	-0.2067 ppm	0.0004 ppm
Recovery Percentage 1	-0.541 %	-1.068 %	3.267 %	-18.476 %	15.709 %	-7.893 %	-1.864 %
Concentration RSD	45.1 %	29.0 %	124.6 %	2.4 %	19.8 %	4.1 %	131.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0021 ppm	-0.0064 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.0006 ppm	0.0024 ppm	-0.0011 ppm	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0020 ppm
Concentration per Run 2	0.0003 ppm	0.0022 ppm	0.0038 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm	-0.0005 ppm
Concentration per Run 3	0.0007 ppm	0.0016 ppm	-0.0218 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0011 ppm
Recovery Percentage 1	5.150 %	4.160 %	-0.318 %	0.132 %	1.323 %	0.858 %	8.595 %
Concentration RSD	45.5 %	20.7 %	213.6 %	280.2 %	168.9 %	184.5 %	148.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0026 ppm	-0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm	0.0004 ppm	-0.0026 ppm
Concentration per Run 1	0.0033 ppm	-0.0003 ppm	0.0003 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm	-0.0026 ppm
Concentration per Run 2	0.0015 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0006 ppm	0.0004 ppm	-0.0027 ppm
Concentration per Run 3	0.0029 ppm	-0.0005 ppm	0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0005 ppm	-0.0025 ppm
Recovery Percentage 1	0.511 %	-0.629 %	1.763 %	5.322 %	0.794 %	3.635 %	-52.407 %
Concentration RSD	35.8 %	80.0 %	44.3 %	28.7 %	689.3 %	53.0 %	3.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.5268 %	103.6566 %	102.6717 %	116.0474 %	108.1276 %	109.0178 %
Concentration per Run 1	111.5311 %	103.4139 %	103.0213 %	116.8107 %	108.1030 %	108.8753 %
Concentration per Run 2	107.9024 %	104.0786 %	102.6534 %	115.3317 %	108.1356 %	109.4092 %
Concentration per Run 3	109.1470 %	103.4772 %	102.3403 %	115.9997 %	108.1443 %	108.7689 %
Recovery Percentage 1						
Concentration RSD	1.7 %	0.4 %	0.3 %	0.6 %	0.0 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: XI2432725-23 WG1934453
Analysis started at: 6/16/2024 2:03:00 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0301 ppm	0.0008 ppm	0.0077 ppm	0.0555 ppm	0.0000 ppm	179.5090 ppm
Concentration per Run 1	-0.0001 ppm	0.0249 ppm	0.0017 ppm	0.0086 ppm	0.0552 ppm	0.0000 ppm	177.9314 ppm
Concentration per Run 2	0.0000 ppm	0.0378 ppm	-0.0004 ppm	0.0081 ppm	0.0563 ppm	-0.0001 ppm	182.0016 ppm
Concentration per Run 3	-0.0008 ppm	0.0277 ppm	0.0011 ppm	0.0065 ppm	0.0550 ppm	-0.0001 ppm	178.5939 ppm
Concentration RSD	125.9 %	22.6 %	140.1 %	14.5 %	1.3 %	119.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0015 ppm	0.0223 ppm	0.0163 ppm	4.2068 ppm	0.3219 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0015 ppm	0.0225 ppm	0.0187 ppm	4.1838 ppm	0.3227 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0015 ppm	0.0221 ppm	0.0150 ppm	4.2484 ppm	0.3189 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0016 ppm	0.0224 ppm	0.0151 ppm	4.1883 ppm	0.3242 ppm
Concentration RSD	212.4 %	12.3 %	2.8 %	1.0 %	12.7 %	0.9 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0061 ppm	2.6562 ppm	0.0057 ppm	0.0001 ppm	-0.0012 ppm	-0.0032 ppm
Concentration per Run 1	0.0003 ppm	0.0065 ppm	2.6335 ppm	0.0063 ppm	0.0003 ppm	-0.0018 ppm	-0.0022 ppm
Concentration per Run 2	0.0009 ppm	0.0065 ppm	2.6883 ppm	0.0065 ppm	-0.0001 ppm	-0.0004 ppm	-0.0042 ppm
Concentration per Run 3	0.0003 ppm	0.0054 ppm	2.6467 ppm	0.0044 ppm	0.0002 ppm	-0.0015 ppm	N/A
Concentration RSD	71.1 %	10.4 %	1.1 %	20.9 %	152.9 %	62.7 %	45.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0581 ppm	0.0005 ppm	0.4216 ppm	0.0019 ppm	-0.0008 ppm	0.0023 ppm	-0.0028 ppm
Concentration per Run 1	1.1578 ppm	0.0008 ppm	0.4184 ppm	0.0019 ppm	-0.0012 ppm	0.0023 ppm	-0.0027 ppm
Concentration per Run 2	1.1636 ppm	0.0000 ppm	0.4270 ppm	0.0017 ppm	-0.0010 ppm	0.0023 ppm	-0.0028 ppm
Concentration per Run 3	0.8530 ppm	0.0007 ppm	0.4194 ppm	0.0022 ppm	-0.0002 ppm	0.0024 ppm	-0.0029 ppm
Concentration RSD	16.8 %	96.8 %	1.1 %	12.4 %	63.2 %	2.2 %	3.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.2312 %	98.0467 %	**96.6718 %**	123.3117 %	100.7034 %	107.9921 %
Concentration per Run 1	106.9195 %	98.2741 %	96.8431 %	125.9780 %	102.6702 %	108.3188 %
Concentration per Run 2	104.7216 %	97.6413 %	96.5006 %	122.0120 %	102.2257 %	107.6027 %
Concentration per Run 3	107.0526 %	98.2248 %	N/A	121.9452 %	97.2141 %	108.0546 %
Concentration RSD	1.2 %	0.4 %	**0.3 %**	1.9 %	3.0 %	0.3 %

ICP DataTrace 5

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LabBook: WG1934905_06162024T5.imexp

Sample: I2432725-23 WG1934453
Analysis started at: 6/16/2024 2:09:17 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0024 ppm	0.0007 ppm	0.0125 ppm	0.0626 ppm	-0.0001 ppm	175.7690 ppm
Concentration per Run 1	0.0001 ppm	0.0039 ppm	0.0002 ppm	0.0124 ppm	0.0627 ppm	-0.0001 ppm	175.9038 ppm
Concentration per Run 2	-0.0001 ppm	0.0015 ppm	0.0002 ppm	0.0126 ppm	0.0633 ppm	0.0000 ppm	177.9272 ppm
Concentration per Run 3	0.0001 ppm	0.0018 ppm	0.0019 ppm	0.0123 ppm	0.0619 ppm	-0.0001 ppm	173.4760 ppm
Concentration RSD	225.8 %	54.1 %	135.3 %	1.2 %	1.2 %	43.9 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0110 ppm	0.0126 ppm	7.6082 ppm	2.1307 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0012 ppm	0.0109 ppm	0.0124 ppm	7.5746 ppm	2.1171 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0009 ppm	0.0113 ppm	0.0122 ppm	7.6984 ppm	2.1378 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0109 ppm	0.0130 ppm	7.5515 ppm	2.1372 ppm
Concentration RSD	39.4 %	128.1 %	30.7 %	2.3 %	3.4 %	1.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0219 ppm	3.6954 ppm	0.0073 ppm	0.0006 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0219 ppm	3.7225 ppm	0.0076 ppm	0.0005 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0220 ppm	3.7299 ppm	0.0070 ppm	0.0007 ppm	0.0007 ppm	-0.0025 ppm
Concentration per Run 3	0.0002 ppm	0.0219 ppm	3.6340 ppm	0.0074 ppm	0.0007 ppm	-0.0008 ppm	-0.0005 ppm
Concentration RSD	108.0 %	0.4 %	1.4 %	4.1 %	16.0 %	1,039.4 %	119.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.8821 ppm	0.0010 ppm	0.3350 ppm	0.0022 ppm	-0.0003 ppm	0.0085 ppm	-0.0027 ppm
Concentration per Run 1	1.8850 ppm	0.0013 ppm	0.3359 ppm	0.0021 ppm	-0.0006 ppm	0.0085 ppm	-0.0026 ppm
Concentration per Run 2	1.8799 ppm	0.0008 ppm	0.3391 ppm	0.0021 ppm	0.0008 ppm	0.0082 ppm	-0.0027 ppm
Concentration per Run 3	1.8815 ppm	0.0009 ppm	0.3301 ppm	0.0022 ppm	-0.0012 ppm	0.0087 ppm	-0.0027 ppm
Concentration RSD	0.1 %	27.6 %	1.4 %	3.0 %	306.6 %	3.4 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.5370 %	98.1685 %	96.6828 %	121.3455 %	102.2122 %	107.2716 %
Concentration per Run 1	104.2283 %	97.6114 %	96.7371 %	123.9067 %	102.1055 %	106.9282 %
Concentration per Run 2	103.5346 %	98.3007 %	96.6843 %	120.0483 %	102.3588 %	107.4323 %
Concentration per Run 3	105.8482 %	98.5935 %	96.6269 %	120.0816 %	102.1723 %	107.4542 %
Concentration RSD	1.1 %	0.5 %	0.1 %	1.8 %	0.1 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432725-24 WG1934453
Analysis started at: 6/16/2024 2:15:38 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0074 ppm	0.0012 ppm	0.0130 ppm	0.0615 ppm	-0.0001 ppm	171.9007 ppm
Concentration per Run 1	0.0000 ppm	-0.0012 ppm	0.0002 ppm	0.0133 ppm	0.0605 ppm	0.0000 ppm	169.3202 ppm
Concentration per Run 2	-0.0002 ppm	-0.0110 ppm	0.0015 ppm	0.0131 ppm	0.0623 ppm	0.0000 ppm	173.8918 ppm
Concentration per Run 3	0.0000 ppm	-0.0099 ppm	0.0017 ppm	0.0127 ppm	0.0616 ppm	-0.0001 ppm	172.4902 ppm
Concentration RSD	290.7 %	72.4 %	69.9 %	2.4 %	1.5 %	60.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0005 ppm	0.0012 ppm	0.0163 ppm	0.0062 ppm	6.9340 ppm	2.8878 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0014 ppm	0.0159 ppm	0.0053 ppm	6.8523 ppm	2.8778 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0011 ppm	0.0160 ppm	0.0076 ppm	6.9974 ppm	2.8949 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0012 ppm	0.0169 ppm	0.0058 ppm	6.9523 ppm	2.8906 ppm
Concentration RSD	32.1 %	15.1 %	15.5 %	3.4 %	19.9 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0220 ppm	3.5109 ppm	0.0079 ppm	-0.0002 ppm	0.0001 ppm	-0.0024 ppm
Concentration per Run 1	0.0006 ppm	0.0218 ppm	3.4639 ppm	0.0076 ppm	-0.0002 ppm	-0.0001 ppm	-0.0023 ppm
Concentration per Run 2	0.0009 ppm	0.0221 ppm	3.5515 ppm	0.0081 ppm	0.0000 ppm	0.0005 ppm	-0.0022 ppm
Concentration per Run 3	0.0003 ppm	0.0220 ppm	3.5174 ppm	0.0080 ppm	-0.0003 ppm	-0.0003 ppm	-0.0028 ppm
Concentration RSD	48.3 %	0.8 %	1.3 %	3.1 %	67.9 %	820.8 %	14.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.7577 ppm	0.0005 ppm	0.3222 ppm	0.0021 ppm	-0.0016 ppm	0.0073 ppm	-0.0028 ppm
Concentration per Run 1	1.7544 ppm	0.0007 ppm	0.3174 ppm	0.0020 ppm	-0.0018 ppm	0.0073 ppm	-0.0029 ppm
Concentration per Run 2	1.7576 ppm	-0.0001 ppm	0.3254 ppm	0.0018 ppm	-0.0007 ppm	0.0071 ppm	-0.0027 ppm
Concentration per Run 3	1.7610 ppm	0.0009 ppm	0.3239 ppm	0.0026 ppm	-0.0025 ppm	0.0075 ppm	-0.0029 ppm
Concentration RSD	0.2 %	97.1 %	1.3 %	19.7 %	54.3 %	3.2 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.0904 %	99.0693 %	97.2256 %	123.2550 %	102.2992 %	107.4348 %
Concentration per Run 1	107.6471 %	99.3618 %	97.2882 %	127.0237 %	102.4661 %	107.7592 %
Concentration per Run 2	104.5877 %	99.1879 %	97.0953 %	121.7558 %	102.2049 %	107.3028 %
Concentration per Run 3	106.0362 %	98.6583 %	97.2934 %	120.9855 %	102.2266 %	107.2424 %
Concentration RSD	1.4 %	0.4 %	0.1 %	2.7 %	0.1 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432725-25 WG1934453
Analysis started at: 6/16/2024 2:28:36 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0056 ppm	0.0014 ppm	0.0180 ppm	0.0812 ppm	-0.0001 ppm	179.5455 ppm
Concentration per Run 1	-0.0009 ppm	0.0182 ppm	0.0006 ppm	0.0181 ppm	0.0833 ppm	-0.0001 ppm	184.7424 ppm
Concentration per Run 2	-0.0005 ppm	0.0104 ppm	0.0025 ppm	0.0182 ppm	0.0807 ppm	0.0000 ppm	177.8373 ppm
Concentration per Run 3	-0.0003 ppm	-0.0117 ppm	0.0012 ppm	0.0179 ppm	0.0797 ppm	-0.0001 ppm	176.0569 ppm
Concentration RSD	56.8 %	276.3 %	67.2 %	1.0 %	2.3 %	77.8 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0009 ppm	0.0129 ppm	0.0104 ppm	5.1876 ppm	4.0078 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0125 ppm	0.0122 ppm	5.3637 ppm	4.0085 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0132 ppm	0.0083 ppm	5.1206 ppm	4.0031 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0130 ppm	0.0106 ppm	5.0785 ppm	4.0118 ppm
Concentration RSD	309.4 %	9.6 %	24.9 %	2.7 %	18.5 %	3.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0104 ppm	0.0208 ppm	2.6008 ppm	0.0091 ppm	0.0010 ppm	-0.0002 ppm	-0.0024 ppm
Concentration per Run 1	0.0108 ppm	0.0208 ppm	2.6631 ppm	0.0090 ppm	0.0016 ppm	-0.0008 ppm	-0.0041 ppm
Concentration per Run 2	0.0103 ppm	0.0208 ppm	2.5711 ppm	0.0092 ppm	0.0008 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 3	0.0101 ppm	0.0210 ppm	2.5683 ppm	0.0092 ppm	0.0008 ppm	0.0003 ppm	-0.0039 ppm
Concentration RSD	3.6 %	0.6 %	2.1 %	1.5 %	44.2 %	338.4 %	111.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9913 ppm	0.0003 ppm	0.3040 ppm	0.0019 ppm	-0.0010 ppm	0.0048 ppm	-0.0002 ppm
Concentration per Run 1	1.9878 ppm	0.0005 ppm	0.3124 ppm	0.0019 ppm	0.0002 ppm	0.0048 ppm	-0.0001 ppm
Concentration per Run 2	1.9929 ppm	-0.0001 ppm	0.3011 ppm	0.0021 ppm	-0.0009 ppm	0.0048 ppm	-0.0001 ppm
Concentration per Run 3	1.9933 ppm	0.0004 ppm	0.2986 ppm	0.0018 ppm	-0.0022 ppm	0.0047 ppm	-0.0002 ppm
Concentration RSD	0.2 %	112.0 %	2.4 %	8.5 %	124.2 %	1.5 %	26.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.3354 %	98.4687 %	96.7558 %	120.9699 %	102.1011 %	107.4462 %
Concentration per Run 1	101.0706 %	98.2872 %	96.6045 %	119.9929 %	102.0119 %	107.6230 %
Concentration per Run 2	105.2844 %	98.6219 %	96.7642 %	121.4073 %	102.1368 %	107.4126 %
Concentration per Run 3	106.6512 %	98.4972 %	96.8986 %	121.5095 %	102.1547 %	107.3031 %
Concentration RSD	2.8 %	0.2 %	0.2 %	0.7 %	0.1 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432547-01 wg1934744
Analysis started at: 6/16/2024 2:34:54 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.4109 ppm	0.0027 ppm	0.2651 ppm	0.0877 ppm	0.0000 ppm	53.4047 ppm
Concentration per Run 1	-0.0002 ppm	0.4069 ppm	0.0026 ppm	0.2660 ppm	0.0877 ppm	0.0000 ppm	53.2855 ppm
Concentration per Run 2	-0.0001 ppm	0.4236 ppm	0.0036 ppm	0.2649 ppm	0.0877 ppm	0.0000 ppm	53.4344 ppm
Concentration per Run 3	0.0003 ppm	0.4023 ppm	0.0019 ppm	0.2643 ppm	0.0879 ppm	0.0000 ppm	53.4942 ppm
Concentration RSD	1,718.2 %	2.7 %	31.0 %	0.3 %	0.2 %	921.2 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0016 ppm	0.0026 ppm	0.0036 ppm	0.5840 ppm	13.2105 ppm	18.4849 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	0.0026 ppm	0.0037 ppm	0.5812 ppm	13.1202 ppm	18.5254 ppm
Concentration per Run 2	0.0001 ppm	0.0017 ppm	0.0026 ppm	0.0034 ppm	0.5830 ppm	13.2315 ppm	18.5203 ppm
Concentration per Run 3	0.0000 ppm	0.0016 ppm	0.0025 ppm	0.0036 ppm	0.5879 ppm	13.2799 ppm	18.4091 ppm
Concentration RSD	62.5 %	5.1 %	2.2 %	5.1 %	0.6 %	0.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6309 ppm	0.0088 ppm	335.1482 ppm	0.0021 ppm	0.0011 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.6276 ppm	0.0088 ppm	336.1535 ppm	0.0021 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.6319 ppm	0.0086 ppm	336.8946 ppm	0.0023 ppm	0.0014 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 3	0.6331 ppm	0.0090 ppm	332.3966 ppm	0.0021 ppm	0.0015 ppm	0.0006 ppm	0.0027 ppm
Concentration RSD	0.5 %	2.0 %	0.7 %	4.9 %	55.7 %	1,561.1 %	178.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.9824 ppm	-0.0010 ppm	0.4661 ppm	0.0246 ppm	0.0019 ppm	0.0079 ppm	0.0055 ppm
Concentration per Run 1	9.0160 ppm	-0.0007 ppm	0.4637 ppm	0.0246 ppm	0.0027 ppm	0.0082 ppm	0.0056 ppm
Concentration per Run 2	8.9677 ppm	-0.0010 ppm	0.4670 ppm	0.0245 ppm	0.0007 ppm	0.0075 ppm	0.0055 ppm
Concentration per Run 3	8.9634 ppm	-0.0012 ppm	0.4676 ppm	0.0246 ppm	0.0023 ppm	0.0080 ppm	0.0054 ppm
Concentration RSD	0.3 %	23.8 %	0.4 %	0.2 %	54.8 %	4.7 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.7094 %	96.7079 %	96.5860 %	108.6116 %	99.3488 %	102.3811 %
Concentration per Run 1	110.5358 %	96.6398 %	97.0584 %	107.1631 %	99.1760 %	101.9445 %
Concentration per Run 2	109.4614 %	96.7602 %	96.3237 %	108.6635 %	99.4250 %	102.3274 %
Concentration per Run 3	109.1310 %	96.7235 %	96.3758 %	110.0082 %	99.4455 %	102.8714 %
Concentration RSD	0.7 %	0.1 %	0.4 %	1.3 %	0.2 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432940-01 wg1934744
Analysis started at: 6/16/2024 2:41:18 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	3.1836 ppm	0.0028 ppm	0.3510 ppm	0.0376 ppm	0.0000 ppm	107.0650 ppm
Concentration per Run 1	-0.0002 ppm	3.1754 ppm	0.0025 ppm	0.3525 ppm	0.0377 ppm	-0.0001 ppm	106.6879 ppm
Concentration per Run 2	-0.0007 ppm	3.2240 ppm	0.0035 ppm	0.3509 ppm	0.0375 ppm	0.0000 ppm	107.7937 ppm
Concentration per Run 3	-0.0001 ppm	3.1515 ppm	0.0023 ppm	0.3497 ppm	0.0375 ppm	0.0001 ppm	106.7134 ppm
Concentration RSD	84.7 %	1.2 %	21.3 %	0.4 %	0.3 %	1,012.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0016 ppm	0.0030 ppm	0.0029 ppm	2.0570 ppm	58.2261 ppm	13.2772 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	0.0028 ppm	0.0028 ppm	2.0285 ppm	57.9683 ppm	13.3273 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	0.0032 ppm	0.0031 ppm	2.0740 ppm	58.5552 ppm	13.2796 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0029 ppm	0.0030 ppm	2.0684 ppm	58.1548 ppm	13.2247 ppm
Concentration RSD	12.0 %	8.8 %	8.3 %	3.6 %	1.2 %	0.5 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4755 ppm	0.0060 ppm	441.7585 ppm	0.0064 ppm	0.0003 ppm	-0.0009 ppm	-0.0014 ppm
Concentration per Run 1	0.4733 ppm	0.0060 ppm	442.8490 ppm	0.0065 ppm	0.0004 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	0.4792 ppm	0.0061 ppm	445.0742 ppm	0.0063 ppm	0.0002 ppm	-0.0022 ppm	-0.0017 ppm
Concentration per Run 3	0.4739 ppm	0.0060 ppm	437.3523 ppm	0.0066 ppm	0.0003 ppm	0.0001 ppm	-0.0021 ppm
Concentration RSD	0.7 %	1.0 %	0.9 %	2.4 %	32.0 %	121.5 %	70.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.5813 ppm	-0.0003 ppm	0.6768 ppm	0.0518 ppm	0.0015 ppm	0.0048 ppm	0.0078 ppm
Concentration per Run 1	7.6149 ppm	0.0000 ppm	0.6741 ppm	0.0521 ppm	0.0032 ppm	0.0049 ppm	0.0079 ppm
Concentration per Run 2	7.5835 ppm	-0.0006 ppm	0.6807 ppm	0.0520 ppm	0.0007 ppm	0.0050 ppm	0.0078 ppm
Concentration per Run 3	7.5455 ppm	-0.0003 ppm	0.6755 ppm	0.0514 ppm	0.0005 ppm	0.0047 ppm	0.0076 ppm
Concentration RSD	0.5 %	85.8 %	0.5 %	0.7 %	102.5 %	2.7 %	1.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.3585 %	95.0942 %	94.8058 %	109.0198 %	97.4007 %	102.1421 %
Concentration per Run 1	109.6640 %	95.3865 %	94.9564 %	106.2666 %	97.0811 %	101.8843 %
Concentration per Run 2	108.6621 %	95.1672 %	94.7985 %	108.6859 %	97.3572 %	102.1590 %
Concentration per Run 3	109.7493 %	94.7287 %	94.6625 %	112.1068 %	97.7639 %	102.3831 %
Concentration RSD	0.6 %	0.4 %	0.2 %	2.7 %	0.4 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-3 wg1934744
Analysis started at: 6/16/2024 2:48:14 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0514 ppm	5.0204 ppm	0.1318 ppm	1.3341 ppm	1.9007 ppm	0.0493 ppm	115.2879 ppm
Concentration per Run 1	0.0513 ppm	5.0373 ppm	0.1310 ppm	1.3321 ppm	1.9095 ppm	0.0496 ppm	115.8531 ppm
Concentration per Run 2	0.0513 ppm	5.0509 ppm	0.1332 ppm	1.3387 ppm	1.9134 ppm	0.0494 ppm	115.8890 ppm
Concentration per Run 3	0.0515 ppm	4.9728 ppm	0.1313 ppm	1.3316 ppm	1.8793 ppm	0.0489 ppm	114.1217 ppm
Concentration RSD	0.2 %	0.8 %	0.9 %	0.3 %	1.0 %	0.7 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0555 ppm	0.5039 ppm	0.2030 ppm	0.2579 ppm	2.9935 ppm	67.6073 ppm	22.0457 ppm
Concentration per Run 1	0.0555 ppm	0.5031 ppm	0.2027 ppm	0.2583 ppm	2.9953 ppm	68.0305 ppm	22.0559 ppm
Concentration per Run 2	0.0556 ppm	0.5054 ppm	0.2040 ppm	0.2583 ppm	2.9986 ppm	67.8772 ppm	22.0685 ppm
Concentration per Run 3	0.0554 ppm	0.5031 ppm	0.2022 ppm	0.2570 ppm	2.9865 ppm	66.9143 ppm	22.0126 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	0.2 %	0.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.9348 ppm	1.0029 ppm	440.0325 ppm	0.4944 ppm	0.5171 ppm	0.5129 ppm	0.1303 ppm
Concentration per Run 1	0.9396 ppm	0.9890 ppm	444.9276 ppm	0.4938 ppm	0.5165 ppm	0.5108 ppm	0.1303 ppm
Concentration per Run 2	0.9382 ppm	1.0066 ppm	444.6816 ppm	0.4959 ppm	0.5196 ppm	0.5142 ppm	0.1287 ppm
Concentration per Run 3	0.9267 ppm	1.0131 ppm	430.4884 ppm	0.4935 ppm	0.5150 ppm	0.5135 ppm	0.1318 ppm
Concentration RSD	0.8 %	1.2 %	1.9 %	0.3 %	0.5 %	0.4 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.5681 ppm	1.0214 ppm	1.5850 ppm	1.0415 ppm	0.1177 ppm	0.5005 ppm	0.5224 ppm
Concentration per Run 1	8.5582 ppm	1.0186 ppm	1.5927 ppm	1.0420 ppm	0.1178 ppm	0.5009 ppm	0.5216 ppm
Concentration per Run 2	8.6013 ppm	1.0246 ppm	1.5948 ppm	1.0397 ppm	0.1157 ppm	0.5017 ppm	0.5242 ppm
Concentration per Run 3	8.5447 ppm	1.0209 ppm	1.5674 ppm	1.0430 ppm	0.1197 ppm	0.4989 ppm	0.5213 ppm
Concentration RSD	0.3 %	0.3 %	1.0 %	0.2 %	1.7 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.3219 %	94.9640 %	94.2858 %	113.4766 %	98.7648 %	104.3638 %
Concentration per Run 1	108.1288 %	95.2477 %	94.4608 %	110.8061 %	99.0890 %	104.6091 %
Concentration per Run 2	108.0147 %	94.5188 %	94.0378 %	113.6719 %	98.3581 %	103.9749 %
Concentration per Run 3	108.8222 %	95.1253 %	94.3589 %	115.9517 %	98.8475 %	104.5074 %
Concentration RSD	0.4 %	0.4 %	0.2 %	2.3 %	0.4 %	0.3 %

ICP DataTrace 5

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LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-4 wg1934744
Analysis started at: 6/16/2024 2:55:00 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	3.1506 ppm	0.0034 ppm	0.3500 ppm	0.0379 ppm	0.0000 ppm	106.0723 ppm
Concentration per Run 1	0.0004 ppm	3.1625 ppm	0.0034 ppm	0.3513 ppm	0.0385 ppm	0.0000 ppm	106.5897 ppm
Concentration per Run 2	-0.0010 ppm	3.1689 ppm	0.0028 ppm	0.3508 ppm	0.0378 ppm	0.0000 ppm	106.3026 ppm
Concentration per Run 3	-0.0004 ppm	3.1205 ppm	0.0040 ppm	0.3480 ppm	0.0375 ppm	0.0000 ppm	105.3247 ppm
Concentration RSD	209.9 %	0.8 %	17.4 %	0.5 %	1.3 %	38.5 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0015 ppm	0.0028 ppm	0.0032 ppm	2.0582 ppm	58.4445 ppm	13.0979 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	0.0029 ppm	0.0031 ppm	2.0516 ppm	58.7324 ppm	13.1450 ppm
Concentration per Run 2	0.0000 ppm	0.0015 ppm	0.0023 ppm	0.0032 ppm	2.0708 ppm	58.5701 ppm	13.0830 ppm
Concentration per Run 3	-0.0001 ppm	0.0014 ppm	0.0033 ppm	0.0032 ppm	2.0522 ppm	58.0310 ppm	13.0658 ppm
Concentration RSD	49.4 %	3.4 %	18.6 %	1.9 %	0.5 %	0.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4740 ppm	0.0108 ppm	434.6271 ppm	0.0065 ppm	0.0017 ppm	0.0013 ppm	0.0012 ppm
Concentration per Run 1	0.4758 ppm	0.0113 ppm	434.5341 ppm	0.0067 ppm	0.0021 ppm	0.0016 ppm	0.0014 ppm
Concentration per Run 2	0.4752 ppm	0.0106 ppm	437.7675 ppm	0.0063 ppm	0.0024 ppm	0.0006 ppm	0.0026 ppm
Concentration per Run 3	0.4710 ppm	0.0106 ppm	431.5796 ppm	0.0064 ppm	0.0005 ppm	0.0016 ppm	-0.0003 ppm
Concentration RSD	0.6 %	3.5 %	0.7 %	2.7 %	60.3 %	48.3 %	117.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.5050 ppm	0.0013 ppm	0.6742 ppm	0.0513 ppm	0.0006 ppm	0.0047 ppm	0.0077 ppm
Concentration per Run 1	7.5408 ppm	0.0015 ppm	0.6782 ppm	0.0515 ppm	0.0005 ppm	0.0050 ppm	0.0078 ppm
Concentration per Run 2	7.5173 ppm	0.0014 ppm	0.6747 ppm	0.0517 ppm	0.0008 ppm	0.0045 ppm	0.0077 ppm
Concentration per Run 3	7.4571 ppm	0.0009 ppm	0.6698 ppm	0.0506 ppm	0.0004 ppm	0.0047 ppm	0.0076 ppm
Concentration RSD	0.6 %	25.8 %	0.6 %	1.1 %	36.5 %	5.0 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.0048 %	95.1315 %	95.2412 %	108.7833 %	96.8498 %	101.7865 %
Concentration per Run 1	108.0279 %	95.1874 %	95.6495 %	106.6722 %	96.5725 %	101.3182 %
Concentration per Run 2	107.4484 %	95.5439 %	95.1974 %	108.2135 %	96.8989 %	102.1308 %
Concentration per Run 3	108.5380 %	94.6633 %	94.8767 %	111.4643 %	97.0781 %	101.9106 %
Concentration RSD	0.5 %	0.5 %	0.4 %	2.2 %	0.3 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-5 wg1934744
Analysis started at: 6/16/2024 3:02:19 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0458 ppm	4.7828 ppm	0.1188 ppm	1.2336 ppm	1.7316 ppm	0.0446 ppm	112.9760 ppm
Concentration per Run 1	0.0462 ppm	4.7496 ppm	0.1197 ppm	1.2384 ppm	1.7214 ppm	0.0444 ppm	112.6845 ppm
Concentration per Run 2	0.0456 ppm	4.8269 ppm	0.1192 ppm	1.2324 ppm	1.7482 ppm	0.0449 ppm	113.7877 ppm
Concentration per Run 3	0.0458 ppm	4.7720 ppm	0.1174 ppm	1.2299 ppm	1.7254 ppm	0.0445 ppm	112.4556 ppm
Concentration RSD	0.7 %	0.8 %	1.0 %	0.4 %	0.8 %	0.7 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0491 ppm	0.4459 ppm	0.1812 ppm	0.2312 ppm	2.9104 ppm	66.4440 ppm	21.2137 ppm
Concentration per Run 1	0.0495 ppm	0.4484 ppm	0.1823 ppm	0.2322 ppm	2.8955 ppm	66.3979 ppm	21.2517 ppm
Concentration per Run 2	0.0490 ppm	0.4459 ppm	0.1811 ppm	0.2307 ppm	2.9308 ppm	66.8982 ppm	21.2335 ppm
Concentration per Run 3	0.0489 ppm	0.4433 ppm	0.1801 ppm	0.2308 ppm	2.9050 ppm	66.0359 ppm	21.1559 ppm
Concentration RSD	0.6 %	0.6 %	0.6 %	0.4 %	0.6 %	0.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.8895 ppm	0.9076 ppm	**431.8774 ppm**	0.4419 ppm	0.4787 ppm	0.4497 ppm	0.1163 ppm
Concentration per Run 1	0.8859 ppm	0.9010 ppm	434.8068 ppm	0.4447 ppm	0.4820 ppm	0.4486 ppm	0.1150 ppm
Concentration per Run 2	0.8975 ppm	0.9083 ppm	436.1753 ppm	0.4417 ppm	0.4791 ppm	0.4511 ppm	0.1191 ppm
Concentration per Run 3	0.8850 ppm	0.9136 ppm	424.6501 ppm	0.4394 ppm	0.4751 ppm	0.4494 ppm	0.1149 ppm
Concentration RSD	0.8 %	0.7 %	1.5 %	0.6 %	0.7 %	0.3 %	2.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.1705 ppm	0.9273 ppm	1.5078 ppm	0.9647 ppm	0.1060 ppm	0.4486 ppm	0.4631 ppm
Concentration per Run 1	8.1672 ppm	0.9321 ppm	1.5021 ppm	0.9693 ppm	0.1063 ppm	0.4495 ppm	0.4660 ppm
Concentration per Run 2	8.1805 ppm	0.9279 ppm	1.5203 ppm	0.9644 ppm	0.1061 ppm	0.4494 ppm	0.4628 ppm
Concentration per Run 3	8.1638 ppm	0.9218 ppm	1.5011 ppm	0.9605 ppm	0.1055 ppm	0.4467 ppm	0.4605 ppm
Concentration RSD	0.1 %	0.6 %	0.7 %	0.5 %	0.4 %	0.4 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.3535 %	95.2509 %	94.8828 %	116.9696 %	98.3993 %	103.6588 %
Concentration per Run 1	107.1314 %	95.2202 %	94.9062 %	115.2640 %	98.4167 %	103.3826 %
Concentration per Run 2	106.9299 %	95.3260 %	95.2047 %	116.8932 %	98.4228 %	103.7149 %
Concentration per Run 3	107.9992 %	95.2067 %	94.5376 %	118.7515 %	98.3584 %	103.8790 %
Concentration RSD	0.5 %	0.1 %	0.4 %	1.5 %	0.0 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-6D5 wg1934744
Analysis started at: 6/16/2024 3:09:01 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.6365 ppm	-0.0002 ppm	0.0703 ppm	0.0085 ppm	0.0000 ppm	21.5538 ppm
Concentration per Run 1	-0.0005 ppm	0.6219 ppm	0.0011 ppm	0.0709 ppm	0.0083 ppm	0.0001 ppm	21.0853 ppm
Concentration per Run 2	-0.0003 ppm	0.6378 ppm	-0.0005 ppm	0.0700 ppm	0.0086 ppm	-0.0001 ppm	21.7004 ppm
Concentration per Run 3	-0.0003 ppm	0.6498 ppm	-0.0012 ppm	0.0701 ppm	0.0085 ppm	-0.0001 ppm	21.8757 ppm
Concentration RSD	33.0 %	2.2 %	645.0 %	0.7 %	2.1 %	213.5 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0006 ppm	-0.0002 ppm	0.4291 ppm	11.8176 ppm	2.7316 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.4154 ppm	11.5508 ppm	2.7341 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.4366 ppm	11.9009 ppm	2.7253 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0009 ppm	-0.0006 ppm	0.4353 ppm	12.0012 ppm	2.7354 ppm
Concentration RSD	42.8 %	91.8 %	50.9 %	205.0 %	2.8 %	2.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0976 ppm	0.0081 ppm	106.6954 ppm	0.0013 ppm	0.0006 ppm	0.0036 ppm	0.0010 ppm
Concentration per Run 1	0.0955 ppm	0.0091 ppm	104.3483 ppm	0.0011 ppm	0.0000 ppm	0.0063 ppm	0.0029 ppm
Concentration per Run 2	0.0987 ppm	0.0081 ppm	107.5265 ppm	0.0016 ppm	0.0009 ppm	0.0027 ppm	0.0003 ppm
Concentration per Run 3	0.0987 ppm	0.0072 ppm	108.2112 ppm	0.0011 ppm	0.0008 ppm	0.0018 ppm	-0.0002 ppm
Concentration RSD	1.9 %	12.1 %	1.9 %	22.3 %	83.2 %	66.0 %	169.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4401 ppm	0.0027 ppm	0.1373 ppm	0.0113 ppm	0.0005 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	1.4465 ppm	0.0027 ppm	0.1343 ppm	0.0115 ppm	-0.0001 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 2	1.4413 ppm	0.0029 ppm	0.1381 ppm	0.0108 ppm	0.0009 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 3	1.4326 ppm	0.0023 ppm	0.1396 ppm	0.0115 ppm	0.0009 ppm	0.0009 ppm	0.0001 ppm
Concentration RSD	0.5 %	11.6 %	2.0 %	3.3 %	108.8 %	19.9 %	46.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.3561 %	99.6107 %	99.2223 %	113.5046 %	105.2385 %	107.3920 %
Concentration per Run 1	110.6959 %	99.6570 %	99.1583 %	114.1701 %	104.8630 %	107.4059 %
Concentration per Run 2	107.1674 %	99.4582 %	99.3355 %	112.3571 %	105.1125 %	107.3647 %
Concentration per Run 3	107.2051 %	99.7169 %	99.1730 %	113.9866 %	105.7400 %	107.4052 %
Concentration RSD	1.9 %	0.1 %	0.1 %	0.9 %	0.4 %	0.0 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 3:15:15 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4844 ppm	0.4184 ppm	0.4704 ppm	0.4717 ppm	0.4463 ppm	0.4716 ppm	0.4611 ppm
Concentration per Run 1	0.4848 ppm	0.3891 ppm	0.4687 ppm	0.4715 ppm	0.4283 ppm	0.4531 ppm	0.4443 ppm
Concentration per Run 2	0.4836 ppm	0.4287 ppm	0.4695 ppm	0.4717 ppm	0.4539 ppm	0.4798 ppm	0.4719 ppm
Concentration per Run 3	0.4847 ppm	0.4373 ppm	0.4731 ppm	0.4719 ppm	0.4566 ppm	0.4819 ppm	0.4671 ppm
Recovery Percentage 1	96.877 %	83.671 %	94.088 %	94.343 %	89.256 %	94.320 %	92.221 %
Concentration RSD	0.1 %	6.1 %	0.5 %	0.1 %	3.5 %	3.4 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4938 ppm	0.4984 ppm	0.4969 ppm	0.4744 ppm	0.4773 ppm	4.5913 ppm	0.4750 ppm
Concentration per Run 1	0.4935 ppm	0.4986 ppm	0.4977 ppm	0.4739 ppm	0.4612 ppm	4.3875 ppm	0.4773 ppm
Concentration per Run 2	0.4937 ppm	0.4979 ppm	0.4985 ppm	0.4748 ppm	0.4844 ppm	4.6887 ppm	0.4727 ppm
Concentration per Run 3	0.4943 ppm	0.4985 ppm	0.4944 ppm	0.4743 ppm	0.4863 ppm	4.6978 ppm	0.4751 ppm
Recovery Percentage 1	98.769 %	99.671 %	99.375 %	94.872 %	95.454 %	91.827 %	95.009 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.1 %	2.9 %	3.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4480 ppm	0.4930 ppm	9.4355 ppm	0.4847 ppm	0.4815 ppm	0.4855 ppm	0.5096 ppm
Concentration per Run 1	0.4300 ppm	0.4911 ppm	9.1204 ppm	0.4837 ppm	0.4825 ppm	0.4845 ppm	0.5081 ppm
Concentration per Run 2	0.4554 ppm	0.4922 ppm	9.5855 ppm	0.4852 ppm	0.4811 ppm	0.4867 ppm	0.5078 ppm
Concentration per Run 3	0.4587 ppm	0.4958 ppm	9.6006 ppm	0.4852 ppm	0.4808 ppm	0.4852 ppm	0.5128 ppm
Recovery Percentage 1	89.606 %	98.602 %	94.355 %	96.944 %	96.295 %	97.097 %	101.917 %
Concentration RSD	3.5 %	0.5 %	2.9 %	0.2 %	0.2 %	0.2 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2145 ppm	0.5016 ppm	0.4461 ppm	0.4850 ppm	0.4928 ppm	0.4773 ppm	0.4917 ppm
Concentration per Run 1	5.2135 ppm	0.5012 ppm	0.4287 ppm	0.4857 ppm	0.4914 ppm	0.4780 ppm	0.4917 ppm
Concentration per Run 2	5.2169 ppm	0.5010 ppm	0.4539 ppm	0.4839 ppm	0.4938 ppm	0.4764 ppm	0.4921 ppm
Concentration per Run 3	5.2131 ppm	0.5027 ppm	0.4556 ppm	0.4854 ppm	0.4932 ppm	0.4774 ppm	0.4914 ppm
Recovery Percentage 1	99.324 %	100.319 %	89.220 %	97.001 %	98.561 %	95.452 %	98.349 %
Concentration RSD	0.0 %	0.2 %	3.4 %	0.2 %	0.3 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	111.4990 %	102.2650 %	101.2963 %	127.8792 %	110.6930 %	112.2923 %
Concentration per Run 1	115.1822 %	102.2072 %	101.2005 %	132.1291 %	110.6606 %	112.1231 %
Concentration per Run 2	110.1987 %	102.1502 %	101.4648 %	127.1728 %	110.7467 %	112.3443 %
Concentration per Run 3	109.1161 %	102.4375 %	101.2237 %	124.3358 %	110.6716 %	112.4095 %
Recovery Percentage 1						
Concentration RSD	2.9 %	0.1 %	0.1 %	3.1 %	0.0 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 3:21:19 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0055 ppm	-0.0005 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 1	0.0001 ppm	-0.0073 ppm	-0.0006 ppm	0.0021 ppm	0.0006 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0022 ppm	0.0002 ppm	0.0001 ppm	0.0071 ppm
Concentration per Run 3	-0.0004 ppm	-0.0095 ppm	-0.0005 ppm	0.0019 ppm	0.0004 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	-1.863 %	-5.544 %	-10.300 %	6.824 %	3.803 %	2.000 %	2.554 %
Concentration RSD	211.9 %	92.8 %	17.6 %	5.6 %	56.6 %	99.6 %	153.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0015 ppm	0.0082 ppm	-0.1453 ppm	-0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0016 ppm	0.0088 ppm	-0.0834 ppm	-0.0056 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0016 ppm	0.0070 ppm	-0.1910 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0013 ppm	0.0088 ppm	-0.1616 ppm	-0.0045 ppm
Recovery Percentage 1	-0.580 %	-0.750 %	2.999 %	-15.134 %	16.412 %	-5.813 %	-3.829 %
Concentration RSD	114.1 %	55.3 %	85.8 %	10.8 %	12.4 %	38.3 %	56.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0026 ppm	0.0938 ppm	0.0001 ppm	0.0011 ppm	-0.0008 ppm	0.0018 ppm
Concentration per Run 1	0.0005 ppm	0.0030 ppm	0.1015 ppm	0.0000 ppm	0.0008 ppm	-0.0008 ppm	0.0028 ppm
Concentration per Run 2	-0.0004 ppm	0.0026 ppm	0.0787 ppm	0.0005 ppm	0.0007 ppm	-0.0008 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0021 ppm	0.1013 ppm	-0.0003 ppm	0.0019 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	0.147 %	5.105 %	4.692 %	0.224 %	11.128 %	-1.649 %	17.736 %
Concentration RSD	3,052.4 %	17.5 %	13.9 %	713.6 %	57.9 %	6.2 %	97.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0025 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0004 ppm	-0.0028 ppm
Concentration per Run 1	0.0024 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	-0.0027 ppm
Concentration per Run 2	0.0026 ppm	0.0007 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0002 ppm	-0.0028 ppm
Concentration per Run 3	0.0024 ppm	0.0005 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm	0.0006 ppm	-0.0030 ppm
Recovery Percentage 1	0.494 %	0.895 %	0.869 %	-2.143 %	-1.940 %	4.087 %	-56.691 %
Concentration RSD	5.1 %	52.8 %	145.6 %	107.0 %	14.5 %	46.3 %	4.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	111.3965 %	102.3326 %	100.9847 %	116.6915 %	106.4739 %	108.1946 %
Concentration per Run 1	115.0508 %	102.2223 %	100.9753 %	118.2468 %	106.3090 %	108.1318 %
Concentration per Run 2	109.5249 %	101.9915 %	100.9457 %	116.0554 %	106.3243 %	107.7140 %
Concentration per Run 3	109.6138 %	102.7841 %	101.0331 %	115.7722 %	106.7883 %	108.7379 %
Recovery Percentage 1						
Concentration RSD	2.8 %	0.4 %	0.0 %	1.2 %	0.3 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 3:34:21 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4873 ppm	0.4285 ppm	0.4663 ppm	0.4714 ppm	0.4565 ppm	0.4750 ppm	0.4554 ppm
Concentration per Run 1	0.4875 ppm	0.4169 ppm	0.4659 ppm	0.4729 ppm	0.4456 ppm	0.4644 ppm	0.4435 ppm
Concentration per Run 2	0.4870 ppm	0.4473 ppm	0.4660 ppm	0.4712 ppm	0.4635 ppm	0.4831 ppm	0.4669 ppm
Concentration per Run 3	0.4875 ppm	0.4213 ppm	0.4671 ppm	0.4700 ppm	0.4603 ppm	0.4775 ppm	0.4559 ppm
Recovery Percentage 1	97.463 %	85.700 %	93.269 %	94.271 %	91.295 %	94.999 %	91.083 %
Concentration RSD	0.1 %	3.8 %	0.1 %	0.3 %	2.1 %	2.0 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4906 ppm	0.4953 ppm	0.4963 ppm	0.4735 ppm	0.4899 ppm	4.6363 ppm	0.4790 ppm
Concentration per Run 1	0.4921 ppm	0.4964 ppm	0.4970 ppm	0.4744 ppm	0.4755 ppm	4.4851 ppm	0.4778 ppm
Concentration per Run 2	0.4913 ppm	0.4962 ppm	0.4959 ppm	0.4721 ppm	0.5012 ppm	4.7053 ppm	0.4766 ppm
Concentration per Run 3	0.4885 ppm	0.4932 ppm	0.4961 ppm	0.4740 ppm	0.4931 ppm	4.7184 ppm	0.4825 ppm
Recovery Percentage 1	98.125 %	99.050 %	99.268 %	94.705 %	97.987 %	92.725 %	95.795 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.3 %	2.7 %	2.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4556 ppm	0.4880 ppm	9.5176 ppm	0.4838 ppm	0.4784 ppm	0.4811 ppm	0.5070 ppm
Concentration per Run 1	0.4453 ppm	0.4871 ppm	9.3422 ppm	0.4850 ppm	0.4798 ppm	0.4808 ppm	0.5063 ppm
Concentration per Run 2	0.4642 ppm	0.4884 ppm	9.6498 ppm	0.4839 ppm	0.4793 ppm	0.4823 ppm	0.5079 ppm
Concentration per Run 3	0.4572 ppm	0.4885 ppm	9.5608 ppm	0.4826 ppm	0.4760 ppm	0.4803 ppm	0.5068 ppm
Recovery Percentage 1	91.113 %	97.596 %	95.176 %	96.765 %	95.670 %	96.228 %	101.400 %
Concentration RSD	2.1 %	0.2 %	1.7 %	0.2 %	0.4 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8691 ppm	0.5087 ppm	0.4583 ppm	0.4856 ppm	0.4890 ppm	0.4772 ppm	0.4904 ppm
Concentration per Run 1	4.8852 ppm	0.5106 ppm	0.4477 ppm	0.4854 ppm	0.4902 ppm	0.4774 ppm	0.4917 ppm
Concentration per Run 2	4.8720 ppm	0.5092 ppm	0.4652 ppm	0.4849 ppm	0.4894 ppm	0.4767 ppm	0.4913 ppm
Concentration per Run 3	4.8500 ppm	0.5064 ppm	0.4619 ppm	0.4864 ppm	0.4876 ppm	0.4773 ppm	0.4882 ppm
Recovery Percentage 1	92.744 %	101.744 %	91.654 %	97.110 %	97.810 %	95.433 %	98.078 %
Concentration RSD	0.4 %	0.4 %	2.0 %	0.2 %	0.3 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.4452 %	102.1801 %	101.8104 %	126.2361 %	110.7910 %	111.7460 %
Concentration per Run 1	112.7583 %	102.5435 %	101.6847 %	128.8927 %	110.5734 %	112.1842 %
Concentration per Run 2	108.6694 %	102.3435 %	101.3522 %	125.0617 %	110.4813 %	111.8270 %
Concentration per Run 3	109.9080 %	101.6533 %	102.3941 %	124.7538 %	111.3183 %	111.2268 %
Recovery Percentage 1						
Concentration RSD	1.9 %	0.5 %	0.5 %	1.8 %	0.4 %	0.4 %

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 3:40:25 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0248 ppm	-0.0001 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0045 ppm
Concentration per Run 1	0.0000 ppm	-0.0173 ppm	-0.0004 ppm	0.0018 ppm	0.0004 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 2	-0.0003 ppm	-0.0189 ppm	-0.0013 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm
Concentration per Run 3	0.0004 ppm	-0.0380 ppm	0.0015 ppm	0.0018 ppm	0.0002 ppm	0.0000 ppm	-0.0046 ppm
Recovery Percentage 1	0.515 %	-24.763 %	-1.220 %	5.477 %	2.197 %	1.318 %	4.467 %
Concentration RSD	1,005.2 %	46.5 %	2,400.3 %	17.0 %	92.0 %	81.0 %	204.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0017 ppm	0.0059 ppm	-0.2331 ppm	-0.0046 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0015 ppm	0.0054 ppm	-0.2280 ppm	-0.0051 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0016 ppm	0.0071 ppm	-0.2066 ppm	-0.0053 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0006 ppm	-0.0019 ppm	0.0053 ppm	-0.2648 ppm	-0.0034 ppm
Recovery Percentage 1	-0.424 %	-0.220 %	5.554 %	-16.668 %	11.888 %	-9.325 %	-4.584 %
Concentration RSD	208.3 %	119.6 %	25.9 %	10.1 %	16.9 %	12.6 %	23.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0020 ppm	0.0291 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.0006 ppm	0.0023 ppm	0.0278 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0297 ppm	0.0001 ppm	-0.0003 ppm	0.0013 ppm	0.0014 ppm
Concentration per Run 3	0.0002 ppm	0.0016 ppm	0.0298 ppm	0.0000 ppm	0.0007 ppm	0.0021 ppm	0.0009 ppm
Recovery Percentage 1	3.884 %	4.022 %	1.455 %	0.228 %	0.799 %	2.451 %	3.337 %
Concentration RSD	43.5 %	17.6 %	3.9 %	31.4 %	654.6 %	75.4 %	428.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	0.0007 ppm	-0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0002 ppm	-0.0027 ppm
Concentration per Run 1	0.0004 ppm	0.0007 ppm	-0.0003 ppm	0.0003 ppm	0.0011 ppm	0.0001 ppm	-0.0028 ppm
Concentration per Run 2	-0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0001 ppm	-0.0026 ppm
Concentration per Run 3	0.0004 ppm	0.0008 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	0.0003 ppm	-0.0028 ppm
Recovery Percentage 1	0.039 %	1.460 %	-1.577 %	2.794 %	5.542 %	1.517 %	-54.510 %
Concentration RSD	182.6 %	10.6 %	54.7 %	78.6 %	27.9 %	66.0 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	111.9664 %	103.0668 %	101.8573 %	112.7041 %	108.5436 %	108.6580 %
Concentration per Run 1	110.6631 %	102.9448 %	101.6771 %	115.9904 %	108.2791 %	108.1983 %
Concentration per Run 2	114.6887 %	103.4568 %	102.0358 %	114.2889 %	108.3450 %	108.8418 %
Concentration per Run 3	110.5474 %	102.7989 %	101.8591 %	107.8330 %	109.0068 %	108.9339 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.3 %	0.2 %	3.8 %	0.4 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-1 wg1934744
Analysis started at: 6/16/2024 3:54:24 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0161 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0133 ppm
Concentration per Run 1	-0.0005 ppm	-0.0162 ppm	0.0006 ppm	0.0011 ppm	0.0000 ppm	-0.0001 ppm	0.0075 ppm
Concentration per Run 2	-0.0001 ppm	-0.0180 ppm	0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0216 ppm
Concentration per Run 3	0.0000 ppm	-0.0140 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm	-0.0001 ppm	0.0109 ppm
Recovery Percentage 1	-2.783 %	-16.061 %	8.821 %	2.696 %	0.472 %	-1.906 %	13.349 %
Concentration RSD	141.4 %	12.5 %	104.0 %	51.2 %	233.9 %	65.4 %	55.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0011 ppm	0.0045 ppm	-0.2203 ppm	-0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0007 ppm	0.0051 ppm	-0.2353 ppm	-0.0035 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0013 ppm	0.0024 ppm	-0.2295 ppm	-0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0011 ppm	0.0060 ppm	-0.1960 ppm	-0.0049 ppm
Recovery Percentage 1	-1.031 %	-0.034 %	4.326 %	-10.502 %	8.925 %	-8.811 %	-3.784 %
Concentration RSD	43.1 %	2,571.5 %	20.8 %	28.1 %	42.2 %	9.6 %	26.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0004 ppm	0.0240 ppm	-0.0001 ppm	0.0001 ppm	-0.0012 ppm	0.0009 ppm
Concentration per Run 1	0.0006 ppm	0.0004 ppm	0.0154 ppm	-0.0005 ppm	0.0004 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0295 ppm	0.0002 ppm	-0.0003 ppm	-0.0019 ppm	0.0021 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0271 ppm	-0.0001 ppm	0.0001 ppm	-0.0019 ppm	0.0007 ppm
Recovery Percentage 1	3.655 %	0.781 %	1.199 %	-0.501 %	0.614 %	-2.388 %	8.625 %
Concentration RSD	53.5 %	11.9 %	31.4 %	293.1 %	604.5 %	102.9 %	140.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	-0.0005 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.210 %	-0.169 %	-1.027 %	-1.199 %	2.717 %	1.889 %	0.274 %
Concentration RSD	46.5 %	480.7 %	232.3 %	297.8 %	177.4 %	24.1 %	228.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.4136 %	103.0512 %	102.1885 %	102.5092 %	106.8214 %	105.7316 %
Concentration per Run 1	111.1505 %	102.9026 %	102.2602 %	100.2706 %	106.3387 %	104.9890 %
Concentration per Run 2	109.9070 %	103.1761 %	102.3112 %	102.4253 %	106.9338 %	106.0117 %
Concentration per Run 3	110.1834 %	103.0749 %	101.9941 %	104.8318 %	107.1916 %	106.1942 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.1 %	0.2 %	2.2 %	0.4 %	0.6 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-2 wg1934744
Analysis started at: 6/16/2024 4:04:24 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0487 ppm	1.8501 ppm	0.1168 ppm	0.9376 ppm	1.8803 ppm	0.0491 ppm	9.4477 ppm
Concentration per Run 1	0.0483 ppm	1.8022 ppm	0.1148 ppm	0.9300 ppm	1.8329 ppm	0.0478 ppm	9.2409 ppm
Concentration per Run 2	0.0489 ppm	1.8725 ppm	0.1177 ppm	0.9379 ppm	1.9090 ppm	0.0499 ppm	9.5398 ppm
Concentration per Run 3	0.0489 ppm	1.8756 ppm	0.1181 ppm	0.9450 ppm	1.8989 ppm	0.0495 ppm	9.5623 ppm
Concentration RSD	0.7 %	2.2 %	1.5 %	0.8 %	2.2 %	2.3 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0539 ppm	0.4849 ppm	0.1952 ppm	0.2365 ppm	0.9829 ppm	9.7063 ppm	9.4458 ppm
Concentration per Run 1	0.0535 ppm	0.4813 ppm	0.1945 ppm	0.2355 ppm	0.9557 ppm	9.4716 ppm	9.3958 ppm
Concentration per Run 2	0.0538 ppm	0.4847 ppm	0.1957 ppm	0.2366 ppm	1.0013 ppm	9.8310 ppm	9.4422 ppm
Concentration per Run 3	0.0543 ppm	0.4887 ppm	0.1956 ppm	0.2373 ppm	0.9916 ppm	9.8162 ppm	9.4995 ppm
Concentration RSD	0.8 %	0.8 %	0.3 %	0.4 %	2.4 %	2.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4726 ppm	0.9407 ppm	9.9737 ppm	0.4780 ppm	0.5096 ppm	0.4729 ppm	0.1278 ppm
Concentration per Run 1	0.4611 ppm	0.9229 ppm	9.7387 ppm	0.4752 ppm	0.5063 ppm	0.4644 ppm	0.1260 ppm
Concentration per Run 2	0.4801 ppm	0.9410 ppm	10.1199 ppm	0.4774 ppm	0.5090 ppm	0.4744 ppm	0.1299 ppm
Concentration per Run 3	0.4768 ppm	0.9582 ppm	10.0625 ppm	0.4816 ppm	0.5134 ppm	0.4798 ppm	0.1276 ppm
Concentration RSD	2.2 %	1.9 %	2.1 %	0.7 %	0.7 %	1.6 %	1.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0550 ppm	0.9828 ppm	0.9206 ppm	0.9528 ppm	0.1178 ppm	0.4719 ppm	0.4910 ppm
Concentration per Run 1	1.0474 ppm	0.9745 ppm	0.8980 ppm	0.9484 ppm	0.1175 ppm	0.4691 ppm	0.4878 ppm
Concentration per Run 2	1.0572 ppm	0.9837 ppm	0.9351 ppm	0.9524 ppm	0.1169 ppm	0.4727 ppm	0.4904 ppm
Concentration per Run 3	1.0602 ppm	0.9904 ppm	0.9286 ppm	0.9578 ppm	0.1192 ppm	0.4738 ppm	0.4948 ppm
Concentration RSD	0.6 %	0.8 %	2.2 %	0.5 %	1.0 %	0.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.7219 %	100.2569 %	100.1470 %	148.6064 %	112.4383 %	115.9461 %
Concentration per Run 1	110.8111 %	100.1547 %	100.1808 %	155.9408 %	113.3490 %	116.3312 %
Concentration per Run 2	107.8272 %	100.1979 %	100.2114 %	148.2925 %	112.5293 %	115.9247 %
Concentration per Run 3	107.5273 %	100.4180 %	100.0488 %	141.5858 %	111.4366 %	115.5823 %
Concentration RSD	1.7 %	0.1 %	0.1 %	4.8 %	0.9 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432550-01 wg1934744
Analysis started at: 6/16/2024 4:10:28 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.1548 ppm	0.0014 ppm	0.1771 ppm	0.1702 ppm	-0.0001 ppm	103.3787 ppm
Concentration per Run 1	0.0002 ppm	0.1589 ppm	0.0000 ppm	0.1773 ppm	0.1713 ppm	-0.0001 ppm	103.8643 ppm
Concentration per Run 2	-0.0005 ppm	0.1522 ppm	0.0025 ppm	0.1778 ppm	0.1708 ppm	-0.0001 ppm	103.7494 ppm
Concentration per Run 3	-0.0001 ppm	0.1534 ppm	0.0016 ppm	0.1762 ppm	0.1687 ppm	-0.0001 ppm	102.5224 ppm
Concentration RSD	264.7 %	2.3 %	93.8 %	0.4 %	0.8 %	31.4 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0026 ppm	0.1629 ppm	15.9900 ppm	19.7489 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0027 ppm	0.1659 ppm	15.9955 ppm	19.8209 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0009 ppm	0.0024 ppm	0.1622 ppm	16.1065 ppm	19.7787 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0009 ppm	0.0028 ppm	0.1606 ppm	15.8679 ppm	19.6471 ppm
Concentration RSD	48.7 %	9.7 %	5.4 %	7.9 %	1.7 %	0.7 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4916 ppm	0.0104 ppm	304.4419 ppm	0.0009 ppm	0.0008 ppm	0.0025 ppm	0.0007 ppm
Concentration per Run 1	0.4928 ppm	0.0114 ppm	303.3914 ppm	0.0009 ppm	0.0010 ppm	0.0014 ppm	0.0005 ppm
Concentration per Run 2	0.4938 ppm	0.0103 ppm	310.6272 ppm	0.0007 ppm	0.0010 ppm	0.0037 ppm	0.0007 ppm
Concentration per Run 3	0.4882 ppm	0.0095 ppm	299.3070 ppm	0.0011 ppm	0.0003 ppm	0.0025 ppm	0.0011 ppm
Concentration RSD	0.6 %	9.1 %	1.9 %	25.1 %	54.8 %	44.7 %	42.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.2852 ppm	0.0010 ppm	0.6334 ppm	0.0026 ppm	0.0007 ppm	0.0006 ppm	0.0059 ppm
Concentration per Run 1	8.3243 ppm	0.0014 ppm	0.6361 ppm	0.0030 ppm	0.0008 ppm	0.0005 ppm	0.0059 ppm
Concentration per Run 2	8.2968 ppm	0.0007 ppm	0.6353 ppm	0.0026 ppm	0.0015 ppm	0.0006 ppm	0.0058 ppm
Concentration per Run 3	8.2345 ppm	0.0007 ppm	0.6288 ppm	0.0022 ppm	-0.0003 ppm	0.0007 ppm	0.0059 ppm
Concentration RSD	0.6 %	39.8 %	0.6 %	15.6 %	131.1 %	17.7 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.6627 %	95.4523 %	95.0094 %	105.6633 %	98.0456 %	101.3885 %
Concentration per Run 1	107.1107 %	95.3652 %	94.9672 %	103.7503 %	97.7190 %	100.9891 %
Concentration per Run 2	105.5031 %	94.9387 %	95.2181 %	104.8559 %	97.9740 %	100.8904 %
Concentration per Run 3	107.3742 %	96.0529 %	94.8430 %	108.3839 %	98.4437 %	102.2861 %
Concentration RSD	0.9 %	0.6 %	0.2 %	2.3 %	0.4 %	0.8 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432654-02 wg1934744
Analysis started at: 6/16/2024 4:16:50 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0162 ppm	0.0025 ppm	0.0152 ppm	0.0295 ppm	-0.0001 ppm	21.3158 ppm
Concentration per Run 1	-0.0005 ppm	0.0129 ppm	0.0025 ppm	0.0156 ppm	0.0283 ppm	-0.0001 ppm	20.4984 ppm
Concentration per Run 2	-0.0002 ppm	0.0256 ppm	0.0017 ppm	0.0150 ppm	0.0299 ppm	0.0000 ppm	21.6704 ppm
Concentration per Run 3	0.0005 ppm	0.0100 ppm	0.0034 ppm	0.0150 ppm	0.0303 ppm	0.0000 ppm	21.7786 ppm
Concentration RSD	1,905.0 %	51.1 %	32.7 %	2.4 %	3.5 %	66.6 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0009 ppm	0.0009 ppm	0.0003 ppm	1.7123 ppm	1.9623 ppm	5.2737 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0009 ppm	0.0002 ppm	1.6457 ppm	1.9173 ppm	5.3006 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0008 ppm	0.0002 ppm	1.7384 ppm	1.9790 ppm	5.2701 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0011 ppm	0.0004 ppm	1.7529 ppm	1.9905 ppm	5.2503 ppm
Concentration RSD	195.7 %	21.6 %	14.2 %	39.6 %	3.4 %	2.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1610 ppm	0.0014 ppm	56.2139 ppm	0.0009 ppm	0.0016 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.1551 ppm	0.0016 ppm	54.3637 ppm	0.0012 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.1639 ppm	0.0013 ppm	57.1449 ppm	0.0002 ppm	0.0012 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 3	0.1641 ppm	0.0014 ppm	57.1331 ppm	0.0013 ppm	0.0016 ppm	0.0002 ppm	0.0029 ppm
Concentration RSD	3.2 %	10.5 %	2.9 %	66.4 %	24.9 %	775.8 %	196.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.1053 ppm	-0.0003 ppm	0.1409 ppm	0.0018 ppm	0.0010 ppm	0.0009 ppm	0.0067 ppm
Concentration per Run 1	7.1382 ppm	0.0002 ppm	0.1361 ppm	0.0019 ppm	0.0013 ppm	0.0006 ppm	0.0068 ppm
Concentration per Run 2	7.1007 ppm	-0.0009 ppm	0.1433 ppm	0.0015 ppm	0.0014 ppm	0.0011 ppm	0.0066 ppm
Concentration per Run 3	7.0772 ppm	-0.0004 ppm	0.1432 ppm	0.0020 ppm	0.0004 ppm	0.0011 ppm	0.0068 ppm
Concentration RSD	0.4 %	156.0 %	2.9 %	15.8 %	52.4 %	29.3 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.5551 %	100.0946 %	99.2605 %	109.5593 %	105.7839 %	106.3704 %
Concentration per Run 1	115.7179 %	100.1875 %	99.4776 %	109.4326 %	105.3034 %	106.1228 %
Concentration per Run 2	111.4861 %	100.2745 %	98.9433 %	109.4275 %	105.6168 %	106.5629 %
Concentration per Run 3	110.4614 %	99.8217 %	99.3606 %	109.8178 %	106.4315 %	106.4255 %
Concentration RSD	2.5 %	0.2 %	0.3 %	0.2 %	0.6 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432850-01 wg1934744
Analysis started at: 6/16/2024 4:23:04 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	2.1000 ppm	0.0046 ppm	0.1083 ppm	0.0017 ppm	-0.0001 ppm	2.4567 ppm
Concentration per Run 1	0.0002 ppm	2.0373 ppm	0.0049 ppm	0.1089 ppm	0.0018 ppm	-0.0001 ppm	2.3718 ppm
Concentration per Run 2	-0.0006 ppm	2.1358 ppm	0.0040 ppm	0.1085 ppm	0.0018 ppm	-0.0001 ppm	2.5008 ppm
Concentration per Run 3	-0.0002 ppm	2.1268 ppm	0.0048 ppm	0.1076 ppm	0.0016 ppm	-0.0002 ppm	2.4974 ppm
Concentration RSD	244.7 %	2.6 %	10.6 %	0.6 %	6.3 %	43.9 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0099 ppm	0.0402 ppm	0.2977 ppm	1.2831 ppm	0.3259 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0100 ppm	0.0402 ppm	0.2906 ppm	1.2275 ppm	0.3269 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0103 ppm	0.0403 ppm	0.3036 ppm	1.2884 ppm	0.3245 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0093 ppm	0.0401 ppm	0.2989 ppm	1.3333 ppm	0.3263 ppm
Concentration RSD	827.4 %	261.0 %	5.1 %	0.2 %	2.2 %	4.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0257 ppm	0.0012 ppm	29.6057 ppm	0.0036 ppm	0.0018 ppm	0.0013 ppm	0.0018 ppm
Concentration per Run 1	0.0251 ppm	0.0012 ppm	28.8562 ppm	0.0037 ppm	0.0024 ppm	0.0010 ppm	0.0025 ppm
Concentration per Run 2	0.0257 ppm	0.0012 ppm	29.9553 ppm	0.0035 ppm	0.0013 ppm	0.0016 ppm	0.0016 ppm
Concentration per Run 3	0.0263 ppm	0.0013 ppm	30.0057 ppm	0.0037 ppm	0.0017 ppm	0.0012 ppm	0.0012 ppm
Concentration RSD	2.4 %	6.5 %	2.2 %	2.9 %	32.7 %	24.0 %	38.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.6583 ppm	0.0018 ppm	0.0049 ppm	0.0061 ppm	-0.0050 ppm	0.0010 ppm	0.0873 ppm
Concentration per Run 1	0.6612 ppm	0.0020 ppm	0.0049 ppm	0.0057 ppm	-0.0050 ppm	0.0010 ppm	0.0878 ppm
Concentration per Run 2	0.6582 ppm	0.0018 ppm	0.0048 ppm	0.0063 ppm	-0.0052 ppm	0.0009 ppm	0.0870 ppm
Concentration per Run 3	0.6557 ppm	0.0016 ppm	0.0050 ppm	0.0063 ppm	-0.0050 ppm	0.0012 ppm	0.0870 ppm
Concentration RSD	0.4 %	9.9 %	1.4 %	5.3 %	2.9 %	14.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.3326 %	100.3625 %	99.3384 %	108.7006 %	103.4750 %	105.3981 %
Concentration per Run 1	116.4718 %	100.0662 %	99.3410 %	108.8866 %	102.9447 %	104.8844 %
Concentration per Run 2	112.4631 %	100.8317 %	99.3050 %	108.0290 %	103.7943 %	105.7447 %
Concentration per Run 3	111.0627 %	100.1894 %	99.3692 %	109.1863 %	103.6860 %	105.5652 %
Concentration RSD	2.5 %	0.4 %	0.0 %	0.6 %	0.4 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432940-02 wg1934744
Analysis started at: 6/16/2024 4:29:15 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0147 ppm	0.0030 ppm	0.3909 ppm	0.0070 ppm	-0.0001 ppm	54.6138 ppm
Concentration per Run 1	-0.0001 ppm	0.0332 ppm	0.0026 ppm	0.3933 ppm	0.0070 ppm	0.0000 ppm	54.7387 ppm
Concentration per Run 2	-0.0003 ppm	0.0126 ppm	0.0027 ppm	0.3909 ppm	0.0071 ppm	-0.0001 ppm	54.9488 ppm
Concentration per Run 3	0.0002 ppm	-0.0019 ppm	0.0036 ppm	0.3885 ppm	0.0069 ppm	-0.0001 ppm	54.1541 ppm
Concentration RSD	366.3 %	120.3 %	18.3 %	0.6 %	1.8 %	48.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0072 ppm	0.0837 ppm	49.1372 ppm	6.9013 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0074 ppm	0.0833 ppm	49.3131 ppm	6.9293 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0072 ppm	0.0835 ppm	49.4691 ppm	6.9010 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0069 ppm	0.0843 ppm	48.6294 ppm	6.8735 ppm
Concentration RSD	78.1 %	236.7 %	4.8 %	3.0 %	0.6 %	0.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3059 ppm	0.0049 ppm	358.3771 ppm	0.0004 ppm	0.0011 ppm	-0.0002 ppm	-0.0014 ppm
Concentration per Run 1	0.3074 ppm	0.0047 ppm	359.2017 ppm	0.0005 ppm	0.0020 ppm	-0.0007 ppm	-0.0030 ppm
Concentration per Run 2	0.3072 ppm	0.0050 ppm	360.1300 ppm	0.0001 ppm	0.0005 ppm	-0.0009 ppm	0.0012 ppm
Concentration per Run 3	0.3031 ppm	0.0049 ppm	355.7997 ppm	0.0004 ppm	0.0008 ppm	0.0011 ppm	-0.0023 ppm
Concentration RSD	0.8 %	2.6 %	0.6 %	63.6 %	72.3 %	604.5 %	166.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.3315 ppm	-0.0011 ppm	0.6616 ppm	0.0013 ppm	0.0016 ppm	0.0004 ppm	0.0047 ppm
Concentration per Run 1	11.3963 ppm	-0.0003 ppm	0.6638 ppm	0.0017 ppm	0.0010 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run 2	11.3359 ppm	-0.0012 ppm	0.6654 ppm	0.0010 ppm	0.0021 ppm	0.0006 ppm	0.0047 ppm
Concentration per Run 3	11.2622 ppm	-0.0016 ppm	0.6556 ppm	0.0012 ppm	0.0019 ppm	0.0006 ppm	0.0048 ppm
Concentration RSD	0.6 %	64.1 %	0.8 %	29.6 %	36.7 %	79.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.6258 %	95.1017 %	95.4318 %	104.9868 %	98.1003 %	100.9996 %
Concentration per Run 1	107.3149 %	95.2787 %	95.2528 %	102.1685 %	97.5694 %	100.5717 %
Concentration per Run 2	107.4217 %	95.1147 %	95.3139 %	105.5743 %	97.9182 %	101.1785 %
Concentration per Run 3	108.1407 %	94.9116 %	95.7287 %	107.2176 %	98.8131 %	101.2485 %
Concentration RSD	0.4 %	0.2 %	0.3 %	2.5 %	0.7 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-7 wg1934744
Analysis started at: 6/16/2024 4:35:37 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0517 ppm	1.8482 ppm	0.1287 ppm	1.3724 ppm	1.8653 ppm	0.0490 ppm	63.9050 ppm
Concentration per Run 1	0.0517 ppm	1.8397 ppm	0.1295 ppm	1.3761 ppm	1.8532 ppm	0.0487 ppm	63.5136 ppm
Concentration per Run 2	0.0520 ppm	1.8538 ppm	0.1286 ppm	1.3709 ppm	1.8765 ppm	0.0492 ppm	64.2505 ppm
Concentration per Run 3	0.0515 ppm	1.8511 ppm	0.1281 ppm	1.3703 ppm	1.8661 ppm	0.0491 ppm	63.9510 ppm
Concentration RSD	0.5 %	0.4 %	0.6 %	0.2 %	0.6 %	0.5 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0561 ppm	0.5053 ppm	0.2043 ppm	0.2650 ppm	1.0397 ppm	58.6098 ppm	16.0739 ppm
Concentration per Run 1	0.0563 ppm	0.5066 ppm	0.2045 ppm	0.2655 ppm	1.0270 ppm	58.2729 ppm	16.0884 ppm
Concentration per Run 2	0.0560 ppm	0.5048 ppm	0.2044 ppm	0.2639 ppm	1.0465 ppm	58.9867 ppm	16.0268 ppm
Concentration per Run 3	0.0559 ppm	0.5044 ppm	0.2039 ppm	0.2656 ppm	1.0455 ppm	58.5699 ppm	16.1065 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	0.4 %	1.1 %	0.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7661 ppm	0.9992 ppm	359.5522 ppm	0.4936 ppm	0.5157 ppm	0.5305 ppm	0.1289 ppm
Concentration per Run 1	0.7610 ppm	0.9887 ppm	353.7662 ppm	0.4954 ppm	0.5177 ppm	0.5352 ppm	0.1280 ppm
Concentration per Run 2	0.7712 ppm	0.9988 ppm	363.5402 ppm	0.4937 ppm	0.5142 ppm	0.5266 ppm	0.1305 ppm
Concentration per Run 3	0.7661 ppm	1.0100 ppm	361.3501 ppm	0.4916 ppm	0.5153 ppm	0.5296 ppm	0.1281 ppm
Concentration RSD	0.7 %	1.1 %	1.4 %	0.4 %	0.4 %	0.8 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.3924 ppm	1.0276 ppm	1.5654 ppm	1.0051 ppm	0.1170 ppm	0.5047 ppm	0.5267 ppm
Concentration per Run 1	12.4399 ppm	1.0295 ppm	1.5561 ppm	1.0054 ppm	0.1189 ppm	0.5052 ppm	0.5290 ppm
Concentration per Run 2	12.3782 ppm	1.0255 ppm	1.5753 ppm	1.0032 ppm	0.1161 ppm	0.5039 ppm	0.5263 ppm
Concentration per Run 3	12.3590 ppm	1.0277 ppm	1.5647 ppm	1.0066 ppm	0.1161 ppm	0.5048 ppm	0.5249 ppm
Concentration RSD	0.3 %	0.2 %	0.6 %	0.2 %	1.4 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.3999 %	95.2366 %	95.0558 %	111.7486 %	99.9456 %	104.3246 %
Concentration per Run 1	109.1490 %	95.1444 %	95.2242 %	109.8256 %	99.9225 %	104.3178 %
Concentration per Run 2	108.1465 %	95.4472 %	95.1071 %	111.7398 %	99.9979 %	104.4931 %
Concentration per Run 3	107.9040 %	95.1182 %	94.8362 %	113.6804 %	99.9164 %	104.1630 %
Concentration RSD	0.6 %	0.2 %	0.2 %	1.7 %	0.0 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-8 wg1934744
Analysis started at: 6/16/2024 4:41:51 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0088 ppm	0.0033 ppm	0.3847 ppm	0.0075 ppm	0.0000 ppm	54.1776 ppm
Concentration per Run 1	-0.0001 ppm	0.0069 ppm	0.0029 ppm	0.3872 ppm	0.0079 ppm	0.0000 ppm	54.1381 ppm
Concentration per Run 2	-0.0007 ppm	0.0002 ppm	0.0028 ppm	0.3846 ppm	0.0075 ppm	-0.0001 ppm	54.6020 ppm
Concentration per Run 3	-0.0004 ppm	0.0193 ppm	0.0042 ppm	0.3823 ppm	0.0070 ppm	0.0000 ppm	53.7926 ppm
Concentration RSD	80.6 %	109.9 %	22.8 %	0.6 %	5.7 %	101.9 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0057 ppm	0.0825 ppm	48.7778 ppm	6.7729 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0061 ppm	0.0799 ppm	48.7939 ppm	6.7891 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0055 ppm	0.0859 ppm	49.2122 ppm	6.7777 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0055 ppm	0.0817 ppm	48.3273 ppm	6.7520 ppm
Concentration RSD	18.8 %	107.3 %	41.2 %	5.6 %	3.7 %	0.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3039 ppm	0.0113 ppm	349.1401 ppm	0.0006 ppm	0.0009 ppm	-0.0009 ppm	-0.0007 ppm
Concentration per Run 1	0.3037 ppm	0.0122 ppm	350.0713 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm	-0.0027 ppm
Concentration per Run 2	0.3071 ppm	0.0113 ppm	352.9679 ppm	0.0003 ppm	0.0009 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 3	0.3010 ppm	0.0104 ppm	344.3812 ppm	0.0010 ppm	0.0008 ppm	-0.0017 ppm	0.0003 ppm
Concentration RSD	1.0 %	8.1 %	1.3 %	66.0 %	14.7 %	113.8 %	261.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.1401 ppm	0.0018 ppm	0.6556 ppm	0.0018 ppm	0.0013 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 1	11.2141 ppm	0.0021 ppm	0.6559 ppm	0.0017 ppm	0.0016 ppm	0.0006 ppm	0.0045 ppm
Concentration per Run 2	11.1329 ppm	0.0015 ppm	0.6609 ppm	0.0023 ppm	0.0008 ppm	0.0006 ppm	0.0043 ppm
Concentration per Run 3	11.0732 ppm	0.0018 ppm	0.6500 ppm	0.0013 ppm	0.0014 ppm	0.0001 ppm	0.0045 ppm
Concentration RSD	0.6 %	18.0 %	0.8 %	28.9 %	30.9 %	66.6 %	1.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.0156 %	95.4138 %	95.3915 %	107.7310 %	98.3329 %	102.0555 %
Concentration per Run 1	108.3490 %	95.6566 %	95.6334 %	105.9008 %	98.0121 %	102.0648 %
Concentration per Run 2	107.2262 %	95.0415 %	95.3511 %	107.3841 %	98.4278 %	101.7940 %
Concentration per Run 3	108.4715 %	95.5433 %	95.1901 %	109.9080 %	98.5589 %	102.3076 %
Concentration RSD	0.6 %	0.3 %	0.2 %	1.9 %	0.3 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-9 wg1934744
Analysis started at: 6/16/2024 4:48:14 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0481 ppm	1.8407 ppm	0.1213 ppm	1.2936 ppm	1.8726 ppm	0.0488 ppm	62.3966 ppm
Concentration per Run 1	0.0484 ppm	1.8519 ppm	0.1220 ppm	1.3044 ppm	1.8878 ppm	0.0491 ppm	62.6674 ppm
Concentration per Run 2	0.0479 ppm	1.8578 ppm	0.1202 ppm	1.2939 ppm	1.8906 ppm	0.0492 ppm	62.9863 ppm
Concentration per Run 3	0.0478 ppm	1.8124 ppm	0.1217 ppm	1.2824 ppm	1.8393 ppm	0.0479 ppm	61.5361 ppm
Concentration RSD	0.7 %	1.3 %	0.8 %	0.9 %	1.5 %	1.5 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0513 ppm	0.4614 ppm	0.1898 ppm	0.2441 ppm	1.0273 ppm	57.3147 ppm	15.3417 ppm
Concentration per Run 1	0.0518 ppm	0.4654 ppm	0.1907 ppm	0.2454 ppm	1.0249 ppm	57.7147 ppm	15.4497 ppm
Concentration per Run 2	0.0514 ppm	0.4618 ppm	0.1903 ppm	0.2443 ppm	1.0426 ppm	57.8280 ppm	15.3171 ppm
Concentration per Run 3	0.0507 ppm	0.4569 ppm	0.1884 ppm	0.2425 ppm	1.0145 ppm	56.4015 ppm	15.2583 ppm
Concentration RSD	1.0 %	0.9 %	0.7 %	0.6 %	1.4 %	1.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7580 ppm	0.9337 ppm	346.8541 ppm	0.4514 ppm	0.4928 ppm	0.4613 ppm	0.1206 ppm
Concentration per Run 1	0.7620 ppm	0.9321 ppm	345.0214 ppm	0.4560 ppm	0.4967 ppm	0.4623 ppm	0.1236 ppm
Concentration per Run 2	0.7651 ppm	0.9333 ppm	351.8207 ppm	0.4506 ppm	0.4936 ppm	0.4609 ppm	0.1190 ppm
Concentration per Run 3	0.7468 ppm	0.9355 ppm	343.7202 ppm	0.4476 ppm	0.4881 ppm	0.4605 ppm	0.1193 ppm
Concentration RSD	1.3 %	0.2 %	1.3 %	0.9 %	0.9 %	0.2 %	2.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.7571 ppm	0.9659 ppm	1.5669 ppm	0.9513 ppm	0.1109 ppm	0.4680 ppm	0.4806 ppm
Concentration per Run 1	11.8141 ppm	0.9726 ppm	1.5771 ppm	0.9615 ppm	0.1121 ppm	0.4721 ppm	0.4853 ppm
Concentration per Run 2	11.7626 ppm	0.9654 ppm	1.5815 ppm	0.9491 ppm	0.1108 ppm	0.4675 ppm	0.4809 ppm
Concentration per Run 3	11.6946 ppm	0.9597 ppm	1.5421 ppm	0.9434 ppm	0.1097 ppm	0.4645 ppm	0.4755 ppm
Concentration RSD	0.5 %	0.7 %	1.4 %	1.0 %	1.1 %	0.8 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.9147 %	94.7135 %	94.8731 %	111.4195 %	99.5977 %	103.9272 %
Concentration per Run 1	106.8648 %	94.3632 %	94.7789 %	109.2616 %	99.1606 %	103.3700 %
Concentration per Run 2	105.8511 %	94.8061 %	94.9145 %	110.7412 %	99.3757 %	104.2968 %
Concentration per Run 3	108.0282 %	94.9711 %	94.9260 %	114.2558 %	100.2567 %	104.1148 %
Concentration RSD	1.0 %	0.3 %	0.1 %	2.3 %	0.6 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: wg1934744-10D5 wg1934744
Analysis started at: 6/16/2024 4:54:28 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0087 ppm	0.0010 ppm	0.0752 ppm	0.0021 ppm	0.0000 ppm	10.6837 ppm
Concentration per Run 1	0.0002 ppm	-0.0067 ppm	0.0026 ppm	0.0758 ppm	0.0022 ppm	0.0000 ppm	10.4179 ppm
Concentration per Run 2	0.0001 ppm	-0.0115 ppm	0.0021 ppm	0.0748 ppm	0.0023 ppm	0.0000 ppm	10.8848 ppm
Concentration per Run 3	0.0000 ppm	-0.0078 ppm	-0.0017 ppm	0.0751 ppm	0.0018 ppm	0.0001 ppm	10.7483 ppm
Concentration RSD	91.5 %	29.1 %	232.1 %	0.7 %	13.4 %	721.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0217 ppm	9.5038 ppm	1.3570 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0220 ppm	9.2414 ppm	1.3574 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0221 ppm	9.6920 ppm	1.3584 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0002 ppm	0.0211 ppm	9.5781 ppm	1.3551 ppm
Concentration RSD	11.6 %	85.4 %	38.7 %	1,059.3 %	2.6 %	2.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0609 ppm	0.0083 ppm	80.3071 ppm	-0.0001 ppm	0.0010 ppm	0.0032 ppm	0.0007 ppm
Concentration per Run 1	0.0592 ppm	0.0095 ppm	78.3984 ppm	-0.0001 ppm	0.0010 ppm	0.0026 ppm	-0.0006 ppm
Concentration per Run 2	0.0624 ppm	0.0080 ppm	81.6890 ppm	-0.0001 ppm	0.0014 ppm	0.0033 ppm	0.0027 ppm
Concentration per Run 3	0.0611 ppm	0.0073 ppm	80.8338 ppm	0.0000 ppm	0.0006 ppm	0.0036 ppm	0.0001 ppm
Concentration RSD	2.6 %	13.6 %	2.1 %	52.0 %	39.2 %	16.6 %	243.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.0809 ppm	0.0032 ppm	0.1291 ppm	0.0008 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	2.0839 ppm	0.0035 ppm	0.1260 ppm	0.0003 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	2.0791 ppm	0.0031 ppm	0.1311 ppm	0.0010 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	2.0796 ppm	0.0030 ppm	0.1302 ppm	0.0011 ppm	0.0005 ppm	0.0005 ppm	-0.0001 ppm
Concentration RSD	0.1 %	7.0 %	2.1 %	53.2 %	68.0 %	14.5 %	510.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.8705 %	100.0519 %	99.0159 %	115.0464 %	106.4022 %	108.3260 %
Concentration per Run 1	113.5465 %	99.7458 %	98.9005 %	115.6449 %	106.2007 %	107.7898 %
Concentration per Run 2	108.5558 %	100.1754 %	99.3029 %	113.4201 %	106.7170 %	108.2913 %
Concentration per Run 3	110.5094 %	100.2345 %	98.8443 %	116.0742 %	106.2887 %	108.8968 %
Concentration RSD	2.3 %	0.3 %	0.3 %	1.2 %	0.3 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 5:00:44 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4912 ppm	0.4306 ppm	0.4734 ppm	0.4795 ppm	0.4609 ppm	0.4755 ppm	0.4621 ppm
Concentration per Run 1	0.4926 ppm	0.4220 ppm	0.4749 ppm	0.4789 ppm	0.4474 ppm	0.4622 ppm	0.4538 ppm
Concentration per Run 2	0.4908 ppm	0.4481 ppm	0.4719 ppm	0.4795 ppm	0.4682 ppm	0.4830 ppm	0.4667 ppm
Concentration per Run 3	0.4901 ppm	0.4218 ppm	0.4735 ppm	0.4800 ppm	0.4672 ppm	0.4813 ppm	0.4658 ppm
Recovery Percentage 1	98.239 %	86.125 %	94.680 %	95.898 %	92.185 %	95.098 %	92.423 %
Concentration RSD	0.3 %	3.5 %	0.3 %	0.1 %	2.5 %	2.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5029 ppm	0.5069 ppm	0.5079 ppm	0.4837 ppm	0.4883 ppm	4.6730 ppm	0.4750 ppm
Concentration per Run 1	0.5032 ppm	0.5077 ppm	0.5078 ppm	0.4839 ppm	0.4764 ppm	4.5522 ppm	0.4748 ppm
Concentration per Run 2	0.5027 ppm	0.5068 ppm	0.5082 ppm	0.4838 ppm	0.4971 ppm	4.7435 ppm	0.4747 ppm
Concentration per Run 3	0.5027 ppm	0.5063 ppm	0.5078 ppm	0.4833 ppm	0.4914 ppm	4.7231 ppm	0.4756 ppm
Recovery Percentage 1	100.574 %	101.385 %	101.586 %	96.731 %	97.661 %	93.459 %	95.004 %
Concentration RSD	0.1 %	0.1 %	0.0 %	0.1 %	2.2 %	2.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4509 ppm	0.5042 ppm	9.6320 ppm	0.4899 ppm	0.4841 ppm	0.4933 ppm	0.5307 ppm
Concentration per Run 1	0.4378 ppm	0.5033 ppm	9.3734 ppm	0.4912 ppm	0.4842 ppm	0.4943 ppm	0.5315 ppm
Concentration per Run 2	0.4591 ppm	0.5038 ppm	9.7772 ppm	0.4894 ppm	0.4849 ppm	0.4942 ppm	0.5335 ppm
Concentration per Run 3	0.4557 ppm	0.5055 ppm	9.7453 ppm	0.4892 ppm	0.4832 ppm	0.4913 ppm	0.5271 ppm
Recovery Percentage 1	90.170 %	100.836 %	96.320 %	97.988 %	96.814 %	98.653 %	106.140 %
Concentration RSD	2.5 %	0.2 %	2.3 %	0.2 %	0.2 %	0.3 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9482 ppm	0.5242 ppm	0.4623 ppm	0.4847 ppm	0.5003 ppm	0.4841 ppm	0.5014 ppm
Concentration per Run 1	4.9563 ppm	0.5236 ppm	0.4494 ppm	0.4840 ppm	0.5005 ppm	0.4843 ppm	0.5017 ppm
Concentration per Run 2	4.9497 ppm	0.5245 ppm	0.4702 ppm	0.4844 ppm	0.5004 ppm	0.4845 ppm	0.5014 ppm
Concentration per Run 3	4.9385 ppm	0.5244 ppm	0.4673 ppm	0.4859 ppm	0.5001 ppm	0.4835 ppm	0.5012 ppm
Recovery Percentage 1	94.250 %	104.835 %	92.458 %	96.946 %	100.063 %	96.824 %	100.281 %
Concentration RSD	0.2 %	0.1 %	2.4 %	0.2 %	0.0 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.2726 %	99.6635 %	98.7553 %	125.7509 %	108.9783 %	111.1460 %
Concentration per Run 1	113.3870 %	99.8632 %	98.8735 %	129.6806 %	109.0129 %	111.5038 %
Concentration per Run 2	108.4033 %	99.4871 %	98.7249 %	124.3279 %	109.0292 %	111.0463 %
Concentration per Run 3	109.0275 %	99.6402 %	98.6674 %	123.2442 %	108.8928 %	110.8878 %
Recovery Percentage 1						
Concentration RSD	2.5 %	0.2 %	0.1 %	2.7 %	0.1 %	0.3 %

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 5:06:48 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0193 ppm	0.0003 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 1	-0.0005 ppm	-0.0255 ppm	0.0004 ppm	0.0021 ppm	0.0003 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 2	-0.0001 ppm	-0.0278 ppm	-0.0003 ppm	0.0018 ppm	0.0004 ppm	0.0002 ppm	0.0018 ppm
Concentration per Run 3	-0.0004 ppm	-0.0046 ppm	0.0008 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm
Recovery Percentage 1	-4.807 %	-19.298 %	6.752 %	6.535 %	3.735 %	2.839 %	1.168 %
Concentration RSD	65.8 %	66.1 %	163.1 %	9.4 %	21.4 %	47.8 %	56.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0015 ppm	0.0050 ppm	-0.1944 ppm	-0.0035 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0014 ppm	0.0062 ppm	-0.1799 ppm	-0.0056 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0017 ppm	0.0043 ppm	-0.2408 ppm	-0.0038 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0015 ppm	0.0045 ppm	-0.1625 ppm	-0.0011 ppm
Recovery Percentage 1	-0.701 %	0.071 %	3.149 %	-15.278 %	9.998 %	-7.776 %	-3.476 %
Concentration RSD	59.0 %	140.8 %	21.1 %	10.1 %	20.7 %	21.1 %	65.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0026 ppm	0.0960 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0014 ppm
Concentration per Run 1	0.0007 ppm	0.0030 ppm	0.1060 ppm	-0.0001 ppm	-0.0004 ppm	0.0010 ppm	0.0020 ppm
Concentration per Run 2	0.0005 ppm	0.0026 ppm	0.0872 ppm	0.0002 ppm	0.0006 ppm	-0.0003 ppm	-0.0021 ppm
Concentration per Run 3	0.0001 ppm	0.0021 ppm	0.0947 ppm	0.0000 ppm	0.0004 ppm	0.0027 ppm	0.0042 ppm
Recovery Percentage 1	4.210 %	5.114 %	4.799 %	0.109 %	1.964 %	2.207 %	13.775 %
Concentration RSD	71.9 %	17.3 %	9.9 %	518.3 %	254.6 %	135.9 %	230.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0003 ppm	-0.0029 ppm
Concentration per Run 1	0.0003 ppm	0.0021 ppm	0.0003 ppm	0.0003 ppm	0.0021 ppm	0.0003 ppm	-0.0030 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	0.0002 ppm	0.0004 ppm	-0.0004 ppm	0.0002 ppm	-0.0028 ppm
Concentration per Run 3	0.0001 ppm	0.0013 ppm	-0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm	-0.0029 ppm
Recovery Percentage 1	0.041 %	3.016 %	1.154 %	3.009 %	3.795 %	3.245 %	-57.403 %
Concentration RSD	38.2 %	31.8 %	213.3 %	38.9 %	171.0 %	57.2 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.7682 %	100.1460 %	99.0908 %	109.4686 %	106.6462 %	107.6192 %
Concentration per Run 1	108.7842 %	99.5847 %	99.1474 %	107.8181 %	106.3561 %	107.0976 %
Concentration per Run 2	107.4151 %	100.5369 %	98.9643 %	108.5949 %	106.8673 %	107.7873 %
Concentration per Run 3	110.1053 %	100.3165 %	99.1608 %	111.9929 %	106.7152 %	107.9726 %
Recovery Percentage 1						
Concentration RSD	1.2 %	0.5 %	0.1 %	2.0 %	0.2 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432874-01 wg1934744
Analysis started at: 6/16/2024 5:13:10 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	1.3778 ppm	0.0010 ppm	0.1265 ppm	0.0012 ppm	0.0001 ppm	0.7514 ppm
Concentration per Run 1	0.0000 ppm	1.3728 ppm	-0.0007 ppm	0.1270 ppm	0.0012 ppm	0.0001 ppm	0.7467 ppm
Concentration per Run 2	0.0001 ppm	1.3835 ppm	0.0014 ppm	0.1269 ppm	0.0014 ppm	0.0000 ppm	0.7493 ppm
Concentration per Run 3	-0.0005 ppm	1.3771 ppm	0.0023 ppm	0.1257 ppm	0.0011 ppm	0.0000 ppm	0.7583 ppm
Concentration RSD	316.5 %	0.4 %	151.9 %	0.6 %	13.5 %	113.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0018 ppm	0.0941 ppm	0.1030 ppm	3.5276 ppm	0.3563 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0015 ppm	0.0946 ppm	0.0995 ppm	3.4644 ppm	0.3561 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0944 ppm	0.1037 ppm	3.5432 ppm	0.3553 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0933 ppm	0.1058 ppm	3.5752 ppm	0.3577 ppm
Concentration RSD	47.9 %	1,067.1 %	12.9 %	0.7 %	3.1 %	1.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0052 ppm	0.0030 ppm	84.4541 ppm	0.0260 ppm	0.0055 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0053 ppm	0.0031 ppm	83.8192 ppm	0.0265 ppm	0.0048 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 2	0.0051 ppm	0.0030 ppm	84.9449 ppm	0.0257 ppm	0.0060 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0053 ppm	0.0029 ppm	84.5980 ppm	0.0257 ppm	0.0058 ppm	0.0006 ppm	-0.0005 ppm
Concentration RSD	1.6 %	3.3 %	0.7 %	1.8 %	11.5 %	25.0 %	621.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0147 ppm	-0.0007 ppm	0.0046 ppm	0.0007 ppm	0.0007 ppm	0.0010 ppm	0.0147 ppm
Concentration per Run 1	3.0285 ppm	-0.0007 ppm	0.0044 ppm	0.0006 ppm	0.0004 ppm	0.0010 ppm	0.0148 ppm
Concentration per Run 2	3.0215 ppm	-0.0006 ppm	0.0046 ppm	0.0007 ppm	0.0020 ppm	0.0009 ppm	0.0148 ppm
Concentration per Run 3	2.9941 ppm	-0.0007 ppm	0.0048 ppm	0.0008 ppm	-0.0002 ppm	0.0011 ppm	0.0146 ppm
Concentration RSD	0.6 %	8.2 %	4.0 %	16.5 %	159.7 %	9.5 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.4809 %	99.1383 %	98.4760 %	105.6118 %	105.5808 %	106.3720 %
Concentration per Run 1	111.1942 %	99.1854 %	98.1984 %	102.8149 %	105.2193 %	105.8259 %
Concentration per Run 2	109.9685 %	99.2181 %	98.5840 %	105.6840 %	105.3904 %	106.5992 %
Concentration per Run 3	110.2799 %	99.0114 %	98.6455 %	108.3366 %	106.1328 %	106.6908 %
Concentration RSD	0.6 %	0.1 %	0.2 %	2.6 %	0.5 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432931-05 wg1934744
Analysis started at: 6/16/2024 5:19:24 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	12.4154 ppm	0.0035 ppm	0.0207 ppm	0.0194 ppm	-0.0001 ppm	28.2323 ppm
Concentration per Run 1	0.0002 ppm	12.1786 ppm	0.0044 ppm	0.0211 ppm	0.0188 ppm	-0.0001 ppm	27.6910 ppm
Concentration per Run 2	0.0003 ppm	12.5132 ppm	0.0038 ppm	0.0207 ppm	0.0199 ppm	-0.0001 ppm	28.4665 ppm
Concentration per Run 3	-0.0004 ppm	12.5543 ppm	0.0023 ppm	0.0203 ppm	0.0194 ppm	-0.0001 ppm	28.5396 ppm
Concentration RSD	692.7 %	1.7 %	30.0 %	2.0 %	2.8 %	33.4 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0079 ppm	0.0074 ppm	0.0636 ppm	50.2047 ppm	3.5124 ppm	7.8401 ppm
Concentration per Run 1	0.0007 ppm	0.0079 ppm	0.0073 ppm	0.0633 ppm	49.2402 ppm	3.4259 ppm	7.8342 ppm
Concentration per Run 2	0.0008 ppm	0.0079 ppm	0.0073 ppm	0.0640 ppm	50.6886 ppm	3.5610 ppm	7.8720 ppm
Concentration per Run 3	0.0006 ppm	0.0080 ppm	0.0074 ppm	0.0633 ppm	50.6855 ppm	3.5504 ppm	7.8140 ppm
Concentration RSD	7.4 %	0.2 %	0.8 %	0.6 %	1.7 %	2.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2018 ppm	0.0011 ppm	140.8541 ppm	0.0213 ppm	0.0083 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.1981 ppm	0.0010 ppm	138.6722 ppm	0.0212 ppm	0.0088 ppm	-0.0012 ppm	0.0013 ppm
Concentration per Run 2	0.2035 ppm	0.0009 ppm	142.1171 ppm	0.0212 ppm	0.0081 ppm	0.0020 ppm	0.0016 ppm
Concentration per Run 3	0.2039 ppm	0.0013 ppm	141.7730 ppm	0.0214 ppm	0.0080 ppm	0.0014 ppm	-0.0023 ppm
Concentration RSD	1.6 %	17.4 %	1.3 %	0.7 %	5.4 %	241.2 %	1,074.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3745 ppm	0.0034 ppm	0.1413 ppm	0.0468 ppm	0.0021 ppm	0.1072 ppm	0.0051 ppm
Concentration per Run 1	0.3741 ppm	0.0029 ppm	0.1390 ppm	0.0471 ppm	0.0001 ppm	0.1069 ppm	0.0050 ppm
Concentration per Run 2	0.3747 ppm	0.0037 ppm	0.1424 ppm	0.0467 ppm	0.0039 ppm	0.1076 ppm	0.0050 ppm
Concentration per Run 3	0.3749 ppm	0.0037 ppm	0.1426 ppm	0.0465 ppm	0.0025 ppm	0.1071 ppm	0.0051 ppm
Concentration RSD	0.1 %	13.4 %	1.4 %	0.7 %	90.0 %	0.3 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.0378 %	98.1379 %	97.3499 %	124.9335 %	106.2646 %	110.8430 %
Concentration per Run 1	114.3435 %	98.0088 %	97.4968 %	125.7798 %	106.4353 %	110.7809 %
Concentration per Run 2	110.6965 %	98.1669 %	97.3158 %	124.0617 %	106.2438 %	110.6237 %
Concentration per Run 3	111.0735 %	98.2379 %	97.2372 %	124.9590 %	106.1146 %	111.1244 %
Concentration RSD	1.8 %	0.1 %	0.1 %	0.7 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432960-07 wg1934744
Analysis started at: 6/16/2024 5:25:37 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0687 ppm	0.0014 ppm	0.0177 ppm	0.0113 ppm	0.0000 ppm	5.9234 ppm
Concentration per Run 1	-0.0004 ppm	0.0737 ppm	-0.0001 ppm	0.0182 ppm	0.0110 ppm	0.0000 ppm	5.8628 ppm
Concentration per Run 2	-0.0008 ppm	0.0681 ppm	0.0022 ppm	0.0175 ppm	0.0119 ppm	0.0000 ppm	5.9811 ppm
Concentration per Run 3	-0.0005 ppm	0.0643 ppm	0.0021 ppm	0.0174 ppm	0.0111 ppm	0.0000 ppm	5.9263 ppm
Concentration RSD	35.2 %	6.9 %	92.0 %	2.2 %	4.2 %	68.9 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0069 ppm	0.0371 ppm	0.5657 ppm	22.5344 ppm	2.0942 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0069 ppm	0.0371 ppm	0.5714 ppm	22.3311 ppm	2.1074 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0071 ppm	0.0374 ppm	0.5668 ppm	22.8364 ppm	2.0968 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0068 ppm	0.0368 ppm	0.5590 ppm	22.4358 ppm	2.0783 ppm
Concentration RSD	84.5 %	54.6 %	2.1 %	0.8 %	1.1 %	1.2 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0268 ppm	0.0011 ppm	39.1765 ppm	0.0046 ppm	0.0017 ppm	0.0009 ppm	0.0013 ppm
Concentration per Run 1	0.0267 ppm	0.0012 ppm	38.8399 ppm	0.0046 ppm	0.0028 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.0269 ppm	0.0010 ppm	39.6078 ppm	0.0045 ppm	0.0012 ppm	0.0011 ppm	0.0022 ppm
Concentration per Run 3	0.0268 ppm	0.0010 ppm	39.0816 ppm	0.0047 ppm	0.0011 ppm	0.0005 ppm	0.0007 ppm
Concentration RSD	0.3 %	11.1 %	1.0 %	1.6 %	55.0 %	41.9 %	63.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2432 ppm	0.0003 ppm	0.0334 ppm	0.0022 ppm	0.0000 ppm	0.0007 ppm	0.1430 ppm
Concentration per Run 1	1.2523 ppm	0.0004 ppm	0.0331 ppm	0.0021 ppm	-0.0014 ppm	0.0005 ppm	0.1439 ppm
Concentration per Run 2	1.2421 ppm	0.0002 ppm	0.0340 ppm	0.0024 ppm	0.0013 ppm	0.0007 ppm	0.1426 ppm
Concentration per Run 3	1.2352 ppm	0.0003 ppm	0.0333 ppm	0.0021 ppm	0.0000 ppm	0.0008 ppm	0.1424 ppm
Concentration RSD	0.7 %	27.4 %	1.4 %	6.7 %	4,115.6 %	19.6 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.2102 %	100.7338 %	99.7602 %	107.1440 %	105.1870 %	106.0917 %
Concentration per Run 1	113.0107 %	100.5830 %	99.7718 %	105.5480 %	104.6269 %	105.3558 %
Concentration per Run 2	110.9030 %	100.5464 %	100.0891 %	106.6864 %	105.5500 %	105.7803 %
Concentration per Run 3	112.7170 %	101.0718 %	99.4199 %	109.1977 %	105.3842 %	107.1391 %
Concentration RSD	1.0 %	0.3 %	0.3 %	1.7 %	0.5 %	0.9 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2432986-03 wg1934744
Analysis started at: 6/16/2024 5:31:51 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.1469 ppm	0.0021 ppm	0.0641 ppm	0.0297 ppm	0.0000 ppm	50.3025 ppm
Concentration per Run 1	0.0003 ppm	0.1538 ppm	0.0011 ppm	0.0646 ppm	0.0292 ppm	0.0000 ppm	49.6339 ppm
Concentration per Run 2	0.0008 ppm	0.1376 ppm	0.0033 ppm	0.0640 ppm	0.0304 ppm	-0.0001 ppm	51.0036 ppm
Concentration per Run 3	0.0001 ppm	0.1492 ppm	0.0017 ppm	0.0637 ppm	0.0295 ppm	0.0001 ppm	50.2700 ppm
Concentration RSD	87.2 %	5.7 %	53.8 %	0.7 %	2.1 %	12,564.3 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0016 ppm	0.0343 ppm	0.6274 ppm	31.3425 ppm	15.8132 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0016 ppm	0.0343 ppm	0.6167 ppm	30.9379 ppm	15.8484 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0018 ppm	0.0345 ppm	0.6371 ppm	31.8043 ppm	15.8378 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0341 ppm	0.6283 ppm	31.2854 ppm	15.7533 ppm
Concentration RSD	12.5 %	46.0 %	14.5 %	0.6 %	1.6 %	1.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0719 ppm	0.0055 ppm	156.8171 ppm	0.0029 ppm	0.0008 ppm	0.0001 ppm	-0.0021 ppm
Concentration per Run 1	0.0710 ppm	0.0055 ppm	155.2954 ppm	0.0028 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0733 ppm	0.0057 ppm	158.8820 ppm	0.0030 ppm	0.0016 ppm	-0.0005 ppm	-0.0015 ppm
Concentration per Run 3	0.0714 ppm	0.0055 ppm	156.2739 ppm	0.0028 ppm	0.0009 ppm	0.0009 ppm	-0.0046 ppm
Concentration RSD	1.7 %	2.3 %	1.2 %	4.6 %	101.5 %	1,147.7 %	108.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.5669 ppm	0.0013 ppm	0.2463 ppm	0.0022 ppm	0.0007 ppm	0.0006 ppm	0.1143 ppm
Concentration per Run 1	1.5724 ppm	0.0009 ppm	0.2434 ppm	0.0026 ppm	0.0013 ppm	0.0004 ppm	0.1146 ppm
Concentration per Run 2	1.5656 ppm	0.0013 ppm	0.2496 ppm	0.0020 ppm	0.0007 ppm	0.0009 ppm	0.1141 ppm
Concentration per Run 3	1.5626 ppm	0.0017 ppm	0.2460 ppm	0.0019 ppm	0.0002 ppm	0.0004 ppm	0.1142 ppm
Concentration RSD	0.3 %	33.2 %	1.3 %	16.1 %	77.2 %	53.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.8353 %	97.6436 %	96.7002 %	105.9375 %	95.8543 %	99.3481 %
Concentration per Run 1	110.6525 %	97.5550 %	96.9042 %	106.2601 %	95.7843 %	98.9634 %
Concentration per Run 2	107.1108 %	97.6949 %	96.5672 %	104.4935 %	95.8774 %	99.3180 %
Concentration per Run 3	108.7426 %	97.6810 %	96.6291 %	107.0588 %	95.9011 %	99.7630 %
Concentration RSD	1.6 %	0.1 %	0.2 %	1.2 %	0.1 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2433067-03 wg1934744
Analysis started at: 6/16/2024 5:38:04 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	-0.0060 ppm	0.0017 ppm	0.0152 ppm	0.0045 ppm	0.0000 ppm	24.0640 ppm
Concentration per Run 1	-0.0008 ppm	-0.0117 ppm	0.0021 ppm	0.0156 ppm	0.0047 ppm	0.0000 ppm	23.9409 ppm
Concentration per Run 2	-0.0003 ppm	0.0026 ppm	0.0025 ppm	0.0152 ppm	0.0045 ppm	-0.0001 ppm	24.1188 ppm
Concentration per Run 3	-0.0007 ppm	-0.0089 ppm	0.0005 ppm	0.0149 ppm	0.0043 ppm	0.0000 ppm	24.1325 ppm
Concentration RSD	43.0 %	126.0 %	62.3 %	2.4 %	4.7 %	116.0 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0001 ppm	0.0736 ppm	2.1662 ppm	5.8929 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0001 ppm	0.0747 ppm	2.1610 ppm	5.9110 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0010 ppm	0.0003 ppm	0.0731 ppm	2.1281 ppm	5.9007 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0731 ppm	2.2094 ppm	5.8668 ppm
Concentration RSD	21.0 %	14.3 %	12.9 %	113.1 %	1.2 %	1.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.8484 ppm	0.0024 ppm	94.3873 ppm	0.0027 ppm	0.0006 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 1	0.8441 ppm	0.0025 ppm	93.9436 ppm	0.0032 ppm	0.0014 ppm	-0.0025 ppm	0.0025 ppm
Concentration per Run 2	0.8496 ppm	0.0023 ppm	94.6943 ppm	0.0026 ppm	0.0000 ppm	-0.0007 ppm	-0.0027 ppm
Concentration per Run 3	0.8517 ppm	0.0023 ppm	94.5239 ppm	0.0024 ppm	0.0002 ppm	-0.0014 ppm	0.0009 ppm
Concentration RSD	0.5 %	4.6 %	0.4 %	15.0 %	134.8 %	59.5 %	1,060.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.4708 ppm	-0.0014 ppm	0.1661 ppm	0.0006 ppm	0.0019 ppm	0.0007 ppm	-0.0025 ppm
Concentration per Run 1	4.5177 ppm	-0.0011 ppm	0.1657 ppm	0.0002 ppm	0.0025 ppm	0.0013 ppm	-0.0025 ppm
Concentration per Run 2	4.4646 ppm	-0.0013 ppm	0.1659 ppm	0.0009 ppm	0.0014 ppm	0.0005 ppm	-0.0025 ppm
Concentration per Run 3	4.4302 ppm	-0.0018 ppm	0.1666 ppm	0.0006 ppm	0.0018 ppm	0.0004 ppm	-0.0025 ppm
Concentration RSD	1.0 %	27.1 %	0.3 %	57.5 %	27.1 %	70.1 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	111.9958 %	99.7128 %	99.0678 %	103.0669 %	104.1288 %	104.5569 %
Concentration per Run 1	112.7198 %	100.1139 %	98.9092 %	101.5764 %	102.9485 %	104.2551 %
Concentration per Run 2	111.5624 %	99.1871 %	99.0913 %	102.5080 %	104.0868 %	104.2091 %
Concentration per Run 3	111.7053 %	99.8373 %	99.2028 %	105.1162 %	105.3513 %	105.2066 %
Concentration RSD	0.6 %	0.5 %	0.1 %	1.8 %	1.2 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2433114-01 wg1934744
Analysis started at: 6/16/2024 5:44:20 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.4352 ppm	0.0020 ppm	1.0408 ppm	0.0109 ppm	-0.0001 ppm	5.1226 ppm
Concentration per Run 1	-0.0003 ppm	0.4225 ppm	0.0032 ppm	1.0486 ppm	0.0107 ppm	0.0000 ppm	4.9847 ppm
Concentration per Run 2	-0.0001 ppm	0.4464 ppm	-0.0006 ppm	1.0420 ppm	0.0110 ppm	-0.0002 ppm	5.2164 ppm
Concentration per Run 3	-0.0002 ppm	0.4367 ppm	0.0033 ppm	1.0317 ppm	0.0109 ppm	-0.0001 ppm	5.1666 ppm
Concentration RSD	27.7 %	2.8 %	111.7 %	0.8 %	1.8 %	176.2 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.3294 ppm	0.0762 ppm	14.0627 ppm	0.9616 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.3313 ppm	0.0748 ppm	13.6686 ppm	0.9640 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.3289 ppm	0.0769 ppm	14.3092 ppm	0.9613 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.3280 ppm	0.0769 ppm	14.2103 ppm	0.9596 ppm
Concentration RSD	60.3 %	56.9 %	50.4 %	0.5 %	1.7 %	2.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0089 ppm	0.0002 ppm	55.7953 ppm	0.0039 ppm	0.0026 ppm	-0.0001 ppm	0.0012 ppm
Concentration per Run 1	0.0082 ppm	0.0002 ppm	54.4221 ppm	0.0040 ppm	0.0033 ppm	-0.0003 ppm	0.0034 ppm
Concentration per Run 2	0.0094 ppm	0.0002 ppm	56.6378 ppm	0.0038 ppm	0.0026 ppm	0.0010 ppm	-0.0008 ppm
Concentration per Run 3	0.0089 ppm	0.0002 ppm	56.3261 ppm	0.0039 ppm	0.0020 ppm	-0.0010 ppm	0.0010 ppm
Concentration RSD	6.8 %	11.1 %	2.1 %	1.5 %	23.1 %	931.9 %	172.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1427 ppm	-0.0002 ppm	0.0379 ppm	0.0010 ppm	0.0004 ppm	0.0003 ppm	0.0788 ppm
Concentration per Run 1	2.1491 ppm	-0.0005 ppm	0.0369 ppm	0.0010 ppm	0.0005 ppm	0.0007 ppm	0.0794 ppm
Concentration per Run 2	2.1411 ppm	0.0002 ppm	0.0386 ppm	0.0012 ppm	0.0005 ppm	0.0001 ppm	0.0789 ppm
Concentration per Run 3	2.1379 ppm	-0.0003 ppm	0.0382 ppm	0.0009 ppm	0.0003 ppm	0.0002 ppm	0.0781 ppm
Concentration RSD	0.3 %	169.2 %	2.3 %	17.6 %	34.4 %	101.4 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.8877 %	100.4008 %	99.7211 %	108.3387 %	105.8121 %	106.9290 %
Concentration per Run 1	113.5187 %	100.6369 %	99.5578 %	107.9546 %	105.0818 %	106.8602 %
Concentration per Run 2	109.0687 %	100.2212 %	99.7200 %	107.5405 %	105.7763 %	106.9023 %
Concentration per Run 3	110.0757 %	100.3443 %	99.8855 %	109.5210 %	106.5782 %	107.0247 %
Concentration RSD	2.1 %	0.2 %	0.2 %	1.0 %	0.7 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2433118-01 wg1934744
Analysis started at: 6/16/2024 5:50:34 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0168 ppm	0.0005 ppm	0.0321 ppm	0.0084 ppm	0.0000 ppm	4.8102 ppm
Concentration per Run 1	0.0006 ppm	0.0082 ppm	0.0015 ppm	0.0322 ppm	0.0083 ppm	-0.0001 ppm	4.6604 ppm
Concentration per Run 2	-0.0002 ppm	0.0239 ppm	0.0004 ppm	0.0324 ppm	0.0084 ppm	0.0000 ppm	4.8661 ppm
Concentration per Run 3	0.0002 ppm	0.0183 ppm	-0.0004 ppm	0.0318 ppm	0.0084 ppm	0.0000 ppm	4.9041 ppm
Concentration RSD	228.9 %	47.5 %	202.0 %	1.0 %	0.6 %	232.7 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0236 ppm	0.0533 ppm	1.7375 ppm	1.1978 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0241 ppm	0.0514 ppm	1.6854 ppm	1.1992 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0011 ppm	0.0232 ppm	0.0535 ppm	1.7681 ppm	1.1986 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0235 ppm	0.0549 ppm	1.7590 ppm	1.1956 ppm
Concentration RSD	310.7 %	315.8 %	72.8 %	1.9 %	3.4 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0074 ppm	0.0002 ppm	41.3612 ppm	0.0006 ppm	0.0029 ppm	-0.0013 ppm	-0.0016 ppm
Concentration per Run 1	0.0080 ppm	0.0003 ppm	40.1129 ppm	0.0008 ppm	0.0038 ppm	-0.0023 ppm	-0.0037 ppm
Concentration per Run 2	0.0069 ppm	0.0003 ppm	41.8678 ppm	0.0004 ppm	0.0018 ppm	-0.0008 ppm	0.0008 ppm
Concentration per Run 3	0.0073 ppm	0.0001 ppm	42.1030 ppm	0.0007 ppm	0.0029 ppm	-0.0008 ppm	-0.0019 ppm
Concentration RSD	7.5 %	60.3 %	2.6 %	29.5 %	34.8 %	68.4 %	142.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5936 ppm	-0.0008 ppm	0.0365 ppm	0.0005 ppm	0.0005 ppm	0.0002 ppm	0.0130 ppm
Concentration per Run 1	2.6082 ppm	-0.0007 ppm	0.0353 ppm	0.0007 ppm	0.0007 ppm	0.0001 ppm	0.0131 ppm
Concentration per Run 2	2.5885 ppm	-0.0010 ppm	0.0366 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0130 ppm
Concentration per Run 3	2.5842 ppm	-0.0008 ppm	0.0376 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0129 ppm
Concentration RSD	0.5 %	21.3 %	3.2 %	85.8 %	72.8 %	56.9 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.4165 %	101.6927 %	100.8784 %	109.4077 %	106.9339 %	107.3174 %
Concentration per Run 1	115.2960 %	102.2261 %	100.9826 %	109.3636 %	106.6667 %	107.3334 %
Concentration per Run 2	111.8673 %	101.9319 %	100.9215 %	109.3667 %	106.9745 %	107.4552 %
Concentration per Run 3	110.0863 %	100.9201 %	100.7311 %	109.4928 %	107.1604 %	107.1637 %
Concentration RSD	2.4 %	0.7 %	0.1 %	0.1 %	0.2 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: L2433137-01 wg1934744
Analysis started at: 6/16/2024 5:56:51 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.1767 ppm	0.0389 ppm	5.6774 ppm	0.0996 ppm	-0.0001 ppm	18.0854 ppm
Concentration per Run 1	-0.0004 ppm	0.1784 ppm	0.0403 ppm	5.7366 ppm	0.0977 ppm	0.0000 ppm	17.7592 ppm
Concentration per Run 2	0.0000 ppm	0.1848 ppm	0.0377 ppm	5.6561 ppm	0.1007 ppm	-0.0001 ppm	18.2757 ppm
Concentration per Run 3	-0.0002 ppm	0.1671 ppm	0.0386 ppm	5.6395 ppm	0.1004 ppm	-0.0001 ppm	18.2212 ppm
Concentration RSD	111.6 %	5.1 %	3.4 %	0.9 %	1.6 %	57.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0103 ppm	0.0809 ppm	0.0119 ppm	2.1181 ppm	106.5428 ppm	17.7614 ppm
Concentration per Run 1	0.0001 ppm	0.0105 ppm	0.0814 ppm	0.0117 ppm	2.0659 ppm	104.7271 ppm	17.8105 ppm
Concentration per Run 2	0.0000 ppm	0.0102 ppm	0.0808 ppm	0.0122 ppm	2.1496 ppm	107.7644 ppm	17.7765 ppm
Concentration per Run 3	0.0000 ppm	0.0102 ppm	0.0803 ppm	0.0119 ppm	2.1389 ppm	107.1368 ppm	17.6973 ppm
Concentration RSD	56.0 %	1.6 %	0.7 %	2.3 %	2.1 %	1.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1491 ppm	0.0036 ppm	312.3987 ppm	0.0529 ppm	0.0048 ppm	0.0038 ppm	0.0011 ppm
Concentration per Run 1	0.1458 ppm	0.0038 ppm	308.4558 ppm	0.0532 ppm	0.0049 ppm	0.0056 ppm	0.0018 ppm
Concentration per Run 2	0.1514 ppm	0.0038 ppm	314.5034 ppm	0.0531 ppm	0.0047 ppm	0.0026 ppm	-0.0022 ppm
Concentration per Run 3	0.1501 ppm	0.0033 ppm	314.2370 ppm	0.0525 ppm	0.0049 ppm	0.0032 ppm	0.0037 ppm
Concentration RSD	2.0 %	8.1 %	1.1 %	0.7 %	2.9 %	42.1 %	268.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.2589 ppm	0.0167 ppm	0.2066 ppm	0.0671 ppm	0.0005 ppm	0.0105 ppm	0.0289 ppm
Concentration per Run 1	7.3387 ppm	0.0167 ppm	0.2028 ppm	0.0673 ppm	0.0003 ppm	0.0105 ppm	0.0293 ppm
Concentration per Run 2	7.2302 ppm	0.0169 ppm	0.2085 ppm	0.0675 ppm	0.0007 ppm	0.0104 ppm	0.0289 ppm
Concentration per Run 3	7.2077 ppm	0.0165 ppm	0.2085 ppm	0.0664 ppm	0.0005 ppm	0.0105 ppm	0.0286 ppm
Concentration RSD	1.0 %	1.2 %	1.6 %	0.8 %	33.0 %	0.5 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.9103 %	96.6240 %	96.2603 %	106.3458 %	98.4071 %	101.5229 %
Concentration per Run 1	112.0325 %	96.4017 %	96.0658 %	105.4157 %	97.3881 %	100.9268 %
Concentration per Run 2	108.8376 %	96.9968 %	96.5085 %	105.9095 %	98.8508 %	101.8769 %
Concentration per Run 3	108.8609 %	96.4735 %	96.2065 %	107.7123 %	98.9825 %	101.7649 %
Concentration RSD	1.7 %	0.3 %	0.2 %	1.1 %	0.9 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-03D2 WG1934532
Analysis started at: 6/16/2024 6:03:12 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	97.3378 ppm	0.6350 ppm	0.0119 ppm	0.3921 ppm	0.0039 ppm	2.1331 ppm
Concentration per Run 1	0.0002 ppm	96.0472 ppm	0.6325 ppm	0.0119 ppm	0.3862 ppm	0.0039 ppm	2.1062 ppm
Concentration per Run 2	0.0001 ppm	98.4433 ppm	0.6349 ppm	0.0120 ppm	0.3971 ppm	0.0039 ppm	2.1591 ppm
Concentration per Run 3	0.0004 ppm	97.5229 ppm	0.6376 ppm	0.0119 ppm	0.3930 ppm	0.0039 ppm	2.1341 ppm
Concentration RSD	78.1 %	1.2 %	0.4 %	0.6 %	1.4 %	0.6 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0052 ppm	0.0511 ppm	0.1478 ppm	0.1747 ppm	127.9657 ppm	1.9179 ppm	13.6547 ppm
Concentration per Run 1	0.0052 ppm	0.0510 ppm	0.1477 ppm	0.1738 ppm	126.1748 ppm	1.9113 ppm	13.6272 ppm
Concentration per Run 2	0.0052 ppm	0.0509 ppm	0.1478 ppm	0.1749 ppm	129.4136 ppm	1.9660 ppm	13.6795 ppm
Concentration per Run 3	0.0052 ppm	0.0514 ppm	0.1479 ppm	0.1753 ppm	128.3087 ppm	1.8763 ppm	13.6573 ppm
Concentration RSD	0.5 %	0.5 %	0.1 %	0.4 %	1.3 %	2.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4133 ppm	0.0061 ppm	0.4454 ppm	0.1028 ppm	1.2755 ppm	0.0124 ppm	0.0078 ppm
Concentration per Run 1	1.3942 ppm	0.0060 ppm	0.4789 ppm	0.1022 ppm	1.2768 ppm	0.0122 ppm	0.0080 ppm
Concentration per Run 2	1.4318 ppm	0.0062 ppm	0.4535 ppm	0.1025 ppm	1.2681 ppm	0.0112 ppm	0.0068 ppm
Concentration per Run 3	1.4139 ppm	0.0061 ppm	0.4039 ppm	0.1037 ppm	1.2816 ppm	0.0139 ppm	0.0087 ppm
Concentration RSD	1.3 %	1.6 %	8.6 %	0.7 %	0.5 %	11.0 %	12.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5145 ppm	0.0135 ppm	0.0200 ppm	2.5091 ppm	0.0024 ppm	0.2153 ppm	1.1060 ppm
Concentration per Run 1	3.5077 ppm	0.0133 ppm	0.0199 ppm	2.5043 ppm	0.0024 ppm	0.2150 ppm	1.1046 ppm
Concentration per Run 2	3.5069 ppm	0.0132 ppm	0.0202 ppm	2.5151 ppm	0.0025 ppm	0.2155 ppm	1.1025 ppm
Concentration per Run 3	3.5288 ppm	0.0139 ppm	0.0198 ppm	2.5078 ppm	0.0024 ppm	0.2155 ppm	1.1108 ppm
Concentration RSD	0.4 %	2.5 %	1.1 %	0.2 %	1.7 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	129.7946 %	117.6345 %	116.8476 %	134.8266 %	110.9087 %	116.3532 %
Concentration per Run 1	130.4206 %	117.5506 %	116.4008 %	136.5610 %	110.5739 %	116.4602 %
Concentration per Run 2	129.3903 %	118.0401 %	116.9109 %	134.8801 %	111.4760 %	116.5690 %
Concentration per Run 3	129.5727 %	117.3126 %	117.2311 %	133.0385 %	110.6762 %	116.0304 %
Concentration RSD	0.4 %	0.3 %	0.4 %	1.3 %	0.4 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-04D2 WG1934532
Analysis started at: 6/16/2024 6:09:19 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	101.3930 ppm	0.8160 ppm	0.0108 ppm	0.3116 ppm	0.0045 ppm	8.2667 ppm
Concentration per Run 1	0.0013 ppm	99.0309 ppm	0.8152 ppm	0.0111 ppm	0.3044 ppm	0.0044 ppm	8.0778 ppm
Concentration per Run 2	0.0014 ppm	102.5638 ppm	0.8162 ppm	0.0108 ppm	0.3146 ppm	0.0045 ppm	8.3488 ppm
Concentration per Run 3	0.0014 ppm	102.5843 ppm	0.8165 ppm	0.0105 ppm	0.3158 ppm	0.0045 ppm	8.3734 ppm
Concentration RSD	3.6 %	2.0 %	0.1 %	2.5 %	2.0 %	2.1 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	0.0592 ppm	0.2229 ppm	0.1309 ppm	129.7238 ppm	2.4573 ppm	22.7655 ppm
Concentration per Run 1	0.0043 ppm	0.0592 ppm	0.2227 ppm	0.1308 ppm	126.7397 ppm	2.3860 ppm	22.7756 ppm
Concentration per Run 2	0.0044 ppm	0.0593 ppm	0.2231 ppm	0.1313 ppm	131.0016 ppm	2.4958 ppm	22.7966 ppm
Concentration per Run 3	0.0044 ppm	0.0592 ppm	0.2229 ppm	0.1306 ppm	131.4302 ppm	2.4902 ppm	22.7245 ppm
Concentration RSD	1.2 %	0.1 %	0.1 %	0.3 %	2.0 %	2.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.7020 ppm	0.0053 ppm	0.3315 ppm	0.1079 ppm	0.5110 ppm	0.0153 ppm	0.0065 ppm
Concentration per Run 1	3.6160 ppm	0.0052 ppm	0.3261 ppm	0.1078 ppm	0.5103 ppm	0.0155 ppm	0.0054 ppm
Concentration per Run 2	3.7426 ppm	0.0053 ppm	0.3304 ppm	0.1080 ppm	0.5110 ppm	0.0151 ppm	0.0077 ppm
Concentration per Run 3	3.7473 ppm	0.0054 ppm	0.3380 ppm	0.1080 ppm	0.5119 ppm	0.0154 ppm	0.0066 ppm
Concentration RSD	2.0 %	1.3 %	1.8 %	0.1 %	0.2 %	1.1 %	17.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5112 ppm	0.0160 ppm	0.0444 ppm	2.2504 ppm	0.0041 ppm	0.2782 ppm	0.6485 ppm
Concentration per Run 1	3.5159 ppm	0.0158 ppm	0.0432 ppm	2.2538 ppm	0.0040 ppm	0.2780 ppm	0.6494 ppm
Concentration per Run 2	3.5181 ppm	0.0159 ppm	0.0449 ppm	2.2488 ppm	0.0041 ppm	0.2785 ppm	0.6485 ppm
Concentration per Run 3	3.4997 ppm	0.0162 ppm	0.0452 ppm	2.2487 ppm	0.0041 ppm	0.2782 ppm	0.6474 ppm
Concentration RSD	0.3 %	1.4 %	2.4 %	0.1 %	1.9 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	149.1570 %	131.5309 %	131.0301 %	134.5703 %	110.2842 %	115.4889 %
Concentration per Run 1	152.1966 %	131.6223 %	130.9037 %	138.8505 %	110.2534 %	115.3876 %
Concentration per Run 2	147.9416 %	131.5564 %	131.1397 %	133.7139 %	110.3208 %	115.5257 %
Concentration per Run 3	147.3328 %	131.4139 %	131.0468 %	131.1464 %	110.2783 %	115.5535 %
Concentration RSD	1.8 %	0.1 %	0.1 %	2.9 %	0.0 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 6:15:26 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4962 ppm	0.4829 ppm	0.4766 ppm	0.4824 ppm	0.4670 ppm	0.4827 ppm	0.4645 ppm
Concentration per Run 1	0.4969 ppm	0.4957 ppm	0.4803 ppm	0.4847 ppm	0.4806 ppm	0.4949 ppm	0.4646 ppm
Concentration per Run 2	0.4960 ppm	0.4884 ppm	0.4781 ppm	0.4827 ppm	0.4601 ppm	0.4768 ppm	0.4675 ppm
Concentration per Run 3	0.4957 ppm	0.4646 ppm	0.4713 ppm	0.4797 ppm	0.4602 ppm	0.4763 ppm	0.4614 ppm
Recovery Percentage 1	99.239 %	96.582 %	95.313 %	96.477 %	93.394 %	96.535 %	92.902 %
Concentration RSD	0.1 %	3.4 %	1.0 %	0.5 %	2.5 %	2.2 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5033 ppm	0.5073 ppm	0.5107 ppm	0.4867 ppm	0.5721 ppm	4.7212 ppm	0.4823 ppm
Concentration per Run 1	0.5057 ppm	0.5100 ppm	0.5098 ppm	0.4860 ppm	0.5944 ppm	4.8881 ppm	0.4841 ppm
Concentration per Run 2	0.5042 ppm	0.5078 ppm	0.5113 ppm	0.4878 ppm	0.5701 ppm	4.6664 ppm	0.4804 ppm
Concentration per Run 3	0.5001 ppm	0.5042 ppm	0.5110 ppm	0.4864 ppm	0.5517 ppm	4.6090 ppm	0.4825 ppm
Recovery Percentage 1	100.662 %	101.466 %	102.141 %	97.345 %	114.413 %	94.424 %	96.466 %
Concentration RSD	0.6 %	0.6 %	0.2 %	0.2 %	3.7 %	3.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4592 ppm	0.5010 ppm	9.7367 ppm	0.4916 ppm	0.4861 ppm	0.4896 ppm	0.5237 ppm
Concentration per Run 1	0.4714 ppm	0.5007 ppm	10.0097 ppm	0.4945 ppm	0.4884 ppm	0.4923 ppm	0.5228 ppm
Concentration per Run 2	0.4532 ppm	0.5027 ppm	9.6110 ppm	0.4919 ppm	0.4859 ppm	0.4911 ppm	0.5289 ppm
Concentration per Run 3	0.4530 ppm	0.4996 ppm	9.5894 ppm	0.4885 ppm	0.4840 ppm	0.4854 ppm	0.5193 ppm
Recovery Percentage 1	91.842 %	100.202 %	97.367 %	98.326 %	97.220 %	97.918 %	104.736 %
Concentration RSD	2.3 %	0.3 %	2.4 %	0.6 %	0.5 %	0.7 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9755 ppm	0.5231 ppm	0.4695 ppm	0.4911 ppm	0.5004 ppm	0.4883 ppm	0.5020 ppm
Concentration per Run 1	5.0081 ppm	0.5244 ppm	0.4828 ppm	0.4923 ppm	0.5031 ppm	0.4877 ppm	0.5048 ppm
Concentration per Run 2	4.9790 ppm	0.5239 ppm	0.4632 ppm	0.4917 ppm	0.5004 ppm	0.4894 ppm	0.5024 ppm
Concentration per Run 3	4.9393 ppm	0.5211 ppm	0.4626 ppm	0.4892 ppm	0.4976 ppm	0.4878 ppm	0.4988 ppm
Recovery Percentage 1	94.771 %	104.630 %	93.904 %	98.212 %	100.074 %	97.657 %	100.400 %
Concentration RSD	0.7 %	0.3 %	2.4 %	0.3 %	0.6 %	0.2 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.3263 %	99.8464 %	99.4595 %	118.8604 %	108.8120 %	110.0437 %
Concentration per Run 1	105.0913 %	100.1873 %	99.4114 %	118.4053 %	108.3337 %	109.9736 %
Concentration per Run 2	108.6176 %	99.6951 %	99.0721 %	119.3653 %	108.7355 %	110.0526 %
Concentration per Run 3	108.2701 %	99.6568 %	99.8951 %	118.8105 %	109.3668 %	110.1048 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.3 %	0.4 %	0.4 %	0.5 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 6:21:30 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0150 ppm	0.0007 ppm	0.0030 ppm	0.0003 ppm	0.0002 ppm	0.0090 ppm
Concentration per Run 1	-0.0003 ppm	-0.0157 ppm	0.0010 ppm	0.0033 ppm	0.0002 ppm	0.0002 ppm	0.0057 ppm
Concentration per Run 2	0.0004 ppm	-0.0151 ppm	0.0025 ppm	0.0030 ppm	0.0006 ppm	0.0002 ppm	0.0116 ppm
Concentration per Run 3	-0.0008 ppm	-0.0142 ppm	-0.0014 ppm	0.0027 ppm	0.0002 ppm	0.0002 ppm	0.0097 ppm
Recovery Percentage 1	-3.017 %	-15.029 %	14.539 %	9.902 %	3.265 %	3.660 %	9.007 %
Concentration RSD	294.5 %	5.0 %	272.0 %	9.8 %	71.3 %	4.2 %	33.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0016 ppm	0.0218 ppm	-0.2242 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0016 ppm	0.0206 ppm	-0.2434 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0017 ppm	0.0237 ppm	-0.1865 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	0.0210 ppm	-0.2428 ppm	-0.0043 ppm
Recovery Percentage 1	-0.634 %	-0.213 %	4.201 %	-16.103 %	43.605 %	-8.969 %	-1.566 %
Concentration RSD	159.0 %	287.3 %	100.9 %	3.5 %	7.7 %	14.6 %	151.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0016 ppm	0.0254 ppm	0.0000 ppm	0.0008 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0018 ppm	0.0282 ppm	-0.0001 ppm	0.0015 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	0.0018 ppm	0.0369 ppm	-0.0001 ppm	0.0009 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	0.0008 ppm	0.0013 ppm	0.0110 ppm	0.0001 ppm	0.0000 ppm	-0.0017 ppm	0.0010 ppm
Recovery Percentage 1	8.674 %	3.269 %	1.269 %	-0.136 %	8.051 %	-1.283 %	2.605 %
Concentration RSD	62.3 %	16.5 %	51.9 %	386.0 %	92.3 %	170.0 %	288.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0052 ppm	0.0005 ppm	0.0000 ppm	0.0004 ppm	0.0011 ppm	0.0001 ppm	-0.0029 ppm
Concentration per Run 1	0.0064 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0008 ppm	-0.0001 ppm	-0.0029 ppm
Concentration per Run 2	0.0043 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm	0.0018 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 3	0.0050 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0002 ppm	-0.0029 ppm
Recovery Percentage 1	1.047 %	0.925 %	-0.137 %	4.414 %	5.671 %	0.531 %	-57.315 %
Concentration RSD	20.8 %	23.3 %	445.9 %	67.4 %	48.2 %	326.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.0370 %	102.4875 %	102.1204 %	110.1950 %	107.8433 %	107.7308 %
Concentration per Run 1	111.1460 %	102.2116 %	101.9094 %	110.2891 %	107.3112 %	107.4686 %
Concentration per Run 2	107.1754 %	102.3154 %	102.1730 %	109.1527 %	108.1080 %	107.5294 %
Concentration per Run 3	108.7897 %	102.9353 %	102.2787 %	111.1432 %	108.1108 %	108.1944 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.4 %	0.2 %	0.9 %	0.4 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934532-1 WG1934532
Analysis started at: 6/16/2024 6:32:14 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0086 ppm	0.0002 ppm	0.0026 ppm	0.0004 ppm	-0.0001 ppm	0.0510 ppm
Concentration per Run 1	0.0001 ppm	0.0094 ppm	0.0020 ppm	0.0022 ppm	0.0004 ppm	0.0000 ppm	0.0507 ppm
Concentration per Run 2	-0.0006 ppm	0.0062 ppm	0.0001 ppm	0.0027 ppm	0.0006 ppm	-0.0001 ppm	0.0474 ppm
Concentration per Run 3	-0.0005 ppm	0.0103 ppm	-0.0015 ppm	0.0029 ppm	0.0002 ppm	0.0000 ppm	0.0549 ppm
Recovery Percentage 1	-4.532 %	8.639 %	3.781 %	8.678 %	4.170 %	-1.072 %	51.017 %
Concentration RSD	109.8 %	24.6 %	919.5 %	13.6 %	37.1 %	109.4 %	7.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0824 ppm	-0.2257 ppm	0.0065 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0004 ppm	0.0779 ppm	-0.2136 ppm	0.0094 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0018 ppm	-0.0002 ppm	0.0833 ppm	-0.2396 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0010 ppm	0.0002 ppm	0.0859 ppm	-0.2237 ppm	0.0081 ppm
Recovery Percentage 1	-0.469 %	-1.297 %	13.321 %	1.444 %	164.743 %	-9.026 %	6.511 %
Concentration RSD	45.5 %	47.6 %	32.4 %	224.4 %	4.9 %	5.8 %	59.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0016 ppm	0.0002 ppm	0.0528 ppm	0.0004 ppm	0.0016 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0004 ppm	0.0490 ppm	0.0006 ppm	0.0010 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	0.0016 ppm	0.0001 ppm	0.0510 ppm	0.0004 ppm	0.0018 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0017 ppm	0.0003 ppm	0.0585 ppm	0.0003 ppm	0.0020 ppm	-0.0003 ppm	-0.0010 ppm
Recovery Percentage 1	15.527 %	0.474 %	2.641 %	1.756 %	16.201 %	-0.251 %	2.946 %
Concentration RSD	11.6 %	68.9 %	9.5 %	31.4 %	32.1 %	105.4 %	450.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0127 ppm	0.0006 ppm	0.0000 ppm	0.0006 ppm	-0.0011 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 1	0.0126 ppm	0.0007 ppm	0.0001 ppm	0.0008 ppm	-0.0015 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	0.0121 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	-0.0014 ppm	0.0005 ppm	0.0022 ppm
Concentration per Run 3	0.0134 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	-0.0002 ppm	0.0023 ppm
Recovery Percentage 1	2.532 %	1.275 %	0.245 %	5.744 %	-5.304 %	0.975 %	44.926 %
Concentration RSD	5.2 %	63.5 %	430.4 %	36.3 %	60.3 %	352.9 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.3187 %	103.7780 %	102.7902 %	122.7062 %	108.8835 %	111.3486 %
Concentration per Run 1	113.4626 %	103.4604 %	102.6797 %	125.9160 %	108.7382 %	111.2624 %
Concentration per Run 2	108.3189 %	103.7432 %	102.9335 %	121.0848 %	109.2662 %	111.2900 %
Concentration per Run 3	109.1746 %	104.1303 %	102.7574 %	121.1177 %	108.6460 %	111.4932 %
Recovery Percentage 1						
Concentration RSD	2.5 %	0.3 %	0.1 %	2.3 %	0.3 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934532-2D2 WG1934532
Analysis started at: 6/16/2024 6:38:36 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0482 ppm	1.7406 ppm	0.1128 ppm	0.9267 ppm	1.7862 ppm	0.0458 ppm	8.9043 ppm
Concentration per Run 1	0.0484 ppm	1.6648 ppm	0.1122 ppm	0.9259 ppm	1.7139 ppm	0.0438 ppm	8.5301 ppm
Concentration per Run 2	0.0483 ppm	1.7780 ppm	0.1140 ppm	0.9258 ppm	1.8241 ppm	0.0468 ppm	9.0967 ppm
Concentration per Run 3	0.0479 ppm	1.7792 ppm	0.1122 ppm	0.9284 ppm	1.8207 ppm	0.0468 ppm	9.0863 ppm
Concentration RSD	0.6 %	3.8 %	0.9 %	0.2 %	3.5 %	3.8 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0530 ppm	0.4795 ppm	0.1960 ppm	0.2397 ppm	0.9349 ppm	9.1053 ppm	9.3754 ppm
Concentration per Run 1	0.0529 ppm	0.4789 ppm	0.1961 ppm	0.2398 ppm	0.8983 ppm	8.7533 ppm	9.4000 ppm
Concentration per Run 2	0.0530 ppm	0.4795 ppm	0.1958 ppm	0.2394 ppm	0.9530 ppm	9.2526 ppm	9.3602 ppm
Concentration per Run 3	0.0531 ppm	0.4801 ppm	0.1960 ppm	0.2400 ppm	0.9534 ppm	9.3099 ppm	9.3661 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	3.4 %	3.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4419 ppm	0.9762 ppm	9.3917 ppm	0.4775 ppm	0.5058 ppm	0.4836 ppm	0.1194 ppm
Concentration per Run 1	0.4236 ppm	0.9704 ppm	9.0284 ppm	0.4766 ppm	0.5038 ppm	0.4829 ppm	0.1187 ppm
Concentration per Run 2	0.4516 ppm	0.9763 ppm	9.5876 ppm	0.4773 ppm	0.5066 ppm	0.4828 ppm	0.1218 ppm
Concentration per Run 3	0.4504 ppm	0.9820 ppm	9.5592 ppm	0.4786 ppm	0.5071 ppm	0.4853 ppm	0.1175 ppm
Concentration RSD	3.6 %	0.6 %	3.4 %	0.2 %	0.4 %	0.3 %	1.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0090 ppm	0.9802 ppm	0.8712 ppm	0.9533 ppm	0.1162 ppm	0.4726 ppm	0.4824 ppm
Concentration per Run 1	1.0068 ppm	0.9791 ppm	0.8356 ppm	0.9555 ppm	0.1136 ppm	0.4730 ppm	0.4814 ppm
Concentration per Run 2	1.0098 ppm	0.9802 ppm	0.8898 ppm	0.9510 ppm	0.1179 ppm	0.4729 ppm	0.4827 ppm
Concentration per Run 3	1.0105 ppm	0.9815 ppm	0.8881 ppm	0.9533 ppm	0.1171 ppm	0.4720 ppm	0.4831 ppm
Concentration RSD	0.2 %	0.1 %	3.5 %	0.2 %	2.0 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.2106 %	101.7263 %	100.8345 %	124.2939 %	109.4035 %	111.7077 %
Concentration per Run 1	114.1627 %	101.1787 %	100.8477 %	127.8571 %	109.6182 %	111.1135 %
Concentration per Run 2	108.2048 %	102.3744 %	100.9293 %	123.0983 %	109.2952 %	112.4099 %
Concentration per Run 3	108.2644 %	101.6258 %	100.7263 %	121.9262 %	109.2971 %	111.5995 %
Concentration RSD	3.1 %	0.6 %	0.1 %	2.5 %	0.2 %	0.6 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-05D2 WG1934532
Analysis started at: 6/16/2024 6:44:42 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0015 ppm	105.0160 ppm	0.1907 ppm	0.0098 ppm	0.4189 ppm	0.0050 ppm	8.9697 ppm
Concentration per Run 1	0.0016 ppm	104.0183 ppm	0.1895 ppm	0.0102 ppm	0.4148 ppm	0.0051 ppm	8.8913 ppm
Concentration per Run 2	0.0015 ppm	106.7107 ppm	0.1921 ppm	0.0093 ppm	0.4255 ppm	0.0051 ppm	9.1035 ppm
Concentration per Run 3	0.0012 ppm	104.3191 ppm	0.1906 ppm	0.0099 ppm	0.4164 ppm	0.0049 ppm	8.9144 ppm
Concentration RSD	16.0 %	1.4 %	0.7 %	5.0 %	1.4 %	1.5 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0039 ppm	0.0700 ppm	0.2286 ppm	0.1612 ppm	128.2068 ppm	2.4801 ppm	20.4461 ppm
Concentration per Run 1	0.0038 ppm	0.0699 ppm	0.2285 ppm	0.1612 ppm	127.1720 ppm	2.4817 ppm	20.4292 ppm
Concentration per Run 2	0.0039 ppm	0.0699 ppm	0.2279 ppm	0.1602 ppm	130.1020 ppm	2.5155 ppm	20.4418 ppm
Concentration per Run 3	0.0039 ppm	0.0701 ppm	0.2293 ppm	0.1622 ppm	127.3463 ppm	2.4433 ppm	20.4675 ppm
Concentration RSD	0.7 %	0.2 %	0.3 %	0.6 %	1.3 %	1.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.7723 ppm	0.0102 ppm	0.3304 ppm	0.1080 ppm	0.7658 ppm	0.0132 ppm	0.0052 ppm
Concentration per Run 1	4.7342 ppm	0.0107 ppm	0.3336 ppm	0.1077 ppm	0.7652 ppm	0.0128 ppm	0.0048 ppm
Concentration per Run 2	4.8432 ppm	0.0100 ppm	0.3396 ppm	0.1082 ppm	0.7672 ppm	0.0146 ppm	0.0052 ppm
Concentration per Run 3	4.7394 ppm	0.0098 ppm	0.3181 ppm	0.1081 ppm	0.7649 ppm	0.0124 ppm	0.0056 ppm
Concentration RSD	1.3 %	4.7 %	3.3 %	0.2 %	0.2 %	8.7 %	7.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5623 ppm	0.0182 ppm	0.0495 ppm	2.3074 ppm	0.0053 ppm	0.3149 ppm	0.4876 ppm
Concentration per Run 1	2.5607 ppm	0.0183 ppm	0.0491 ppm	2.3085 ppm	0.0060 ppm	0.3149 ppm	0.4874 ppm
Concentration per Run 2	2.5640 ppm	0.0181 ppm	0.0502 ppm	2.3076 ppm	0.0040 ppm	0.3137 ppm	0.4878 ppm
Concentration per Run 3	2.5623 ppm	0.0182 ppm	0.0493 ppm	2.3060 ppm	0.0060 ppm	0.3160 ppm	0.4874 ppm
Concentration RSD	0.1 %	0.5 %	1.2 %	0.1 %	21.6 %	0.4 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	154.5123 %	141.5865 %	140.5010 %	133.0402 %	110.6224 %	116.2071 %
Concentration per Run 1	155.0527 %	141.8888 %	140.5281 %	135.7040 %	110.6727 %	116.3373 %
Concentration per Run 2	152.8665 %	141.9881 %	140.3348 %	132.0054 %	110.5661 %	116.3422 %
Concentration per Run 3	155.6178 %	140.8827 %	140.6401 %	131.4113 %	110.6285 %	115.9420 %
Concentration RSD	0.9 %	0.4 %	0.1 %	1.7 %	0.0 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-06D2 WG1934532
Analysis started at: 6/16/2024 6:50:50 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	102.7525 ppm	0.0842 ppm	0.0087 ppm	0.3507 ppm	0.0056 ppm	7.7454 ppm
Concentration per Run 1	0.0005 ppm	101.1405 ppm	0.0845 ppm	0.0088 ppm	0.3450 ppm	0.0055 ppm	7.6025 ppm
Concentration per Run 2	0.0005 ppm	104.0736 ppm	0.0825 ppm	0.0084 ppm	0.3551 ppm	0.0056 ppm	7.8516 ppm
Concentration per Run 3	-0.0001 ppm	103.0432 ppm	0.0855 ppm	0.0091 ppm	0.3519 ppm	0.0057 ppm	7.7822 ppm
Concentration RSD	113.4 %	1.4 %	1.8 %	4.1 %	1.5 %	1.6 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0033 ppm	0.0467 ppm	0.1595 ppm	0.1198 ppm	100.2755 ppm	1.4974 ppm	13.7777 ppm
Concentration per Run 1	0.0033 ppm	0.0469 ppm	0.1590 ppm	0.1199 ppm	98.7023 ppm	1.4806 ppm	13.8009 ppm
Concentration per Run 2	0.0034 ppm	0.0466 ppm	0.1599 ppm	0.1199 ppm	101.5384 ppm	1.4974 ppm	13.7350 ppm
Concentration per Run 3	0.0033 ppm	0.0467 ppm	0.1596 ppm	0.1195 ppm	100.5858 ppm	1.5143 ppm	13.7971 ppm
Concentration RSD	1.1 %	0.2 %	0.3 %	0.2 %	1.4 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.5187 ppm	0.0072 ppm	0.3252 ppm	0.0796 ppm	0.2121 ppm	0.0100 ppm	0.0059 ppm
Concentration per Run 1	5.4313 ppm	0.0073 ppm	0.3152 ppm	0.0795 ppm	0.2119 ppm	0.0101 ppm	0.0066 ppm
Concentration per Run 2	5.5891 ppm	0.0073 ppm	0.3290 ppm	0.0797 ppm	0.2112 ppm	0.0114 ppm	0.0046 ppm
Concentration per Run 3	5.5358 ppm	0.0071 ppm	0.3313 ppm	0.0798 ppm	0.2133 ppm	0.0087 ppm	0.0066 ppm
Concentration RSD	1.5 %	1.7 %	2.7 %	0.2 %	0.5 %	13.8 %	19.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.4302 ppm	0.0068 ppm	0.0517 ppm	1.9472 ppm	0.0048 ppm	0.2153 ppm	0.3214 ppm
Concentration per Run 1	4.4315 ppm	0.0073 ppm	0.0510 ppm	1.9491 ppm	0.0041 ppm	0.2155 ppm	0.3221 ppm
Concentration per Run 2	4.4271 ppm	0.0064 ppm	0.0524 ppm	1.9434 ppm	0.0065 ppm	0.2150 ppm	0.3213 ppm
Concentration per Run 3	4.4321 ppm	0.0067 ppm	0.0518 ppm	1.9491 ppm	0.0040 ppm	0.2153 ppm	0.3207 ppm
Concentration RSD	0.1 %	6.6 %	1.4 %	0.2 %	29.1 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	166.0394 %	150.8338 %	150.1576 %	129.3341 %	109.4457 %	113.7728 %
Concentration per Run 1	168.0862 %	150.6756 %	149.8400 %	133.3182 %	109.4811 %	113.6595 %
Concentration per Run 2	164.0884 %	151.1801 %	150.3914 %	127.1124 %	109.5980 %	114.1166 %
Concentration per Run 3	165.9438 %	150.6457 %	150.2415 %	127.5716 %	109.2580 %	113.5422 %
Concentration RSD	1.2 %	0.2 %	0.2 %	2.7 %	0.2 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-07D2 WG1934532
Analysis started at: 6/16/2024 7:02:14 PM
Comments <Comment>
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	78.7182 ppm	0.1554 ppm	0.0057 ppm	0.3203 ppm	0.0044 ppm	4.8779 ppm
Concentration per Run 1	0.0004 ppm	78.5521 ppm	0.1554 ppm	0.0055 ppm	0.3200 ppm	0.0044 ppm	4.8638 ppm
Concentration per Run 2	0.0008 ppm	79.7597 ppm	0.1559 ppm	0.0060 ppm	0.3248 ppm	0.0044 ppm	4.9367 ppm
Concentration per Run 3	0.0003 ppm	77.8428 ppm	0.1550 ppm	0.0056 ppm	0.3161 ppm	0.0044 ppm	4.8332 ppm
Concentration RSD	54.0 %	1.2 %	0.3 %	4.1 %	1.4 %	0.9 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0037 ppm	0.0515 ppm	0.1334 ppm	0.2327 ppm	115.8709 ppm	1.4457 ppm	10.4388 ppm
Concentration per Run 1	0.0036 ppm	0.0511 ppm	0.1333 ppm	0.2319 ppm	115.5690 ppm	1.4233 ppm	10.3831 ppm
Concentration per Run 2	0.0036 ppm	0.0518 ppm	0.1334 ppm	0.2322 ppm	117.3289 ppm	1.4841 ppm	10.4392 ppm
Concentration per Run 3	0.0037 ppm	0.0517 ppm	0.1337 ppm	0.2340 ppm	114.7147 ppm	1.4297 ppm	10.4942 ppm
Concentration RSD	1.2 %	0.7 %	0.1 %	0.5 %	1.2 %	2.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.6185 ppm	0.0057 ppm	0.1966 ppm	0.0748 ppm	0.4356 ppm	0.0089 ppm	0.0042 ppm
Concentration per Run 1	5.6059 ppm	0.0058 ppm	0.1902 ppm	0.0746 ppm	0.4323 ppm	0.0086 ppm	0.0035 ppm
Concentration per Run 2	5.6903 ppm	0.0057 ppm	0.1985 ppm	0.0747 ppm	0.4357 ppm	0.0096 ppm	0.0043 ppm
Concentration per Run 3	5.5592 ppm	0.0055 ppm	0.2013 ppm	0.0751 ppm	0.4388 ppm	0.0086 ppm	0.0047 ppm
Concentration RSD	1.2 %	2.2 %	2.9 %	0.3 %	0.7 %	6.2 %	14.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5981 ppm	0.0111 ppm	0.0401 ppm	2.3185 ppm	0.0062 ppm	0.1870 ppm	0.3774 ppm
Concentration per Run 1	3.5661 ppm	0.0113 ppm	0.0398 ppm	2.3062 ppm	0.0062 ppm	0.1864 ppm	0.3739 ppm
Concentration per Run 2	3.6025 ppm	0.0108 ppm	0.0406 ppm	2.3201 ppm	0.0066 ppm	0.1867 ppm	0.3788 ppm
Concentration per Run 3	3.6258 ppm	0.0111 ppm	0.0398 ppm	2.3293 ppm	0.0059 ppm	0.1880 ppm	0.3794 ppm
Concentration RSD	0.8 %	2.1 %	1.2 %	0.5 %	5.8 %	0.5 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	151.8551 %	142.9182 %	142.7215 %	154.0774 %	110.9153 %	116.6258 %
Concentration per Run 1	152.1292 %	142.5161 %	143.1965 %	164.9559 %	111.9900 %	116.9963 %
Concentration per Run 2	150.5724 %	143.2872 %	142.3140 %	152.3144 %	110.5310 %	116.7563 %
Concentration per Run 3	152.8637 %	142.9514 %	142.6539 %	144.9620 %	110.2247 %	116.1247 %
Concentration RSD	0.8 %	0.3 %	0.3 %	6.6 %	0.9 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-02D2 WG1934532
Analysis started at: 6/16/2024 7:08:22 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	84.7404 ppm	0.2139 ppm	0.0070 ppm	0.3469 ppm	0.0039 ppm	6.7388 ppm
Concentration per Run 1	0.0002 ppm	85.1507 ppm	0.2134 ppm	0.0071 ppm	0.3486 ppm	0.0039 ppm	6.7381 ppm
Concentration per Run 2	-0.0005 ppm	85.1704 ppm	0.2156 ppm	0.0065 ppm	0.3494 ppm	0.0038 ppm	6.7803 ppm
Concentration per Run 3	0.0003 ppm	83.8999 ppm	0.2126 ppm	0.0075 ppm	0.3428 ppm	0.0039 ppm	6.6981 ppm
Concentration RSD	13,951.0 %	0.9 %	0.7 %	6.8 %	1.0 %	1.0 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0030 ppm	0.0462 ppm	0.1537 ppm	0.1021 ppm	116.9784 ppm	1.6312 ppm	12.0411 ppm
Concentration per Run 1	0.0031 ppm	0.0463 ppm	0.1535 ppm	0.1026 ppm	117.2168 ppm	1.6018 ppm	12.0051 ppm
Concentration per Run 2	0.0030 ppm	0.0462 ppm	0.1530 ppm	0.1015 ppm	117.5127 ppm	1.6937 ppm	12.0596 ppm
Concentration per Run 3	0.0030 ppm	0.0460 ppm	0.1547 ppm	0.1021 ppm	116.2057 ppm	1.5981 ppm	12.0586 ppm
Concentration RSD	1.1 %	0.3 %	0.6 %	0.5 %	0.6 %	3.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4919 ppm	0.0063 ppm	0.2640 ppm	0.0839 ppm	0.7441 ppm	0.0129 ppm	0.0035 ppm
Concentration per Run 1	1.4953 ppm	0.0062 ppm	0.2674 ppm	0.0831 ppm	0.7437 ppm	0.0139 ppm	0.0059 ppm
Concentration per Run 2	1.5004 ppm	0.0065 ppm	0.2533 ppm	0.0845 ppm	0.7452 ppm	0.0141 ppm	0.0021 ppm
Concentration per Run 3	1.4801 ppm	0.0063 ppm	0.2713 ppm	0.0840 ppm	0.7434 ppm	0.0106 ppm	0.0025 ppm
Concentration RSD	0.7 %	2.8 %	3.6 %	0.8 %	0.1 %	15.6 %	59.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.1987 ppm	0.0184 ppm	0.0464 ppm	2.6570 ppm	0.0024 ppm	0.1956 ppm	0.3987 ppm
Concentration per Run 1	8.1830 ppm	0.0183 ppm	0.0465 ppm	2.6516 ppm	0.0012 ppm	0.1959 ppm	0.3985 ppm
Concentration per Run 2	8.1530 ppm	0.0187 ppm	0.0469 ppm	2.6576 ppm	0.0026 ppm	0.1950 ppm	0.3992 ppm
Concentration per Run 3	8.2601 ppm	0.0180 ppm	0.0458 ppm	2.6619 ppm	0.0033 ppm	0.1959 ppm	0.3984 ppm
Concentration RSD	0.7 %	1.9 %	1.2 %	0.2 %	44.0 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	126.9565 %	117.4131 %	117.2425 %	126.3343 %	109.9559 %	113.6220 %
Concentration per Run 1	126.8324 %	117.3770 %	116.9015 %	127.1066 %	109.8704 %	113.8427 %
Concentration per Run 2	126.5484 %	117.7071 %	117.3691 %	126.4583 %	109.9975 %	113.7702 %
Concentration per Run 3	127.4887 %	117.1553 %	117.4569 %	125.4380 %	109.9999 %	113.2532 %
Concentration RSD	0.4 %	0.2 %	0.3 %	0.7 %	0.1 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934532-3D2 WG1934532
Analysis started at: 6/16/2024 7:14:32 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0463 ppm	88.4806 ppm	0.3126 ppm	0.8567 ppm	1.8937 ppm	0.0429 ppm	13.9820 ppm
Concentration per Run 1	0.0467 ppm	89.3012 ppm	0.3121 ppm	0.8560 ppm	1.9117 ppm	0.0432 ppm	14.1252 ppm
Concentration per Run 2	0.0464 ppm	88.3865 ppm	0.3092 ppm	0.8553 ppm	1.8916 ppm	0.0429 ppm	13.9524 ppm
Concentration per Run 3	0.0459 ppm	87.7542 ppm	0.3166 ppm	0.8589 ppm	1.8778 ppm	0.0425 ppm	13.8683 ppm
Concentration RSD	0.9 %	0.9 %	1.2 %	0.2 %	0.9 %	0.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0540 ppm	0.5071 ppm	0.3075 ppm	0.3426 ppm	108.1663 ppm	9.7437 ppm	21.0361 ppm
Concentration per Run 1	0.0538 ppm	0.5061 ppm	0.3067 ppm	0.3423 ppm	109.1048 ppm	9.8044 ppm	21.0119 ppm
Concentration per Run 2	0.0539 ppm	0.5064 ppm	0.3082 ppm	0.3429 ppm	107.9875 ppm	9.7774 ppm	21.0411 ppm
Concentration per Run 3	0.0542 ppm	0.5087 ppm	0.3075 ppm	0.3426 ppm	107.4066 ppm	9.6494 ppm	21.0553 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.1 %	0.8 %	0.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.7936 ppm	0.9674 ppm	8.4845 ppm	0.5340 ppm	1.0671 ppm	0.4455 ppm	0.1036 ppm
Concentration per Run 1	1.8087 ppm	0.9618 ppm	8.5629 ppm	0.5346 ppm	1.0650 ppm	0.4462 ppm	0.1023 ppm
Concentration per Run 2	1.7905 ppm	0.9656 ppm	8.4954 ppm	0.5330 ppm	1.0645 ppm	0.4442 ppm	0.1036 ppm
Concentration per Run 3	1.7815 ppm	0.9749 ppm	8.3951 ppm	0.5343 ppm	1.0717 ppm	0.4461 ppm	0.1048 ppm
Concentration RSD	0.8 %	0.7 %	1.0 %	0.2 %	0.4 %	0.3 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1378 ppm	0.9718 ppm	0.8027 ppm	3.2247 ppm	0.1112 ppm	0.6384 ppm	0.8739 ppm
Concentration per Run 1	5.1502 ppm	0.9716 ppm	0.8106 ppm	3.2174 ppm	0.1124 ppm	0.6381 ppm	0.8740 ppm
Concentration per Run 2	5.1189 ppm	0.9697 ppm	0.8013 ppm	3.2310 ppm	0.1100 ppm	0.6386 ppm	0.8720 ppm
Concentration per Run 3	5.1443 ppm	0.9741 ppm	0.7963 ppm	3.2259 ppm	0.1111 ppm	0.6384 ppm	0.8756 ppm
Concentration RSD	0.3 %	0.2 %	0.9 %	0.2 %	1.1 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	124.4872 %	113.8501 %	113.2711 %	124.8078 %	107.7330 %	112.2292 %
Concentration per Run 1	123.2725 %	113.6331 %	113.6011 %	124.3063 %	107.6740 %	112.2998 %
Concentration per Run 2	124.6627 %	114.1959 %	113.1065 %	125.2327 %	107.9595 %	112.3969 %
Concentration per Run 3	125.5265 %	113.7214 %	113.1057 %	124.8844 %	107.5653 %	111.9910 %
Concentration RSD	0.9 %	0.3 %	0.3 %	0.4 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934532-4D2 WG1934532
Analysis started at: 6/16/2024 7:20:36 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	78.0074 ppm	0.2363 ppm	0.0069 ppm	0.3321 ppm	0.0035 ppm	7.1540 ppm
Concentration per Run 1	0.0003 ppm	76.4443 ppm	0.2368 ppm	0.0070 ppm	0.3255 ppm	0.0034 ppm	7.0135 ppm
Concentration per Run 2	0.0000 ppm	79.1578 ppm	0.2359 ppm	0.0072 ppm	0.3371 ppm	0.0035 ppm	7.2628 ppm
Concentration per Run 3	0.0006 ppm	78.4200 ppm	0.2363 ppm	0.0065 ppm	0.3336 ppm	0.0035 ppm	7.1857 ppm
Concentration RSD	101.1 %	1.8 %	0.2 %	5.1 %	1.8 %	2.1 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0029 ppm	0.0626 ppm	0.1248 ppm	0.1202 ppm	107.1266 ppm	1.5382 ppm	11.3831 ppm
Concentration per Run 1	0.0029 ppm	0.0625 ppm	0.1248 ppm	0.1205 ppm	105.1879 ppm	1.5319 ppm	11.3912 ppm
Concentration per Run 2	0.0029 ppm	0.0626 ppm	0.1248 ppm	0.1203 ppm	108.8946 ppm	1.5375 ppm	11.3792 ppm
Concentration per Run 3	0.0029 ppm	0.0627 ppm	0.1249 ppm	0.1199 ppm	107.2973 ppm	1.5452 ppm	11.3790 ppm
Concentration RSD	1.2 %	0.2 %	0.1 %	0.3 %	1.7 %	0.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4952 ppm	0.0079 ppm	0.2616 ppm	0.0786 ppm	0.8951 ppm	0.0113 ppm	0.0041 ppm
Concentration per Run 1	1.4642 ppm	0.0082 ppm	0.2707 ppm	0.0785 ppm	0.8961 ppm	0.0127 ppm	0.0030 ppm
Concentration per Run 2	1.5215 ppm	0.0077 ppm	0.2604 ppm	0.0787 ppm	0.8941 ppm	0.0107 ppm	0.0045 ppm
Concentration per Run 3	1.5001 ppm	0.0077 ppm	0.2536 ppm	0.0787 ppm	0.8951 ppm	0.0106 ppm	0.0047 ppm
Concentration RSD	1.9 %	3.6 %	3.3 %	0.2 %	0.1 %	10.5 %	23.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0963 ppm	0.0178 ppm	0.0491 ppm	2.4313 ppm	0.0026 ppm	0.1805 ppm	0.4677 ppm
Concentration per Run 1	4.1037 ppm	0.0179 ppm	0.0483 ppm	2.4343 ppm	0.0032 ppm	0.1810 ppm	0.4678 ppm
Concentration per Run 2	4.0901 ppm	0.0178 ppm	0.0501 ppm	2.4297 ppm	0.0021 ppm	0.1803 ppm	0.4672 ppm
Concentration per Run 3	4.0950 ppm	0.0177 ppm	0.0490 ppm	2.4300 ppm	0.0024 ppm	0.1803 ppm	0.4681 ppm
Concentration RSD	0.2 %	0.8 %	1.8 %	0.1 %	21.4 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	126.4768 %	117.1458 %	116.9392 %	127.7790 %	110.2040 %	114.3307 %
Concentration per Run 1	128.3857 %	117.4232 %	117.2003 %	130.6333 %	110.4389 %	114.4943 %
Concentration per Run 2	124.8591 %	117.1603 %	117.0686 %	126.9248 %	110.2685 %	114.4015 %
Concentration per Run 3	126.1857 %	116.8538 %	116.5486 %	125.7790 %	109.9047 %	114.0963 %
Concentration RSD	1.4 %	0.2 %	0.3 %	2.0 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934532-5D2 WG1934532
Analysis started at: 6/16/2024 7:26:47 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0464 ppm	81.2067 ppm	0.3147 ppm	0.9020 ppm	1.8143 ppm	0.0419 ppm	13.5991 ppm
Concentration per Run 1	0.0459 ppm	79.7266 ppm	0.3150 ppm	0.9008 ppm	1.7823 ppm	0.0409 ppm	13.3558 ppm
Concentration per Run 2	0.0467 ppm	81.7493 ppm	0.3159 ppm	0.9023 ppm	1.8255 ppm	0.0423 ppm	13.6876 ppm
Concentration per Run 3	0.0465 ppm	82.1442 ppm	0.3132 ppm	0.9030 ppm	1.8350 ppm	0.0423 ppm	13.7540 ppm
Concentration RSD	0.9 %	1.6 %	0.4 %	0.1 %	1.5 %	1.9 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0531 ppm	0.4981 ppm	0.3293 ppm	0.3294 ppm	111.3129 ppm	9.5337 ppm	20.5139 ppm
Concentration per Run 1	0.0530 ppm	0.4977 ppm	0.3283 ppm	0.3291 ppm	109.2877 ppm	9.3542 ppm	20.5314 ppm
Concentration per Run 2	0.0531 ppm	0.4987 ppm	0.3303 ppm	0.3296 ppm	111.9718 ppm	9.6115 ppm	20.4850 ppm
Concentration per Run 3	0.0530 ppm	0.4978 ppm	0.3293 ppm	0.3296 ppm	112.6793 ppm	9.6353 ppm	20.5254 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	1.6 %	1.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.7589 ppm	0.9483 ppm	8.2064 ppm	0.5243 ppm	1.1915 ppm	0.4549 ppm	0.1058 ppm
Concentration per Run 1	1.7241 ppm	0.9409 ppm	8.0388 ppm	0.5237 ppm	1.1904 ppm	0.4511 ppm	0.1056 ppm
Concentration per Run 2	1.7698 ppm	0.9508 ppm	8.2780 ppm	0.5250 ppm	1.1911 ppm	0.4578 ppm	0.1066 ppm
Concentration per Run 3	1.7829 ppm	0.9533 ppm	8.3026 ppm	0.5241 ppm	1.1928 ppm	0.4558 ppm	0.1051 ppm
Concentration RSD	1.8 %	0.7 %	1.8 %	0.1 %	0.1 %	0.8 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.2303 ppm	0.9623 ppm	0.7766 ppm	3.4909 ppm	0.1122 ppm	0.6304 ppm	0.8332 ppm
Concentration per Run 1	9.2367 ppm	0.9597 ppm	0.7622 ppm	3.4963 ppm	0.1101 ppm	0.6308 ppm	0.8324 ppm
Concentration per Run 2	9.2051 ppm	0.9645 ppm	0.7822 ppm	3.4849 ppm	0.1129 ppm	0.6317 ppm	0.8338 ppm
Concentration per Run 3	9.2491 ppm	0.9626 ppm	0.7855 ppm	3.4914 ppm	0.1134 ppm	0.6288 ppm	0.8334 ppm
Concentration RSD	0.2 %	0.3 %	1.6 %	0.2 %	1.6 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	126.0484 %	115.2608 %	114.6062 %	126.7149 %	108.5261 %	111.8224 %
Concentration per Run 1	127.7823 %	115.1097 %	114.5719 %	129.6069 %	108.7363 %	111.5466 %
Concentration per Run 2	125.5719 %	115.0726 %	114.6422 %	125.5713 %	108.4074 %	111.8862 %
Concentration per Run 3	124.7909 %	115.6000 %	114.6045 %	124.9665 %	108.4345 %	112.0343 %
Concentration RSD	1.2 %	0.3 %	0.0 %	2.0 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: WG1934532-6D10 WG1934532
Analysis started at: 6/16/2024 7:32:51 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	18.5381 ppm	0.0432 ppm	0.0036 ppm	0.0787 ppm	0.0009 ppm	1.4966 ppm
Concentration per Run 1	-0.0005 ppm	17.6031 ppm	0.0424 ppm	0.0037 ppm	0.0748 ppm	0.0008 ppm	1.4071 ppm
Concentration per Run 2	-0.0001 ppm	19.0653 ppm	0.0431 ppm	0.0039 ppm	0.0807 ppm	0.0010 ppm	1.5519 ppm
Concentration per Run 3	0.0001 ppm	18.9460 ppm	0.0439 ppm	0.0032 ppm	0.0805 ppm	0.0008 ppm	1.5309 ppm
Concentration RSD	192.8 %	4.4 %	1.8 %	9.3 %	4.2 %	11.8 %	5.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0093 ppm	0.0320 ppm	0.0191 ppm	26.2447 ppm	0.1905 ppm	2.5481 ppm
Concentration per Run 1	0.0006 ppm	0.0092 ppm	0.0322 ppm	0.0190 ppm	24.8678 ppm	0.1847 ppm	2.5587 ppm
Concentration per Run 2	0.0006 ppm	0.0093 ppm	0.0317 ppm	0.0188 ppm	26.9986 ppm	0.1881 ppm	2.5411 ppm
Concentration per Run 3	0.0005 ppm	0.0093 ppm	0.0319 ppm	0.0194 ppm	26.8676 ppm	0.1988 ppm	2.5444 ppm
Concentration RSD	4.3 %	1.1 %	0.9 %	1.7 %	4.6 %	3.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3375 ppm	0.0043 ppm	0.0503 ppm	0.0169 ppm	0.1523 ppm	0.0027 ppm	-0.0009 ppm
Concentration per Run 1	0.3186 ppm	0.0046 ppm	0.0461 ppm	0.0165 ppm	0.1519 ppm	0.0027 ppm	-0.0011 ppm
Concentration per Run 2	0.3482 ppm	0.0043 ppm	0.0477 ppm	0.0172 ppm	0.1520 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 3	0.3456 ppm	0.0040 ppm	0.0572 ppm	0.0168 ppm	0.1531 ppm	0.0037 ppm	-0.0020 ppm
Concentration RSD	4.9 %	6.3 %	11.8 %	2.0 %	0.4 %	39.5 %	141.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9258 ppm	0.0035 ppm	0.0107 ppm	0.5562 ppm	0.0004 ppm	0.0400 ppm	0.0794 ppm
Concentration per Run 1	1.9295 ppm	0.0034 ppm	0.0101 ppm	0.5589 ppm	0.0018 ppm	0.0404 ppm	0.0794 ppm
Concentration per Run 2	1.9245 ppm	0.0035 ppm	0.0110 ppm	0.5565 ppm	-0.0003 ppm	0.0398 ppm	0.0792 ppm
Concentration per Run 3	1.9234 ppm	0.0036 ppm	0.0109 ppm	0.5534 ppm	-0.0003 ppm	0.0397 ppm	0.0795 ppm
Concentration RSD	0.2 %	3.4 %	4.5 %	0.5 %	301.0 %	1.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.9469 %	107.1629 %	106.6621 %	121.9995 %	111.1931 %	111.9631 %
Concentration per Run 1	119.3896 %	106.7703 %	106.6108 %	125.7104 %	111.1189 %	111.6150 %
Concentration per Run 2	111.0425 %	107.6288 %	106.5443 %	120.2867 %	111.1950 %	112.3309 %
Concentration per Run 3	111.4087 %	107.0897 %	106.8314 %	120.0014 %	111.2653 %	111.9435 %
Concentration RSD	4.1 %	0.4 %	0.1 %	2.6 %	0.1 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 7:39:04 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4914 ppm	0.4440 ppm	0.4728 ppm	0.4770 ppm	0.4688 ppm	0.4771 ppm	0.4588 ppm
Concentration per Run 1	0.4906 ppm	0.4358 ppm	0.4729 ppm	0.4776 ppm	0.4749 ppm	0.4829 ppm	0.4649 ppm
Concentration per Run 2	0.4913 ppm	0.4490 ppm	0.4733 ppm	0.4770 ppm	0.4692 ppm	0.4777 ppm	0.4637 ppm
Concentration per Run 3	0.4923 ppm	0.4473 ppm	0.4721 ppm	0.4765 ppm	0.4622 ppm	0.4707 ppm	0.4477 ppm
Recovery Percentage 1	98.279 %	88.809 %	94.554 %	95.409 %	93.750 %	95.417 %	91.755 %
Concentration RSD	0.2 %	1.6 %	0.1 %	0.1 %	1.4 %	1.3 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4966 ppm	0.5021 ppm	0.5007 ppm	0.4784 ppm	0.5168 ppm	4.7252 ppm	0.4837 ppm
Concentration per Run 1	0.4968 ppm	0.5018 ppm	0.5004 ppm	0.4785 ppm	0.5280 ppm	4.7490 ppm	0.4810 ppm
Concentration per Run 2	0.4964 ppm	0.5019 ppm	0.5016 ppm	0.4792 ppm	0.5138 ppm	4.7535 ppm	0.4885 ppm
Concentration per Run 3	0.4965 ppm	0.5026 ppm	0.5000 ppm	0.4774 ppm	0.5087 ppm	4.6732 ppm	0.4815 ppm
Recovery Percentage 1	99.316 %	100.427 %	100.135 %	95.671 %	103.363 %	94.505 %	96.731 %
Concentration RSD	0.0 %	0.1 %	0.2 %	0.2 %	1.9 %	1.0 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4565 ppm	0.4945 ppm	9.7675 ppm	0.4895 ppm	0.4854 ppm	0.4837 ppm	0.5066 ppm
Concentration per Run 1	0.4636 ppm	0.4923 ppm	9.9111 ppm	0.4904 ppm	0.4865 ppm	0.4836 ppm	0.5074 ppm
Concentration per Run 2	0.4562 ppm	0.4951 ppm	9.7439 ppm	0.4898 ppm	0.4849 ppm	0.4823 ppm	0.5071 ppm
Concentration per Run 3	0.4498 ppm	0.4962 ppm	9.6475 ppm	0.4884 ppm	0.4847 ppm	0.4851 ppm	0.5052 ppm
Recovery Percentage 1	91.304 %	98.908 %	97.675 %	97.907 %	97.070 %	96.734 %	101.319 %
Concentration RSD	1.5 %	0.4 %	1.4 %	0.2 %	0.2 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9312 ppm	0.5152 ppm	0.4705 ppm	0.4927 ppm	0.4952 ppm	0.4813 ppm	0.4958 ppm
Concentration per Run 1	4.9365 ppm	0.5156 ppm	0.4764 ppm	0.4917 ppm	0.4952 ppm	0.4819 ppm	0.4958 ppm
Concentration per Run 2	4.9333 ppm	0.5148 ppm	0.4706 ppm	0.4933 ppm	0.4966 ppm	0.4829 ppm	0.4957 ppm
Concentration per Run 3	4.9239 ppm	0.5154 ppm	0.4647 ppm	0.4930 ppm	0.4938 ppm	0.4791 ppm	0.4959 ppm
Recovery Percentage 1	93.928 %	103.048 %	94.107 %	98.536 %	99.040 %	96.261 %	99.159 %
Concentration RSD	0.1 %	0.1 %	1.2 %	0.2 %	0.3 %	0.4 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.3549 %	101.5715 %	100.6940 %	119.1185 %	108.8551 %	110.0679 %
Concentration per Run 1	103.8663 %	101.4538 %	100.8765 %	119.3387 %	108.9639 %	109.9609 %
Concentration per Run 2	105.2358 %	101.5452 %	100.5504 %	118.7211 %	108.7154 %	110.3138 %
Concentration per Run 3	106.9627 %	101.7157 %	100.6551 %	119.2958 %	108.8859 %	109.9290 %
Recovery Percentage 1						
Concentration RSD	1.5 %	0.1 %	0.2 %	0.3 %	0.1 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 7:45:08 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	-0.0130 ppm	-0.0001 ppm	0.0014 ppm	0.0003 ppm	0.0001 ppm	0.0117 ppm
Concentration per Run 1	-0.0002 ppm	-0.0048 ppm	-0.0012 ppm	0.0015 ppm	0.0004 ppm	0.0001 ppm	0.0107 ppm
Concentration per Run 2	-0.0006 ppm	-0.0192 ppm	0.0007 ppm	0.0013 ppm	0.0003 ppm	0.0001 ppm	0.0168 ppm
Concentration per Run 3	-0.0005 ppm	-0.0150 ppm	0.0002 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0076 ppm
Recovery Percentage 1	-6.390 %	-12.995 %	-1.391 %	4.608 %	3.212 %	1.270 %	11.697 %
Concentration RSD	52.4 %	56.8 %	1,418.0 %	8.7 %	15.9 %	78.0 %	39.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	0.0113 ppm	-0.2185 ppm	-0.0048 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0015 ppm	0.0093 ppm	-0.2336 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0017 ppm	0.0101 ppm	-0.2473 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0016 ppm	0.0145 ppm	-0.1747 ppm	-0.0058 ppm
Recovery Percentage 1	-0.202 %	-0.247 %	1.072 %	-15.755 %	22.550 %	-8.742 %	-4.774 %
Concentration RSD	520.6 %	307.5 %	202.5 %	7.7 %	24.6 %	17.6 %	19.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0020 ppm	-0.0221 ppm	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 1	0.0008 ppm	0.0022 ppm	-0.0211 ppm	0.0003 ppm	-0.0004 ppm	0.0013 ppm	0.0013 ppm
Concentration per Run 2	0.0005 ppm	0.0020 ppm	-0.0266 ppm	-0.0002 ppm	0.0011 ppm	-0.0016 ppm	0.0010 ppm
Concentration per Run 3	0.0003 ppm	0.0017 ppm	-0.0186 ppm	-0.0002 ppm	0.0006 ppm	-0.0002 ppm	0.0011 ppm
Recovery Percentage 1	5.215 %	3.942 %	-1.105 %	-0.252 %	4.300 %	-0.398 %	11.093 %
Concentration RSD	41.0 %	13.2 %	18.5 %	443.1 %	169.5 %	728.0 %	11.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0004 ppm	-0.0029 ppm
Concentration per Run 1	0.0011 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0007 ppm	-0.0029 ppm
Concentration per Run 2	0.0017 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	-0.0029 ppm
Concentration per Run 3	0.0027 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0013 ppm	0.0000 ppm	-0.0030 ppm
Recovery Percentage 1	0.365 %	0.507 %	0.425 %	4.543 %	2.185 %	3.898 %	-58.726 %
Concentration RSD	45.0 %	66.9 %	121.9 %	58.3 %	203.4 %	91.0 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.7401 %	102.4097 %	101.3356 %	108.8971 %	107.1357 %	107.4528 %
Concentration per Run 1	108.5524 %	101.9565 %	101.7049 %	108.7710 %	107.1228 %	106.7261 %
Concentration per Run 2	105.2115 %	102.7157 %	101.1472 %	107.9078 %	107.0985 %	107.9292 %
Concentration per Run 3	106.4562 %	102.5568 %	101.1548 %	110.0125 %	107.1858 %	107.7030 %
Recovery Percentage 1						
Concentration RSD	1.6 %	0.4 %	0.3 %	1.0 %	0.0 %	0.6 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-08D2 WG1934532
Analysis started at: 6/16/2024 7:51:30 PM
Comments <Comment>
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	109.9382 ppm	0.0645 ppm	0.0092 ppm	0.3281 ppm	0.0046 ppm	5.2359 ppm
Concentration per Run 1	0.0000 ppm	108.9939 ppm	0.0664 ppm	0.0096 ppm	0.3252 ppm	0.0046 ppm	5.1803 ppm
Concentration per Run 2	-0.0002 ppm	111.0419 ppm	0.0636 ppm	0.0095 ppm	0.3310 ppm	0.0046 ppm	5.3000 ppm
Concentration per Run 3	-0.0001 ppm	109.7789 ppm	0.0635 ppm	0.0085 ppm	0.3282 ppm	0.0045 ppm	5.2274 ppm
Concentration RSD	132.5 %	0.9 %	2.5 %	6.5 %	0.9 %	1.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0031 ppm	0.0724 ppm	0.1557 ppm	0.1074 ppm	147.5225 ppm	3.4908 ppm	21.7722 ppm
Concentration per Run 1	0.0031 ppm	0.0724 ppm	0.1555 ppm	0.1074 ppm	146.1552 ppm	3.4491 ppm	21.7751 ppm
Concentration per Run 2	0.0031 ppm	0.0722 ppm	0.1559 ppm	0.1073 ppm	149.0230 ppm	3.5354 ppm	21.8115 ppm
Concentration per Run 3	0.0031 ppm	0.0726 ppm	0.1559 ppm	0.1076 ppm	147.3892 ppm	3.4878 ppm	21.7300 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %	0.2 %	1.0 %	1.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.9816 ppm	0.0068 ppm	0.3920 ppm	0.1002 ppm	0.1425 ppm	0.0099 ppm	0.0062 ppm
Concentration per Run 1	3.9460 ppm	0.0066 ppm	0.3986 ppm	0.0998 ppm	0.1426 ppm	0.0074 ppm	0.0062 ppm
Concentration per Run 2	4.0208 ppm	0.0069 ppm	0.3947 ppm	0.1003 ppm	0.1417 ppm	0.0124 ppm	0.0069 ppm
Concentration per Run 3	3.9779 ppm	0.0068 ppm	0.3826 ppm	0.1003 ppm	0.1432 ppm	0.0101 ppm	0.0054 ppm
Concentration RSD	0.9 %	2.3 %	2.1 %	0.3 %	0.5 %	25.1 %	12.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5309 ppm	0.0063 ppm	0.0435 ppm	2.9199 ppm	0.0045 ppm	0.2343 ppm	0.3324 ppm
Concentration per Run 1	3.5262 ppm	0.0064 ppm	0.0430 ppm	2.9187 ppm	0.0042 ppm	0.2345 ppm	0.3317 ppm
Concentration per Run 2	3.5274 ppm	0.0063 ppm	0.0440 ppm	2.9259 ppm	0.0044 ppm	0.2342 ppm	0.3323 ppm
Concentration per Run 3	3.5393 ppm	0.0063 ppm	0.0436 ppm	2.9152 ppm	0.0048 ppm	0.2342 ppm	0.3332 ppm
Concentration RSD	0.2 %	0.4 %	1.2 %	0.2 %	6.7 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	126.3574 %	116.4308 %	116.4963 %	132.4239 %	111.2418 %	115.6893 %
Concentration per Run 1	127.2686 %	116.1853 %	116.4866 %	135.0946 %	111.4960 %	115.6825 %
Concentration per Run 2	125.0955 %	116.6845 %	116.4282 %	131.4696 %	111.2523 %	115.6864 %
Concentration per Run 3	126.7080 %	116.4227 %	116.5741 %	130.7076 %	110.9772 %	115.6989 %
Concentration RSD	0.9 %	0.2 %	0.1 %	1.8 %	0.2 %	0.0 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-09D2 WG1934532
Analysis started at: 6/16/2024 7:57:42 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	84.5015 ppm	0.0828 ppm	0.0080 ppm	0.3063 ppm	0.0042 ppm	8.4269 ppm
Concentration per Run 1	0.0006 ppm	84.9136 ppm	0.0853 ppm	0.0076 ppm	0.3087 ppm	0.0042 ppm	8.4610 ppm
Concentration per Run 2	0.0008 ppm	84.1512 ppm	0.0818 ppm	0.0081 ppm	0.3049 ppm	0.0042 ppm	8.3916 ppm
Concentration per Run 3	0.0003 ppm	84.4396 ppm	0.0813 ppm	0.0085 ppm	0.3052 ppm	0.0041 ppm	8.4282 ppm
Concentration RSD	44.9 %	0.5 %	2.6 %	5.5 %	0.7 %	1.2 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0040 ppm	0.0470 ppm	0.1576 ppm	0.2210 ppm	91.8794 ppm	1.4964 ppm	12.7639 ppm
Concentration per Run 1	0.0040 ppm	0.0472 ppm	0.1570 ppm	0.2212 ppm	92.2730 ppm	1.4911 ppm	12.7464 ppm
Concentration per Run 2	0.0039 ppm	0.0468 ppm	0.1581 ppm	0.2209 ppm	91.4776 ppm	1.4946 ppm	12.7549 ppm
Concentration per Run 3	0.0041 ppm	0.0470 ppm	0.1577 ppm	0.2211 ppm	91.8875 ppm	1.5034 ppm	12.7904 ppm
Concentration RSD	2.2 %	0.5 %	0.4 %	0.1 %	0.4 %	0.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.5751 ppm	0.0048 ppm	0.3026 ppm	0.0751 ppm	0.3810 ppm	0.0087 ppm	0.0057 ppm
Concentration per Run 1	4.5971 ppm	0.0048 ppm	0.3026 ppm	0.0753 ppm	0.3818 ppm	0.0077 ppm	0.0042 ppm
Concentration per Run 2	4.5568 ppm	0.0046 ppm	0.3059 ppm	0.0749 ppm	0.3802 ppm	0.0102 ppm	0.0059 ppm
Concentration per Run 3	4.5715 ppm	0.0050 ppm	0.2994 ppm	0.0751 ppm	0.3810 ppm	0.0084 ppm	0.0070 ppm
Concentration RSD	0.4 %	3.9 %	1.1 %	0.2 %	0.2 %	14.4 %	25.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0374 ppm	0.0125 ppm	0.0549 ppm	2.3973 ppm	0.0042 ppm	0.1892 ppm	0.3937 ppm
Concentration per Run 1	4.0443 ppm	0.0125 ppm	0.0553 ppm	2.3971 ppm	0.0033 ppm	0.1885 ppm	0.3940 ppm
Concentration per Run 2	4.0359 ppm	0.0122 ppm	0.0546 ppm	2.3917 ppm	0.0040 ppm	0.1888 ppm	0.3929 ppm
Concentration per Run 3	4.0319 ppm	0.0126 ppm	0.0548 ppm	2.4030 ppm	0.0053 ppm	0.1901 ppm	0.3941 ppm
Concentration RSD	0.2 %	1.6 %	0.6 %	0.2 %	23.3 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	149.0401 %	137.6403 %	137.1245 %	125.1963 %	108.7592 %	112.8298 %
Concentration per Run 1	147.9845 %	138.1494 %	137.2440 %	124.7539 %	108.8191 %	113.1560 %
Concentration per Run 2	150.1473 %	137.2333 %	137.0631 %	126.1356 %	108.8900 %	112.7142 %
Concentration per Run 3	148.9886 %	137.5381 %	137.0663 %	124.6994 %	108.5686 %	112.6193 %
Concentration RSD	0.7 %	0.3 %	0.1 %	0.7 %	0.2 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-10D2 WG1934532
Analysis started at: 6/16/2024 8:03:50 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	132.0699 ppm	0.0627 ppm	0.0070 ppm	0.4390 ppm	0.0053 ppm	6.4336 ppm
Concentration per Run 1	-0.0002 ppm	128.9609 ppm	0.0607 ppm	0.0070 ppm	0.4275 ppm	0.0053 ppm	6.2812 ppm
Concentration per Run 2	0.0010 ppm	133.3277 ppm	0.0650 ppm	0.0068 ppm	0.4436 ppm	0.0054 ppm	6.4991 ppm
Concentration per Run 3	0.0001 ppm	133.9211 ppm	0.0623 ppm	0.0072 ppm	0.4460 ppm	0.0054 ppm	6.5205 ppm
Concentration RSD	224.6 %	2.1 %	3.5 %	3.0 %	2.3 %	0.8 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0036 ppm	0.0565 ppm	0.1978 ppm	0.0689 ppm	148.5416 ppm	2.8579 ppm	18.4273 ppm
Concentration per Run 1	0.0036 ppm	0.0566 ppm	0.1975 ppm	0.0689 ppm	144.8052 ppm	2.7718 ppm	18.4332 ppm
Concentration per Run 2	0.0036 ppm	0.0565 ppm	0.1975 ppm	0.0687 ppm	150.2014 ppm	2.8829 ppm	18.4038 ppm
Concentration per Run 3	0.0037 ppm	0.0563 ppm	0.1984 ppm	0.0691 ppm	150.6183 ppm	2.9189 ppm	18.4450 ppm
Concentration RSD	1.6 %	0.4 %	0.2 %	0.3 %	2.2 %	2.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.3807 ppm	0.0083 ppm	0.2960 ppm	0.0940 ppm	0.1453 ppm	0.0106 ppm	0.0072 ppm
Concentration per Run 1	4.2725 ppm	0.0084 ppm	0.2887 ppm	0.0939 ppm	0.1455 ppm	0.0110 ppm	0.0049 ppm
Concentration per Run 2	4.4265 ppm	0.0082 ppm	0.2952 ppm	0.0944 ppm	0.1455 ppm	0.0099 ppm	0.0076 ppm
Concentration per Run 3	4.4430 ppm	0.0084 ppm	0.3040 ppm	0.0937 ppm	0.1447 ppm	0.0110 ppm	0.0090 ppm
Concentration RSD	2.1 %	1.6 %	2.6 %	0.4 %	0.3 %	6.0 %	29.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8569 ppm	0.0080 ppm	0.0492 ppm	2.1526 ppm	0.0049 ppm	0.2833 ppm	0.4472 ppm
Concentration per Run 1	3.8624 ppm	0.0082 ppm	0.0480 ppm	2.1560 ppm	0.0053 ppm	0.2833 ppm	0.4471 ppm
Concentration per Run 2	3.8557 ppm	0.0078 ppm	0.0497 ppm	2.1483 ppm	0.0036 ppm	0.2826 ppm	0.4475 ppm
Concentration per Run 3	3.8525 ppm	0.0080 ppm	0.0499 ppm	2.1535 ppm	0.0057 ppm	0.2841 ppm	0.4470 ppm
Concentration RSD	0.1 %	2.9 %	2.1 %	0.2 %	23.0 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	142.7287 %	130.0448 %	129.3812 %	132.4766 %	110.3858 %	115.0546 %
Concentration per Run 1	145.5473 %	129.8488 %	129.4378 %	136.7359 %	110.2236 %	115.0113 %
Concentration per Run 2	141.4109 %	130.1106 %	129.3306 %	131.1865 %	110.4980 %	115.0883 %
Concentration per Run 3	141.2279 %	130.1748 %	129.3753 %	129.5074 %	110.4357 %	115.0643 %
Concentration RSD	1.7 %	0.1 %	0.0 %	2.9 %	0.1 %	0.0 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-11D2 WG1934532
Analysis started at: 6/16/2024 8:09:57 PM
Comments <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0038 ppm	115.1603 ppm	0.1809 ppm	0.0074 ppm	0.3724 ppm	0.0049 ppm	8.3546 ppm
Concentration per Run 1	0.0034 ppm	117.1924 ppm	0.1819 ppm	0.0067 ppm	0.3786 ppm	0.0050 ppm	8.4987 ppm
Concentration per Run 2	0.0035 ppm	114.3545 ppm	0.1806 ppm	0.0079 ppm	0.3698 ppm	0.0049 ppm	8.2810 ppm
Concentration per Run 3	0.0044 ppm	113.9340 ppm	0.1802 ppm	0.0076 ppm	0.3688 ppm	0.0048 ppm	8.2841 ppm
Concentration RSD	15.3 %	1.5 %	0.5 %	8.9 %	1.5 %	1.9 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0050 ppm	0.0513 ppm	0.2739 ppm	0.1620 ppm	135.6480 ppm	2.4208 ppm	15.6958 ppm
Concentration per Run 1	0.0049 ppm	0.0514 ppm	0.2739 ppm	0.1617 ppm	138.0166 ppm	2.4418 ppm	15.6965 ppm
Concentration per Run 2	0.0049 ppm	0.0512 ppm	0.2743 ppm	0.1625 ppm	134.7397 ppm	2.4008 ppm	15.7153 ppm
Concentration per Run 3	0.0050 ppm	0.0513 ppm	0.2737 ppm	0.1617 ppm	134.1877 ppm	2.4198 ppm	15.6755 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.3 %	1.5 %	0.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.8563 ppm	0.0092 ppm	0.2131 ppm	0.0931 ppm	0.2872 ppm	0.0100 ppm	0.0072 ppm
Concentration per Run 1	4.9456 ppm	0.0090 ppm	0.2223 ppm	0.0931 ppm	0.2891 ppm	0.0099 ppm	0.0078 ppm
Concentration per Run 2	4.8204 ppm	0.0091 ppm	0.2078 ppm	0.0927 ppm	0.2858 ppm	0.0105 ppm	0.0049 ppm
Concentration per Run 3	4.8030 ppm	0.0096 ppm	0.2092 ppm	0.0936 ppm	0.2867 ppm	0.0097 ppm	0.0090 ppm
Concentration RSD	1.6 %	3.6 %	3.8 %	0.5 %	0.6 %	4.0 %	28.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8666 ppm	0.0139 ppm	0.0613 ppm	1.8044 ppm	0.0054 ppm	0.2718 ppm	0.5007 ppm
Concentration per Run 1	3.8685 ppm	0.0136 ppm	0.0624 ppm	1.8048 ppm	0.0055 ppm	0.2722 ppm	0.5011 ppm
Concentration per Run 2	3.8723 ppm	0.0141 ppm	0.0607 ppm	1.8047 ppm	0.0035 ppm	0.2719 ppm	0.5001 ppm
Concentration per Run 3	3.8589 ppm	0.0139 ppm	0.0607 ppm	1.8037 ppm	0.0073 ppm	0.2714 ppm	0.5009 ppm
Concentration RSD	0.2 %	1.6 %	1.6 %	0.0 %	35.6 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	142.1863 %	132.3981 %	131.1990 %	126.1754 %	108.9795 %	114.2451 %
Concentration per Run 1	139.2102 %	132.8785 %	131.2586 %	125.1561 %	108.8442 %	114.6484 %
Concentration per Run 2	143.0961 %	132.4377 %	131.1383 %	126.8289 %	109.1804 %	114.1853 %
Concentration per Run 3	144.2527 %	131.8781 %	131.1999 %	126.5411 %	108.9140 %	113.9017 %
Concentration RSD	1.9 %	0.4 %	0.0 %	0.7 %	0.2 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-12D2 WG1934532
Analysis started at: 6/16/2024 8:16:04 PM
Comments <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	111.7074 ppm	0.0582 ppm	0.0060 ppm	0.3079 ppm	0.0050 ppm	5.0992 ppm
Concentration per Run 1	0.0000 ppm	109.5648 ppm	0.0581 ppm	0.0058 ppm	0.3023 ppm	0.0048 ppm	4.9925 ppm
Concentration per Run 2	0.0003 ppm	112.5448 ppm	0.0585 ppm	0.0057 ppm	0.3100 ppm	0.0050 ppm	5.1317 ppm
Concentration per Run 3	0.0005 ppm	113.0126 ppm	0.0579 ppm	0.0066 ppm	0.3113 ppm	0.0051 ppm	5.1733 ppm
Concentration RSD	105.4 %	1.7 %	0.6 %	8.0 %	1.6 %	2.2 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0032 ppm	0.0625 ppm	0.1713 ppm	0.0764 ppm	130.0757 ppm	2.0476 ppm	16.8933 ppm
Concentration per Run 1	0.0032 ppm	0.0624 ppm	0.1708 ppm	0.0764 ppm	127.6033 ppm	2.0142 ppm	16.8387 ppm
Concentration per Run 2	0.0032 ppm	0.0627 ppm	0.1712 ppm	0.0767 ppm	131.0897 ppm	2.0556 ppm	16.9384 ppm
Concentration per Run 3	0.0033 ppm	0.0625 ppm	0.1719 ppm	0.0763 ppm	131.5340 ppm	2.0731 ppm	16.9027 ppm
Concentration RSD	0.9 %	0.3 %	0.3 %	0.3 %	1.7 %	1.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.4575 ppm	0.0063 ppm	0.3084 ppm	0.0804 ppm	0.1230 ppm	0.0099 ppm	0.0072 ppm
Concentration per Run 1	5.3542 ppm	0.0064 ppm	0.2939 ppm	0.0798 ppm	0.1231 ppm	0.0105 ppm	0.0063 ppm
Concentration per Run 2	5.4973 ppm	0.0065 ppm	0.3123 ppm	0.0807 ppm	0.1221 ppm	0.0092 ppm	0.0082 ppm
Concentration per Run 3	5.5209 ppm	0.0061 ppm	0.3191 ppm	0.0806 ppm	0.1237 ppm	0.0101 ppm	0.0072 ppm
Concentration RSD	1.7 %	3.4 %	4.2 %	0.6 %	0.6 %	6.7 %	12.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8637 ppm	0.0068 ppm	0.0419 ppm	1.9232 ppm	0.0063 ppm	0.2588 ppm	0.3124 ppm
Concentration per Run 1	3.8742 ppm	0.0068 ppm	0.0412 ppm	1.9205 ppm	0.0066 ppm	0.2583 ppm	0.3128 ppm
Concentration per Run 2	3.8721 ppm	0.0067 ppm	0.0421 ppm	1.9263 ppm	0.0061 ppm	0.2590 ppm	0.3132 ppm
Concentration per Run 3	3.8447 ppm	0.0069 ppm	0.0425 ppm	1.9228 ppm	0.0062 ppm	0.2590 ppm	0.3112 ppm
Concentration RSD	0.4 %	1.2 %	1.6 %	0.2 %	3.9 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	155.1587 %	142.8600 %	142.4717 %	130.8183 %	110.7736 %	114.9614 %
Concentration per Run 1	158.0282 %	143.4391 %	142.6688 %	135.4274 %	110.8494 %	115.4656 %
Concentration per Run 2	154.4079 %	142.7150 %	142.3478 %	130.0857 %	110.4795 %	114.8006 %
Concentration per Run 3	153.0401 %	142.4259 %	142.3985 %	126.9417 %	110.9918 %	114.6179 %
Concentration RSD	1.7 %	0.4 %	0.1 %	3.3 %	0.2 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-13D2 WG1934532
Analysis started at: 6/16/2024 8:22:13 PM
Comments <Comment>
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	102.8343 ppm	0.1134 ppm	0.0076 ppm	0.3679 ppm	0.0040 ppm	6.8948 ppm
Concentration per Run 1	0.0011 ppm	103.4788 ppm	0.1131 ppm	0.0076 ppm	0.3702 ppm	0.0040 ppm	6.9248 ppm
Concentration per Run 2	0.0015 ppm	102.6076 ppm	0.1135 ppm	0.0081 ppm	0.3668 ppm	0.0040 ppm	6.8841 ppm
Concentration per Run 3	0.0014 ppm	102.4165 ppm	0.1134 ppm	0.0071 ppm	0.3667 ppm	0.0040 ppm	6.8755 ppm
Concentration RSD	14.9 %	0.6 %	0.2 %	6.3 %	0.5 %	0.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0041 ppm	0.0471 ppm	0.2161 ppm	0.1156 ppm	122.3170 ppm	2.0642 ppm	14.9539 ppm
Concentration per Run 1	0.0041 ppm	0.0472 ppm	0.2159 ppm	0.1156 ppm	122.7486 ppm	2.1000 ppm	14.9622 ppm
Concentration per Run 2	0.0042 ppm	0.0468 ppm	0.2162 ppm	0.1158 ppm	122.0839 ppm	2.0109 ppm	14.9706 ppm
Concentration per Run 3	0.0042 ppm	0.0474 ppm	0.2162 ppm	0.1154 ppm	122.1186 ppm	2.0815 ppm	14.9290 ppm
Concentration RSD	1.2 %	0.6 %	0.1 %	0.2 %	0.3 %	2.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.6403 ppm	0.0065 ppm	0.2933 ppm	0.0737 ppm	0.3600 ppm	0.0101 ppm	0.0062 ppm
Concentration per Run 1	3.6589 ppm	0.0066 ppm	0.2831 ppm	0.0736 ppm	0.3599 ppm	0.0108 ppm	0.0089 ppm
Concentration per Run 2	3.6323 ppm	0.0065 ppm	0.3005 ppm	0.0734 ppm	0.3591 ppm	0.0097 ppm	0.0061 ppm
Concentration per Run 3	3.6296 ppm	0.0065 ppm	0.2963 ppm	0.0740 ppm	0.3611 ppm	0.0100 ppm	0.0037 ppm
Concentration RSD	0.4 %	1.0 %	3.1 %	0.4 %	0.3 %	5.5 %	42.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4740 ppm	0.0148 ppm	0.0504 ppm	1.8778 ppm	0.0045 ppm	0.2332 ppm	0.3517 ppm
Concentration per Run 1	3.4720 ppm	0.0147 ppm	0.0504 ppm	1.8781 ppm	0.0047 ppm	0.2331 ppm	0.3525 ppm
Concentration per Run 2	3.4730 ppm	0.0152 ppm	0.0503 ppm	1.8822 ppm	0.0048 ppm	0.2336 ppm	0.3511 ppm
Concentration per Run 3	3.4769 ppm	0.0143 ppm	0.0504 ppm	1.8731 ppm	0.0041 ppm	0.2328 ppm	0.3515 ppm
Concentration RSD	0.1 %	3.1 %	0.1 %	0.2 %	8.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	136.0221 %	127.4164 %	125.7335 %	125.8538 %	109.7307 %	114.4676 %
Concentration per Run 1	135.6186 %	127.2906 %	125.7685 %	126.4718 %	109.6177 %	114.3904 %
Concentration per Run 2	136.5804 %	127.3516 %	125.7670 %	126.0252 %	109.8491 %	114.1480 %
Concentration per Run 3	135.8674 %	127.6070 %	125.6650 %	125.0645 %	109.7254 %	114.8644 %
Concentration RSD	0.4 %	0.1 %	0.0 %	0.6 %	0.1 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-14D2 WG1934532
Analysis started at: 6/16/2024 8:28:22 PM
Comments <Comment>
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	111.1705 ppm	0.0689 ppm	0.0065 ppm	0.3585 ppm	0.0046 ppm	2.7987 ppm
Concentration per Run 1	0.0003 ppm	108.0684 ppm	0.0688 ppm	0.0058 ppm	0.3487 ppm	0.0045 ppm	2.7188 ppm
Concentration per Run 2	-0.0003 ppm	112.6886 ppm	0.0702 ppm	0.0067 ppm	0.3634 ppm	0.0047 ppm	2.8252 ppm
Concentration per Run 3	0.0004 ppm	112.7546 ppm	0.0676 ppm	0.0069 ppm	0.3635 ppm	0.0047 ppm	2.8521 ppm
Concentration RSD	268.3 %	2.4 %	1.9 %	9.4 %	2.4 %	2.8 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0031 ppm	0.0731 ppm	0.1766 ppm	0.0793 ppm	136.9664 ppm	2.4009 ppm	20.0347 ppm
Concentration per Run 1	0.0031 ppm	0.0728 ppm	0.1769 ppm	0.0791 ppm	133.2898 ppm	2.3111 ppm	19.9852 ppm
Concentration per Run 2	0.0031 ppm	0.0735 ppm	0.1764 ppm	0.0793 ppm	138.6246 ppm	2.4534 ppm	20.0568 ppm
Concentration per Run 3	0.0032 ppm	0.0728 ppm	0.1764 ppm	0.0795 ppm	138.9848 ppm	2.4384 ppm	20.0621 ppm
Concentration RSD	0.9 %	0.5 %	0.2 %	0.2 %	2.3 %	3.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.0975 ppm	0.0058 ppm	0.2086 ppm	0.0946 ppm	0.1602 ppm	0.0093 ppm	0.0045 ppm
Concentration per Run 1	3.0139 ppm	0.0057 ppm	0.2022 ppm	0.0944 ppm	0.1606 ppm	0.0095 ppm	0.0033 ppm
Concentration per Run 2	3.1341 ppm	0.0058 ppm	0.1990 ppm	0.0946 ppm	0.1600 ppm	0.0089 ppm	0.0059 ppm
Concentration per Run 3	3.1444 ppm	0.0058 ppm	0.2246 ppm	0.0947 ppm	0.1601 ppm	0.0096 ppm	0.0043 ppm
Concentration RSD	2.3 %	1.4 %	6.7 %	0.2 %	0.2 %	4.4 %	29.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8633 ppm	0.0073 ppm	0.0259 ppm	2.4693 ppm	0.0057 ppm	0.2732 ppm	0.3457 ppm
Concentration per Run 1	2.8667 ppm	0.0070 ppm	0.0252 ppm	2.4651 ppm	0.0057 ppm	0.2727 ppm	0.3458 ppm
Concentration per Run 2	2.8595 ppm	0.0068 ppm	0.0261 ppm	2.4717 ppm	0.0051 ppm	0.2736 ppm	0.3457 ppm
Concentration per Run 3	2.8637 ppm	0.0080 ppm	0.0262 ppm	2.4712 ppm	0.0062 ppm	0.2734 ppm	0.3455 ppm
Concentration RSD	0.1 %	9.0 %	2.1 %	0.1 %	10.2 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	147.0509 %	135.0209 %	135.0685 %	131.4403 %	111.4649 %	114.9937 %
Concentration per Run 1	150.1955 %	135.2732 %	135.0694 %	135.2556 %	111.3933 %	115.3044 %
Concentration per Run 2	146.2971 %	135.2803 %	134.9346 %	131.1790 %	111.4928 %	115.1882 %
Concentration per Run 3	144.6602 %	134.5092 %	135.2015 %	127.8862 %	111.5085 %	114.4885 %
Concentration RSD	1.9 %	0.3 %	0.1 %	2.8 %	0.1 %	0.4 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-15D2 WG1934532
Analysis started at: 6/16/2024 8:34:30 PM
Comments <Comment>
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	109.6821 ppm	0.1656 ppm	0.0087 ppm	0.3314 ppm	0.0052 ppm	13.0945 ppm
Concentration per Run 1	0.0007 ppm	106.9477 ppm	0.1636 ppm	0.0090 ppm	0.3230 ppm	0.0050 ppm	12.7547 ppm
Concentration per Run 2	0.0012 ppm	110.5560 ppm	0.1661 ppm	0.0084 ppm	0.3342 ppm	0.0053 ppm	13.1945 ppm
Concentration per Run 3	0.0012 ppm	111.5427 ppm	0.1671 ppm	0.0088 ppm	0.3370 ppm	0.0053 ppm	13.3342 ppm
Concentration RSD	26.7 %	2.2 %	1.1 %	3.3 %	2.2 %	3.3 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0045 ppm	0.0606 ppm	0.2019 ppm	0.1197 ppm	125.3973 ppm	2.2184 ppm	25.4149 ppm
Concentration per Run 1	0.0045 ppm	0.0606 ppm	0.2016 ppm	0.1191 ppm	122.3539 ppm	2.1684 ppm	25.4638 ppm
Concentration per Run 2	0.0045 ppm	0.0607 ppm	0.2015 ppm	0.1202 ppm	126.5259 ppm	2.2361 ppm	25.3907 ppm
Concentration per Run 3	0.0045 ppm	0.0605 ppm	0.2025 ppm	0.1199 ppm	127.3120 ppm	2.2507 ppm	25.3901 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.5 %	2.1 %	2.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.1963 ppm	0.0075 ppm	0.2869 ppm	0.1074 ppm	0.4855 ppm	0.0108 ppm	0.0050 ppm
Concentration per Run 1	3.1203 ppm	0.0074 ppm	0.2791 ppm	0.1070 ppm	0.4852 ppm	0.0103 ppm	0.0044 ppm
Concentration per Run 2	3.2212 ppm	0.0073 ppm	0.2996 ppm	0.1076 ppm	0.4841 ppm	0.0114 ppm	0.0042 ppm
Concentration per Run 3	3.2473 ppm	0.0076 ppm	0.2821 ppm	0.1078 ppm	0.4870 ppm	0.0107 ppm	0.0064 ppm
Concentration RSD	2.1 %	1.7 %	3.9 %	0.4 %	0.3 %	5.3 %	24.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1959 ppm	0.0119 ppm	0.0538 ppm	2.2185 ppm	0.0053 ppm	0.2969 ppm	0.4748 ppm
Concentration per Run 1	3.1920 ppm	0.0114 ppm	0.0522 ppm	2.2230 ppm	0.0059 ppm	0.2978 ppm	0.4736 ppm
Concentration per Run 2	3.1936 ppm	0.0114 ppm	0.0544 ppm	2.2191 ppm	0.0047 ppm	0.2956 ppm	0.4743 ppm
Concentration per Run 3	3.2021 ppm	0.0128 ppm	0.0547 ppm	2.2133 ppm	0.0052 ppm	0.2972 ppm	0.4765 ppm
Concentration RSD	0.2 %	7.0 %	2.6 %	0.2 %	11.3 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	152.0113 %	140.1559 %	139.2581 %	129.1212 %	109.4157 %	114.0461 %
Concentration per Run 1	155.0662 %	140.1630 %	138.8648 %	133.4968 %	109.4753 %	113.9923 %
Concentration per Run 2	150.9178 %	140.1114 %	139.4789 %	127.6033 %	109.5724 %	113.8917 %
Concentration per Run 3	150.0501 %	140.1934 %	139.4308 %	126.2634 %	109.1992 %	114.2543 %
Concentration RSD	1.8 %	0.0 %	0.2 %	3.0 %	0.2 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-16D2 WG1934532
Analysis started at: 6/16/2024 8:40:38 PM
Comments <Comment>
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	123.4640 ppm	0.7332 ppm	0.0087 ppm	0.3853 ppm	0.0049 ppm	4.8178 ppm
Concentration per Run 1	0.0004 ppm	122.3556 ppm	0.7339 ppm	0.0089 ppm	0.3812 ppm	0.0049 ppm	4.7523 ppm
Concentration per Run 2	0.0003 ppm	124.7885 ppm	0.7307 ppm	0.0088 ppm	0.3893 ppm	0.0049 ppm	4.8837 ppm
Concentration per Run 3	0.0001 ppm	123.2480 ppm	0.7349 ppm	0.0085 ppm	0.3853 ppm	0.0050 ppm	4.8174 ppm
Concentration RSD	52.2 %	1.0 %	0.3 %	2.6 %	1.1 %	0.3 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0054 ppm	0.0526 ppm	0.2182 ppm	0.2130 ppm	137.1616 ppm	1.9330 ppm	18.2412 ppm
Concentration per Run 1	0.0054 ppm	0.0526 ppm	0.2183 ppm	0.2131 ppm	135.6521 ppm	1.9293 ppm	18.2272 ppm
Concentration per Run 2	0.0053 ppm	0.0524 ppm	0.2183 ppm	0.2127 ppm	138.3645 ppm	1.9494 ppm	18.2439 ppm
Concentration per Run 3	0.0054 ppm	0.0529 ppm	0.2180 ppm	0.2133 ppm	137.4683 ppm	1.9204 ppm	18.2525 ppm
Concentration RSD	1.0 %	0.5 %	0.1 %	0.1 %	1.0 %	0.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.8393 ppm	0.0054 ppm	0.1865 ppm	0.1149 ppm	0.9693 ppm	0.0132 ppm	0.0061 ppm
Concentration per Run 1	1.8196 ppm	0.0055 ppm	0.1796 ppm	0.1146 ppm	0.9720 ppm	0.0124 ppm	0.0061 ppm
Concentration per Run 2	1.8594 ppm	0.0054 ppm	0.1855 ppm	0.1152 ppm	0.9668 ppm	0.0143 ppm	0.0058 ppm
Concentration per Run 3	1.8387 ppm	0.0053 ppm	0.1945 ppm	0.1149 ppm	0.9689 ppm	0.0129 ppm	0.0064 ppm
Concentration RSD	1.1 %	2.0 %	4.0 %	0.3 %	0.3 %	7.7 %	5.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5390 ppm	0.0140 ppm	0.0359 ppm	3.1501 ppm	0.0037 ppm	0.2708 ppm	0.8299 ppm
Concentration per Run 1	5.5453 ppm	0.0140 ppm	0.0357 ppm	3.1430 ppm	0.0053 ppm	0.2716 ppm	0.8301 ppm
Concentration per Run 2	5.5371 ppm	0.0145 ppm	0.0361 ppm	3.1477 ppm	0.0031 ppm	0.2704 ppm	0.8291 ppm
Concentration per Run 3	5.5345 ppm	0.0136 ppm	0.0360 ppm	3.1595 ppm	0.0029 ppm	0.2702 ppm	0.8306 ppm
Concentration RSD	0.1 %	3.2 %	0.6 %	0.3 %	34.9 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	136.9213 %	128.5335 %	128.1039 %	127.2150 %	110.0688 %	114.1750 %
Concentration per Run 1	138.0553 %	128.3077 %	128.2842 %	130.5060 %	110.1968 %	114.1621 %
Concentration per Run 2	136.1520 %	128.2681 %	128.0041 %	126.4820 %	110.0414 %	113.9774 %
Concentration per Run 3	136.5566 %	129.0247 %	128.0232 %	124.6568 %	109.9682 %	114.3856 %
Concentration RSD	0.7 %	0.3 %	0.1 %	2.4 %	0.1 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-17D2 WG1934532
Analysis started at: 6/16/2024 8:46:45 PM
Comments <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	52.3308 ppm	0.4498 ppm	0.0051 ppm	0.5126 ppm	0.0030 ppm	7.4482 ppm
Concentration per Run 1	0.0005 ppm	52.9399 ppm	0.4486 ppm	0.0051 ppm	0.5184 ppm	0.0030 ppm	7.5242 ppm
Concentration per Run 2	0.0003 ppm	52.1560 ppm	0.4521 ppm	0.0053 ppm	0.5105 ppm	0.0028 ppm	7.4354 ppm
Concentration per Run 3	-0.0002 ppm	51.8965 ppm	0.4487 ppm	0.0049 ppm	0.5087 ppm	0.0030 ppm	7.3851 ppm
Concentration RSD	179.6 %	1.0 %	0.4 %	4.3 %	1.0 %	3.5 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0055 ppm	0.0352 ppm	0.1184 ppm	0.4703 ppm	83.2621 ppm	1.8001 ppm	8.9137 ppm
Concentration per Run 1	0.0055 ppm	0.0353 ppm	0.1190 ppm	0.4702 ppm	84.1180 ppm	1.8070 ppm	8.8873 ppm
Concentration per Run 2	0.0056 ppm	0.0351 ppm	0.1185 ppm	0.4711 ppm	82.9830 ppm	1.8066 ppm	8.9369 ppm
Concentration per Run 3	0.0055 ppm	0.0353 ppm	0.1176 ppm	0.4696 ppm	82.6853 ppm	1.7868 ppm	8.9168 ppm
Concentration RSD	0.6 %	0.3 %	0.6 %	0.2 %	0.9 %	0.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6571 ppm	0.0024 ppm	0.1590 ppm	0.0679 ppm	2.9134 ppm	0.0076 ppm	0.0032 ppm
Concentration per Run 1	1.6742 ppm	0.0023 ppm	0.1580 ppm	0.0682 ppm	2.9223 ppm	0.0071 ppm	0.0040 ppm
Concentration per Run 2	1.6529 ppm	0.0024 ppm	0.1563 ppm	0.0680 ppm	2.9129 ppm	0.0072 ppm	0.0032 ppm
Concentration per Run 3	1.6442 ppm	0.0025 ppm	0.1626 ppm	0.0675 ppm	2.9050 ppm	0.0084 ppm	0.0023 ppm
Concentration RSD	0.9 %	2.8 %	2.0 %	0.5 %	0.3 %	9.6 %	27.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.2601 ppm	0.0116 ppm	0.0353 ppm	1.9618 ppm	0.0026 ppm	0.1401 ppm	1.2104 ppm
Concentration per Run 1	4.2749 ppm	0.0117 ppm	0.0355 ppm	1.9597 ppm	0.0019 ppm	0.1395 ppm	1.2133 ppm
Concentration per Run 2	4.2629 ppm	0.0120 ppm	0.0354 ppm	1.9642 ppm	0.0030 ppm	0.1404 ppm	1.2113 ppm
Concentration per Run 3	4.2425 ppm	0.0110 ppm	0.0352 ppm	1.9616 ppm	0.0030 ppm	0.1404 ppm	1.2067 ppm
Concentration RSD	0.4 %	4.4 %	0.4 %	0.1 %	25.1 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	121.3787 %	114.8107 %	113.6869 %	120.9088 %	109.4150 %	112.8852 %
Concentration per Run 1	119.9903 %	114.6755 %	113.6887 %	120.2649 %	109.1320 %	112.9528 %
Concentration per Run 2	121.8689 %	114.2572 %	113.7892 %	121.6231 %	109.3795 %	112.2942 %
Concentration per Run 3	122.2770 %	115.4995 %	113.5829 %	120.8383 %	109.7335 %	113.4087 %
Concentration RSD	1.0 %	0.6 %	0.1 %	0.6 %	0.3 %	0.5 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 8:52:55 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4951 ppm	0.4629 ppm	0.4778 ppm	0.4781 ppm	0.4711 ppm	0.4717 ppm	0.4600 ppm
Concentration per Run 1	0.4966 ppm	0.4904 ppm	0.4791 ppm	0.4787 ppm	0.4839 ppm	0.4847 ppm	0.4693 ppm
Concentration per Run 2	0.4933 ppm	0.4592 ppm	0.4789 ppm	0.4775 ppm	0.4673 ppm	0.4679 ppm	0.4515 ppm
Concentration per Run 3	0.4952 ppm	0.4391 ppm	0.4753 ppm	0.4780 ppm	0.4620 ppm	0.4625 ppm	0.4591 ppm
Recovery Percentage 1	99.012 %	92.582 %	95.553 %	95.610 %	94.214 %	94.342 %	91.999 %
Concentration RSD	0.3 %	5.6 %	0.5 %	0.1 %	2.4 %	2.5 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4995 ppm	0.5044 ppm	0.5054 ppm	0.4830 ppm	0.5451 ppm	4.7048 ppm	0.4881 ppm
Concentration per Run 1	0.4999 ppm	0.5047 ppm	0.5065 ppm	0.4843 ppm	0.5732 ppm	4.8347 ppm	0.4906 ppm
Concentration per Run 2	0.4995 ppm	0.5043 ppm	0.5046 ppm	0.4825 ppm	0.5385 ppm	4.6215 ppm	0.4882 ppm
Concentration per Run 3	0.4992 ppm	0.5043 ppm	0.5052 ppm	0.4823 ppm	0.5236 ppm	4.6583 ppm	0.4855 ppm
Recovery Percentage 1	99.904 %	100.884 %	101.089 %	96.600 %	109.027 %	94.096 %	97.619 %
Concentration RSD	0.1 %	0.0 %	0.2 %	0.2 %	4.7 %	2.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4498 ppm	0.4959 ppm	9.8425 ppm	0.4917 ppm	0.4876 ppm	0.4883 ppm	0.5102 ppm
Concentration per Run 1	0.4605 ppm	0.4940 ppm	10.1177 ppm	0.4925 ppm	0.4889 ppm	0.4871 ppm	0.5091 ppm
Concentration per Run 2	0.4479 ppm	0.4956 ppm	9.7670 ppm	0.4913 ppm	0.4876 ppm	0.4892 ppm	0.5099 ppm
Concentration per Run 3	0.4409 ppm	0.4982 ppm	9.6427 ppm	0.4914 ppm	0.4864 ppm	0.4886 ppm	0.5116 ppm
Recovery Percentage 1	89.960 %	99.182 %	98.425 %	98.349 %	97.526 %	97.656 %	102.046 %
Concentration RSD	2.2 %	0.4 %	2.5 %	0.1 %	0.3 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9507 ppm	0.5189 ppm	0.4729 ppm	0.4973 ppm	0.4972 ppm	0.4849 ppm	0.4991 ppm
Concentration per Run 1	4.9530 ppm	0.5188 ppm	0.4854 ppm	0.4985 ppm	0.4968 ppm	0.4872 ppm	0.4993 ppm
Concentration per Run 2	4.9559 ppm	0.5185 ppm	0.4689 ppm	0.4958 ppm	0.4971 ppm	0.4838 ppm	0.4989 ppm
Concentration per Run 3	4.9432 ppm	0.5195 ppm	0.4642 ppm	0.4977 ppm	0.4977 ppm	0.4836 ppm	0.4990 ppm
Recovery Percentage 1	94.299 %	103.785 %	94.573 %	99.466 %	99.439 %	96.973 %	99.819 %
Concentration RSD	0.1 %	0.1 %	2.4 %	0.3 %	0.1 %	0.4 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.4112 %	101.6295 %	100.9530 %	115.3369 %	109.2617 %	110.0336 %
Concentration per Run 1	101.7398 %	101.4858 %	100.8980 %	114.3160 %	109.2478 %	109.9221 %
Concentration per Run 2	104.9145 %	101.6661 %	101.1814 %	115.6861 %	109.2719 %	110.1739 %
Concentration per Run 3	106.5792 %	101.7367 %	100.7798 %	116.0087 %	109.2655 %	110.0048 %
Recovery Percentage 1						
Concentration RSD	2.4 %	0.1 %	0.2 %	0.8 %	0.0 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 8:58:59 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0100 ppm	-0.0002 ppm	0.0012 ppm	0.0004 ppm	0.0001 ppm	0.0060 ppm
Concentration per Run 1	-0.0004 ppm	-0.0067 ppm	-0.0006 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.0003 ppm	-0.0161 ppm	0.0010 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0112 ppm
Concentration per Run 3	0.0006 ppm	-0.0070 ppm	-0.0009 ppm	0.0014 ppm	0.0006 ppm	0.0002 ppm	0.0064 ppm
Recovery Percentage 1	2.226 %	-9.954 %	-3.091 %	4.067 %	3.942 %	2.109 %	6.015 %
Concentration RSD	338.1 %	53.9 %	658.5 %	13.5 %	52.2 %	60.8 %	89.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0010 ppm	0.0121 ppm	-0.2199 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0008 ppm	0.0130 ppm	-0.2045 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0007 ppm	-0.0009 ppm	0.0120 ppm	-0.2160 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0006 ppm	-0.0013 ppm	0.0112 ppm	-0.2392 ppm	-0.0015 ppm
Recovery Percentage 1	-0.705 %	-0.964 %	5.511 %	-10.030 %	24.122 %	-8.796 %	-0.259 %
Concentration RSD	29.7 %	33.5 %	25.1 %	26.9 %	7.3 %	8.1 %	425.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0018 ppm	-0.0306 ppm	0.0000 ppm	0.0010 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.0009 ppm	0.0023 ppm	-0.0268 ppm	-0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0011 ppm
Concentration per Run 2	0.0008 ppm	0.0015 ppm	-0.0381 ppm	0.0002 ppm	0.0021 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0016 ppm	-0.0269 ppm	0.0000 ppm	0.0008 ppm	0.0003 ppm	0.0015 ppm
Recovery Percentage 1	6.722 %	3.624 %	-1.529 %	0.154 %	10.060 %	0.196 %	9.009 %
Concentration RSD	47.3 %	23.9 %	21.2 %	419.2 %	104.5 %	1,143.0 %	83.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0002 ppm	-0.0030 ppm
Concentration per Run 1	0.0006 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0005 ppm	-0.0029 ppm
Concentration per Run 2	0.0015 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0004 ppm	-0.0030 ppm
Concentration per Run 3	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0024 ppm	-0.0002 ppm	-0.0030 ppm
Recovery Percentage 1	0.243 %	0.855 %	-0.216 %	1.694 %	4.286 %	2.329 %	-59.597 %
Concentration RSD	46.1 %	102.1 %	218.7 %	134.5 %	213.9 %	179.4 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.6225 %	103.1519 %	102.0409 %	104.2557 %	107.3648 %	106.9211 %
Concentration per Run 1	102.4480 %	103.3195 %	101.9289 %	100.9434 %	106.9233 %	106.8556 %
Concentration per Run 2	105.6940 %	103.1837 %	101.9400 %	104.9620 %	107.5220 %	106.9937 %
Concentration per Run 3	105.7256 %	102.9523 %	102.2538 %	106.8617 %	107.6489 %	106.9139 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.2 %	0.2 %	2.9 %	0.4 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-18D2 WG1934532
Analysis started at: 6/16/2024 9:05:21 PM
Comments <Comment>
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	97.2046 ppm	0.2431 ppm	0.0083 ppm	0.4053 ppm	0.0056 ppm	2.0189 ppm
Concentration per Run 1	-0.0004 ppm	95.1421 ppm	0.2441 ppm	0.0082 ppm	0.3961 ppm	0.0054 ppm	1.9711 ppm
Concentration per Run 2	0.0000 ppm	98.2625 ppm	0.2412 ppm	0.0087 ppm	0.4099 ppm	0.0057 ppm	2.0410 ppm
Concentration per Run 3	0.0008 ppm	98.2092 ppm	0.2441 ppm	0.0079 ppm	0.4099 ppm	0.0056 ppm	2.0445 ppm
Concentration RSD	406.1 %	1.8 %	0.7 %	4.6 %	2.0 %	2.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0050 ppm	0.0661 ppm	0.1728 ppm	0.1844 ppm	112.6129 ppm	2.4076 ppm	16.3613 ppm
Concentration per Run 1	0.0050 ppm	0.0657 ppm	0.1729 ppm	0.1844 ppm	110.1944 ppm	2.3625 ppm	16.3432 ppm
Concentration per Run 2	0.0050 ppm	0.0661 ppm	0.1728 ppm	0.1846 ppm	113.8232 ppm	2.4092 ppm	16.3902 ppm
Concentration per Run 3	0.0049 ppm	0.0666 ppm	0.1727 ppm	0.1844 ppm	113.8211 ppm	2.4512 ppm	16.3505 ppm
Concentration RSD	1.4 %	0.7 %	0.1 %	0.1 %	1.9 %	1.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.4882 ppm	0.0096 ppm	0.1876 ppm	0.1103 ppm	1.1578 ppm	0.0132 ppm	0.0043 ppm
Concentration per Run 1	3.4155 ppm	0.0094 ppm	0.1851 ppm	0.1098 ppm	1.1560 ppm	0.0138 ppm	0.0058 ppm
Concentration per Run 2	3.5282 ppm	0.0094 ppm	0.1921 ppm	0.1101 ppm	1.1588 ppm	0.0125 ppm	0.0016 ppm
Concentration per Run 3	3.5209 ppm	0.0099 ppm	0.1856 ppm	0.1110 ppm	1.1585 ppm	0.0133 ppm	0.0056 ppm
Concentration RSD	1.8 %	2.8 %	2.1 %	0.6 %	0.1 %	5.0 %	54.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9776 ppm	0.0236 ppm	0.0281 ppm	2.4252 ppm	0.0042 ppm	0.3009 ppm	0.6163 ppm
Concentration per Run 1	2.9794 ppm	0.0240 ppm	0.0275 ppm	2.4222 ppm	0.0037 ppm	0.3009 ppm	0.6142 ppm
Concentration per Run 2	2.9830 ppm	0.0228 ppm	0.0285 ppm	2.4280 ppm	0.0055 ppm	0.3009 ppm	0.6173 ppm
Concentration per Run 3	2.9704 ppm	0.0240 ppm	0.0284 ppm	2.4254 ppm	0.0033 ppm	0.3010 ppm	0.6175 ppm
Concentration RSD	0.2 %	2.8 %	1.9 %	0.1 %	28.1 %	0.0 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	163.9853 %	153.9242 %	154.0023 %	130.4843 %	110.8888 %	115.4759 %
Concentration per Run 1	166.6704 %	154.1423 %	154.3328 %	134.0193 %	111.2898 %	115.7754 %
Concentration per Run 2	162.9327 %	153.9378 %	154.1275 %	129.9259 %	110.7303 %	115.3722 %
Concentration per Run 3	162.3527 %	153.6925 %	153.5465 %	127.5077 %	110.6463 %	115.2801 %
Concentration RSD	1.4 %	0.1 %	0.3 %	2.5 %	0.3 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-19D2 WG1934532
Analysis started at: 6/16/2024 9:11:30 PM
Comments <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	116.7799 ppm	0.2833 ppm	0.0099 ppm	0.4008 ppm	0.0056 ppm	5.0721 ppm
Concentration per Run 1	0.0010 ppm	115.0244 ppm	0.2838 ppm	0.0095 ppm	0.3947 ppm	0.0055 ppm	4.9922 ppm
Concentration per Run 2	0.0003 ppm	118.1417 ppm	0.2841 ppm	0.0098 ppm	0.4052 ppm	0.0056 ppm	5.1233 ppm
Concentration per Run 3	0.0001 ppm	117.1736 ppm	0.2820 ppm	0.0102 ppm	0.4023 ppm	0.0056 ppm	5.1008 ppm
Concentration RSD	97.3 %	1.4 %	0.4 %	3.6 %	1.4 %	1.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0052 ppm	0.0697 ppm	0.2103 ppm	0.1495 ppm	133.3814 ppm	3.3741 ppm	22.4889 ppm
Concentration per Run 1	0.0052 ppm	0.0697 ppm	0.2110 ppm	0.1496 ppm	131.5675 ppm	3.3360 ppm	22.4952 ppm
Concentration per Run 2	0.0052 ppm	0.0699 ppm	0.2104 ppm	0.1494 ppm	134.7482 ppm	3.4202 ppm	22.4749 ppm
Concentration per Run 3	0.0052 ppm	0.0696 ppm	0.2095 ppm	0.1494 ppm	133.8285 ppm	3.3661 ppm	22.4966 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.1 %	1.2 %	1.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.2849 ppm	0.0071 ppm	0.1859 ppm	0.1185 ppm	1.1678 ppm	0.0144 ppm	0.0052 ppm
Concentration per Run 1	3.2398 ppm	0.0072 ppm	0.1774 ppm	0.1186 ppm	1.1685 ppm	0.0137 ppm	0.0051 ppm
Concentration per Run 2	3.3191 ppm	0.0069 ppm	0.1941 ppm	0.1181 ppm	1.1689 ppm	0.0148 ppm	0.0060 ppm
Concentration per Run 3	3.2958 ppm	0.0071 ppm	0.1861 ppm	0.1187 ppm	1.1661 ppm	0.0146 ppm	0.0044 ppm
Concentration RSD	1.2 %	2.0 %	4.5 %	0.3 %	0.1 %	4.1 %	15.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0021 ppm	0.0183 ppm	0.0356 ppm	2.8455 ppm	0.0066 ppm	0.3282 ppm	0.6711 ppm
Concentration per Run 1	4.0081 ppm	0.0185 ppm	0.0350 ppm	2.8493 ppm	0.0074 ppm	0.3278 ppm	0.6724 ppm
Concentration per Run 2	4.0117 ppm	0.0181 ppm	0.0361 ppm	2.8458 ppm	0.0055 ppm	0.3284 ppm	0.6705 ppm
Concentration per Run 3	3.9865 ppm	0.0184 ppm	0.0358 ppm	2.8412 ppm	0.0069 ppm	0.3285 ppm	0.6704 ppm
Concentration RSD	0.3 %	1.2 %	1.6 %	0.1 %	14.6 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	160.2733 %	151.6758 %	151.0697 %	127.2073 %	110.1842 %	115.1355 %
Concentration per Run 1	162.6588 %	151.7281 %	151.1585 %	131.0887 %	110.1746 %	115.0934 %
Concentration per Run 2	158.6652 %	151.5471 %	151.1906 %	125.5233 %	110.2381 %	115.0607 %
Concentration per Run 3	159.4958 %	151.7522 %	150.8600 %	125.0098 %	110.1398 %	115.2525 %
Concentration RSD	1.3 %	0.1 %	0.1 %	2.7 %	0.0 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: I2432653-20D2 WG1934532
Analysis started at: 6/16/2024 9:17:39 PM
Comments <Comment>
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	116.0084 ppm	0.1886 ppm	0.0067 ppm	0.4218 ppm	0.0057 ppm	1.3700 ppm
Concentration per Run 1	-0.0003 ppm	114.5964 ppm	0.1893 ppm	0.0068 ppm	0.4166 ppm	0.0057 ppm	1.3518 ppm
Concentration per Run 2	0.0004 ppm	116.7133 ppm	0.1887 ppm	0.0063 ppm	0.4245 ppm	0.0057 ppm	1.3797 ppm
Concentration per Run 3	0.0005 ppm	116.7153 ppm	0.1880 ppm	0.0071 ppm	0.4243 ppm	0.0057 ppm	1.3786 ppm
Concentration RSD	218.8 %	1.1 %	0.4 %	6.3 %	1.1 %	0.3 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0040 ppm	0.0743 ppm	0.2063 ppm	0.1590 ppm	132.9166 ppm	2.6038 ppm	21.4300 ppm
Concentration per Run 1	0.0040 ppm	0.0745 ppm	0.2068 ppm	0.1588 ppm	131.3046 ppm	2.5814 ppm	21.4383 ppm
Concentration per Run 2	0.0040 ppm	0.0742 ppm	0.2059 ppm	0.1592 ppm	133.6921 ppm	2.6342 ppm	21.4203 ppm
Concentration per Run 3	0.0040 ppm	0.0741 ppm	0.2062 ppm	0.1589 ppm	133.7531 ppm	2.5957 ppm	21.4314 ppm
Concentration RSD	0.7 %	0.2 %	0.2 %	0.1 %	1.1 %	1.0 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.1410 ppm	0.0072 ppm	0.1721 ppm	0.1189 ppm	0.7424 ppm	0.0150 ppm	0.0056 ppm
Concentration per Run 1	3.1038 ppm	0.0072 ppm	0.1628 ppm	0.1192 ppm	0.7435 ppm	0.0165 ppm	0.0067 ppm
Concentration per Run 2	3.1568 ppm	0.0073 ppm	0.1852 ppm	0.1186 ppm	0.7409 ppm	0.0136 ppm	0.0062 ppm
Concentration per Run 3	3.1625 ppm	0.0070 ppm	0.1683 ppm	0.1190 ppm	0.7427 ppm	0.0148 ppm	0.0038 ppm
Concentration RSD	1.0 %	1.8 %	6.8 %	0.2 %	0.2 %	9.7 %	27.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8187 ppm	0.0168 ppm	0.0197 ppm	2.8647 ppm	0.0059 ppm	0.3446 ppm	0.5369 ppm
Concentration per Run 1	3.8319 ppm	0.0163 ppm	0.0195 ppm	2.8680 ppm	0.0051 ppm	0.3444 ppm	0.5372 ppm
Concentration per Run 2	3.8119 ppm	0.0173 ppm	0.0198 ppm	2.8627 ppm	0.0061 ppm	0.3442 ppm	0.5362 ppm
Concentration per Run 3	3.8123 ppm	0.0169 ppm	0.0199 ppm	2.8632 ppm	0.0066 ppm	0.3451 ppm	0.5374 ppm
Concentration RSD	0.3 %	2.8 %	1.2 %	0.1 %	13.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	162.6878 %	153.6961 %	153.2213 %	126.6033 %	110.2265 %	114.8911 %
Concentration per Run 1	164.8541 %	154.1586 %	153.5525 %	129.4070 %	110.3887 %	115.1404 %
Concentration per Run 2	161.6603 %	153.8886 %	153.2952 %	126.0645 %	110.3788 %	115.0134 %
Concentration per Run 3	161.5489 %	153.0411 %	152.8163 %	124.3384 %	109.9119 %	114.5194 %
Concentration RSD	1.2 %	0.4 %	0.2 %	2.0 %	0.2 %	0.3 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCV
Analysis started at: 6/16/2024 9:23:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4955 ppm	0.4800 ppm	0.4745 ppm	0.4772 ppm	0.4662 ppm	0.4649 ppm	0.4567 ppm
Concentration per Run 1	0.4948 ppm	0.4823 ppm	0.4742 ppm	0.4786 ppm	0.4552 ppm	0.4527 ppm	0.4520 ppm
Concentration per Run 2	0.4967 ppm	0.4833 ppm	0.4746 ppm	0.4765 ppm	0.4759 ppm	0.4752 ppm	0.4606 ppm
Concentration per Run 3	0.4950 ppm	0.4744 ppm	0.4745 ppm	0.4766 ppm	0.4676 ppm	0.4669 ppm	0.4574 ppm
Recovery Percentage 1	99.098 %	96.005 %	94.893 %	95.446 %	93.242 %	92.986 %	91.332 %
Concentration RSD	0.2 %	1.0 %	0.0 %	0.3 %	2.2 %	2.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4972 ppm	0.5027 ppm	0.5035 ppm	0.4817 ppm	0.5728 ppm	4.7339 ppm	0.4891 ppm
Concentration per Run 1	0.4989 ppm	0.5042 ppm	0.5046 ppm	0.4814 ppm	0.5749 ppm	4.5932 ppm	0.4895 ppm
Concentration per Run 2	0.4965 ppm	0.5026 ppm	0.5031 ppm	0.4826 ppm	0.5834 ppm	4.8691 ppm	0.4847 ppm
Concentration per Run 3	0.4963 ppm	0.5012 ppm	0.5029 ppm	0.4812 ppm	0.5600 ppm	4.7394 ppm	0.4931 ppm
Recovery Percentage 1	99.450 %	100.534 %	100.706 %	96.348 %	114.551 %	94.678 %	97.820 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	2.1 %	2.9 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4451 ppm	0.4933 ppm	9.7811 ppm	0.4918 ppm	0.4885 ppm	0.4869 ppm	0.5045 ppm
Concentration per Run 1	0.4346 ppm	0.4932 ppm	9.5380 ppm	0.4933 ppm	0.4892 ppm	0.4886 ppm	0.5059 ppm
Concentration per Run 2	0.4546 ppm	0.4926 ppm	10.0115 ppm	0.4909 ppm	0.4895 ppm	0.4862 ppm	0.5051 ppm
Concentration per Run 3	0.4461 ppm	0.4940 ppm	9.7939 ppm	0.4913 ppm	0.4868 ppm	0.4860 ppm	0.5023 ppm
Recovery Percentage 1	89.017 %	98.655 %	97.811 %	98.366 %	97.698 %	97.386 %	100.890 %
Concentration RSD	2.3 %	0.1 %	2.4 %	0.3 %	0.3 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9442 ppm	0.5156 ppm	0.4686 ppm	0.4987 ppm	0.4937 ppm	0.4847 ppm	0.4972 ppm
Concentration per Run 1	4.9587 ppm	0.5176 ppm	0.4570 ppm	0.4976 ppm	0.4942 ppm	0.4845 ppm	0.4993 ppm
Concentration per Run 2	4.9396 ppm	0.5153 ppm	0.4786 ppm	0.4992 ppm	0.4933 ppm	0.4844 ppm	0.4966 ppm
Concentration per Run 3	4.9343 ppm	0.5138 ppm	0.4704 ppm	0.4992 ppm	0.4936 ppm	0.4851 ppm	0.4958 ppm
Recovery Percentage 1	94.175 %	103.120 %	93.729 %	99.736 %	98.737 %	96.935 %	99.449 %
Concentration RSD	0.3 %	0.4 %	2.3 %	0.2 %	0.1 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.7723 %	102.0507 %	101.3194 %	115.9503 %	109.1978 %	109.9027 %
Concentration per Run 1	105.5827 %	101.7431 %	101.4549 %	118.1748 %	109.0182 %	109.9910 %
Concentration per Run 2	101.7863 %	102.2678 %	101.3984 %	114.3847 %	109.3294 %	110.0149 %
Concentration per Run 3	103.9480 %	102.1410 %	101.1050 %	115.2914 %	109.2458 %	109.7021 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.3 %	0.2 %	1.7 %	0.1 %	0.2 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: CCB
Analysis started at: 6/16/2024 9:29:52 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0154 ppm	0.0005 ppm	0.0010 ppm	0.0003 ppm	0.0001 ppm	0.0123 ppm
Concentration per Run 1	0.0001 ppm	-0.0139 ppm	0.0013 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0159 ppm
Concentration per Run 2	0.0006 ppm	-0.0111 ppm	0.0018 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm	0.0098 ppm
Concentration per Run 3	-0.0006 ppm	-0.0213 ppm	-0.0014 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0112 ppm
Recovery Percentage 1	0.832 %	-15.430 %	10.739 %	3.282 %	3.475 %	1.906 %	12.289 %
Concentration RSD	1,009.7 %	34.4 %	322.5 %	23.4 %	20.3 %	64.9 %	26.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0013 ppm	0.0169 ppm	-0.2492 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0014 ppm	0.0188 ppm	-0.2988 ppm	-0.0063 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0013 ppm	0.0199 ppm	-0.2382 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0014 ppm	0.0120 ppm	-0.2105 ppm	-0.0028 ppm
Recovery Percentage 1	-0.324 %	-0.841 %	2.874 %	-13.428 %	33.778 %	-9.967 %	-4.130 %
Concentration RSD	150.7 %	57.7 %	24.2 %	4.1 %	25.2 %	18.1 %	45.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0015 ppm	-0.0251 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.0007 ppm	0.0017 ppm	-0.0267 ppm	-0.0003 ppm	0.0013 ppm	0.0005 ppm	-0.0016 ppm
Concentration per Run 2	0.0003 ppm	0.0015 ppm	-0.0200 ppm	-0.0001 ppm	-0.0009 ppm	-0.0002 ppm	-0.0024 ppm
Concentration per Run 3	0.0003 ppm	0.0012 ppm	-0.0287 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0008 ppm
Recovery Percentage 1	4.077 %	2.924 %	-1.256 %	-0.587 %	-0.046 %	0.287 %	-10.725 %
Concentration RSD	53.2 %	16.0 %	18.2 %	72.8 %	24,914.5 %	245.3 %	153.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0013 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0002 ppm	-0.0030 ppm
Concentration per Run 1	0.0017 ppm	-0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0005 ppm	-0.0030 ppm
Concentration per Run 2	0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 3	0.0014 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	-0.0030 ppm
Recovery Percentage 1	0.253 %	-0.456 %	-0.608 %	3.175 %	4.000 %	2.463 %	-60.642 %
Concentration RSD	42.3 %	85.1 %	124.7 %	30.2 %	53.0 %	108.3 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.2519 %	103.3899 %	102.2686 %	107.5441 %	107.6102 %	107.1258 %
Concentration per Run 1	108.8294 %	103.5061 %	101.9016 %	108.0068 %	107.1896 %	106.9920 %
Concentration per Run 2	105.1568 %	103.5246 %	102.3728 %	106.8743 %	107.7236 %	107.1767 %
Concentration per Run 3	104.7694 %	103.1390 %	102.5315 %	107.7511 %	107.9174 %	107.2088 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.2 %	0.3 %	0.6 %	0.4 %	0.1 %

ICP DataTrace 5

6/17/2024 4:26:08 PM

LabBook: WG1934905_06162024T5.imexp

Sample: LLOQ RL
Analysis started at: 6/16/2024 9:36:14 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0069 ppm	**0.0741 ppm**	**0.0062 ppm**	0.0296 ppm	0.0100 ppm	0.0046 ppm	0.0980 ppm
Concentration per Run 1	0.0073 ppm	0.0837 ppm	0.0065 ppm	0.0295 ppm	0.0100 ppm	0.0045 ppm	0.0989 ppm
Concentration per Run 2	0.0071 ppm	0.0716 ppm	0.0065 ppm	0.0296 ppm	0.0100 ppm	0.0046 ppm	0.0892 ppm
Concentration per Run 3	0.0062 ppm	0.0669 ppm	0.0056 ppm	0.0297 ppm	0.0100 ppm	0.0047 ppm	0.1058 ppm
Recovery Percentage 1	97.915 %	74.056 %	124.323 %	98.601 %	100.382 %	91.955 %	97.958 %
Concentration RSD	8.8 %	**11.7 %**	**8.3 %**	0.3 %	0.2 %	2.0 %	8.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0040 ppm	0.0203 ppm	0.0108 ppm	0.0089 ppm	**0.0620 ppm**	2.3727 ppm	0.1033 ppm
Concentration per Run 1	0.0041 ppm	0.0203 ppm	0.0108 ppm	0.0088 ppm	0.0626 ppm	2.3730 ppm	0.1027 ppm
Concentration per Run 2	0.0040 ppm	0.0204 ppm	0.0108 ppm	0.0089 ppm	0.0625 ppm	2.4189 ppm	0.1060 ppm
Concentration per Run 3	0.0040 ppm	0.0202 ppm	0.0109 ppm	0.0090 ppm	0.0609 ppm	2.3260 ppm	0.1011 ppm
Recovery Percentage 1	100.748 %	101.649 %	108.307 %	88.890 %	124.037 %	94.906 %	103.252 %
Concentration RSD	0.9 %	0.5 %	0.4 %	1.0 %	**1.6 %**	2.0 %	2.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0096 ppm	0.0507 ppm	2.0615 ppm	0.0253 ppm	0.0108 ppm	0.0491 ppm	0.0104 ppm
Concentration per Run 1	0.0092 ppm	0.0510 ppm	2.0332 ppm	0.0253 ppm	0.0109 ppm	0.0487 ppm	0.0089 ppm
Concentration per Run 2	0.0096 ppm	0.0506 ppm	2.1048 ppm	0.0253 ppm	0.0106 ppm	0.0496 ppm	0.0124 ppm
Concentration per Run 3	0.0100 ppm	0.0505 ppm	2.0467 ppm	0.0253 ppm	0.0109 ppm	0.0488 ppm	0.0098 ppm
Recovery Percentage 1	95.834 %	101.425 %	103.077 %	101.136 %	107.825 %	98.111 %	104.021 %
Concentration RSD	4.1 %	0.5 %	1.8 %	0.1 %	1.7 %	1.0 %	17.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5132 ppm	0.0512 ppm	0.0094 ppm	0.0504 ppm	0.0204 ppm	0.0102 ppm	**0.0022 ppm**
Concentration per Run 1	0.5129 ppm	0.0513 ppm	0.0091 ppm	0.0503 ppm	0.0204 ppm	0.0101 ppm	0.0022 ppm
Concentration per Run 2	0.5132 ppm	0.0515 ppm	0.0096 ppm	0.0502 ppm	0.0199 ppm	0.0105 ppm	0.0022 ppm
Concentration per Run 3	0.5134 ppm	0.0509 ppm	0.0094 ppm	0.0509 ppm	0.0209 ppm	0.0102 ppm	0.0021 ppm
Recovery Percentage 1	102.632 %	102.444 %	93.622 %	100.885 %	101.900 %	102.418 %	43.513 %
Concentration RSD	0.1 %	0.7 %	2.8 %	0.7 %	2.4 %	1.9 %	**3.4 %**

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.6850 %	102.8958 %	102.4006 %	113.1888 %	109.5969 %	110.0067 %
Concentration per Run 1	103.9617 %	102.4468 %	102.7379 %	114.1166 %	109.8235 %	109.4548 %
Concentration per Run 2	100.5702 %	103.2841 %	102.1906 %	111.7134 %	109.4497 %	110.2987 %
Concentration per Run 3	103.5232 %	102.9564 %	102.2732 %	113.7366 %	109.5176 %	110.2666 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.4 %	0.3 %	1.1 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: Blank DHL Trace8
Analysis started at: 6/17/2024 7:39:05 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	-0.3 %	-1.0 %	0.1 %	0.5 %	-0.1 %	-0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	2.5 %	0.1 %	-0.3 %	0.1 %	-0.3 %	0.9 %	-1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.1 %	0.6 %	-1.3 %	0.1 %	0.7 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.1 %	0.6 %	0.8 %	1.7 %	-0.1 %	-0.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: ICAL
Analysis started at: 6/17/2024 7:43:11 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9886 ppm	24.9908 ppm	0.9981 ppm	1.0007 ppm	0.9993 ppm	0.9981 ppm	9.9823 ppm
Concentration per Run 2	1.0050 ppm	24.8871 ppm	1.0002 ppm	0.9936 ppm	0.9981 ppm	0.9997 ppm	9.9810 ppm
Concentration per Run 3	1.0064 ppm	25.1221 ppm	1.0017 ppm	1.0058 ppm	1.0026 ppm	1.0022 ppm	10.0367 ppm
Concentration RSD	1.0 %	0.5 %	0.2 %	0.6 %	0.2 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9984 ppm	0.9986 ppm	0.9961 ppm	0.9964 ppm	24.9391 ppm	35.0844 ppm	1.0060 ppm
Concentration per Run 2	0.9981 ppm	0.9955 ppm	1.0000 ppm	0.9963 ppm	24.9847 ppm	34.6729 ppm	0.9915 ppm
Concentration per Run 3	1.0035 ppm	1.0059 ppm	1.0039 ppm	1.0072 ppm	25.0762 ppm	35.2427 ppm	1.0025 ppm
Concentration RSD	0.3 %	0.5 %	0.4 %	0.6 %	0.3 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9590 ppm	0.9986 ppm	0.9837 ppm	24.8975 ppm	1.0033 ppm	0.9982 ppm	0.9978 ppm
Concentration per Run 2	10.0031 ppm	0.9983 ppm	0.9962 ppm	25.0886 ppm	0.9964 ppm	1.0007 ppm	0.9957 ppm
Concentration per Run 3	10.0380 ppm	1.0031 ppm	1.0202 ppm	25.0139 ppm	1.0003 ppm	1.0012 ppm	1.0066 ppm
Concentration RSD	0.4 %	0.3 %	1.9 %	0.4 %	0.3 %	0.2 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0014 ppm	9.9177 ppm	1.0022 ppm	0.9990 ppm	0.9970 ppm	0.9934 ppm	0.9929 ppm
Concentration per Run 2	0.9961 ppm	9.9713 ppm	0.9996 ppm	1.0008 ppm	0.9983 ppm	1.0005 ppm	1.0045 ppm
Concentration per Run 3	1.0025 ppm	10.1110 ppm	0.9982 ppm	1.0002 ppm	1.0047 ppm	1.0061 ppm	1.0026 ppm
Concentration RSD	0.3 %	1.0 %	0.2 %	0.1 %	0.4 %	0.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	90.2190 %	96.5020 %	89.6434 %	94.6478 %	98.3449 %	95.2100 %
Concentration per Run 1	1.0064 ppm	90.4227 %	96.6089 %	89.4417 %	94.2605 %	98.1107 %	94.6901 %
Concentration per Run 2	0.9966 ppm	90.0756 %	96.5004 %	89.6529 %	94.4514 %	98.5814 %	95.3034 %
Concentration per Run 3	0.9970 ppm	90.1587 %	96.3966 %	89.8355 %	95.2314 %	98.3426 %	95.6364 %
Concentration RSD	0.6 %	0.2 %	0.1 %	0.2 %	0.5 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: ICV
Analysis started at: 6/17/2024 7:47:07 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5175 ppm	0.5089 ppm	0.5017 ppm	0.5196 ppm	0.5220 ppm	0.5280 ppm	0.5202 ppm
Concentration per Run 1	0.5147 ppm	0.5013 ppm	0.4973 ppm	0.5210 ppm	0.5233 ppm	0.5276 ppm	0.5202 ppm
Concentration per Run 2	0.5190 ppm	0.5174 ppm	0.5002 ppm	0.5196 ppm	0.5247 ppm	0.5292 ppm	0.5158 ppm
Concentration per Run 3	0.5186 ppm	0.5081 ppm	0.5076 ppm	0.5181 ppm	0.5179 ppm	0.5271 ppm	0.5246 ppm
Recovery Percentage 1	103.490 %	101.783 %	100.337 %	103.913 %	104.393 %	105.591 %	104.036 %
Concentration RSD	0.5 %	1.6 %	1.1 %	0.3 %	0.7 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5281 ppm	0.5325 ppm	0.5141 ppm	0.5124 ppm	0.5508 ppm	5.4349 ppm	0.5082 ppm
Concentration per Run 1	0.5260 ppm	0.5304 ppm	0.5128 ppm	0.5111 ppm	0.5516 ppm	5.4612 ppm	0.5091 ppm
Concentration per Run 2	0.5289 ppm	0.5327 ppm	0.5169 ppm	0.5119 ppm	0.5505 ppm	5.4104 ppm	0.5091 ppm
Concentration per Run 3	0.5294 ppm	0.5345 ppm	0.5127 ppm	0.5141 ppm	0.5504 ppm	5.4331 ppm	0.5063 ppm
Recovery Percentage 1	105.624 %	106.507 %	102.829 %	102.473 %	110.165 %	108.698 %	101.632 %
Concentration RSD	0.3 %	0.4 %	0.5 %	0.3 %	0.1 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5151 ppm	0.5128 ppm	0.5270 ppm	10.5280 ppm	0.5302 ppm	0.5143 ppm	0.5307 ppm
Concentration per Run 1	0.5134 ppm	0.5122 ppm	0.5184 ppm	10.4833 ppm	0.5287 ppm	0.5113 ppm	0.5289 ppm
Concentration per Run 2	0.5169 ppm	0.5123 ppm	0.5290 ppm	10.5344 ppm	0.5325 ppm	0.5138 ppm	0.5315 ppm
Concentration per Run 3	0.5148 ppm	0.5138 ppm	0.5336 ppm	10.5663 ppm	0.5293 ppm	0.5177 ppm	0.5318 ppm
Recovery Percentage 1	103.011 %	102.552 %	105.403 %	105.280 %	106.035 %	102.855 %	106.147 %
Concentration RSD	0.3 %	0.2 %	1.5 %	0.4 %	0.4 %	0.6 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5047 ppm	5.3926 ppm	0.5226 ppm	0.5181 ppm	0.5233 ppm	0.5132 ppm	0.5135 ppm
Concentration per Run 1	0.5029 ppm	5.3685 ppm	0.5210 ppm	0.5203 ppm	0.5219 ppm	0.5098 ppm	0.5118 ppm
Concentration per Run 2	0.5072 ppm	5.3930 ppm	0.5263 ppm	0.5185 ppm	0.5237 ppm	0.5129 ppm	0.5138 ppm
Concentration per Run 3	0.5039 ppm	5.4164 ppm	0.5205 ppm	0.5155 ppm	0.5244 ppm	0.5169 ppm	0.5150 ppm
Recovery Percentage 1	100.932 %	102.717 %	104.522 %	103.620 %	104.667 %	102.644 %	102.706 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.5 %	0.3 %	0.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5333 ppm	90.0925 %	97.4259 %	91.5099 %	97.4379 %	100.3650 %	97.2515 %
Concentration per Run 1	0.5308 ppm	90.5143 %	96.9743 %	92.0385 %	97.6021 %	99.6073 %	97.8632 %
Concentration per Run 2	0.5370 ppm	90.0274 %	97.7762 %	91.6550 %	97.3367 %	100.5001 %	97.3896 %
Concentration per Run 3	0.5320 ppm	89.7358 %	97.5270 %	90.8363 %	97.3750 %	100.9876 %	96.5019 %
Recovery Percentage 1	106.656 %						
Concentration RSD	0.6 %	0.4 %	0.4 %	0.7 %	0.1 %	0.7 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: ICB
Analysis started at: 6/17/2024 7:51:04 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0084 ppm	0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	-0.0138 ppm	0.0006 ppm	0.0026 ppm	0.0002 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0118 ppm	0.0002 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.0006 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0032 ppm
Recovery Percentage 1	2.887 %	-8.351 %	11.415 %	4.500 %	1.461 %	0.266 %	1.747 %
Concentration RSD	126.9 %	93.7 %	67.6 %	81.3 %	47.4 %	572.9 %	98.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0095 ppm	0.0019 ppm	-0.0017 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0084 ppm	-0.0110 ppm	-0.0005 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0010 ppm	0.0081 ppm	-0.0108 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0119 ppm	0.0276 ppm	-0.0028 ppm
Recovery Percentage 1	-1.062 %	0.695 %	0.853 %	10.330 %	18.966 %	0.077 %	-17.212 %
Concentration RSD	37.2 %	346.3 %	94.1 %	11.7 %	22.2 %	1,160.9 %	66.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0002 ppm	0.0024 ppm	0.0099 ppm	-0.0009 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0001 ppm	0.0022 ppm	0.0067 ppm	-0.0014 ppm	0.0016 ppm	-0.0023 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0024 ppm	0.0115 ppm	-0.0009 ppm	0.0005 ppm	0.0028 ppm
Concentration per Run 3	0.0028 ppm	0.0002 ppm	0.0024 ppm	0.0115 ppm	-0.0004 ppm	-0.0011 ppm	-0.0009 ppm
Recovery Percentage 1	1.165 %	1.716 %	4.709 %	0.495 %	-3.615 %	3.387 %	-0.181 %
Concentration RSD	121.7 %	41.9 %	6.1 %	28.3 %	51.6 %	390.2 %	2,909.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0077 ppm	0.0007 ppm	0.0000 ppm	-0.0005 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	-0.0085 ppm	0.0008 ppm	0.0000 ppm	-0.0004 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 2	-0.0008 ppm	-0.0078 ppm	0.0012 ppm	0.0000 ppm	-0.0003 ppm	-0.0024 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	-0.0067 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	-3.594 %	-1.534 %	1.308 %	0.010 %	-5.083 %	-7.543 %	-0.454 %
Concentration RSD	246.8 %	12.0 %	93.6 %	2,605.1 %	68.6 %	81.4 %	197.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	83.2516 %	93.2071 %	88.0534 %	98.1089 %	101.2633 %	99.4184 %
Concentration per Run 1	0.0005 ppm	82.3767 %	93.5008 %	87.7762 %	97.4156 %	101.9702 %	99.6469 %
Concentration per Run 2	0.0004 ppm	82.7689 %	93.4701 %	87.8853 %	97.6149 %	101.2452 %	99.2007 %
Concentration per Run 3	0.0006 ppm	84.6092 %	92.6504 %	88.4986 %	99.2961 %	100.5745 %	99.4074 %
Recovery Percentage 1	10.662 %						
Concentration RSD	18.9 %	1.4 %	0.5 %	0.4 %	1.1 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: ICV
Analysis started at: 6/17/2024 7:59:23 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5036 ppm	0.4862 ppm	0.4861 ppm	0.5052 ppm	0.5046 ppm	0.5186 ppm	0.4959 ppm
Concentration per Run 1	0.5024 ppm	0.4867 ppm	0.4834 ppm	0.5056 ppm	0.5049 ppm	0.5175 ppm	0.4986 ppm
Concentration per Run 2	0.5039 ppm	0.4812 ppm	0.4858 ppm	0.5065 ppm	0.5033 ppm	0.5189 ppm	0.4925 ppm
Concentration per Run 3	0.5044 ppm	0.4906 ppm	0.4891 ppm	0.5035 ppm	0.5055 ppm	0.5193 ppm	0.4967 ppm
Recovery Percentage 1	100.710 %	97.233 %	97.219 %	101.037 %	100.912 %	103.717 %	99.187 %
Concentration RSD	0.2 %	1.0 %	0.6 %	0.3 %	0.2 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5163 ppm	0.5205 ppm	0.5015 ppm	0.4995 ppm	0.5185 ppm	5.2957 ppm	0.6353 ppm
Concentration per Run 1	0.5157 ppm	0.5198 ppm	0.5008 ppm	0.4997 ppm	0.5151 ppm	5.3289 ppm	0.6419 ppm
Concentration per Run 2	0.5152 ppm	0.5201 ppm	0.5003 ppm	0.4995 ppm	0.5204 ppm	5.2283 ppm	0.6282 ppm
Concentration per Run 3	0.5180 ppm	0.5214 ppm	0.5035 ppm	0.4994 ppm	0.5200 ppm	5.3300 ppm	0.6357 ppm
Recovery Percentage 1	103.259 %	104.092 %	100.302 %	99.904 %	103.703 %	105.914 %	127.057 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.0 %	0.6 %	1.1 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4970 ppm	0.4992 ppm	0.5141 ppm	10.2354 ppm	0.5186 ppm	0.4997 ppm	0.5170 ppm
Concentration per Run 1	0.4948 ppm	0.4986 ppm	0.5056 ppm	10.1932 ppm	0.5197 ppm	0.4985 ppm	0.5189 ppm
Concentration per Run 2	0.4980 ppm	0.4995 ppm	0.5144 ppm	10.2801 ppm	0.5154 ppm	0.4989 ppm	0.5136 ppm
Concentration per Run 3	0.4981 ppm	0.4994 ppm	0.5222 ppm	10.2329 ppm	0.5207 ppm	0.5015 ppm	0.5184 ppm
Recovery Percentage 1	99.396 %	99.831 %	102.814 %	102.354 %	103.724 %	99.931 %	103.396 %
Concentration RSD	0.4 %	0.1 %	1.6 %	0.4 %	0.5 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4897 ppm	5.6498 ppm	0.5007 ppm	0.4993 ppm	0.5104 ppm	0.4969 ppm	0.5011 ppm
Concentration per Run 1	0.4891 ppm	5.6353 ppm	0.5028 ppm	0.4973 ppm	0.5110 ppm	0.4952 ppm	0.5008 ppm
Concentration per Run 2	0.4878 ppm	5.6465 ppm	0.4996 ppm	0.5001 ppm	0.5090 ppm	0.4988 ppm	0.5014 ppm
Concentration per Run 3	0.4923 ppm	5.6676 ppm	0.4996 ppm	0.5005 ppm	0.5112 ppm	0.4967 ppm	0.5012 ppm
Recovery Percentage 1	97.950 %	107.615 %	100.133 %	99.856 %	102.082 %	99.382 %	100.223 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.4 %	0.2 %	0.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5181 ppm	90.2912 %	97.5285 %	92.4643 %	97.9210 %	100.8885 %	98.4746 %
Concentration per Run 1	0.5199 ppm	90.4160 %	96.8741 %	92.8491 %	97.7711 %	99.9314 %	98.9774 %
Concentration per Run 2	0.5151 ppm	90.6637 %	97.6966 %	92.5765 %	98.3798 %	101.2074 %	98.4497 %
Concentration per Run 3	0.5193 ppm	89.7938 %	98.0149 %	91.9673 %	97.6121 %	101.5266 %	97.9966 %
Recovery Percentage 1	103.620 %						
Concentration RSD	0.5 %	0.5 %	0.6 %	0.5 %	0.4 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: ICB
Analysis started at: 6/17/2024 8:03:25 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0037 ppm	0.0009 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0005 ppm	-0.0028 ppm	0.0015 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0005 ppm	-0.0121 ppm	0.0007 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 3	0.0003 ppm	0.0040 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0020 ppm
Recovery Percentage 1	6.248 %	-3.651 %	29.786 %	3.260 %	2.384 %	-0.650 %	0.817 %
Concentration RSD	20.3 %	221.7 %	59.0 %	101.8 %	20.8 %	123.6 %	329.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0122 ppm	0.0130 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	0.0007 ppm	0.0121 ppm	0.0317 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0005 ppm	0.0119 ppm	0.0181 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0126 ppm	-0.0109 ppm	0.0004 ppm
Recovery Percentage 1	0.462 %	0.405 %	-0.713 %	6.530 %	24.390 %	0.520 %	-1.662 %
Concentration RSD	66.4 %	602.1 %	671.5 %	25.2 %	3.3 %	167.4 %	482.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0003 ppm	0.0021 ppm	0.0055 ppm	0.0004 ppm	0.0006 ppm	-0.0024 ppm
Concentration per Run 1	0.0023 ppm	0.0006 ppm	0.0017 ppm	0.0058 ppm	-0.0001 ppm	0.0015 ppm	-0.0020 ppm
Concentration per Run 2	0.0016 ppm	-0.0001 ppm	0.0023 ppm	0.0067 ppm	0.0000 ppm	0.0002 ppm	-0.0020 ppm
Concentration per Run 3	-0.0015 ppm	0.0003 ppm	0.0024 ppm	0.0041 ppm	0.0014 ppm	0.0000 ppm	-0.0032 ppm
Recovery Percentage 1	0.809 %	2.763 %	4.206 %	0.277 %	1.645 %	5.545 %	-4.802 %
Concentration RSD	253.8 %	112.6 %	18.5 %	24.7 %	208.0 %	147.6 %	27.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0081 ppm	0.0010 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	-0.0073 ppm	0.0008 ppm	-0.0003 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0016 ppm	-0.0087 ppm	0.0019 ppm	-0.0001 ppm	-0.0006 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 3	-0.0007 ppm	-0.0084 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	-0.0005 ppm
Recovery Percentage 1	-2.890 %	-1.623 %	1.912 %	-1.295 %	-6.073 %	-1.090 %	-1.293 %
Concentration RSD	551.4 %	9.4 %	87.3 %	123.8 %	16.5 %	147.3 %	294.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	83.4223 %	93.8224 %	88.7219 %	98.4076 %	102.0740 %	99.9845 %
Concentration per Run 1	0.0005 ppm	83.1730 %	93.5081 %	88.2448 %	98.8144 %	102.1323 %	99.7286 %
Concentration per Run 2	0.0004 ppm	83.4398 %	93.3172 %	89.1627 %	98.5001 %	101.6630 %	100.1487 %
Concentration per Run 3	0.0006 ppm	83.6541 %	94.6418 %	88.7583 %	97.9082 %	102.4266 %	100.0761 %
Recovery Percentage 1	9.815 %						
Concentration RSD	13.2 %	0.3 %	0.8 %	0.5 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LLOQ
Analysis started at: 6/17/2024 8:11:45 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0072 ppm	0.1020 ppm	0.0043 ppm	0.0320 ppm	0.0103 ppm	0.0050 ppm	0.1032 ppm
Concentration per Run 1	0.0072 ppm	0.1104 ppm	0.0027 ppm	0.0340 ppm	0.0104 ppm	0.0050 ppm	0.1007 ppm
Concentration per Run 2	0.0068 ppm	0.1031 ppm	0.0036 ppm	0.0316 ppm	0.0103 ppm	0.0050 ppm	0.1027 ppm
Concentration per Run 3	0.0077 ppm	0.0924 ppm	0.0067 ppm	0.0305 ppm	0.0103 ppm	0.0051 ppm	0.1061 ppm
Recovery Percentage 1	103.439 %	101.981 %	86.840 %	106.731 %	103.320 %	100.784 %	103.168 %
Concentration RSD	6.2 %	8.9 %	48.7 %	5.7 %	0.3 %	1.1 %	2.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0211 ppm	0.0103 ppm	0.0117 ppm	0.0519 ppm	2.7899 ppm	0.0118 ppm
Concentration per Run 1	0.0042 ppm	0.0210 ppm	0.0100 ppm	0.0117 ppm	0.0509 ppm	2.8557 ppm	0.0134 ppm
Concentration per Run 2	0.0040 ppm	0.0213 ppm	0.0106 ppm	0.0121 ppm	0.0537 ppm	2.7437 ppm	0.0103 ppm
Concentration per Run 3	0.0041 ppm	0.0211 ppm	0.0102 ppm	0.0112 ppm	0.0511 ppm	2.7704 ppm	0.0118 ppm
Recovery Percentage 1	82.309 %	105.711 %	102.511 %	116.785 %	103.785 %	111.597 %	118.127 %
Concentration RSD	2.2 %	0.8 %	2.6 %	3.8 %	3.0 %	2.1 %	13.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1069 ppm	0.0108 ppm	0.0531 ppm	2.1773 ppm	0.0254 ppm	0.0109 ppm	0.0538 ppm
Concentration per Run 1	0.1079 ppm	0.0109 ppm	0.0531 ppm	2.1758 ppm	0.0261 ppm	0.0105 ppm	0.0537 ppm
Concentration per Run 2	0.1074 ppm	0.0107 ppm	0.0529 ppm	2.1822 ppm	0.0258 ppm	0.0117 ppm	0.0541 ppm
Concentration per Run 3	0.1055 ppm	0.0109 ppm	0.0534 ppm	2.1739 ppm	0.0245 ppm	0.0106 ppm	0.0535 ppm
Recovery Percentage 1	106.936 %	108.099 %	106.249 %	108.866 %	101.764 %	109.172 %	107.551 %
Concentration RSD	1.2 %	1.1 %	0.4 %	0.2 %	3.3 %	6.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0077 ppm	0.5347 ppm	0.0515 ppm	0.0101 ppm	0.0515 ppm	0.0187 ppm	0.0101 ppm
Concentration per Run 1	0.0093 ppm	0.5365 ppm	0.0512 ppm	0.0101 ppm	0.0516 ppm	0.0189 ppm	0.0102 ppm
Concentration per Run 2	0.0055 ppm	0.5357 ppm	0.0521 ppm	0.0100 ppm	0.0512 ppm	0.0178 ppm	0.0098 ppm
Concentration per Run 3	0.0083 ppm	0.5319 ppm	0.0513 ppm	0.0101 ppm	0.0516 ppm	0.0194 ppm	0.0102 ppm
Recovery Percentage 1	76.822 %	106.938 %	103.059 %	100.835 %	103.011 %	93.485 %	101.030 %
Concentration RSD	25.8 %	0.5 %	0.9 %	0.8 %	0.5 %	4.5 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	88.7693 %	97.3955 %	91.5994 %	98.7488 %	101.9085 %	98.6221 %
Concentration per Run 1	0.0051 ppm	88.5724 %	97.7632 %	92.1988 %	98.6896 %	102.7932 %	99.3265 %
Concentration per Run 2	0.0052 ppm	88.8126 %	97.3862 %	91.4964 %	98.7995 %	101.7833 %	98.5947 %
Concentration per Run 3	0.0051 ppm	88.9230 %	97.0370 %	91.1031 %	98.7574 %	101.1490 %	97.9451 %
Recovery Percentage 1	103.340 %						
Concentration RSD	1.2 %	0.2 %	0.4 %	0.6 %	0.1 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: ICSA
Analysis started at: 6/17/2024 8:15:48 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	489.7812 ppm	0.0014 ppm	0.0029 ppm	0.0021 ppm	0.0000 ppm	464.6393 ppm
Concentration per Run 1	-0.0008 ppm	490.4967 ppm	0.0039 ppm	0.0029 ppm	0.0021 ppm	0.0000 ppm	465.9729 ppm
Concentration per Run 2	0.0000 ppm	488.8548 ppm	-0.0002 ppm	0.0041 ppm	0.0021 ppm	0.0001 ppm	463.7907 ppm
Concentration per Run 3	-0.0004 ppm	489.9920 ppm	0.0003 ppm	0.0017 ppm	0.0021 ppm	0.0000 ppm	464.1544 ppm
Recovery Percentage 1	-5.630 %	489,781.161 %	45.020 %	9.677 %	20.960 %	0.986 %	464,639.337 %
Concentration RSD	94.8 %	0.2 %	161.9 %	42.1 %	2.0 %	30.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0006 ppm	-0.0008 ppm	-0.0005 ppm	186.8139 ppm	0.0184 ppm	-0.0005 ppm
Concentration per Run 1	-0.0003 ppm	-0.0005 ppm	-0.0008 ppm	-0.0008 ppm	186.4756 ppm	0.0138 ppm	0.0015 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	-0.0011 ppm	0.0001 ppm	187.2876 ppm	0.0139 ppm	-0.0034 ppm
Concentration per Run 3	-0.0003 ppm	-0.0009 ppm	-0.0006 ppm	-0.0008 ppm	186.6785 ppm	0.0276 ppm	0.0004 ppm
Recovery Percentage 1	-5.545 %	-3.124 %	-8.427 %	-5.190 %	373,627.786 %	0.737 %	-5.172 %
Concentration RSD	14.6 %	45.1 %	29.9 %	98.8 %	0.2 %	43.1 %	495.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	469.7595 ppm	0.0020 ppm	0.0000 ppm	0.0212 ppm	-0.0014 ppm	0.0043 ppm	-0.0051 ppm
Concentration per Run 1	465.0378 ppm	0.0020 ppm	0.0005 ppm	0.0253 ppm	-0.0016 ppm	0.0065 ppm	-0.0026 ppm
Concentration per Run 2	470.2877 ppm	0.0023 ppm	-0.0005 ppm	0.0194 ppm	-0.0015 ppm	0.0034 ppm	-0.0034 ppm
Concentration per Run 3	473.9530 ppm	0.0017 ppm	0.0000 ppm	0.0189 ppm	-0.0010 ppm	0.0030 ppm	-0.0093 ppm
Recovery Percentage 1	469,759.506 %	19.973 %	-0.033 %	1.059 %	-5.442 %	43.071 %	-10.164 %
Concentration RSD	1.0 %	13.9 %	2,970.0 %	16.7 %	24.5 %	43.7 %	71.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	0.0124 ppm	0.0011 ppm	0.0001 ppm	-0.0002 ppm	0.0037 ppm	0.0004 ppm
Concentration per Run 1	-0.0036 ppm	0.0124 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm	0.0004 ppm
Concentration per Run 2	-0.0056 ppm	0.0112 ppm	0.0006 ppm	0.0002 ppm	-0.0002 ppm	0.0045 ppm	0.0005 ppm
Concentration per Run 3	-0.0004 ppm	0.0137 ppm	0.0019 ppm	0.0000 ppm	-0.0005 ppm	0.0030 ppm	0.0003 ppm
Recovery Percentage 1	-32.056 %	2.482 %	2.205 %	0.701 %	-2.457 %	18.309 %	4.158 %
Concentration RSD	80.8 %	10.2 %	62.9 %	152.7 %	101.7 %	19.7 %	24.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	82.9301 %	91.1477 %	76.5308 %	87.4980 %	93.9994 %	86.4535 %
Concentration per Run 1	-0.0001 ppm	83.5384 %	90.1083 %	76.8848 %	87.5288 %	93.1825 %	86.5926 %
Concentration per Run 2	-0.0005 ppm	82.6700 %	91.5522 %	76.0430 %	87.4989 %	94.3654 %	86.3679 %
Concentration per Run 3	0.0001 ppm	82.5820 %	91.7825 %	76.6646 %	87.4664 %	94.4502 %	86.4000 %
Recovery Percentage 1	-3.148 %						
Concentration RSD	211.6 %	0.6 %	1.0 %	0.6 %	0.0 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: SIC Multi
Analysis started at: 6/17/2024 8:34:41 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	0.0115 ppm	0.0026 ppm	0.0045 ppm	0.0002 ppm	-0.0012 ppm	0.0035 ppm
Concentration per Run 1	-0.0009 ppm	0.0121 ppm	0.0022 ppm	0.0045 ppm	0.0003 ppm	-0.0013 ppm	0.0022 ppm
Concentration per Run 2	-0.0011 ppm	0.0072 ppm	0.0019 ppm	0.0046 ppm	0.0003 ppm	-0.0012 ppm	0.0064 ppm
Concentration per Run 3	-0.0011 ppm	0.0152 ppm	0.0038 ppm	0.0044 ppm	0.0001 ppm	-0.0012 ppm	0.0020 ppm
Recovery Percentage 1	-14.457 %	11.493 %	87.241 %	15.002 %	2.216 %	-30.796 %	3.536 %
Concentration RSD	10.2 %	35.2 %	40.1 %	2.8 %	66.4 %	4.9 %	69.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	19.4890 ppm	-0.0012 ppm	0.0027 ppm	-0.0026 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	19.4599 ppm	-0.0016 ppm	0.0030 ppm	0.0014 ppm	-0.0012 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	19.4661 ppm	-0.0010 ppm	0.0017 ppm	-0.0046 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	19.5410 ppm	-0.0011 ppm	0.0033 ppm	-0.0046 ppm	0.0020 ppm
Recovery Percentage 1	-1.541 %	-0.625 %	194,889.951 %	-12.318 %	5.305 %	-0.105 %	5.449 %
Concentration RSD	41.6 %	195.1 %	0.2 %	23.5 %	31.3 %	131.8 %	298.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0025 ppm	19.8834 ppm	0.0006 ppm	0.0086 ppm	-0.0005 ppm	-0.0016 ppm	-0.0048 ppm
Concentration per Run 1	-0.0015 ppm	19.9087 ppm	0.0004 ppm	0.0077 ppm	0.0002 ppm	-0.0016 ppm	0.0018 ppm
Concentration per Run 2	-0.0041 ppm	19.8777 ppm	0.0012 ppm	0.0118 ppm	-0.0011 ppm	-0.0012 ppm	-0.0043 ppm
Concentration per Run 3	-0.0020 ppm	19.8637 ppm	0.0003 ppm	0.0063 ppm	-0.0006 ppm	-0.0021 ppm	-0.0118 ppm
Recovery Percentage 1	-2.523 %	198,833.995 %	1.292 %	0.430 %	-2.164 %	-16.346 %	-9.526 %
Concentration RSD	55.0 %	0.1 %	75.0 %	32.9 %	121.4 %	26.5 %	142.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	0.0451 ppm	-0.0045 ppm	0.0004 ppm	19.2123 ppm	0.0093 ppm	9.8530 ppm
Concentration per Run 1	-0.0027 ppm	0.0238 ppm	-0.0047 ppm	0.0003 ppm	19.1520 ppm	0.0076 ppm	9.7944 ppm
Concentration per Run 2	-0.0023 ppm	0.0447 ppm	-0.0048 ppm	0.0004 ppm	19.2109 ppm	0.0080 ppm	9.8547 ppm
Concentration per Run 3	-0.0047 ppm	0.0667 ppm	-0.0041 ppm	0.0004 ppm	19.2740 ppm	0.0122 ppm	9.9099 ppm
Recovery Percentage 1	-32.486 %	9.017 %	-9.076 %	3.585 %	192,123.171 %	46.388 %	98,529.857 %
Concentration RSD	40.2 %	47.6 %	8.8 %	27.1 %	0.3 %	27.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	93.1445 %	99.7681 %	81.2426 %	99.8878 %	103.4916 %	100.8388 %
Concentration per Run 1	-0.0004 ppm	93.5369 %	99.8857 %	81.6347 %	99.6094 %	103.4889 %	101.1340 %
Concentration per Run 2	-0.0001 ppm	92.9656 %	98.5216 %	81.3450 %	99.7365 %	102.1471 %	101.0512 %
Concentration per Run 3	0.0000 ppm	92.9311 %	100.8969 %	80.7481 %	100.3176 %	104.8389 %	100.3312 %
Recovery Percentage 1	-4.083 %						
Concentration RSD	105.3 %	0.4 %	1.2 %	0.6 %	0.4 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LDR Check
Analysis started at: 6/17/2024 8:38:46 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	0.0767 ppm	**21.4160 ppm**	19.1644 ppm	19.5249 ppm	4.9945 ppm	0.0193 ppm
Concentration per Run 1	0.0013 ppm	0.0764 ppm	21.3858 ppm	18.8594 ppm	19.5746 ppm	4.9939 ppm	0.0180 ppm
Concentration per Run 2	0.0012 ppm	0.0780 ppm	21.4035 ppm	19.3344 ppm	19.4547 ppm	4.9907 ppm	0.0193 ppm
Concentration per Run 3	0.0013 ppm	0.0757 ppm	21.4588 ppm	19.2996 ppm	19.5455 ppm	4.9988 ppm	0.0205 ppm
Recovery Percentage 1			107.080 %	95.822 %	97.625 %		0.000 %
Concentration RSD	2.7 %	1.5 %	0.2 %	1.4 %	0.3 %	0.1 %	6.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8191 ppm	4.9278 ppm	0.0009 ppm	19.5818 ppm	0.0337 ppm	**505.5987 ppm**	18.3411 ppm
Concentration per Run 1	4.7606 ppm	4.8650 ppm	0.0011 ppm	19.3002 ppm	0.0328 ppm	506.1352 ppm	18.3454 ppm
Concentration per Run 2	4.8458 ppm	4.9506 ppm	0.0014 ppm	19.6892 ppm	0.0341 ppm	505.4151 ppm	18.3224 ppm
Concentration per Run 3	4.8510 ppm	4.9680 ppm	0.0004 ppm	19.7560 ppm	0.0344 ppm	505.2457 ppm	18.3555 ppm
Recovery Percentage 1	96.382 %	98.557 %		97.909 %	0.000 %	101.120 %	91.705 %
Concentration RSD	1.1 %	1.1 %	57.2 %	1.3 %	2.6 %	0.1 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0046 ppm	0.0008 ppm	4.8653 ppm	**406.1416 ppm**	9.6726 ppm	**50.5404 ppm**	4.9737 ppm
Concentration per Run 1	-0.0050 ppm	0.0006 ppm	4.7167 ppm	406.0795 ppm	9.5274 ppm	50.2530 ppm	4.8300 ppm
Concentration per Run 2	-0.0039 ppm	0.0009 ppm	4.9138 ppm	406.4530 ppm	9.7309 ppm	50.6575 ppm	5.0267 ppm
Concentration per Run 3	-0.0049 ppm	0.0008 ppm	4.9654 ppm	405.8924 ppm	9.7595 ppm	50.7108 ppm	5.0644 ppm
Recovery Percentage 1		0.000 %	97.306 %	81.228 %	96.726 %	101.081 %	99.474 %
Concentration RSD	12.3 %	16.8 %	2.7 %	**0.1 %**	1.3 %	0.5 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**5.1240 ppm**	**21.5105 ppm**	**7.4810 ppm**	4.8204 ppm	0.0111 ppm	**4.9198 ppm**	0.0001 ppm
Concentration per Run 1	5.1055 ppm	21.0535 ppm	7.4504 ppm	4.8224 ppm	0.0115 ppm	4.8860 ppm	0.0000 ppm
Concentration per Run 2	5.1300 ppm	21.6641 ppm	7.5260 ppm	4.8163 ppm	0.0114 ppm	4.9368 ppm	0.0007 ppm
Concentration per Run 3	5.1367 ppm	21.8139 ppm	7.4664 ppm	4.8225 ppm	0.0104 ppm	4.9365 ppm	-0.0004 ppm
Recovery Percentage 1	102.481 %	107.552 %	74.810 %	96.408 %	0.000 %	98.396 %	0.000 %
Concentration RSD	0.3 %	1.9 %	**0.5 %**	0.1 %	5.2 %	0.6 %	534.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.8185 ppm	86.5645 %	94.7604 %	83.3413 %	91.1594 %	96.5456 %	88.8672 %
Concentration per Run 1	18.5888 ppm	87.2560 %	94.3774 %	83.7961 %	90.8499 %	96.3112 %	89.1348 %
Concentration per Run 2	18.9344 ppm	86.5033 %	94.8717 %	83.0027 %	91.2940 %	96.5201 %	88.3792 %
Concentration per Run 3	18.9322 ppm	85.9341 %	95.0320 %	83.2250 %	91.3343 %	96.8056 %	89.0877 %
Recovery Percentage 1	94.092 %						
Concentration RSD	1.1 %	0.8 %	0.4 %	0.5 %	0.3 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LLOQ 0.005 As
Analysis started at: 6/17/2024 9:30:33 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0049 ppm	0.0073 ppm	0.0054 ppm	0.0042 ppm	0.0051 ppm	0.0050 ppm	0.0131 ppm
Concentration per Run 1	0.0049 ppm	0.0182 ppm	0.0062 ppm	0.0040 ppm	0.0050 ppm	0.0050 ppm	0.0166 ppm
Concentration per Run 2	0.0045 ppm	-0.0003 ppm	0.0050 ppm	0.0040 ppm	0.0050 ppm	0.0050 ppm	0.0126 ppm
Concentration per Run 3	0.0051 ppm	0.0040 ppm	0.0049 ppm	0.0047 ppm	0.0052 ppm	0.0051 ppm	0.0100 ppm
Recovery Percentage 1	97.187 %	0.000 %	107.287 %	0.000 %	0.000 %	100.670 %	0.000 %
Concentration RSD	6.3 %	132.7 %	13.1 %	9.1 %	1.7 %	0.7 %	25.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0047 ppm	0.0045 ppm	0.0051 ppm	0.0044 ppm	0.0070 ppm	0.0555 ppm	0.0059 ppm
Concentration per Run 1	0.0046 ppm	0.0048 ppm	0.0050 ppm	0.0044 ppm	0.0066 ppm	0.0806 ppm	0.0066 ppm
Concentration per Run 2	0.0046 ppm	0.0042 ppm	0.0052 ppm	0.0042 ppm	0.0058 ppm	0.0503 ppm	0.0058 ppm
Concentration per Run 3	0.0048 ppm	0.0045 ppm	0.0052 ppm	0.0046 ppm	0.0086 ppm	0.0356 ppm	0.0054 ppm
Recovery Percentage 1	93.187 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.3 %	6.1 %	1.9 %	3.6 %	20.4 %	41.4 %	10.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0050 ppm	0.0053 ppm	0.0057 ppm	0.1225 ppm	0.0042 ppm	0.0049 ppm	0.0055 ppm
Concentration per Run 1	0.0047 ppm	0.0055 ppm	0.0056 ppm	0.1229 ppm	0.0043 ppm	0.0046 ppm	0.0048 ppm
Concentration per Run 2	0.0057 ppm	0.0051 ppm	0.0057 ppm	0.1187 ppm	0.0041 ppm	0.0052 ppm	0.0041 ppm
Concentration per Run 3	0.0047 ppm	0.0053 ppm	0.0058 ppm	0.1258 ppm	0.0042 ppm	0.0050 ppm	0.0076 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	11.6 %	3.8 %	1.4 %	2.9 %	3.2 %	6.5 %	33.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0047 ppm	0.0489 ppm	0.0053 ppm	0.0051 ppm	0.0047 ppm	0.0043 ppm	0.0043 ppm
Concentration per Run 1	0.0045 ppm	0.0541 ppm	0.0062 ppm	0.0052 ppm	0.0049 ppm	0.0045 ppm	0.0043 ppm
Concentration per Run 2	0.0039 ppm	0.0480 ppm	0.0047 ppm	0.0050 ppm	0.0047 ppm	0.0033 ppm	0.0044 ppm
Concentration per Run 3	0.0056 ppm	0.0445 ppm	0.0050 ppm	0.0051 ppm	0.0044 ppm	0.0052 ppm	0.0043 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	18.6 %	10.0 %	15.4 %	1.7 %	5.3 %	21.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	105.3746 %	103.0902 %	102.9848 %	102.8845 %	102.0275 %	102.0489 %
Concentration per Run 1	0.0050 ppm	107.1124 %	104.3540 %	103.8778 %	102.4574 %	102.5005 %	102.1670 %
Concentration per Run 2	0.0049 ppm	105.8479 %	103.3665 %	102.5987 %	103.7201 %	102.2575 %	101.4087 %
Concentration per Run 3	0.0051 ppm	103.1635 %	101.5502 %	102.4779 %	102.4762 %	101.3245 %	102.5709 %
Recovery Percentage 1	99.662 %						
Concentration RSD	1.6 %	1.9 %	1.4 %	0.8 %	0.7 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: zLLOQ 0.01
Analysis started at: 6/17/2024 9:34:40 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0113 ppm	0.0057 ppm	0.0110 ppm	0.0120 ppm	0.0109 ppm	0.0107 ppm	0.0209 ppm
Concentration per Run 1	0.0119 ppm	-0.0014 ppm	0.0112 ppm	0.0132 ppm	0.0109 ppm	0.0108 ppm	0.0207 ppm
Concentration per Run 2	0.0111 ppm	0.0132 ppm	0.0100 ppm	0.0116 ppm	0.0107 ppm	0.0107 ppm	0.0216 ppm
Concentration per Run 3	0.0110 ppm	0.0054 ppm	0.0119 ppm	0.0113 ppm	0.0111 ppm	0.0107 ppm	0.0204 ppm
Recovery Percentage 1	0.000 %	0.000 %	110.301 %	120.240 %	108.650 %	0.000 %	0.000 %
Concentration RSD	4.5 %	127.5 %	8.6 %	8.3 %	1.8 %	0.4 %	3.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0111 ppm	0.0118 ppm	0.0104 ppm	0.0117 ppm	0.0150 ppm	0.1411 ppm	0.0115 ppm
Concentration per Run 1	0.0112 ppm	0.0125 ppm	0.0103 ppm	0.0116 ppm	0.0155 ppm	0.1489 ppm	0.0127 ppm
Concentration per Run 2	0.0112 ppm	0.0112 ppm	0.0101 ppm	0.0117 ppm	0.0138 ppm	0.1181 ppm	0.0103 ppm
Concentration per Run 3	0.0111 ppm	0.0118 ppm	0.0107 ppm	0.0118 ppm	0.0157 ppm	0.1563 ppm	0.0116 ppm
Recovery Percentage 1	0.000 %	118.385 %	103.935 %	117.020 %	0.000 %	0.000 %	115.351 %
Concentration RSD	0.5 %	5.4 %	3.0 %	0.7 %	6.7 %	14.4 %	10.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0126 ppm	0.0110 ppm	0.0114 ppm	0.2432 ppm	0.0113 ppm	0.0119 ppm	0.0109 ppm
Concentration per Run 1	0.0130 ppm	0.0112 ppm	0.0110 ppm	0.2423 ppm	0.0115 ppm	0.0122 ppm	0.0100 ppm
Concentration per Run 2	0.0122 ppm	0.0111 ppm	0.0117 ppm	0.2446 ppm	0.0116 ppm	0.0127 ppm	0.0132 ppm
Concentration per Run 3	0.0126 ppm	0.0105 ppm	0.0116 ppm	0.2426 ppm	0.0107 ppm	0.0107 ppm	0.0094 ppm
Recovery Percentage 1	0.000 %	109.573 %	114.260 %	0.000 %	112.748 %	118.659 %	0.000 %
Concentration RSD	3.1 %	3.4 %	3.5 %	0.5 %	4.6 %	8.9 %	18.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0093 ppm	0.1095 ppm	0.0109 ppm	0.0109 ppm	0.0105 ppm	0.0107 ppm	0.0107 ppm
Concentration per Run 1	0.0098 ppm	0.1099 ppm	0.0119 ppm	0.0107 ppm	0.0108 ppm	0.0099 ppm	0.0110 ppm
Concentration per Run 2	0.0122 ppm	0.1094 ppm	0.0106 ppm	0.0109 ppm	0.0104 ppm	0.0105 ppm	0.0104 ppm
Concentration per Run 3	0.0058 ppm	0.1092 ppm	0.0102 ppm	0.0111 ppm	0.0104 ppm	0.0118 ppm	0.0106 ppm
Recovery Percentage 1	92.837 %	0.000 %	109.025 %	108.979 %	105.420 %	107.250 %	107.075 %
Concentration RSD	34.6 %	0.3 %	8.0 %	1.7 %	2.0 %	8.8 %	2.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0122 ppm	85.2683 %	94.5487 %	90.0927 %	99.8743 %	101.8755 %	100.8730 %
Concentration per Run 1	0.0124 ppm	84.6233 %	95.0958 %	89.2776 %	99.6218 %	102.8518 %	100.5277 %
Concentration per Run 2	0.0120 ppm	85.1058 %	94.3006 %	90.4600 %	99.8366 %	101.6595 %	100.9588 %
Concentration per Run 3	0.0123 ppm	86.0757 %	94.2498 %	90.5405 %	100.1644 %	101.1151 %	101.1324 %
Recovery Percentage 1	122.500 %						
Concentration RSD	1.6 %	0.9 %	0.5 %	0.8 %	0.3 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LDR 400 Na
Analysis started at: 6/17/2024 9:38:36 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0029 ppm	0.0002 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0097 ppm
Concentration per Run 1	0.0008 ppm	0.0003 ppm	0.0013 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	0.0007 ppm	-0.0040 ppm	-0.0003 ppm	-0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 3	0.0002 ppm	-0.0050 ppm	-0.0005 ppm	0.0017 ppm	0.0002 ppm	0.0001 ppm	0.0102 ppm
Concentration RSD	53.3 %	97.7 %	599.7 %	130.6 %	70.1 %	339.0 %	12.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0049 ppm	0.0814 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0053 ppm	0.0886 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0035 ppm	0.0645 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0057 ppm	0.0910 ppm	-0.0002 ppm
Concentration RSD	181.1 %	438.5 %	298.9 %	40.4 %	23.8 %	18.0 %	114.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0025 ppm	0.0002 ppm	-0.0001 ppm	382.7065 ppm	-0.0002 ppm	0.0013 ppm	-0.0024 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	-0.0003 ppm	383.8431 ppm	0.0006 ppm	0.0011 ppm	-0.0029 ppm
Concentration per Run 2	0.0037 ppm	0.0000 ppm	0.0002 ppm	383.7231 ppm	-0.0006 ppm	0.0015 ppm	-0.0016 ppm
Concentration per Run 3	0.0036 ppm	0.0003 ppm	0.0000 ppm	380.5534 ppm	-0.0007 ppm	0.0013 ppm	-0.0028 ppm
Concentration RSD	75.6 %	93.9 %	466.5 %	0.5 %	310.4 %	15.0 %	29.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	-0.0041 ppm	0.0002 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0004 ppm	-0.0036 ppm	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0017 ppm	-0.0004 ppm
Concentration per Run 2	-0.0031 ppm	-0.0041 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 3	0.0010 ppm	-0.0045 ppm	0.0003 ppm	0.0000 ppm	-0.0006 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	400.0 %	10.8 %	55.7 %	275.9 %	39.0 %	1,154.0 %	47.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	83.1080 %	93.7529 %	86.0476 %	94.9335 %	98.7880 %	96.1791 %
Concentration per Run 1	0.0007 ppm	82.3427 %	94.2187 %	86.0282 %	94.7404 %	99.4990 %	96.6242 %
Concentration per Run 2	0.0007 ppm	83.0623 %	93.4130 %	85.8955 %	94.8333 %	98.5979 %	95.8686 %
Concentration per Run 3	0.0006 ppm	83.9191 %	93.6270 %	86.2190 %	95.2267 %	98.2670 %	96.0444 %
Concentration RSD	6.9 %	0.9 %	0.4 %	0.2 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LDR 1000 Ca
Analysis started at: 6/17/2024 9:42:32 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0086 ppm	0.0001 ppm	0.0019 ppm	0.0025 ppm	0.0000 ppm	965.2545 ppm
Concentration per Run 1	-0.0008 ppm	0.0011 ppm	0.0007 ppm	0.0023 ppm	0.0026 ppm	0.0000 ppm	965.5362 ppm
Concentration per Run 2	-0.0004 ppm	-0.0225 ppm	0.0005 ppm	0.0019 ppm	0.0023 ppm	0.0000 ppm	964.6774 ppm
Concentration per Run 3	-0.0004 ppm	-0.0043 ppm	-0.0010 ppm	0.0015 ppm	0.0027 ppm	0.0000 ppm	965.5499 ppm
Concentration RSD	42.2 %	144.5 %	1,721.1 %	22.3 %	8.3 %	1,183.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0014 ppm	0.0078 ppm	0.0923 ppm	-0.0021 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0008 ppm	0.0013 ppm	0.0061 ppm	0.0688 ppm	-0.0008 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0012 ppm	0.0059 ppm	0.0888 ppm	-0.0023 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0007 ppm	0.0017 ppm	0.0115 ppm	0.1193 ppm	-0.0031 ppm
Concentration RSD	12.5 %	804.9 %	14.0 %	16.9 %	40.5 %	27.5 %	55.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0041 ppm	0.0006 ppm	0.0002 ppm	0.0488 ppm	0.0001 ppm	0.0023 ppm	-0.0020 ppm
Concentration per Run 1	0.0040 ppm	0.0008 ppm	-0.0001 ppm	0.0483 ppm	0.0011 ppm	0.0033 ppm	-0.0002 ppm
Concentration per Run 2	0.0033 ppm	0.0006 ppm	0.0002 ppm	0.0491 ppm	-0.0002 ppm	0.0020 ppm	-0.0010 ppm
Concentration per Run 3	0.0049 ppm	0.0005 ppm	0.0004 ppm	0.0491 ppm	-0.0006 ppm	0.0015 ppm	-0.0048 ppm
Concentration RSD	19.5 %	24.5 %	172.8 %	1.0 %	746.3 %	39.5 %	125.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0039 ppm	-0.0014 ppm	-0.0004 ppm	-0.0007 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 1	0.0028 ppm	0.0036 ppm	-0.0012 ppm	-0.0004 ppm	-0.0007 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0033 ppm	0.0037 ppm	-0.0018 ppm	-0.0004 ppm	-0.0004 ppm	-0.0034 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0043 ppm	-0.0013 ppm	-0.0003 ppm	-0.0010 ppm	-0.0002 ppm	-0.0002 ppm
Concentration RSD	1,476.5 %	9.5 %	23.6 %	23.8 %	41.7 %	108.4 %	79.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	79.8088 %	90.6317 %	78.1599 %	91.9587 %	96.5711 %	90.3709 %
Concentration per Run 1	0.0012 ppm	79.1824 %	90.9651 %	77.7743 %	91.6405 %	97.2444 %	90.3168 %
Concentration per Run 2	0.0014 ppm	79.9288 %	90.0674 %	78.0545 %	92.0882 %	95.8384 %	90.3167 %
Concentration per Run 3	0.0015 ppm	80.3153 %	90.8627 %	78.6509 %	92.1474 %	96.6304 %	90.4792 %
Concentration RSD	10.9 %	0.7 %	0.5 %	0.6 %	0.3 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LDR 500 Fe
Analysis started at: 6/17/2024 9:46:28 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	0.0431 ppm	0.0004 ppm	0.0032 ppm	0.0004 ppm	0.0000 ppm	0.0400 ppm
Concentration per Run 1	-0.0019 ppm	0.0453 ppm	-0.0001 ppm	0.0042 ppm	0.0005 ppm	0.0000 ppm	0.0395 ppm
Concentration per Run 2	-0.0013 ppm	0.0432 ppm	-0.0005 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0411 ppm
Concentration per Run 3	-0.0011 ppm	0.0408 ppm	0.0018 ppm	0.0042 ppm	0.0003 ppm	0.0000 ppm	0.0393 ppm
Concentration RSD	28.4 %	5.2 %	308.7 %	57.3 %	24.6 %	333.6 %	2.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0026 ppm	-0.0026 ppm	-0.0021 ppm	460.6312 ppm	-0.0485 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0019 ppm	-0.0027 ppm	-0.0017 ppm	460.2352 ppm	-0.0764 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	-0.0030 ppm	-0.0023 ppm	-0.0024 ppm	458.2458 ppm	-0.0191 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0030 ppm	-0.0026 ppm	-0.0022 ppm	463.4126 ppm	-0.0498 ppm	-0.0012 ppm
Concentration RSD	64.1 %	24.0 %	7.7 %	16.7 %	0.6 %	59.2 %	28.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0079 ppm	0.0006 ppm	-0.0019 ppm	0.0285 ppm	-0.0025 ppm	0.0013 ppm	0.0101 ppm
Concentration per Run 1	0.0090 ppm	0.0009 ppm	-0.0019 ppm	0.0290 ppm	-0.0027 ppm	0.0020 ppm	0.0104 ppm
Concentration per Run 2	0.0064 ppm	0.0006 ppm	-0.0017 ppm	0.0302 ppm	-0.0029 ppm	0.0017 ppm	0.0108 ppm
Concentration per Run 3	0.0084 ppm	0.0004 ppm	-0.0020 ppm	0.0262 ppm	-0.0019 ppm	0.0001 ppm	0.0089 ppm
Concentration RSD	17.4 %	36.5 %	7.5 %	7.1 %	20.0 %	80.5 %	10.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	-0.0025 ppm	0.0016 ppm	0.0003 ppm	-0.0005 ppm	-0.0006 ppm	0.0023 ppm
Concentration per Run 1	-0.0027 ppm	-0.0010 ppm	0.0025 ppm	0.0004 ppm	-0.0008 ppm	-0.0012 ppm	0.0029 ppm
Concentration per Run 2	-0.0001 ppm	-0.0026 ppm	0.0017 ppm	0.0002 ppm	-0.0005 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 3	-0.0030 ppm	-0.0039 ppm	0.0005 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0020 ppm
Concentration RSD	80.9 %	58.0 %	65.2 %	40.2 %	54.4 %	92.8 %	21.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	92.1145 %	98.9793 %	88.1374 %	97.9747 %	101.9242 %	98.4522 %
Concentration per Run 1	0.0002 ppm	91.9936 %	99.8032 %	88.4010 %	96.9036 %	102.8080 %	98.7665 %
Concentration per Run 2	0.0002 ppm	91.7252 %	98.8230 %	88.3018 %	97.7498 %	101.5295 %	98.5037 %
Concentration per Run 3	-0.0001 ppm	92.6248 %	98.3116 %	87.7092 %	99.2708 %	101.4351 %	98.0864 %
Concentration RSD	134.6 %	0.5 %	0.8 %	0.4 %	1.2 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 10:09:26 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4994 ppm	0.4926 ppm	0.4836 ppm	0.4993 ppm	0.5009 ppm	0.5107 ppm	0.4988 ppm
Concentration per Run 1	0.4959 ppm	0.4892 ppm	0.4823 ppm	0.4991 ppm	0.4967 ppm	0.5115 ppm	0.4990 ppm
Concentration per Run 2	0.5000 ppm	0.4895 ppm	0.4827 ppm	0.4998 ppm	0.5029 ppm	0.5096 ppm	0.4999 ppm
Concentration per Run 3	0.5024 ppm	0.4992 ppm	0.4857 ppm	0.4991 ppm	0.5031 ppm	0.5109 ppm	0.4975 ppm
Recovery Percentage 1	99.885 %	98.525 %	96.712 %	99.863 %	100.181 %	102.131 %	99.759 %
Concentration RSD	0.7 %	1.1 %	0.4 %	0.1 %	0.7 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5110 ppm	0.5157 ppm	0.4975 ppm	0.4940 ppm	0.5201 ppm	5.2950 ppm	0.6341 ppm
Concentration per Run 1	0.5124 ppm	0.5166 ppm	0.4957 ppm	0.4938 ppm	0.5197 ppm	5.2581 ppm	0.6300 ppm
Concentration per Run 2	0.5112 ppm	0.5157 ppm	0.4984 ppm	0.4941 ppm	0.5192 ppm	5.2996 ppm	0.6282 ppm
Concentration per Run 3	0.5093 ppm	0.5147 ppm	0.4984 ppm	0.4942 ppm	0.5213 ppm	5.3273 ppm	0.6442 ppm
Recovery Percentage 1	102.198 %	103.131 %	99.500 %	98.808 %	104.011 %	105.900 %	126.824 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.0 %	0.2 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4948 ppm	0.4973 ppm	0.5086 ppm	10.1110 ppm	0.5140 ppm	0.4971 ppm	0.5108 ppm
Concentration per Run 1	0.4940 ppm	0.4954 ppm	0.5054 ppm	10.1195 ppm	0.5147 ppm	0.4948 ppm	0.5101 ppm
Concentration per Run 2	0.4932 ppm	0.4974 ppm	0.5082 ppm	10.1103 ppm	0.5132 ppm	0.4975 ppm	0.5106 ppm
Concentration per Run 3	0.4971 ppm	0.4992 ppm	0.5122 ppm	10.1031 ppm	0.5141 ppm	0.4991 ppm	0.5117 ppm
Recovery Percentage 1	98.955 %	99.468 %	101.728 %	101.110 %	102.794 %	99.429 %	102.163 %
Concentration RSD	0.4 %	0.4 %	0.7 %	0.1 %	0.1 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4899 ppm	5.5842 ppm	0.4940 ppm	0.4917 ppm	0.5058 ppm	0.4956 ppm	0.4965 ppm
Concentration per Run 1	0.4903 ppm	5.5800 ppm	0.4975 ppm	0.4895 ppm	0.5054 ppm	0.4910 ppm	0.4947 ppm
Concentration per Run 2	0.4868 ppm	5.5878 ppm	0.4929 ppm	0.4949 ppm	0.5061 ppm	0.4945 ppm	0.4955 ppm
Concentration per Run 3	0.4927 ppm	5.5849 ppm	0.4915 ppm	0.4908 ppm	0.5058 ppm	0.5013 ppm	0.4993 ppm
Recovery Percentage 1	97.987 %	106.367 %	98.797 %	98.346 %	101.156 %	99.114 %	99.301 %
Concentration RSD	0.6 %	0.1 %	0.6 %	0.6 %	0.1 %	1.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5138 ppm	91.4366 %	99.3036 %	93.4509 %	99.1324 %	102.5745 %	99.4555 %
Concentration per Run 1	0.5171 ppm	91.1937 %	100.0475 %	93.2085 %	98.9382 %	103.3744 %	99.0583 %
Concentration per Run 2	0.5132 ppm	91.3727 %	99.1538 %	93.8020 %	99.2287 %	102.2785 %	99.7202 %
Concentration per Run 3	0.5111 ppm	91.7433 %	98.7093 %	93.3421 %	99.2303 %	102.0704 %	99.5881 %
Recovery Percentage 1	102.758 %						
Concentration RSD	0.6 %	0.3 %	0.7 %	0.3 %	0.2 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 10:13:29 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0065 ppm	-0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 1	0.0002 ppm	-0.0075 ppm	0.0010 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	-0.0001 ppm	-0.0108 ppm	-0.0007 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 3	-0.0004 ppm	-0.0013 ppm	-0.0014 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	-1.897 %	-6.545 %	-13.593 %	1.997 %	0.972 %	0.601 %	2.929 %
Concentration RSD	217.2 %	74.4 %	302.8 %	280.4 %	240.9 %	45.5 %	65.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0011 ppm	0.0129 ppm	0.0336 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0010 ppm	0.0120 ppm	0.0372 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	0.0015 ppm	0.0138 ppm	0.0165 ppm	-0.0006 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0009 ppm	0.0129 ppm	0.0471 ppm	0.0004 ppm
Recovery Percentage 1	-0.619 %	-1.105 %	-4.463 %	11.480 %	25.759 %	1.344 %	-0.085 %
Concentration RSD	277.6 %	140.9 %	78.5 %	26.2 %	7.1 %	46.5 %	6,203.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0017 ppm	0.0044 ppm	-0.0003 ppm	0.0008 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0016 ppm	-0.0002 ppm	-0.0006 ppm	0.0004 ppm	-0.0034 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	0.0017 ppm	0.0079 ppm	-0.0006 ppm	0.0016 ppm	0.0032 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	0.0017 ppm	0.0056 ppm	0.0003 ppm	0.0003 ppm	-0.0049 ppm
Recovery Percentage 1	-0.282 %	1.111 %	3.399 %	0.222 %	-1.267 %	7.615 %	-3.362 %
Concentration RSD	129.6 %	179.5 %	3.2 %	94.1 %	176.3 %	90.4 %	255.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0084 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0018 ppm	-0.0087 ppm	0.0004 ppm	-0.0002 ppm	-0.0004 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0006 ppm	-0.0074 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 3	-0.0010 ppm	-0.0091 ppm	0.0006 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	-11.198 %	-1.681 %	0.682 %	-0.501 %	-3.936 %	-1.429 %	-1.941 %
Concentration RSD	54.7 %	10.5 %	93.0 %	282.7 %	5.2 %	268.0 %	12.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	84.0036 %	94.4189 %	89.3869 %	99.7392 %	102.9402 %	101.1823 %
Concentration per Run 1	0.0005 ppm	82.8553 %	93.7766 %	89.1620 %	98.8847 %	102.6495 %	101.4991 %
Concentration per Run 2	0.0008 ppm	84.0870 %	94.7226 %	89.5613 %	99.9049 %	103.2255 %	101.2031 %
Concentration per Run 3	0.0005 ppm	85.0685 %	94.7576 %	89.4373 %	100.4281 %	102.9456 %	100.8446 %
Recovery Percentage 1	11.869 %						
Concentration RSD	32.2 %	1.3 %	0.6 %	0.2 %	0.8 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LLOQ 0.01 Se
Analysis started at: 6/17/2024 10:36:17 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0091 ppm	0.0065 ppm	0.0099 ppm	0.0080 ppm	0.0101 ppm	0.0098 ppm	0.0206 ppm
Concentration per Run 1	0.0090 ppm	-0.0005 ppm	0.0104 ppm	0.0084 ppm	0.0100 ppm	0.0098 ppm	0.0180 ppm
Concentration per Run 2	0.0090 ppm	0.0026 ppm	0.0094 ppm	0.0073 ppm	0.0103 ppm	0.0099 ppm	0.0208 ppm
Concentration per Run 3	0.0094 ppm	0.0175 ppm	0.0100 ppm	0.0082 ppm	0.0100 ppm	0.0098 ppm	0.0229 ppm
Recovery Percentage 1	130.317 %	6.549 %	198.940 %	26.671 %	100.858 %	196.819 %	20.563 %
Concentration RSD	2.2 %	146.6 %	5.2 %	7.3 %	1.6 %	0.8 %	12.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0092 ppm	0.0091 ppm	0.0092 ppm	0.0088 ppm	0.0141 ppm	0.1324 ppm	0.0115 ppm
Concentration per Run 1	0.0089 ppm	0.0087 ppm	0.0090 ppm	0.0084 ppm	0.0128 ppm	0.1351 ppm	0.0098 ppm
Concentration per Run 2	0.0091 ppm	0.0091 ppm	0.0094 ppm	0.0088 ppm	0.0162 ppm	0.1445 ppm	0.0122 ppm
Concentration per Run 3	0.0094 ppm	0.0094 ppm	0.0091 ppm	0.0090 ppm	0.0133 ppm	0.1175 ppm	0.0123 ppm
Recovery Percentage 1	183.225 %	45.327 %	91.867 %	87.592 %	28.234 %	5.295 %	114.625 %
Concentration RSD	2.7 %	3.6 %	2.4 %	3.9 %	13.2 %	10.3 %	12.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0116 ppm	0.0101 ppm	0.0092 ppm	0.2178 ppm	0.0087 ppm	0.0104 ppm	0.0085 ppm
Concentration per Run 1	0.0102 ppm	0.0099 ppm	0.0087 ppm	0.2218 ppm	0.0084 ppm	0.0098 ppm	0.0061 ppm
Concentration per Run 2	0.0126 ppm	0.0101 ppm	0.0091 ppm	0.2129 ppm	0.0079 ppm	0.0103 ppm	0.0090 ppm
Concentration per Run 3	0.0120 ppm	0.0103 ppm	0.0099 ppm	0.2187 ppm	0.0100 ppm	0.0112 ppm	0.0104 ppm
Recovery Percentage 1	11.620 %	100.905 %	18.447 %	10.890 %	34.998 %	104.414 %	16.964 %
Concentration RSD	10.6 %	2.3 %	6.6 %	2.1 %	13.0 %	6.4 %	26.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0088 ppm	0.0881 ppm	0.0105 ppm	0.0100 ppm	0.0092 ppm	0.0090 ppm	0.0087 ppm
Concentration per Run 1	0.0093 ppm	0.0890 ppm	0.0120 ppm	0.0098 ppm	0.0088 ppm	0.0083 ppm	0.0085 ppm
Concentration per Run 2	0.0092 ppm	0.0885 ppm	0.0096 ppm	0.0101 ppm	0.0093 ppm	0.0083 ppm	0.0087 ppm
Concentration per Run 3	0.0079 ppm	0.0869 ppm	0.0099 ppm	0.0101 ppm	0.0094 ppm	0.0103 ppm	0.0088 ppm
Recovery Percentage 1	87.772 %	17.626 %	20.992 %	99.846 %	18.320 %	44.816 %	86.526 %
Concentration RSD	8.7 %	1.2 %	12.1 %	1.7 %	3.1 %	12.6 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0098 ppm	107.1469 %	104.3224 %	104.6095 %	103.4107 %	103.0322 %	102.7414 %
Concentration per Run 1	0.0096 ppm	109.2312 %	104.5304 %	105.6004 %	103.4468 %	102.5117 %	102.4849 %
Concentration per Run 2	0.0100 ppm	106.8076 %	104.3899 %	104.3428 %	102.9606 %	103.1484 %	102.8222 %
Concentration per Run 3	0.0099 ppm	105.4020 %	104.0468 %	103.8852 %	103.8247 %	103.4367 %	102.9172 %
Recovery Percentage 1	196.155 %						
Concentration RSD	1.9 %	1.8 %	0.2 %	0.8 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935099-1 WG1935099
Analysis started at: 6/17/2024 11:20:49 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0010 ppm	0.0002 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0421 ppm
Concentration per Run 1	0.0000 ppm	-0.0029 ppm	0.0003 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0379 ppm
Concentration per Run 2	0.0007 ppm	0.0021 ppm	0.0003 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0431 ppm
Concentration per Run 3	0.0001 ppm	0.0037 ppm	0.0001 ppm	0.0024 ppm	0.0000 ppm	-0.0001 ppm	0.0453 ppm
Recovery Percentage 1	3.604 %	0.969 %	8.182 %	6.680 %	1.489 %	-0.730 %	42.131 %
Concentration RSD	137.7 %	353.6 %	50.9 %	64.6 %	137.5 %	103.5 %	9.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0069 ppm	0.0180 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0083 ppm	0.0398 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0005 ppm	-0.0002 ppm	0.0052 ppm	0.0141 ppm	-0.0015 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0071 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-0.090 %	-1.780 %	4.312 %	0.511 %	13.734 %	0.718 %	-3.524 %
Concentration RSD	2,369.0 %	28.8 %	60.1 %	442.0 %	22.7 %	112.7 %	271.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0094 ppm	0.0006 ppm	0.0003 ppm	138.7884 ppm	-0.0003 ppm	0.0010 ppm	-0.0016 ppm
Concentration per Run 1	0.0101 ppm	0.0005 ppm	0.0001 ppm	138.0870 ppm	-0.0004 ppm	0.0021 ppm	0.0000 ppm
Concentration per Run 2	0.0089 ppm	0.0008 ppm	0.0003 ppm	138.6617 ppm	-0.0001 ppm	0.0008 ppm	-0.0032 ppm
Concentration per Run 3	0.0091 ppm	0.0006 ppm	0.0005 ppm	139.6166 ppm	-0.0003 ppm	-0.0001 ppm	-0.0015 ppm
Recovery Percentage 1	9.381 %	6.308 %	0.596 %	6,939.422 %	-1.096 %	9.591 %	-3.160 %
Concentration RSD	6.8 %	18.6 %	68.0 %	0.6 %	59.1 %	116.6 %	99.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0141 ppm	0.0018 ppm	0.0001 ppm	-0.0001 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0146 ppm	0.0007 ppm	0.0001 ppm	-0.0003 ppm	-0.0034 ppm	-0.0001 ppm
Concentration per Run 2	-0.0013 ppm	0.0135 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0143 ppm	0.0026 ppm	0.0000 ppm	-0.0002 ppm	-0.0016 ppm	-0.0003 ppm
Recovery Percentage 1	-3.764 %	2.826 %	3.516 %	0.677 %	-1.429 %	-8.347 %	-1.482 %
Concentration RSD	262.2 %	4.1 %	54.3 %	87.6 %	98.7 %	100.9 %	74.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	106.2276 %	96.9282 %	95.6186 %	96.8030 %	96.3427 %	96.9916 %
Concentration per Run 1	0.0022 ppm	111.4142 %	97.2822 %	97.0962 %	96.4420 %	96.1366 %	96.8078 %
Concentration per Run 2	0.0028 ppm	105.4493 %	97.1831 %	95.0611 %	96.5806 %	96.6907 %	96.5275 %
Concentration per Run 3	0.0026 ppm	101.8194 %	96.3194 %	94.6984 %	97.3864 %	96.2007 %	97.6394 %
Recovery Percentage 1	51.168 %						
Concentration RSD	11.6 %	4.6 %	0.5 %	1.4 %	0.5 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935099-2 WG1935099
Analysis started at: 6/17/2024 11:24:59 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0494 ppm	1.9425 ppm	0.1214 ppm	0.9281 ppm	1.9764 ppm	0.0500 ppm	9.7401 ppm
Concentration per Run 1	0.0492 ppm	1.9600 ppm	0.1205 ppm	0.9258 ppm	1.9853 ppm	0.0502 ppm	9.7463 ppm
Concentration per Run 2	0.0490 ppm	1.9366 ppm	0.1220 ppm	0.9260 ppm	1.9837 ppm	0.0498 ppm	9.7479 ppm
Concentration per Run 3	0.0499 ppm	1.9311 ppm	0.1217 ppm	0.9326 ppm	1.9603 ppm	0.0501 ppm	9.7261 ppm
Concentration RSD	0.9 %	0.8 %	0.7 %	0.4 %	0.7 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0520 ppm	0.4875 ppm	0.1941 ppm	0.2447 ppm	1.0162 ppm	9.8485 ppm	-0.0008 ppm
Concentration per Run 1	0.0517 ppm	0.4849 ppm	0.1934 ppm	0.2433 ppm	1.0134 ppm	9.9228 ppm	-0.0007 ppm
Concentration per Run 2	0.0518 ppm	0.4887 ppm	0.1942 ppm	0.2440 ppm	1.0204 ppm	9.8414 ppm	0.0003 ppm
Concentration per Run 3	0.0525 ppm	0.4887 ppm	0.1947 ppm	0.2469 ppm	1.0148 ppm	9.7812 ppm	-0.0021 ppm
Concentration RSD	0.9 %	0.4 %	0.3 %	0.8 %	0.4 %	0.7 %	148.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.4024 ppm	0.4951 ppm	0.9931 ppm	10.0495 ppm	0.4927 ppm	0.5431 ppm	0.5041 ppm
Concentration per Run 1	9.3303 ppm	0.4946 ppm	0.9745 ppm	10.0419 ppm	0.4905 ppm	0.5428 ppm	0.5011 ppm
Concentration per Run 2	9.4196 ppm	0.4963 ppm	0.9938 ppm	10.0781 ppm	0.4914 ppm	0.5417 ppm	0.5062 ppm
Concentration per Run 3	9.4574 ppm	0.4946 ppm	1.0110 ppm	10.0284 ppm	0.4961 ppm	0.5449 ppm	0.5050 ppm
Concentration RSD	0.7 %	0.2 %	1.8 %	0.3 %	0.6 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1208 ppm	1.1391 ppm	0.9586 ppm	0.9449 ppm	0.9660 ppm	0.1203 ppm	0.4923 ppm
Concentration per Run 1	0.1226 ppm	1.1377 ppm	0.9579 ppm	0.9471 ppm	0.9572 ppm	0.1224 ppm	0.4889 ppm
Concentration per Run 2	0.1179 ppm	1.1392 ppm	0.9590 ppm	0.9419 ppm	0.9693 ppm	0.1182 ppm	0.4932 ppm
Concentration per Run 3	0.1218 ppm	1.1405 ppm	0.9590 ppm	0.9456 ppm	0.9713 ppm	0.1203 ppm	0.4948 ppm
Concentration RSD	2.1 %	0.1 %	0.1 %	0.3 %	0.8 %	1.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4938 ppm	90.0221 %	95.9970 %	89.4979 %	96.4708 %	98.9801 %	96.6110 %
Concentration per Run 1	0.4896 ppm	90.7719 %	96.2685 %	89.4196 %	96.6967 %	99.1686 %	96.5650 %
Concentration per Run 2	0.4942 ppm	89.7797 %	96.4193 %	89.8674 %	96.2079 %	99.6060 %	96.9077 %
Concentration per Run 3	0.4978 ppm	89.5149 %	95.3031 %	89.2066 %	96.5079 %	98.1657 %	96.3603 %
Concentration RSD	0.8 %	0.7 %	0.6 %	0.4 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433334-01 WG1935099
Analysis started at: 6/17/2024 11:28:57 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0031 ppm	-0.0014 ppm	0.0057 ppm	0.2239 ppm	0.0000 ppm	59.9546 ppm
Concentration per Run 1	0.0004 ppm	-0.0033 ppm	-0.0010 ppm	0.0058 ppm	0.2241 ppm	0.0000 ppm	59.9532 ppm
Concentration per Run 2	0.0003 ppm	-0.0196 ppm	-0.0019 ppm	0.0056 ppm	0.2233 ppm	0.0000 ppm	59.8572 ppm
Concentration per Run 3	-0.0004 ppm	0.0135 ppm	-0.0012 ppm	0.0056 ppm	0.2244 ppm	0.0000 ppm	60.0533 ppm
Concentration RSD	628.2 %	533.7 %	34.3 %	2.3 %	0.3 %	395.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0003 ppm	0.0006 ppm	0.0189 ppm	0.6283 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0006 ppm	0.0177 ppm	0.6582 ppm	0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0007 ppm	0.0186 ppm	0.6086 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0204 ppm	0.6180 ppm	0.0008 ppm
Concentration RSD	166.9 %	20.2 %	129.5 %	8.4 %	7.2 %	4.2 %	19.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7449 ppm	1.3835 ppm	0.0027 ppm	137.3231 ppm	0.0008 ppm	0.0009 ppm	-0.0011 ppm
Concentration per Run 1	0.7406 ppm	1.3852 ppm	0.0030 ppm	137.3793 ppm	0.0011 ppm	0.0011 ppm	-0.0008 ppm
Concentration per Run 2	0.7443 ppm	1.3808 ppm	0.0025 ppm	137.2020 ppm	0.0004 ppm	0.0003 ppm	-0.0036 ppm
Concentration per Run 3	0.7498 ppm	1.3847 ppm	0.0028 ppm	137.3880 ppm	0.0011 ppm	0.0014 ppm	0.0012 ppm
Concentration RSD	0.6 %	0.2 %	9.3 %	0.1 %	49.8 %	60.8 %	219.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	0.3144 ppm	0.0025 ppm	0.0948 ppm	-0.0003 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	0.0031 ppm	0.3127 ppm	0.0018 ppm	0.0951 ppm	0.0000 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 2	0.0007 ppm	0.3111 ppm	0.0028 ppm	0.0946 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0016 ppm	0.3195 ppm	0.0029 ppm	0.0946 ppm	-0.0004 ppm	-0.0018 ppm	0.0000 ppm
Concentration RSD	68.3 %	1.4 %	24.0 %	0.3 %	88.5 %	84.1 %	297.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0027 ppm	88.9035 %	95.7007 %	87.4296 %	96.3815 %	99.4078 %	95.7151 %
Concentration per Run 1	0.0028 ppm	88.7273 %	95.9889 %	87.7108 %	95.9363 %	99.8699 %	96.0566 %
Concentration per Run 2	0.0024 ppm	89.4622 %	95.5217 %	87.5197 %	97.0514 %	99.1973 %	95.4958 %
Concentration per Run 3	0.0029 ppm	88.5210 %	95.5915 %	87.0584 %	96.1569 %	99.1563 %	95.5929 %
Concentration RSD	9.3 %	0.6 %	0.3 %	0.4 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935099-3 WG1935099
Analysis started at: 6/17/2024 11:32:54 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0486 ppm	1.8902 ppm	0.1242 ppm	0.9219 ppm	2.1393 ppm	0.0499 ppm	68.1963 ppm
Concentration per Run 1	0.0481 ppm	1.8974 ppm	0.1227 ppm	0.9123 ppm	2.1347 ppm	0.0499 ppm	68.4250 ppm
Concentration per Run 2	0.0487 ppm	1.8964 ppm	0.1237 ppm	0.9302 ppm	2.1451 ppm	0.0500 ppm	68.2283 ppm
Concentration per Run 3	0.0489 ppm	1.8767 ppm	0.1262 ppm	0.9231 ppm	2.1380 ppm	0.0497 ppm	67.9357 ppm
Concentration RSD	0.8 %	0.6 %	1.5 %	1.0 %	0.2 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0505 ppm	0.4695 ppm	0.1882 ppm	0.2418 ppm	1.0002 ppm	10.2323 ppm	0.0029 ppm
Concentration per Run 1	0.0500 ppm	0.4662 ppm	0.1859 ppm	0.2386 ppm	1.0004 ppm	10.2814 ppm	0.0045 ppm
Concentration per Run 2	0.0508 ppm	0.4712 ppm	0.1895 ppm	0.2437 ppm	1.0000 ppm	10.2753 ppm	0.0011 ppm
Concentration per Run 3	0.0507 ppm	0.4711 ppm	0.1891 ppm	0.2430 ppm	1.0003 ppm	10.1402 ppm	0.0032 ppm
Concentration RSD	0.8 %	0.6 %	1.1 %	1.2 %	0.0 %	0.8 %	57.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6607 ppm	1.8321 ppm	0.9850 ppm	144.3304 ppm	0.4732 ppm	0.5339 ppm	0.4987 ppm
Concentration per Run 1	9.5864 ppm	1.8369 ppm	0.9625 ppm	144.9983 ppm	0.4684 ppm	0.5330 ppm	0.4953 ppm
Concentration per Run 2	9.6623 ppm	1.8308 ppm	0.9921 ppm	144.4688 ppm	0.4757 ppm	0.5347 ppm	0.4986 ppm
Concentration per Run 3	9.7333 ppm	1.8286 ppm	1.0005 ppm	143.5242 ppm	0.4756 ppm	0.5338 ppm	0.5023 ppm
Concentration RSD	0.8 %	0.2 %	2.0 %	0.5 %	0.9 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1216 ppm	1.4618 ppm	0.9256 ppm	1.0153 ppm	0.9549 ppm	0.1168 ppm	0.4876 ppm
Concentration per Run 1	0.1194 ppm	1.4488 ppm	0.9193 ppm	1.0173 ppm	0.9435 ppm	0.1156 ppm	0.4824 ppm
Concentration per Run 2	0.1211 ppm	1.4621 ppm	0.9298 ppm	1.0164 ppm	0.9585 ppm	0.1175 ppm	0.4887 ppm
Concentration per Run 3	0.1241 ppm	1.4746 ppm	0.9276 ppm	1.0122 ppm	0.9628 ppm	0.1173 ppm	0.4917 ppm
Concentration RSD	2.0 %	0.9 %	0.6 %	0.3 %	1.1 %	0.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4822 ppm	88.7771 %	95.3037 %	86.2075 %	95.3725 %	98.7747 %	95.2889 %
Concentration per Run 1	0.4780 ppm	88.8744 %	95.0329 %	85.8594 %	95.0019 %	98.1812 %	94.8720 %
Concentration per Run 2	0.4844 ppm	88.9833 %	95.0725 %	86.6731 %	95.6508 %	98.6467 %	95.6746 %
Concentration per Run 3	0.4842 ppm	88.4737 %	95.8057 %	86.0901 %	95.4649 %	99.4962 %	95.3202 %
Concentration RSD	0.8 %	0.3 %	0.5 %	0.5 %	0.4 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935099-4 WG1935099
Analysis started at: 6/17/2024 11:36:51 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0120 ppm	0.0011 ppm	0.0064 ppm	0.2219 ppm	0.0000 ppm	59.6293 ppm
Concentration per Run 1	-0.0008 ppm	-0.0051 ppm	0.0015 ppm	0.0057 ppm	0.2220 ppm	0.0000 ppm	59.5586 ppm
Concentration per Run 2	-0.0001 ppm	-0.0098 ppm	-0.0009 ppm	0.0066 ppm	0.2218 ppm	0.0000 ppm	59.6577 ppm
Concentration per Run 3	-0.0003 ppm	-0.0209 ppm	0.0027 ppm	0.0071 ppm	0.2219 ppm	0.0000 ppm	59.6716 ppm
Concentration RSD	83.5 %	68.0 %	165.5 %	11.2 %	0.0 %	318.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0008 ppm	0.0007 ppm	0.0363 ppm	0.6149 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0008 ppm	0.0007 ppm	0.0352 ppm	0.6102 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0008 ppm	0.0373 ppm	0.6396 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0009 ppm	0.0006 ppm	0.0364 ppm	0.5948 ppm	0.0028 ppm
Concentration RSD	140.9 %	35.6 %	21.0 %	12.0 %	2.9 %	3.7 %	60.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7359 ppm	1.3736 ppm	0.0030 ppm	136.7059 ppm	0.0015 ppm	0.0011 ppm	-0.0033 ppm
Concentration per Run 1	0.7348 ppm	1.3761 ppm	0.0030 ppm	136.8776 ppm	0.0011 ppm	0.0025 ppm	-0.0041 ppm
Concentration per Run 2	0.7350 ppm	1.3780 ppm	0.0030 ppm	136.4607 ppm	0.0015 ppm	-0.0001 ppm	-0.0030 ppm
Concentration per Run 3	0.7379 ppm	1.3668 ppm	0.0031 ppm	136.7793 ppm	0.0019 ppm	0.0008 ppm	-0.0028 ppm
Concentration RSD	0.2 %	0.4 %	3.5 %	0.2 %	24.5 %	121.6 %	20.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.3085 ppm	0.0027 ppm	0.0940 ppm	-0.0003 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 1	-0.0021 ppm	0.3024 ppm	0.0024 ppm	0.0945 ppm	-0.0003 ppm	-0.0024 ppm	-0.0002 ppm
Concentration per Run 2	-0.0003 ppm	0.3111 ppm	0.0038 ppm	0.0932 ppm	-0.0003 ppm	-0.0025 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.3122 ppm	0.0018 ppm	0.0942 ppm	-0.0004 ppm	-0.0019 ppm	0.0001 ppm
Concentration RSD	145.4 %	1.7 %	38.3 %	0.7 %	27.5 %	14.4 %	275.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	89.1822 %	96.2801 %	88.1271 %	96.2502 %	99.9496 %	96.1870 %
Concentration per Run 1	0.0019 ppm	89.3141 %	95.7324 %	88.7284 %	95.8920 %	99.1694 %	96.3969 %
Concentration per Run 2	0.0019 ppm	89.3907 %	95.9746 %	87.5046 %	96.6676 %	99.5985 %	95.6937 %
Concentration per Run 3	0.0020 ppm	88.8419 %	97.1332 %	88.1483 %	96.1910 %	101.0810 %	96.4703 %
Concentration RSD	3.9 %	0.3 %	0.8 %	0.7 %	0.4 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433784-01 WG1935099
Analysis started at: 6/17/2024 11:40:50 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0345 ppm	0.0003 ppm	0.0111 ppm	0.0550 ppm	0.0001 ppm	43.7194 ppm
Concentration per Run 1	0.0000 ppm	0.0360 ppm	0.0009 ppm	0.0106 ppm	0.0549 ppm	0.0000 ppm	43.8289 ppm
Concentration per Run 2	-0.0001 ppm	0.0267 ppm	0.0012 ppm	0.0116 ppm	0.0551 ppm	0.0000 ppm	43.5985 ppm
Concentration per Run 3	0.0002 ppm	0.0409 ppm	-0.0012 ppm	0.0110 ppm	0.0549 ppm	0.0001 ppm	43.7307 ppm
Concentration RSD	640.2 %	20.9 %	495.7 %	4.7 %	0.2 %	69.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.0026 ppm	0.0008 ppm	0.0142 ppm	0.0629 ppm	0.7330 ppm	0.0002 ppm
Concentration per Run 1	0.0026 ppm	0.0024 ppm	0.0013 ppm	0.0140 ppm	0.0634 ppm	0.7566 ppm	0.0016 ppm
Concentration per Run 2	0.0024 ppm	0.0028 ppm	0.0007 ppm	0.0146 ppm	0.0613 ppm	0.7304 ppm	0.0000 ppm
Concentration per Run 3	0.0024 ppm	0.0025 ppm	0.0004 ppm	0.0140 ppm	0.0641 ppm	0.7120 ppm	-0.0009 ppm
Concentration RSD	3.1 %	8.6 %	53.4 %	2.5 %	2.3 %	3.1 %	512.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.3686 ppm	0.2258 ppm	0.0007 ppm	137.4462 ppm	0.0118 ppm	0.3009 ppm	0.0055 ppm
Concentration per Run 1	1.3610 ppm	0.2261 ppm	0.0000 ppm	137.8263 ppm	0.0116 ppm	0.2997 ppm	0.0040 ppm
Concentration per Run 2	1.3664 ppm	0.2253 ppm	0.0011 ppm	136.8803 ppm	0.0116 ppm	0.3016 ppm	0.0068 ppm
Concentration per Run 3	1.3785 ppm	0.2261 ppm	0.0011 ppm	137.6318 ppm	0.0122 ppm	0.3014 ppm	0.0056 ppm
Concentration RSD	0.7 %	0.2 %	89.4 %	0.4 %	2.9 %	0.4 %	25.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	1.7672 ppm	0.0018 ppm	0.1341 ppm	0.0002 ppm	-0.0015 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	1.7495 ppm	0.0019 ppm	0.1342 ppm	0.0003 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0011 ppm	1.7766 ppm	0.0024 ppm	0.1340 ppm	0.0000 ppm	-0.0022 ppm	-0.0004 ppm
Concentration per Run 3	0.0008 ppm	1.7755 ppm	0.0009 ppm	0.1341 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm
Concentration RSD	371.0 %	0.9 %	42.4 %	0.1 %	67.0 %	64.4 %	80.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2647 ppm	89.1210 %	95.3588 %	88.2771 %	94.9936 %	97.8838 %	95.3131 %
Concentration per Run 1	0.2643 ppm	89.2365 %	95.1344 %	88.6698 %	94.6254 %	97.6916 %	95.5275 %
Concentration per Run 2	0.2635 ppm	89.4017 %	95.6959 %	87.9451 %	95.3100 %	98.1026 %	94.7843 %
Concentration per Run 3	0.2662 ppm	88.7248 %	95.2462 %	88.2164 %	95.0456 %	97.8574 %	95.6276 %
Concentration RSD	0.5 %	0.4 %	0.3 %	0.4 %	0.4 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433784-02 WG1935099
Analysis started at: 6/17/2024 11:44:48 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0236 ppm	0.0009 ppm	0.0116 ppm	0.1780 ppm	0.0000 ppm	49.1860 ppm
Concentration per Run 1	0.0001 ppm	0.0349 ppm	0.0009 ppm	0.0098 ppm	0.1784 ppm	0.0000 ppm	49.0888 ppm
Concentration per Run 2	0.0000 ppm	0.0146 ppm	-0.0001 ppm	0.0135 ppm	0.1774 ppm	0.0000 ppm	49.3401 ppm
Concentration per Run 3	0.0010 ppm	0.0213 ppm	0.0018 ppm	0.0115 ppm	0.1783 ppm	0.0001 ppm	49.1291 ppm
Concentration RSD	156.2 %	44.0 %	107.6 %	16.0 %	0.3 %	131.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0031 ppm	0.0007 ppm	0.0166 ppm	0.0594 ppm	0.7877 ppm	0.0028 ppm
Concentration per Run 1	0.0021 ppm	0.0030 ppm	0.0005 ppm	0.0165 ppm	0.0601 ppm	0.8125 ppm	0.0023 ppm
Concentration per Run 2	0.0022 ppm	0.0031 ppm	0.0007 ppm	0.0168 ppm	0.0594 ppm	0.7896 ppm	0.0024 ppm
Concentration per Run 3	0.0022 ppm	0.0033 ppm	0.0009 ppm	0.0165 ppm	0.0587 ppm	0.7611 ppm	0.0037 ppm
Concentration RSD	2.3 %	4.9 %	29.3 %	1.1 %	1.2 %	3.3 %	26.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.3816 ppm	0.2521 ppm	0.0002 ppm	137.0653 ppm	0.0152 ppm	0.0750 ppm	-0.0007 ppm
Concentration per Run 1	1.3751 ppm	0.2518 ppm	-0.0002 ppm	137.0074 ppm	0.0148 ppm	0.0765 ppm	0.0002 ppm
Concentration per Run 2	1.3812 ppm	0.2522 ppm	0.0001 ppm	137.1188 ppm	0.0159 ppm	0.0745 ppm	-0.0010 ppm
Concentration per Run 3	1.3884 ppm	0.2524 ppm	0.0006 ppm	137.0698 ppm	0.0150 ppm	0.0741 ppm	-0.0014 ppm
Concentration RSD	0.5 %	0.1 %	259.2 %	0.0 %	3.8 %	1.7 %	114.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	1.9556 ppm	0.0019 ppm	0.1518 ppm	-0.0001 ppm	-0.0030 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	1.9540 ppm	0.0025 ppm	0.1520 ppm	-0.0001 ppm	-0.0035 ppm	-0.0001 ppm
Concentration per Run 2	0.0011 ppm	1.9528 ppm	0.0018 ppm	0.1513 ppm	-0.0002 ppm	-0.0040 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	1.9599 ppm	0.0014 ppm	0.1521 ppm	0.0000 ppm	-0.0015 ppm	-0.0001 ppm
Concentration RSD	140.0 %	0.2 %	30.5 %	0.3 %	67.1 %	43.9 %	3.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2765 ppm	88.3525 %	95.3955 %	87.7166 %	94.2586 %	97.8724 %	94.8089 %
Concentration per Run 1	0.2745 ppm	88.7276 %	95.5826 %	87.7141 %	94.0637 %	98.2007 %	94.9456 %
Concentration per Run 2	0.2775 ppm	88.4506 %	94.9682 %	87.9871 %	94.3214 %	97.8041 %	94.9038 %
Concentration per Run 3	0.2775 ppm	87.8794 %	95.6358 %	87.4486 %	94.3906 %	97.6124 %	94.5773 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.3 %	0.2 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433791-01 WG1935099
Analysis started at: 6/17/2024 11:48:47 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0442 ppm	-0.0007 ppm	0.0113 ppm	0.1281 ppm	0.0000 ppm	42.0139 ppm
Concentration per Run 1	0.0002 ppm	0.0382 ppm	-0.0010 ppm	0.0124 ppm	0.1267 ppm	0.0000 ppm	42.0125 ppm
Concentration per Run 2	-0.0001 ppm	0.0453 ppm	0.0002 ppm	0.0096 ppm	0.1287 ppm	0.0000 ppm	41.9792 ppm
Concentration per Run 3	0.0007 ppm	0.0492 ppm	-0.0012 ppm	0.0119 ppm	0.1287 ppm	0.0000 ppm	42.0502 ppm
Concentration RSD	132.3 %	12.7 %	115.7 %	13.1 %	0.9 %	625.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0032 ppm	0.0006 ppm	0.0168 ppm	0.0511 ppm	0.6965 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	0.0026 ppm	0.0004 ppm	0.0169 ppm	0.0515 ppm	0.7128 ppm	-0.0005 ppm
Concentration per Run 2	0.0017 ppm	0.0036 ppm	0.0008 ppm	0.0169 ppm	0.0502 ppm	0.6926 ppm	0.0011 ppm
Concentration per Run 3	0.0015 ppm	0.0035 ppm	0.0007 ppm	0.0165 ppm	0.0517 ppm	0.6842 ppm	-0.0009 ppm
Concentration RSD	7.6 %	16.5 %	37.5 %	1.4 %	1.6 %	2.1 %	898.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4079 ppm	0.2774 ppm	0.0001 ppm	136.7329 ppm	0.0123 ppm	0.2411 ppm	0.0068 ppm
Concentration per Run 1	1.3936 ppm	0.2760 ppm	0.0000 ppm	136.6669 ppm	0.0129 ppm	0.2415 ppm	0.0080 ppm
Concentration per Run 2	1.4082 ppm	0.2783 ppm	0.0000 ppm	136.3500 ppm	0.0124 ppm	0.2418 ppm	0.0077 ppm
Concentration per Run 3	1.4219 ppm	0.2778 ppm	0.0004 ppm	137.1819 ppm	0.0118 ppm	0.2400 ppm	0.0049 ppm
Concentration RSD	1.0 %	0.4 %	227.7 %	0.3 %	4.2 %	0.4 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	1.8403 ppm	0.0008 ppm	0.1276 ppm	0.0003 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 1	-0.0012 ppm	1.8378 ppm	0.0009 ppm	0.1271 ppm	0.0002 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0004 ppm	1.8404 ppm	0.0007 ppm	0.1274 ppm	0.0003 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 3	0.0028 ppm	1.8426 ppm	0.0008 ppm	0.1283 ppm	0.0002 ppm	-0.0027 ppm	-0.0001 ppm
Concentration RSD	298.3 %	0.1 %	14.4 %	0.5 %	29.0 %	82.4 %	139.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2574 ppm	89.1432 %	96.3850 %	88.1913 %	95.4556 %	98.6079 %	95.2911 %
Concentration per Run 1	0.2567 ppm	89.7234 %	96.0244 %	88.3425 %	95.9812 %	98.5652 %	95.2792 %
Concentration per Run 2	0.2577 ppm	89.2493 %	96.6223 %	87.8867 %	95.5056 %	98.7585 %	95.0664 %
Concentration per Run 3	0.2579 ppm	88.4568 %	96.5083 %	88.3447 %	94.8800 %	98.4999 %	95.5277 %
Concentration RSD	0.3 %	0.7 %	0.3 %	0.3 %	0.6 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433791-02 WG1935099
Analysis started at: 6/17/2024 11:52:42 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0093 ppm	0.0008 ppm	0.0124 ppm	0.0697 ppm	0.0000 ppm	70.2701 ppm
Concentration per Run 1	0.0002 ppm	0.0091 ppm	0.0001 ppm	0.0119 ppm	0.0695 ppm	0.0000 ppm	70.1952 ppm
Concentration per Run 2	0.0000 ppm	0.0099 ppm	0.0015 ppm	0.0118 ppm	0.0699 ppm	0.0000 ppm	70.2945 ppm
Concentration per Run 3	0.0005 ppm	0.0088 ppm	0.0008 ppm	0.0134 ppm	0.0696 ppm	0.0000 ppm	70.3206 ppm
Concentration RSD	118.9 %	6.1 %	92.7 %	7.3 %	0.3 %	254.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0018 ppm	0.0008 ppm	0.0093 ppm	0.0188 ppm	0.9096 ppm	0.0018 ppm
Concentration per Run 1	0.0007 ppm	0.0017 ppm	0.0010 ppm	0.0091 ppm	0.0188 ppm	0.9384 ppm	0.0015 ppm
Concentration per Run 2	0.0008 ppm	0.0017 ppm	0.0008 ppm	0.0095 ppm	0.0183 ppm	0.8857 ppm	0.0033 ppm
Concentration per Run 3	0.0009 ppm	0.0021 ppm	0.0007 ppm	0.0093 ppm	0.0193 ppm	0.9047 ppm	0.0006 ppm
Concentration RSD	10.8 %	13.6 %	12.6 %	2.3 %	2.5 %	2.9 %	78.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7756 ppm	0.2003 ppm	0.0003 ppm	137.0603 ppm	0.0280 ppm	0.0170 ppm	0.0025 ppm
Concentration per Run 1	1.7621 ppm	0.2003 ppm	0.0004 ppm	136.8313 ppm	0.0273 ppm	0.0176 ppm	0.0004 ppm
Concentration per Run 2	1.7827 ppm	0.2002 ppm	0.0006 ppm	137.0800 ppm	0.0279 ppm	0.0174 ppm	0.0026 ppm
Concentration per Run 3	1.7818 ppm	0.2004 ppm	0.0000 ppm	137.2697 ppm	0.0290 ppm	0.0161 ppm	0.0044 ppm
Concentration RSD	0.7 %	0.1 %	102.6 %	0.2 %	3.1 %	4.6 %	81.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	2.7422 ppm	0.0016 ppm	0.1692 ppm	0.0002 ppm	-0.0029 ppm	0.0001 ppm
Concentration per Run 1	-0.0040 ppm	2.7164 ppm	0.0009 ppm	0.1689 ppm	0.0000 ppm	-0.0045 ppm	0.0002 ppm
Concentration per Run 2	0.0008 ppm	2.7665 ppm	0.0016 ppm	0.1691 ppm	0.0002 ppm	-0.0018 ppm	0.0003 ppm
Concentration per Run 3	0.0010 ppm	2.7436 ppm	0.0021 ppm	0.1696 ppm	0.0005 ppm	-0.0024 ppm	-0.0001 ppm
Concentration RSD	377.0 %	0.9 %	39.0 %	0.2 %	99.0 %	49.6 %	144.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0843 ppm	89.1345 %	95.3610 %	87.4817 %	95.1837 %	97.7943 %	94.3461 %
Concentration per Run 1	0.0834 ppm	89.5959 %	96.0235 %	87.2905 %	95.3070 %	98.7849 %	94.2688 %
Concentration per Run 2	0.0848 ppm	88.7715 %	95.2259 %	87.2873 %	94.8756 %	97.1876 %	94.0601 %
Concentration per Run 3	0.0847 ppm	89.0360 %	94.8335 %	87.8674 %	95.3687 %	97.4103 %	94.7093 %
Concentration RSD	1.0 %	0.5 %	0.6 %	0.4 %	0.3 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 11:56:37 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4966 ppm	0.4752 ppm	0.4792 ppm	0.4982 ppm	0.5006 ppm	0.5130 ppm	0.4941 ppm
Concentration per Run 1	0.4942 ppm	0.4713 ppm	0.4767 ppm	0.4955 ppm	0.4980 ppm	0.5116 ppm	0.4966 ppm
Concentration per Run 2	0.4969 ppm	0.4829 ppm	0.4814 ppm	0.4955 ppm	0.5014 ppm	0.5153 ppm	0.4918 ppm
Concentration per Run 3	0.4988 ppm	0.4715 ppm	0.4796 ppm	0.5037 ppm	0.5026 ppm	0.5120 ppm	0.4938 ppm
Recovery Percentage 1	99.326 %	95.048 %	95.848 %	99.642 %	100.129 %	102.595 %	98.814 %
Concentration RSD	0.5 %	1.4 %	0.5 %	0.9 %	0.5 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5049 ppm	0.5144 ppm	0.4968 ppm	0.4896 ppm	0.5119 ppm	5.0951 ppm	0.6150 ppm
Concentration per Run 1	0.5020 ppm	0.5138 ppm	0.4952 ppm	0.4875 ppm	0.5112 ppm	5.1405 ppm	0.6179 ppm
Concentration per Run 2	0.5054 ppm	0.5147 ppm	0.4978 ppm	0.4894 ppm	0.5129 ppm	5.0603 ppm	0.6133 ppm
Concentration per Run 3	0.5073 ppm	0.5146 ppm	0.4976 ppm	0.4919 ppm	0.5116 ppm	5.0844 ppm	0.6137 ppm
Recovery Percentage 1	100.981 %	102.879 %	99.369 %	97.916 %	102.379 %	101.901 %	122.994 %
Concentration RSD	0.5 %	0.1 %	0.3 %	0.4 %	0.2 %	0.8 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4938 ppm	0.4946 ppm	0.5039 ppm	10.1897 ppm	0.5121 ppm	0.4944 ppm	0.5021 ppm
Concentration per Run 1	0.4939 ppm	0.4939 ppm	0.4951 ppm	10.1592 ppm	0.5088 ppm	0.4951 ppm	0.4951 ppm
Concentration per Run 2	0.4944 ppm	0.4944 ppm	0.5056 ppm	10.2197 ppm	0.5110 ppm	0.4938 ppm	0.4997 ppm
Concentration per Run 3	0.4931 ppm	0.4956 ppm	0.5111 ppm	10.1901 ppm	0.5167 ppm	0.4943 ppm	0.5113 ppm
Recovery Percentage 1	98.763 %	98.927 %	100.781 %	101.897 %	102.429 %	98.883 %	100.411 %
Concentration RSD	0.1 %	0.2 %	1.6 %	0.3 %	0.8 %	0.1 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4858 ppm	5.5531 ppm	0.4956 ppm	0.4951 ppm	0.5034 ppm	0.4839 ppm	0.4953 ppm
Concentration per Run 1	0.4836 ppm	5.5250 ppm	0.4956 ppm	0.4954 ppm	0.5016 ppm	0.4829 ppm	0.4945 ppm
Concentration per Run 2	0.4867 ppm	5.5598 ppm	0.4979 ppm	0.4960 ppm	0.5034 ppm	0.4824 ppm	0.4953 ppm
Concentration per Run 3	0.4872 ppm	5.5746 ppm	0.4931 ppm	0.4938 ppm	0.5052 ppm	0.4865 ppm	0.4962 ppm
Recovery Percentage 1	97.164 %	105.773 %	99.110 %	99.011 %	100.684 %	96.787 %	99.067 %
Concentration RSD	0.4 %	0.5 %	0.5 %	0.2 %	0.4 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5149 ppm	91.3211 %	100.0783 %	93.5729 %	98.8562 %	103.0160 %	99.8873 %
Concentration per Run 1	0.5137 ppm	91.6214 %	99.9016 %	93.8657 %	98.7671 %	102.8671 %	100.5667 %
Concentration per Run 2	0.5148 ppm	91.1422 %	100.3716 %	93.3857 %	98.6676 %	103.6002 %	99.5778 %
Concentration per Run 3	0.5162 ppm	91.1998 %	99.9618 %	93.4673 %	99.1339 %	102.5806 %	99.5175 %
Recovery Percentage 1	102.983 %						
Concentration RSD	0.2 %	0.3 %	0.3 %	0.3 %	0.2 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 12:00:33 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0119 ppm	-0.0011 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 1	0.0005 ppm	-0.0204 ppm	0.0006 ppm	0.0028 ppm	-0.0001 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 2	0.0006 ppm	-0.0059 ppm	-0.0021 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 3	-0.0004 ppm	-0.0094 ppm	-0.0017 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	2.942 %	-11.890 %	-35.882 %	4.268 %	-0.657 %	-0.096 %	2.261 %
Concentration RSD	262.8 %	63.4 %	136.7 %	103.1 %	231.1 %	234.0 %	65.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0125 ppm	0.0109 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0126 ppm	-0.0115 ppm	-0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0012 ppm	0.0117 ppm	-0.0050 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0132 ppm	0.0490 ppm	0.0009 ppm
Recovery Percentage 1	-0.471 %	-0.528 %	0.846 %	10.365 %	24.977 %	0.434 %	-5.976 %
Concentration RSD	81.9 %	288.1 %	279.4 %	46.3 %	6.4 %	305.7 %	439.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0001 ppm	0.0013 ppm	0.0393 ppm	-0.0002 ppm	0.0002 ppm	-0.0035 ppm
Concentration per Run 1	-0.0020 ppm	0.0001 ppm	0.0016 ppm	0.0306 ppm	-0.0014 ppm	0.0012 ppm	-0.0030 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0440 ppm	0.0009 ppm	-0.0003 ppm	-0.0035 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0018 ppm	0.0435 ppm	-0.0001 ppm	-0.0003 ppm	-0.0040 ppm
Recovery Percentage 1	-0.849 %	0.896 %	2.655 %	1.967 %	-0.836 %	2.282 %	-6.943 %
Concentration RSD	116.5 %	58.3 %	50.5 %	19.2 %	564.6 %	376.3 %	14.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	-0.0075 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0011 ppm	-0.0078 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	-0.0089 ppm	0.0011 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0023 ppm	-0.0059 ppm	0.0005 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	-12.190 %	-1.508 %	0.846 %	-1.110 %	-1.647 %	-1.634 %	-1.854 %
Concentration RSD	88.6 %	20.4 %	162.8 %	22.3 %	42.0 %	275.6 %	28.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	84.6451 %	95.7152 %	89.4906 %	100.2108 %	104.3979 %	101.7125 %
Concentration per Run 1	0.0008 ppm	84.2392 %	95.3026 %	89.5824 %	100.3149 %	104.3374 %	102.1966 %
Concentration per Run 2	0.0007 ppm	84.5725 %	96.3227 %	89.3759 %	100.1944 %	104.8704 %	101.4852 %
Concentration per Run 3	0.0008 ppm	85.1235 %	95.5203 %	89.5134 %	100.1232 %	103.9858 %	101.4558 %
Recovery Percentage 1	14.885 %						
Concentration RSD	3.9 %	0.5 %	0.6 %	0.1 %	0.1 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934595-1 WG1934595
Analysis started at: 6/17/2024 12:47:08 PM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0041 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0239 ppm
Concentration per Run 1	0.0000 ppm	0.0030 ppm	0.0012 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0234 ppm
Concentration per Run 2	0.0003 ppm	0.0121 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0248 ppm
Concentration per Run 3	0.0001 ppm	-0.0027 ppm	-0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0236 ppm
Recovery Percentage 1	2.078 %	4.137 %	17.337 %	-0.343 %	1.542 %	0.237 %	23.937 %
Concentration RSD	112.8 %	181.2 %	134.6 %	503.3 %	53.7 %	474.1 %	3.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	-0.0001 ppm	0.0351 ppm	0.0062 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	-0.0003 ppm	0.0348 ppm	-0.0071 ppm	-0.0012 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0349 ppm	0.0144 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0003 ppm	-0.0001 ppm	0.0356 ppm	0.0114 ppm	0.0011 ppm
Recovery Percentage 1	-1.730 %	-1.510 %	5.065 %	-0.825 %	70.168 %	0.250 %	0.723 %
Concentration RSD	49.4 %	45.7 %	37.2 %	246.0 %	1.2 %	186.6 %	1,623.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0087 ppm	0.0008 ppm	0.0003 ppm	0.0321 ppm	-0.0006 ppm	0.0007 ppm	-0.0021 ppm
Concentration per Run 1	0.0100 ppm	0.0008 ppm	0.0001 ppm	0.0310 ppm	-0.0001 ppm	0.0010 ppm	-0.0010 ppm
Concentration per Run 2	0.0085 ppm	0.0009 ppm	0.0008 ppm	0.0353 ppm	-0.0011 ppm	0.0001 ppm	-0.0021 ppm
Concentration per Run 3	0.0077 ppm	0.0009 ppm	-0.0001 ppm	0.0301 ppm	-0.0007 ppm	0.0008 ppm	-0.0031 ppm
Recovery Percentage 1	8.741 %	8.319 %	0.554 %	1.605 %	-2.543 %	6.595 %	-4.127 %
Concentration RSD	12.9 %	7.8 %	176.2 %	8.7 %	80.2 %	70.6 %	50.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	0.0061 ppm	0.0008 ppm	0.0001 ppm	0.0014 ppm	-0.0012 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0116 ppm	0.0018 ppm	0.0000 ppm	0.0015 ppm	-0.0018 ppm	-0.0004 ppm
Concentration per Run 2	-0.0005 ppm	0.0034 ppm	0.0008 ppm	0.0002 ppm	0.0014 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0024 ppm	0.0033 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	-0.0020 ppm	-0.0003 ppm
Recovery Percentage 1	6.728 %	1.221 %	1.571 %	0.657 %	14.473 %	-6.029 %	-2.977 %
Concentration RSD	229.0 %	77.7 %	122.6 %	167.3 %	5.4 %	100.4 %	32.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	111.2060 %	103.1936 %	104.0910 %	101.6579 %	101.3471 %	101.3633 %
Concentration per Run 1	0.0007 ppm	115.1466 %	104.8685 %	105.7714 %	101.5248 %	102.3804 %	101.7211 %
Concentration per Run 2	0.0007 ppm	110.8985 %	102.2818 %	103.7158 %	101.7822 %	100.3208 %	100.8999 %
Concentration per Run 3	0.0008 ppm	107.5728 %	102.4305 %	102.7858 %	101.6668 %	101.3401 %	101.4689 %
Recovery Percentage 1	14.232 %						
Concentration RSD	7.1 %	3.4 %	1.4 %	1.5 %	0.1 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934595-2D2 WG1934595
Analysis started at: 6/17/2024 12:51:16 PM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0496 ppm	1.9631 ppm	0.1197 ppm	0.9883 ppm	1.9779 ppm	0.0508 ppm	10.1169 ppm
Concentration per Run 1	0.0491 ppm	1.9676 ppm	0.1189 ppm	0.9813 ppm	1.9676 ppm	0.0508 ppm	10.1205 ppm
Concentration per Run 2	0.0499 ppm	1.9653 ppm	0.1214 ppm	0.9884 ppm	1.9762 ppm	0.0507 ppm	10.1526 ppm
Concentration per Run 3	0.0497 ppm	1.9566 ppm	0.1187 ppm	0.9952 ppm	1.9898 ppm	0.0509 ppm	10.0776 ppm
Concentration RSD	0.9 %	0.3 %	1.2 %	0.7 %	0.6 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0531 ppm	0.4935 ppm	0.1962 ppm	0.2467 ppm	1.0318 ppm	10.3877 ppm	-0.0008 ppm
Concentration per Run 1	0.0527 ppm	0.4880 ppm	0.1952 ppm	0.2448 ppm	1.0350 ppm	10.3771 ppm	0.0002 ppm
Concentration per Run 2	0.0530 ppm	0.4950 ppm	0.1953 ppm	0.2480 ppm	1.0263 ppm	10.4076 ppm	-0.0007 ppm
Concentration per Run 3	0.0537 ppm	0.4975 ppm	0.1981 ppm	0.2472 ppm	1.0340 ppm	10.3784 ppm	-0.0019 ppm
Concentration RSD	1.0 %	1.0 %	0.9 %	0.7 %	0.5 %	0.2 %	132.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8604 ppm	0.4992 ppm	1.0218 ppm	10.4731 ppm	0.4990 ppm	0.5411 ppm	0.5132 ppm
Concentration per Run 1	9.8258 ppm	0.5002 ppm	0.9974 ppm	10.5025 ppm	0.4969 ppm	0.5413 ppm	0.5011 ppm
Concentration per Run 2	9.8393 ppm	0.4993 ppm	1.0255 ppm	10.4822 ppm	0.4977 ppm	0.5412 ppm	0.5211 ppm
Concentration per Run 3	9.9160 ppm	0.4981 ppm	1.0424 ppm	10.4345 ppm	0.5023 ppm	0.5409 ppm	0.5175 ppm
Concentration RSD	0.5 %	0.2 %	2.2 %	0.3 %	0.6 %	0.0 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1164 ppm	1.0351 ppm	1.0015 ppm	0.9825 ppm	1.0145 ppm	0.1174 ppm	0.4960 ppm
Concentration per Run 1	0.1148 ppm	1.0247 ppm	0.9950 ppm	0.9838 ppm	1.0090 ppm	0.1168 ppm	0.4920 ppm
Concentration per Run 2	0.1162 ppm	1.0371 ppm	1.0034 ppm	0.9817 ppm	1.0135 ppm	0.1172 ppm	0.4969 ppm
Concentration per Run 3	0.1182 ppm	1.0434 ppm	1.0062 ppm	0.9820 ppm	1.0210 ppm	0.1182 ppm	0.4992 ppm
Concentration RSD	1.5 %	0.9 %	0.6 %	0.1 %	0.6 %	0.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5034 ppm	91.0982 %	98.7950 %	90.3498 %	96.7394 %	101.0300 %	96.4656 %
Concentration per Run 1	0.5000 ppm	91.4339 %	98.2138 %	90.1418 %	96.5633 %	100.6632 %	95.9248 %
Concentration per Run 2	0.5021 ppm	91.1931 %	99.8095 %	90.3655 %	96.9711 %	102.1462 %	96.5586 %
Concentration per Run 3	0.5082 ppm	90.6675 %	98.3617 %	90.5422 %	96.6838 %	100.2805 %	96.9135 %
Concentration RSD	0.8 %	0.4 %	0.9 %	0.2 %	0.2 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432632-02D2 WG1934595
Analysis started at: 6/17/2024 12:55:12 PM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	42.8760 ppm	0.0541 ppm	0.0015 ppm	0.1655 ppm	0.0022 ppm	1.4292 ppm
Concentration per Run 1	0.0000 ppm	42.4787 ppm	0.0554 ppm	0.0028 ppm	0.1659 ppm	0.0022 ppm	1.4253 ppm
Concentration per Run 2	-0.0001 ppm	42.9150 ppm	0.0537 ppm	-0.0003 ppm	0.1648 ppm	0.0022 ppm	1.4254 ppm
Concentration per Run 3	0.0001 ppm	43.2344 ppm	0.0533 ppm	0.0020 ppm	0.1657 ppm	0.0021 ppm	1.4368 ppm
Concentration RSD	608.7 %	0.9 %	2.1 %	105.3 %	0.4 %	3.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0299 ppm	0.0682 ppm	0.0732 ppm	113.9371 ppm	10.4109 ppm	0.0586 ppm
Concentration per Run 1	0.0003 ppm	0.0295 ppm	0.0677 ppm	0.0731 ppm	114.2380 ppm	10.4333 ppm	0.0605 ppm
Concentration per Run 2	0.0001 ppm	0.0300 ppm	0.0684 ppm	0.0732 ppm	113.4916 ppm	10.3849 ppm	0.0564 ppm
Concentration per Run 3	0.0002 ppm	0.0303 ppm	0.0684 ppm	0.0735 ppm	114.0816 ppm	10.4145 ppm	0.0589 ppm
Concentration RSD	42.8 %	1.4 %	0.6 %	0.3 %	0.3 %	0.2 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.2990 ppm	1.0657 ppm	0.0084 ppm	1.2061 ppm	0.0512 ppm	0.0450 ppm	-0.0002 ppm
Concentration per Run 1	15.2633 ppm	1.0574 ppm	0.0085 ppm	1.2032 ppm	0.0514 ppm	0.0447 ppm	0.0003 ppm
Concentration per Run 2	15.3176 ppm	1.0678 ppm	0.0084 ppm	1.2093 ppm	0.0508 ppm	0.0449 ppm	-0.0010 ppm
Concentration per Run 3	15.3160 ppm	1.0719 ppm	0.0081 ppm	1.2058 ppm	0.0514 ppm	0.0454 ppm	0.0002 ppm
Concentration RSD	0.2 %	0.7 %	2.3 %	0.3 %	0.7 %	0.8 %	434.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	0.9992 ppm	0.0018 ppm	0.0098 ppm	2.4143 ppm	-0.0008 ppm	0.1106 ppm
Concentration per Run 1	-0.0002 ppm	0.9960 ppm	0.0019 ppm	0.0098 ppm	2.4067 ppm	-0.0004 ppm	0.1104 ppm
Concentration per Run 2	-0.0026 ppm	0.9960 ppm	0.0015 ppm	0.0097 ppm	2.4163 ppm	-0.0017 ppm	0.1113 ppm
Concentration per Run 3	0.0007 ppm	1.0056 ppm	0.0021 ppm	0.0098 ppm	2.4200 ppm	-0.0002 ppm	0.1099 ppm
Concentration RSD	238.3 %	0.6 %	18.8 %	0.6 %	0.3 %	104.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1753 ppm	94.5554 %	100.2723 %	92.1376 %	104.1218 %	107.8324 %	104.5881 %
Concentration per Run 1	0.1750 ppm	94.5620 %	100.5655 %	92.7586 %	103.6230 %	107.8586 %	105.0501 %
Concentration per Run 2	0.1764 ppm	94.6233 %	100.1010 %	92.1382 %	104.3735 %	107.7522 %	104.4389 %
Concentration per Run 3	0.1744 ppm	94.4809 %	100.1505 %	91.5159 %	104.3688 %	107.8865 %	104.2754 %
Concentration RSD	0.6 %	0.1 %	0.3 %	0.7 %	0.4 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432632-03D2 WG1934595
Analysis started at: 6/17/2024 12:59:10 PM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	96.4415 ppm	0.0466 ppm	0.0032 ppm	0.2467 ppm	0.0041 ppm	2.9932 ppm
Concentration per Run 1	-0.0005 ppm	96.1300 ppm	0.0446 ppm	0.0037 ppm	0.2458 ppm	0.0041 ppm	2.9782 ppm
Concentration per Run 2	-0.0004 ppm	96.6963 ppm	0.0475 ppm	0.0027 ppm	0.2464 ppm	0.0042 ppm	2.9935 ppm
Concentration per Run 3	-0.0005 ppm	96.4982 ppm	0.0476 ppm	0.0031 ppm	0.2479 ppm	0.0041 ppm	3.0077 ppm
Concentration RSD	8.7 %	0.3 %	3.6 %	15.6 %	0.4 %	1.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0261 ppm	0.0778 ppm	0.0788 ppm	115.6164 ppm	6.4313 ppm	0.0664 ppm
Concentration per Run 1	0.0004 ppm	0.0262 ppm	0.0769 ppm	0.0787 ppm	115.3289 ppm	6.4355 ppm	0.0651 ppm
Concentration per Run 2	0.0003 ppm	0.0259 ppm	0.0782 ppm	0.0786 ppm	116.1693 ppm	6.4317 ppm	0.0669 ppm
Concentration per Run 3	0.0004 ppm	0.0263 ppm	0.0785 ppm	0.0792 ppm	115.3509 ppm	6.4266 ppm	0.0672 ppm
Concentration RSD	17.1 %	0.8 %	1.1 %	0.4 %	0.4 %	0.1 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.9125 ppm	2.1225 ppm	0.0043 ppm	3.7223 ppm	0.0525 ppm	0.1976 ppm	0.0004 ppm
Concentration per Run 1	11.8407 ppm	2.1180 ppm	0.0046 ppm	3.6966 ppm	0.0525 ppm	0.1967 ppm	-0.0009 ppm
Concentration per Run 2	11.9434 ppm	2.1277 ppm	0.0041 ppm	3.7346 ppm	0.0525 ppm	0.1979 ppm	-0.0011 ppm
Concentration per Run 3	11.9533 ppm	2.1219 ppm	0.0041 ppm	3.7357 ppm	0.0525 ppm	0.1983 ppm	0.0034 ppm
Concentration RSD	0.5 %	0.2 %	6.6 %	0.6 %	0.1 %	0.4 %	580.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	5.9378 ppm	0.0048 ppm	0.0199 ppm	3.4388 ppm	-0.0002 ppm	0.1637 ppm
Concentration per Run 1	0.0005 ppm	5.9107 ppm	0.0043 ppm	0.0198 ppm	3.4172 ppm	0.0008 ppm	0.1627 ppm
Concentration per Run 2	0.0019 ppm	5.9284 ppm	0.0054 ppm	0.0199 ppm	3.4450 ppm	-0.0003 ppm	0.1644 ppm
Concentration per Run 3	0.0007 ppm	5.9744 ppm	0.0047 ppm	0.0200 ppm	3.4541 ppm	-0.0010 ppm	0.1641 ppm
Concentration RSD	69.7 %	0.6 %	11.2 %	0.6 %	0.6 %	549.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2100 ppm	94.3629 %	104.1934 %	90.8764 %	106.2792 %	114.2350 %	107.8132 %
Concentration per Run 1	0.2094 ppm	94.6019 %	104.3640 %	91.3142 %	105.6378 %	114.1205 %	108.0135 %
Concentration per Run 2	0.2095 ppm	94.6439 %	103.6072 %	90.8413 %	106.8631 %	113.2833 %	107.7160 %
Concentration per Run 3	0.2110 ppm	93.8429 %	104.6091 %	90.4739 %	106.3369 %	115.3012 %	107.7100 %
Concentration RSD	0.4 %	0.5 %	0.5 %	0.5 %	0.6 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-01D2 WG1934595
Analysis started at: 6/17/2024 1:03:07 PM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	170.9479 ppm	0.2507 ppm	0.0088 ppm	0.5194 ppm	0.0072 ppm	8.0627 ppm
Concentration per Run 1	0.0005 ppm	170.7618 ppm	0.2534 ppm	0.0072 ppm	0.5163 ppm	0.0073 ppm	8.0804 ppm
Concentration per Run 2	0.0003 ppm	170.8110 ppm	0.2464 ppm	0.0086 ppm	0.5204 ppm	0.0072 ppm	8.0588 ppm
Concentration per Run 3	0.0005 ppm	171.2708 ppm	0.2524 ppm	0.0105 ppm	0.5215 ppm	0.0072 ppm	8.0489 ppm
Concentration RSD	18.9 %	0.2 %	1.5 %	18.9 %	0.5 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0568 ppm	0.2047 ppm	0.1430 ppm	213.3166 ppm	5.1306 ppm	0.1090 ppm
Concentration per Run 1	0.0010 ppm	0.0561 ppm	0.2035 ppm	0.1421 ppm	212.9053 ppm	5.1468 ppm	0.1107 ppm
Concentration per Run 2	0.0009 ppm	0.0574 ppm	0.2061 ppm	0.1436 ppm	213.7853 ppm	5.1139 ppm	0.1091 ppm
Concentration per Run 3	0.0010 ppm	0.0568 ppm	0.2043 ppm	0.1433 ppm	213.2591 ppm	5.1310 ppm	0.1071 ppm
Concentration RSD	5.1 %	1.1 %	0.6 %	0.5 %	0.2 %	0.3 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.6829 ppm	2.9767 ppm	0.0144 ppm	0.3405 ppm	0.1233 ppm	0.5699 ppm	0.0090 ppm
Concentration per Run 1	22.5612 ppm	2.9779 ppm	0.0142 ppm	0.3427 ppm	0.1216 ppm	0.5719 ppm	0.0084 ppm
Concentration per Run 2	22.8015 ppm	2.9764 ppm	0.0142 ppm	0.3370 ppm	0.1236 ppm	0.5714 ppm	0.0084 ppm
Concentration per Run 3	22.6859 ppm	2.9759 ppm	0.0147 ppm	0.3417 ppm	0.1246 ppm	0.5663 ppm	0.0103 ppm
Concentration RSD	0.5 %	0.0 %	2.1 %	0.9 %	1.3 %	0.5 %	12.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0061 ppm	1.6411 ppm	0.0118 ppm	0.0849 ppm	1.7850 ppm	0.0042 ppm	0.3242 ppm
Concentration per Run 1	0.0077 ppm	1.6244 ppm	0.0123 ppm	0.0851 ppm	1.7712 ppm	0.0047 ppm	0.3206 ppm
Concentration per Run 2	0.0035 ppm	1.6542 ppm	0.0119 ppm	0.0851 ppm	1.7895 ppm	0.0045 ppm	0.3267 ppm
Concentration per Run 3	0.0070 ppm	1.6448 ppm	0.0111 ppm	0.0845 ppm	1.7944 ppm	0.0035 ppm	0.3254 ppm
Concentration RSD	36.8 %	0.9 %	5.0 %	0.4 %	0.7 %	15.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5544 ppm	97.5169 %	107.0394 %	92.1952 %	133.2196 %	144.4037 %	134.3980 %
Concentration per Run 1	0.5512 ppm	97.5206 %	106.7458 %	91.7124 %	131.6669 %	144.0889 %	133.3907 %
Concentration per Run 2	0.5560 ppm	97.3718 %	107.0572 %	92.5862 %	132.9193 %	144.4383 %	135.2375 %
Concentration per Run 3	0.5560 ppm	97.6584 %	107.3152 %	92.2872 %	135.0726 %	144.6838 %	134.5659 %
Concentration RSD	0.5 %	0.1 %	0.3 %	0.5 %	1.3 %	0.2 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432632-01D2 WG1934595
Analysis started at: 6/17/2024 1:07:06 PM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	63.1813 ppm	0.0407 ppm	0.0035 ppm	0.1643 ppm	0.0027 ppm	3.9316 ppm
Concentration per Run 1	-0.0002 ppm	63.2143 ppm	0.0407 ppm	0.0043 ppm	0.1646 ppm	0.0027 ppm	3.9249 ppm
Concentration per Run 2	-0.0002 ppm	63.0868 ppm	0.0423 ppm	0.0034 ppm	0.1640 ppm	0.0027 ppm	3.9267 ppm
Concentration per Run 3	-0.0006 ppm	63.2428 ppm	0.0392 ppm	0.0029 ppm	0.1642 ppm	0.0027 ppm	3.9431 ppm
Concentration RSD	74.6 %	0.1 %	3.8 %	19.4 %	0.2 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0290 ppm	0.0770 ppm	0.0856 ppm	98.3593 ppm	8.4878 ppm	0.0727 ppm
Concentration per Run 1	0.0002 ppm	0.0292 ppm	0.0765 ppm	0.0860 ppm	98.1130 ppm	8.5096 ppm	0.0758 ppm
Concentration per Run 2	0.0001 ppm	0.0290 ppm	0.0768 ppm	0.0857 ppm	98.5008 ppm	8.5100 ppm	0.0706 ppm
Concentration per Run 3	0.0001 ppm	0.0289 ppm	0.0776 ppm	0.0853 ppm	98.4643 ppm	8.4439 ppm	0.0718 ppm
Concentration RSD	61.9 %	0.5 %	0.7 %	0.4 %	0.2 %	0.4 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3031 ppm	1.2056 ppm	0.0049 ppm	2.0658 ppm	0.0553 ppm	0.1022 ppm	-0.0003 ppm
Concentration per Run 1	15.2947 ppm	1.2033 ppm	0.0050 ppm	2.0597 ppm	0.0551 ppm	0.1010 ppm	0.0004 ppm
Concentration per Run 2	15.2693 ppm	1.2041 ppm	0.0048 ppm	2.0654 ppm	0.0554 ppm	0.1024 ppm	-0.0006 ppm
Concentration per Run 3	15.3452 ppm	1.2093 ppm	0.0048 ppm	2.0722 ppm	0.0554 ppm	0.1032 ppm	-0.0007 ppm
Concentration RSD	0.3 %	0.3 %	2.1 %	0.3 %	0.3 %	1.1 %	198.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.6457 ppm	0.0033 ppm	0.0223 ppm	2.9341 ppm	0.0002 ppm	0.1308 ppm
Concentration per Run 1	0.0010 ppm	3.6493 ppm	0.0035 ppm	0.0222 ppm	2.9304 ppm	0.0004 ppm	0.1308 ppm
Concentration per Run 2	-0.0011 ppm	3.6437 ppm	0.0039 ppm	0.0223 ppm	2.9276 ppm	-0.0016 ppm	0.1306 ppm
Concentration per Run 3	0.0007 ppm	3.6442 ppm	0.0025 ppm	0.0224 ppm	2.9445 ppm	0.0019 ppm	0.1312 ppm
Concentration RSD	543.6 %	0.1 %	21.1 %	0.5 %	0.3 %	715.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1960 ppm	93.6818 %	102.9369 %	91.3052 %	106.5952 %	113.5792 %	107.7624 %
Concentration per Run 1	0.1963 ppm	93.3692 %	103.4826 %	91.7006 %	106.0197 %	113.8693 %	107.9707 %
Concentration per Run 2	0.1948 ppm	93.8407 %	102.6698 %	91.3725 %	106.9748 %	113.2718 %	108.0983 %
Concentration per Run 3	0.1967 ppm	93.8356 %	102.6583 %	90.8424 %	106.7912 %	113.5964 %	107.2181 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.5 %	0.5 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934595-3D2 WG1934595
Analysis started at: 6/17/2024 1:11:02 PM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0476 ppm	61.3459 ppm	0.1574 ppm	0.9258 ppm	2.0836 ppm	0.0525 ppm	13.4585 ppm
Concentration per Run 1	0.0469 ppm	61.4998 ppm	0.1574 ppm	0.9131 ppm	2.0973 ppm	0.0523 ppm	13.4827 ppm
Concentration per Run 2	0.0480 ppm	60.9229 ppm	0.1571 ppm	0.9299 ppm	2.0530 ppm	0.0532 ppm	13.4707 ppm
Concentration per Run 3	0.0478 ppm	61.6151 ppm	0.1577 ppm	0.9343 ppm	2.1004 ppm	0.0521 ppm	13.4220 ppm
Concentration RSD	1.2 %	0.6 %	0.2 %	1.2 %	1.3 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0502 ppm	0.4960 ppm	0.2646 ppm	0.3452 ppm	114.8328 ppm	18.6803 ppm	0.0686 ppm
Concentration per Run 1	0.0498 ppm	0.4914 ppm	0.2610 ppm	0.3400 ppm	114.8586 ppm	18.7986 ppm	0.0704 ppm
Concentration per Run 2	0.0505 ppm	0.4960 ppm	0.2655 ppm	0.3458 ppm	114.9719 ppm	18.4902 ppm	0.0663 ppm
Concentration per Run 3	0.0505 ppm	0.5007 ppm	0.2674 ppm	0.3497 ppm	114.6680 ppm	18.7521 ppm	0.0691 ppm
Concentration RSD	0.8 %	0.9 %	1.2 %	1.4 %	0.1 %	0.9 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.1068 ppm	1.4372 ppm	0.9697 ppm	12.1278 ppm	0.5292 ppm	0.6072 ppm	0.4762 ppm
Concentration per Run 1	22.9286 ppm	1.4364 ppm	0.9402 ppm	12.0363 ppm	0.5214 ppm	0.6090 ppm	0.4719 ppm
Concentration per Run 2	23.0659 ppm	1.4348 ppm	0.9720 ppm	12.2805 ppm	0.5298 ppm	0.6044 ppm	0.4749 ppm
Concentration per Run 3	23.3260 ppm	1.4403 ppm	0.9969 ppm	12.0666 ppm	0.5364 ppm	0.6081 ppm	0.4820 ppm
Concentration RSD	0.9 %	0.2 %	2.9 %	1.1 %	1.4 %	0.4 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1202 ppm	4.4313 ppm	0.8990 ppm	0.9771 ppm	3.9075 ppm	0.1167 ppm	0.5991 ppm
Concentration per Run 1	0.1216 ppm	4.3929 ppm	0.8997 ppm	0.9743 ppm	3.8625 ppm	0.1150 ppm	0.5950 ppm
Concentration per Run 2	0.1206 ppm	4.4310 ppm	0.8966 ppm	0.9885 ppm	3.9129 ppm	0.1179 ppm	0.5989 ppm
Concentration per Run 3	0.1183 ppm	4.4699 ppm	0.9006 ppm	0.9686 ppm	3.9471 ppm	0.1171 ppm	0.6035 ppm
Concentration RSD	1.4 %	0.9 %	0.2 %	1.1 %	1.1 %	1.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6884 ppm	93.9288 %	101.4815 %	88.7860 %	104.8793 %	111.1456 %	105.4876 %
Concentration per Run 1	0.6784 ppm	94.7014 %	102.3652 %	88.7177 %	104.3733 %	111.9346 %	104.9810 %
Concentration per Run 2	0.6897 ppm	94.1291 %	100.4613 %	89.0704 %	105.2627 %	110.5370 %	105.8348 %
Concentration per Run 3	0.6969 ppm	92.9560 %	101.6179 %	88.5698 %	105.0019 %	110.9653 %	105.6468 %
Concentration RSD	1.4 %	0.9 %	0.9 %	0.3 %	0.4 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934595-4D2 WG1934595
Analysis started at: 6/17/2024 1:14:59 PM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	58.8646 ppm	0.0350 ppm	0.0032 ppm	0.1646 ppm	0.0024 ppm	5.4337 ppm
Concentration per Run 1	0.0002 ppm	58.8408 ppm	0.0355 ppm	0.0041 ppm	0.1656 ppm	0.0023 ppm	5.4265 ppm
Concentration per Run 2	0.0001 ppm	58.6774 ppm	0.0341 ppm	0.0014 ppm	0.1638 ppm	0.0024 ppm	5.4198 ppm
Concentration per Run 3	-0.0002 ppm	59.0757 ppm	0.0355 ppm	0.0040 ppm	0.1644 ppm	0.0024 ppm	5.4549 ppm
Concentration RSD	389.3 %	0.3 %	2.3 %	48.0 %	0.6 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0271 ppm	0.0757 ppm	0.0954 ppm	89.6845 ppm	9.3321 ppm	0.0744 ppm
Concentration per Run 1	0.0001 ppm	0.0271 ppm	0.0755 ppm	0.0947 ppm	89.7034 ppm	9.4552 ppm	0.0770 ppm
Concentration per Run 2	0.0002 ppm	0.0266 ppm	0.0760 ppm	0.0955 ppm	89.3320 ppm	9.2537 ppm	0.0740 ppm
Concentration per Run 3	0.0001 ppm	0.0276 ppm	0.0755 ppm	0.0960 ppm	90.0183 ppm	9.2875 ppm	0.0721 ppm
Concentration RSD	32.9 %	1.9 %	0.4 %	0.6 %	0.4 %	1.2 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.2962 ppm	1.0008 ppm	0.0066 ppm	1.9110 ppm	0.0563 ppm	0.0795 ppm	0.0020 ppm
Concentration per Run 1	16.2604 ppm	0.9988 ppm	0.0066 ppm	1.9093 ppm	0.0563 ppm	0.0792 ppm	0.0043 ppm
Concentration per Run 2	16.3276 ppm	0.9997 ppm	0.0063 ppm	1.9002 ppm	0.0562 ppm	0.0787 ppm	0.0050 ppm
Concentration per Run 3	16.3006 ppm	1.0038 ppm	0.0069 ppm	1.9235 ppm	0.0565 ppm	0.0806 ppm	-0.0033 ppm
Concentration RSD	0.2 %	0.3 %	4.7 %	0.6 %	0.3 %	1.2 %	231.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	2.9512 ppm	0.0032 ppm	0.0183 ppm	2.8276 ppm	0.0002 ppm	0.1213 ppm
Concentration per Run 1	0.0008 ppm	2.9456 ppm	0.0031 ppm	0.0182 ppm	2.8245 ppm	0.0028 ppm	0.1214 ppm
Concentration per Run 2	0.0021 ppm	2.9471 ppm	0.0042 ppm	0.0183 ppm	2.8316 ppm	-0.0020 ppm	0.1208 ppm
Concentration per Run 3	0.0000 ppm	2.9608 ppm	0.0024 ppm	0.0185 ppm	2.8267 ppm	-0.0002 ppm	0.1216 ppm
Concentration RSD	112.4 %	0.3 %	29.0 %	0.9 %	0.1 %	1,204.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2043 ppm	93.6202 %	102.2834 %	91.1550 %	106.7975 %	113.1011 %	107.7201 %
Concentration per Run 1	0.2059 ppm	93.6712 %	102.1761 %	91.4358 %	106.0629 %	112.8299 %	107.1933 %
Concentration per Run 2	0.2038 ppm	93.5276 %	102.6861 %	91.0320 %	106.6798 %	113.2657 %	108.0051 %
Concentration per Run 3	0.2033 ppm	93.6617 %	101.9880 %	90.9972 %	107.6498 %	113.2077 %	107.9620 %
Concentration RSD	0.7 %	0.1 %	0.4 %	0.3 %	0.7 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934595-5D2 WG1934595
Analysis started at: 6/17/2024 1:18:56 PM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0464 ppm	62.1039 ppm	0.1576 ppm	0.9220 ppm	2.0035 ppm	0.0503 ppm	13.1740 ppm
Concentration per Run 1	0.0460 ppm	62.3335 ppm	0.1587 ppm	0.9205 ppm	2.0077 ppm	0.0500 ppm	13.2006 ppm
Concentration per Run 2	0.0466 ppm	62.1792 ppm	0.1586 ppm	0.9176 ppm	2.0071 ppm	0.0498 ppm	13.1024 ppm
Concentration per Run 3	0.0466 ppm	61.7991 ppm	0.1554 ppm	0.9280 ppm	1.9958 ppm	0.0512 ppm	13.2190 ppm
Concentration RSD	0.7 %	0.4 %	1.2 %	0.6 %	0.3 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0487 ppm	0.4824 ppm	0.2543 ppm	0.3154 ppm	95.3574 ppm	17.7298 ppm	0.0704 ppm
Concentration per Run 1	0.0484 ppm	0.4818 ppm	0.2527 ppm	0.3144 ppm	95.3054 ppm	17.8293 ppm	0.0736 ppm
Concentration per Run 2	0.0487 ppm	0.4806 ppm	0.2542 ppm	0.3153 ppm	94.8236 ppm	17.7557 ppm	0.0701 ppm
Concentration per Run 3	0.0491 ppm	0.4847 ppm	0.2559 ppm	0.3165 ppm	95.9432 ppm	17.6044 ppm	0.0676 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	0.3 %	0.6 %	0.6 %	4.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.6528 ppm	1.6086 ppm	0.9148 ppm	11.8053 ppm	0.5130 ppm	0.6152 ppm	0.4820 ppm
Concentration per Run 1	23.5265 ppm	1.6106 ppm	0.8907 ppm	11.7523 ppm	0.5083 ppm	0.6147 ppm	0.4828 ppm
Concentration per Run 2	23.6510 ppm	1.6058 ppm	0.9156 ppm	11.6985 ppm	0.5149 ppm	0.6129 ppm	0.4800 ppm
Concentration per Run 3	23.7808 ppm	1.6093 ppm	0.9382 ppm	11.9651 ppm	0.5157 ppm	0.6180 ppm	0.4833 ppm
Concentration RSD	0.5 %	0.2 %	2.6 %	1.2 %	0.8 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1185 ppm	4.4419 ppm	0.8851 ppm	0.9526 ppm	3.7398 ppm	0.1146 ppm	0.5860 ppm
Concentration per Run 1	0.1184 ppm	4.4217 ppm	0.8804 ppm	0.9484 ppm	3.7182 ppm	0.1157 ppm	0.5826 ppm
Concentration per Run 2	0.1155 ppm	4.4508 ppm	0.8881 ppm	0.9407 ppm	3.7396 ppm	0.1139 ppm	0.5853 ppm
Concentration per Run 3	0.1217 ppm	4.4532 ppm	0.8867 ppm	0.9687 ppm	3.7616 ppm	0.1143 ppm	0.5901 ppm
Concentration RSD	2.6 %	0.4 %	0.5 %	1.5 %	0.6 %	0.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6512 ppm	93.9644 %	101.6843 %	90.0502 %	105.5001 %	111.5160 %	106.3769 %
Concentration per Run 1	0.6451 ppm	94.3274 %	101.4800 %	90.2627 %	105.3100 %	111.2857 %	106.3460 %
Concentration per Run 2	0.6516 ppm	93.8739 %	102.3223 %	90.3091 %	105.3423 %	111.8651 %	106.5950 %
Concentration per Run 3	0.6569 ppm	93.6918 %	101.2504 %	89.5788 %	105.8481 %	111.3973 %	106.1896 %
Concentration RSD	0.9 %	0.3 %	0.6 %	0.5 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934595-6D10 WG1934595
Analysis started at: 6/17/2024 1:22:53 PM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	13.1306 ppm	0.0074 ppm	0.0023 ppm	0.0335 ppm	0.0006 ppm	0.8087 ppm
Concentration per Run 1	-0.0001 ppm	13.1150 ppm	0.0070 ppm	0.0017 ppm	0.0332 ppm	0.0006 ppm	0.8082 ppm
Concentration per Run 2	0.0002 ppm	13.1598 ppm	0.0077 ppm	0.0022 ppm	0.0336 ppm	0.0006 ppm	0.8080 ppm
Concentration per Run 3	0.0005 ppm	13.1171 ppm	0.0075 ppm	0.0029 ppm	0.0336 ppm	0.0005 ppm	0.8098 ppm
Concentration RSD	133.1 %	0.2 %	4.8 %	27.9 %	0.7 %	5.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0061 ppm	0.0162 ppm	0.0182 ppm	20.4429 ppm	1.7572 ppm	0.0151 ppm
Concentration per Run 1	0.0000 ppm	0.0057 ppm	0.0159 ppm	0.0184 ppm	20.4964 ppm	1.7628 ppm	0.0136 ppm
Concentration per Run 2	0.0001 ppm	0.0063 ppm	0.0162 ppm	0.0181 ppm	20.4210 ppm	1.7617 ppm	0.0151 ppm
Concentration per Run 3	-0.0001 ppm	0.0062 ppm	0.0165 ppm	0.0181 ppm	20.4114 ppm	1.7472 ppm	0.0165 ppm
Concentration RSD	1,005.2 %	4.8 %	2.0 %	0.9 %	0.2 %	0.5 %	9.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2377 ppm	0.2476 ppm	0.0046 ppm	0.4388 ppm	0.0117 ppm	0.0214 ppm	-0.0012 ppm
Concentration per Run 1	3.2496 ppm	0.2478 ppm	0.0045 ppm	0.4436 ppm	0.0118 ppm	0.0205 ppm	-0.0006 ppm
Concentration per Run 2	3.2363 ppm	0.2475 ppm	0.0048 ppm	0.4369 ppm	0.0117 ppm	0.0232 ppm	-0.0008 ppm
Concentration per Run 3	3.2272 ppm	0.2476 ppm	0.0046 ppm	0.4359 ppm	0.0117 ppm	0.0205 ppm	-0.0020 ppm
Concentration RSD	0.3 %	0.1 %	2.8 %	1.0 %	0.6 %	7.2 %	65.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.7641 ppm	0.0011 ppm	0.0045 ppm	0.6087 ppm	-0.0013 ppm	0.0265 ppm
Concentration per Run 1	-0.0004 ppm	0.7716 ppm	0.0009 ppm	0.0045 ppm	0.6081 ppm	0.0003 ppm	0.0263 ppm
Concentration per Run 2	-0.0007 ppm	0.7595 ppm	0.0004 ppm	0.0044 ppm	0.6090 ppm	-0.0022 ppm	0.0266 ppm
Concentration per Run 3	0.0011 ppm	0.7612 ppm	0.0020 ppm	0.0046 ppm	0.6091 ppm	-0.0021 ppm	0.0266 ppm
Concentration RSD	4,173.4 %	0.9 %	76.5 %	2.2 %	0.1 %	107.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0418 ppm	90.5534 %	101.0845 %	92.9136 %	100.7910 %	106.4823 %	102.2293 %
Concentration per Run 1	0.0416 ppm	90.3773 %	100.7237 %	93.2289 %	100.8025 %	106.2462 %	102.7118 %
Concentration per Run 2	0.0420 ppm	90.2839 %	101.0009 %	92.8294 %	100.3910 %	106.3267 %	102.0684 %
Concentration per Run 3	0.0419 ppm	90.9989 %	101.5290 %	92.6824 %	101.1794 %	106.8739 %	101.9076 %
Concentration RSD	0.5 %	0.4 %	0.4 %	0.3 %	0.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 1:26:50 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4849 ppm	0.4670 ppm	0.4740 ppm	0.4824 ppm	0.4927 ppm	0.5093 ppm	0.4869 ppm
Concentration per Run 1	0.4797 ppm	0.4684 ppm	0.4737 ppm	0.4763 ppm	0.4917 ppm	0.5091 ppm	0.4877 ppm
Concentration per Run 2	0.4848 ppm	0.4689 ppm	0.4743 ppm	0.4809 ppm	0.4939 ppm	0.5088 ppm	0.4867 ppm
Concentration per Run 3	0.4901 ppm	0.4637 ppm	0.4739 ppm	0.4899 ppm	0.4926 ppm	0.5101 ppm	0.4863 ppm
Recovery Percentage 1	96.975 %	93.398 %	94.791 %	96.480 %	98.544 %	101.867 %	97.383 %
Concentration RSD	1.1 %	0.6 %	0.1 %	1.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4892 ppm	0.4992 ppm	0.4839 ppm	0.4748 ppm	0.5091 ppm	5.0313 ppm	0.6076 ppm
Concentration per Run 1	0.4837 ppm	0.4930 ppm	0.4799 ppm	0.4692 ppm	0.5090 ppm	5.0467 ppm	0.6038 ppm
Concentration per Run 2	0.4901 ppm	0.5010 ppm	0.4829 ppm	0.4766 ppm	0.5111 ppm	4.9941 ppm	0.6133 ppm
Concentration per Run 3	0.4939 ppm	0.5036 ppm	0.4891 ppm	0.4786 ppm	0.5073 ppm	5.0532 ppm	0.6057 ppm
Recovery Percentage 1	97.844 %	99.842 %	96.788 %	94.963 %	101.821 %	100.627 %	121.521 %
Concentration RSD	1.1 %	1.1 %	1.0 %	1.0 %	0.4 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4784 ppm	0.4905 ppm	0.4932 ppm	10.1062 ppm	0.4983 ppm	0.4856 ppm	0.4919 ppm
Concentration per Run 1	0.4752 ppm	0.4897 ppm	0.4829 ppm	10.1070 ppm	0.4940 ppm	0.4834 ppm	0.4851 ppm
Concentration per Run 2	0.4803 ppm	0.4901 ppm	0.4913 ppm	10.1000 ppm	0.4970 ppm	0.4839 ppm	0.4936 ppm
Concentration per Run 3	0.4798 ppm	0.4917 ppm	0.5055 ppm	10.1115 ppm	0.5038 ppm	0.4893 ppm	0.4969 ppm
Recovery Percentage 1	95.680 %	98.098 %	98.648 %	101.062 %	99.658 %	97.111 %	98.376 %
Concentration RSD	0.6 %	0.2 %	2.3 %	0.1 %	1.0 %	0.7 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4797 ppm	5.4001 ppm	0.4944 ppm	0.4927 ppm	0.4916 ppm	0.4760 ppm	0.4826 ppm
Concentration per Run 1	0.4794 ppm	5.3450 ppm	0.4933 ppm	0.4913 ppm	0.4871 ppm	0.4768 ppm	0.4759 ppm
Concentration per Run 2	0.4799 ppm	5.3899 ppm	0.4923 ppm	0.4919 ppm	0.4919 ppm	0.4747 ppm	0.4841 ppm
Concentration per Run 3	0.4799 ppm	5.4655 ppm	0.4976 ppm	0.4950 ppm	0.4957 ppm	0.4766 ppm	0.4878 ppm
Recovery Percentage 1	95.946 %	102.860 %	98.877 %	98.544 %	98.315 %	95.210 %	96.524 %
Concentration RSD	0.1 %	1.1 %	0.6 %	0.4 %	0.9 %	0.2 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4991 ppm	93.4984 %	100.6473 %	93.7511 %	98.3208 %	103.1015 %	98.7672 %
Concentration per Run 1	0.4953 ppm	94.1570 %	100.5990 %	94.2437 %	98.0265 %	103.1504 %	99.0109 %
Concentration per Run 2	0.4981 ppm	93.2389 %	100.1779 %	93.7443 %	98.2960 %	102.3975 %	98.8271 %
Concentration per Run 3	0.5039 ppm	93.0992 %	101.1648 %	93.2655 %	98.6400 %	103.7564 %	98.4636 %
Recovery Percentage 1	99.819 %						
Concentration RSD	0.9 %	0.6 %	0.5 %	0.5 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 1:30:47 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0179 ppm	-0.0004 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 1	0.0004 ppm	-0.0182 ppm	-0.0003 ppm	0.0023 ppm	0.0002 ppm	0.0001 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0198 ppm	-0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0156 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0039 ppm
Recovery Percentage 1	2.420 %	-17.878 %	-13.785 %	2.579 %	-0.647 %	1.122 %	2.291 %
Concentration RSD	149.5 %	11.9 %	45.3 %	167.9 %	441.0 %	28.1 %	68.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0011 ppm	0.0156 ppm	-0.0051 ppm	-0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0008 ppm	0.0156 ppm	0.0008 ppm	-0.0024 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0015 ppm	0.0178 ppm	-0.0168 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0006 ppm	0.0010 ppm	0.0134 ppm	0.0008 ppm	0.0010 ppm
Recovery Percentage 1	-2.174 %	0.625 %	-4.418 %	10.975 %	31.172 %	-0.203 %	-3.366 %
Concentration RSD	32.7 %	173.5 %	34.6 %	30.0 %	14.2 %	200.3 %	551.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0001 ppm	0.0018 ppm	0.0163 ppm	-0.0003 ppm	0.0013 ppm	-0.0032 ppm
Concentration per Run 1	0.0007 ppm	0.0002 ppm	0.0018 ppm	0.0200 ppm	-0.0001 ppm	0.0003 ppm	-0.0061 ppm
Concentration per Run 2	0.0011 ppm	-0.0001 ppm	0.0018 ppm	0.0166 ppm	-0.0006 ppm	0.0022 ppm	-0.0017 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0019 ppm	0.0123 ppm	-0.0001 ppm	0.0015 ppm	-0.0019 ppm
Recovery Percentage 1	0.439 %	0.944 %	3.616 %	0.814 %	-1.053 %	13.321 %	-6.418 %
Concentration RSD	188.3 %	180.7 %	3.2 %	23.5 %	107.0 %	73.4 %	77.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0023 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 1	0.0011 ppm	-0.0042 ppm	0.0011 ppm	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 2	0.0023 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	-0.0011 ppm	-0.0030 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	7.522 %	-0.463 %	1.741 %	-0.854 %	-1.046 %	-2.523 %	-3.749 %
Concentration RSD	231.3 %	101.6 %	26.0 %	91.6 %	151.5 %	29.9 %	79.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	84.3679 %	94.6193 %	88.3857 %	98.2711 %	102.1650 %	99.6131 %
Concentration per Run 1	0.0006 ppm	84.2702 %	94.9349 %	88.5618 %	98.5654 %	102.5132 %	100.0831 %
Concentration per Run 2	0.0007 ppm	84.0680 %	94.3715 %	88.3498 %	98.0704 %	101.9463 %	99.6557 %
Concentration per Run 3	0.0007 ppm	84.7654 %	94.5514 %	88.2456 %	98.1777 %	102.0356 %	99.1006 %
Recovery Percentage 1	13.916 %						
Concentration RSD	7.6 %	0.4 %	0.3 %	0.2 %	0.3 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-02D2 WG1934595
Analysis started at: 6/17/2024 1:57:05 PM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	195.9910 ppm	0.0692 ppm	0.0066 ppm	0.6817 ppm	0.0075 ppm	1.0063 ppm
Concentration per Run 1	0.0002 ppm	195.3056 ppm	0.0688 ppm	0.0082 ppm	0.6775 ppm	0.0075 ppm	1.0017 ppm
Concentration per Run 2	-0.0004 ppm	195.7482 ppm	0.0690 ppm	0.0063 ppm	0.6837 ppm	0.0076 ppm	1.0065 ppm
Concentration per Run 3	-0.0001 ppm	196.9191 ppm	0.0696 ppm	0.0052 ppm	0.6840 ppm	0.0075 ppm	1.0107 ppm
Concentration RSD	300.1 %	0.4 %	0.6 %	23.1 %	0.5 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0653 ppm	0.2415 ppm	0.1055 ppm	257.3265 ppm	5.9543 ppm	0.1282 ppm
Concentration per Run 1	0.0004 ppm	0.0646 ppm	0.2387 ppm	0.1043 ppm	256.1452 ppm	5.9482 ppm	0.1286 ppm
Concentration per Run 2	0.0004 ppm	0.0661 ppm	0.2427 ppm	0.1061 ppm	258.2170 ppm	5.9249 ppm	0.1259 ppm
Concentration per Run 3	0.0004 ppm	0.0654 ppm	0.2431 ppm	0.1062 ppm	257.6175 ppm	5.9896 ppm	0.1301 ppm
Concentration RSD	8.9 %	1.2 %	1.0 %	1.0 %	0.4 %	0.6 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.3245 ppm	2.9181 ppm	0.0056 ppm	0.2664 ppm	0.1348 ppm	0.1405 ppm	0.0048 ppm
Concentration per Run 1	28.1328 ppm	2.9097 ppm	0.0058 ppm	0.2706 ppm	0.1335 ppm	0.1406 ppm	0.0005 ppm
Concentration per Run 2	28.3978 ppm	2.9211 ppm	0.0057 ppm	0.2655 ppm	0.1359 ppm	0.1401 ppm	0.0037 ppm
Concentration per Run 3	28.4429 ppm	2.9234 ppm	0.0054 ppm	0.2632 ppm	0.1348 ppm	0.1409 ppm	0.0101 ppm
Concentration RSD	0.6 %	0.3 %	4.0 %	1.4 %	0.9 %	0.3 %	102.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	0.9060 ppm	0.0056 ppm	0.0276 ppm	2.0728 ppm	0.0055 ppm	0.3759 ppm
Concentration per Run 1	0.0063 ppm	0.8990 ppm	0.0058 ppm	0.0275 ppm	2.0574 ppm	0.0054 ppm	0.3734 ppm
Concentration per Run 2	0.0059 ppm	0.9066 ppm	0.0053 ppm	0.0278 ppm	2.0771 ppm	0.0051 ppm	0.3768 ppm
Concentration per Run 3	0.0025 ppm	0.9124 ppm	0.0057 ppm	0.0274 ppm	2.0840 ppm	0.0060 ppm	0.3776 ppm
Concentration RSD	42.5 %	0.7 %	4.3 %	0.8 %	0.7 %	8.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4310 ppm	96.0797 %	105.1898 %	91.6220 %	133.5227 %	144.0683 %	136.1938 %
Concentration per Run 1	0.4274 ppm	96.6467 %	105.3295 %	91.9457 %	133.1539 %	143.8288 %	135.8572 %
Concentration per Run 2	0.4334 ppm	95.6286 %	105.0877 %	92.0050 %	133.3554 %	144.2224 %	136.6439 %
Concentration per Run 3	0.4321 ppm	95.9639 %	105.1522 %	90.9154 %	134.0587 %	144.1538 %	136.0803 %
Concentration RSD	0.7 %	0.5 %	0.1 %	0.7 %	0.4 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-03D2 WG1934595
Analysis started at: 6/17/2024 2:01:07 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	90.5758 ppm	0.0871 ppm	0.0066 ppm	0.2210 ppm	0.0047 ppm	1.0488 ppm
Concentration per Run 1	-0.0001 ppm	90.4424 ppm	0.0891 ppm	0.0067 ppm	0.2197 ppm	0.0047 ppm	1.0494 ppm
Concentration per Run 2	-0.0003 ppm	90.4184 ppm	0.0844 ppm	0.0076 ppm	0.2213 ppm	0.0048 ppm	1.0492 ppm
Concentration per Run 3	-0.0003 ppm	90.8664 ppm	0.0879 ppm	0.0055 ppm	0.2221 ppm	0.0046 ppm	1.0477 ppm
Concentration RSD	55.5 %	0.3 %	2.8 %	16.0 %	0.6 %	1.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0675 ppm	0.1194 ppm	0.1091 ppm	144.9325 ppm	3.6875 ppm	0.0723 ppm
Concentration per Run 1	0.0004 ppm	0.0670 ppm	0.1189 ppm	0.1093 ppm	145.0916 ppm	3.7393 ppm	0.0766 ppm
Concentration per Run 2	0.0005 ppm	0.0686 ppm	0.1196 ppm	0.1094 ppm	145.8430 ppm	3.6366 ppm	0.0712 ppm
Concentration per Run 3	0.0003 ppm	0.0669 ppm	0.1197 ppm	0.1086 ppm	143.8630 ppm	3.6865 ppm	0.0693 ppm
Concentration RSD	29.4 %	1.4 %	0.4 %	0.4 %	0.7 %	1.4 %	5.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.1671 ppm	2.9198 ppm	0.0042 ppm	0.1905 ppm	0.1095 ppm	0.1298 ppm	0.0030 ppm
Concentration per Run 1	18.1445 ppm	2.9183 ppm	0.0046 ppm	0.1949 ppm	0.1095 ppm	0.1294 ppm	0.0036 ppm
Concentration per Run 2	18.1682 ppm	2.9237 ppm	0.0042 ppm	0.1881 ppm	0.1091 ppm	0.1305 ppm	0.0038 ppm
Concentration per Run 3	18.1887 ppm	2.9175 ppm	0.0039 ppm	0.1884 ppm	0.1099 ppm	0.1296 ppm	0.0017 ppm
Concentration RSD	0.1 %	0.1 %	8.3 %	2.0 %	0.4 %	0.4 %	39.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.7405 ppm	0.0043 ppm	0.0141 ppm	3.5136 ppm	0.0003 ppm	0.1889 ppm
Concentration per Run 1	-0.0004 ppm	0.7391 ppm	0.0045 ppm	0.0141 ppm	3.5034 ppm	0.0002 ppm	0.1881 ppm
Concentration per Run 2	-0.0010 ppm	0.7400 ppm	0.0034 ppm	0.0142 ppm	3.5091 ppm	0.0004 ppm	0.1888 ppm
Concentration per Run 3	0.0049 ppm	0.7424 ppm	0.0050 ppm	0.0139 ppm	3.5283 ppm	0.0004 ppm	0.1897 ppm
Concentration RSD	274.0 %	0.2 %	18.2 %	1.2 %	0.4 %	28.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3228 ppm	94.8241 %	103.0965 %	91.1329 %	107.7924 %	113.9879 %	108.6809 %
Concentration per Run 1	0.3233 ppm	94.3746 %	102.5197 %	91.0262 %	106.7851 %	113.4490 %	108.2402 %
Concentration per Run 2	0.3225 ppm	94.8150 %	102.9396 %	91.2573 %	107.8929 %	113.6835 %	109.0017 %
Concentration per Run 3	0.3226 ppm	95.2828 %	103.8304 %	91.1152 %	108.6992 %	114.8311 %	108.8010 %
Concentration RSD	0.1 %	0.5 %	0.6 %	0.1 %	0.9 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-04D2 WG1934595
Analysis started at: 6/17/2024 2:05:02 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	180.8182 ppm	0.0651 ppm	0.0038 ppm	0.4807 ppm	0.0069 ppm	1.9059 ppm
Concentration per Run 1	-0.0001 ppm	180.4149 ppm	0.0635 ppm	0.0027 ppm	0.4825 ppm	0.0069 ppm	1.9133 ppm
Concentration per Run 2	0.0001 ppm	180.8554 ppm	0.0664 ppm	0.0046 ppm	0.4789 ppm	0.0069 ppm	1.9036 ppm
Concentration per Run 3	0.0004 ppm	181.1842 ppm	0.0654 ppm	0.0039 ppm	0.4806 ppm	0.0068 ppm	1.9009 ppm
Concentration RSD	224.7 %	0.2 %	2.3 %	26.0 %	0.4 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0665 ppm	0.2103 ppm	0.0890 ppm	230.1673 ppm	4.8859 ppm	0.1087 ppm
Concentration per Run 1	0.0002 ppm	0.0659 ppm	0.2094 ppm	0.0878 ppm	230.8382 ppm	4.9135 ppm	0.1088 ppm
Concentration per Run 2	0.0002 ppm	0.0662 ppm	0.2101 ppm	0.0887 ppm	229.8593 ppm	4.8679 ppm	0.1081 ppm
Concentration per Run 3	0.0003 ppm	0.0674 ppm	0.2114 ppm	0.0906 ppm	229.8043 ppm	4.8765 ppm	0.1090 ppm
Concentration RSD	30.7 %	1.2 %	0.5 %	1.6 %	0.3 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.5384 ppm	4.4400 ppm	0.0054 ppm	0.2321 ppm	0.1128 ppm	0.1516 ppm	0.0038 ppm
Concentration per Run 1	22.3277 ppm	4.4382 ppm	0.0058 ppm	0.2336 ppm	0.1127 ppm	0.1497 ppm	-0.0018 ppm
Concentration per Run 2	22.5906 ppm	4.4412 ppm	0.0055 ppm	0.2323 ppm	0.1122 ppm	0.1538 ppm	0.0042 ppm
Concentration per Run 3	22.6969 ppm	4.4407 ppm	0.0048 ppm	0.2304 ppm	0.1136 ppm	0.1512 ppm	0.0090 ppm
Concentration RSD	0.8 %	0.0 %	9.7 %	0.7 %	0.6 %	1.4 %	142.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	1.8330 ppm	0.0062 ppm	0.0291 ppm	1.6816 ppm	0.0028 ppm	0.3433 ppm
Concentration per Run 1	0.0027 ppm	1.8139 ppm	0.0061 ppm	0.0293 ppm	1.6672 ppm	0.0008 ppm	0.3408 ppm
Concentration per Run 2	0.0039 ppm	1.8276 ppm	0.0065 ppm	0.0291 ppm	1.6811 ppm	0.0051 ppm	0.3438 ppm
Concentration per Run 3	0.0011 ppm	1.8573 ppm	0.0059 ppm	0.0288 ppm	1.6965 ppm	0.0024 ppm	0.3452 ppm
Concentration RSD	54.1 %	1.2 %	5.1 %	0.8 %	0.9 %	80.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3996 ppm	95.3894 %	107.1606 %	91.5835 %	125.0640 %	137.8276 %	128.0218 %
Concentration per Run 1	0.3983 ppm	96.0614 %	107.7166 %	91.7142 %	124.4610 %	138.8551 %	127.8830 %
Concentration per Run 2	0.3987 ppm	95.3708 %	106.3321 %	91.4277 %	125.3283 %	136.3446 %	128.1418 %
Concentration per Run 3	0.4018 ppm	94.7359 %	107.4332 %	91.6085 %	125.4026 %	138.2830 %	128.0406 %
Concentration RSD	0.5 %	0.7 %	0.7 %	0.2 %	0.4 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-05D2 WG1934595
Analysis started at: 6/17/2024 2:08:57 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	155.4088 ppm	0.0588 ppm	0.0047 ppm	0.6689 ppm	0.0058 ppm	5.4638 ppm
Concentration per Run 1	-0.0002 ppm	155.1987 ppm	0.0570 ppm	0.0038 ppm	0.6678 ppm	0.0058 ppm	5.4597 ppm
Concentration per Run 2	0.0003 ppm	155.4819 ppm	0.0594 ppm	0.0052 ppm	0.6707 ppm	0.0058 ppm	5.4624 ppm
Concentration per Run 3	0.0001 ppm	155.5457 ppm	0.0600 ppm	0.0050 ppm	0.6681 ppm	0.0058 ppm	5.4691 ppm
Concentration RSD	397.4 %	0.1 %	2.7 %	15.9 %	0.2 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0685 ppm	0.1882 ppm	0.0936 ppm	201.8053 ppm	4.5965 ppm	0.0963 ppm
Concentration per Run 1	0.0003 ppm	0.0685 ppm	0.1868 ppm	0.0932 ppm	201.8808 ppm	4.6057 ppm	0.0976 ppm
Concentration per Run 2	0.0003 ppm	0.0681 ppm	0.1888 ppm	0.0934 ppm	202.0481 ppm	4.6147 ppm	0.0975 ppm
Concentration per Run 3	0.0001 ppm	0.0690 ppm	0.1889 ppm	0.0943 ppm	201.4869 ppm	4.5691 ppm	0.0940 ppm
Concentration RSD	50.8 %	0.7 %	0.6 %	0.6 %	0.1 %	0.5 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.1792 ppm	6.5148 ppm	0.0050 ppm	0.2445 ppm	0.1065 ppm	0.1427 ppm	0.0014 ppm
Concentration per Run 1	21.0615 ppm	6.5097 ppm	0.0050 ppm	0.2526 ppm	0.1052 ppm	0.1427 ppm	-0.0009 ppm
Concentration per Run 2	21.1709 ppm	6.5122 ppm	0.0048 ppm	0.2398 ppm	0.1078 ppm	0.1436 ppm	0.0022 ppm
Concentration per Run 3	21.3050 ppm	6.5225 ppm	0.0053 ppm	0.2411 ppm	0.1064 ppm	0.1418 ppm	0.0027 ppm
Concentration RSD	0.6 %	0.1 %	4.9 %	2.9 %	1.2 %	0.6 %	143.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	0.9054 ppm	0.0057 ppm	0.0474 ppm	2.2060 ppm	0.0014 ppm	0.3007 ppm
Concentration per Run 1	0.0054 ppm	0.9001 ppm	0.0060 ppm	0.0473 ppm	2.1937 ppm	0.0023 ppm	0.2991 ppm
Concentration per Run 2	0.0021 ppm	0.9002 ppm	0.0057 ppm	0.0474 ppm	2.2029 ppm	-0.0007 ppm	0.3009 ppm
Concentration per Run 3	0.0014 ppm	0.9159 ppm	0.0056 ppm	0.0477 ppm	2.2213 ppm	0.0025 ppm	0.3022 ppm
Concentration RSD	70.9 %	1.0 %	3.7 %	0.4 %	0.6 %	134.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3560 ppm	95.5176 %	106.9299 %	91.7705 %	127.4837 %	139.1945 %	130.0590 %
Concentration per Run 1	0.3525 ppm	96.0653 %	105.9537 %	92.2843 %	127.3516 %	137.8316 %	130.6865 %
Concentration per Run 2	0.3583 ppm	95.4365 %	106.9793 %	92.1722 %	127.4301 %	139.4250 %	130.0752 %
Concentration per Run 3	0.3571 ppm	95.0510 %	107.8566 %	90.8550 %	127.6695 %	140.3269 %	129.4154 %
Concentration RSD	0.9 %	0.5 %	0.9 %	0.9 %	0.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-06D2 WG1934595
Analysis started at: 6/17/2024 2:12:53 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	56.5685 ppm	0.8622 ppm	0.0032 ppm	0.1776 ppm	0.0030 ppm	7.1951 ppm
Concentration per Run 1	0.0002 ppm	56.5180 ppm	0.8596 ppm	0.0032 ppm	0.1769 ppm	0.0030 ppm	7.1866 ppm
Concentration per Run 2	0.0006 ppm	56.4703 ppm	0.8631 ppm	0.0041 ppm	0.1767 ppm	0.0030 ppm	7.1818 ppm
Concentration per Run 3	0.0004 ppm	56.7173 ppm	0.8639 ppm	0.0022 ppm	0.1790 ppm	0.0031 ppm	7.2170 ppm
Concentration RSD	49.5 %	0.2 %	0.3 %	30.3 %	0.7 %	1.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0283 ppm	0.0882 ppm	0.0841 ppm	97.4351 ppm	3.6764 ppm	0.0400 ppm
Concentration per Run 1	0.0012 ppm	0.0282 ppm	0.0871 ppm	0.0836 ppm	97.2112 ppm	3.7091 ppm	0.0394 ppm
Concentration per Run 2	0.0013 ppm	0.0284 ppm	0.0885 ppm	0.0847 ppm	97.0427 ppm	3.6400 ppm	0.0386 ppm
Concentration per Run 3	0.0012 ppm	0.0283 ppm	0.0890 ppm	0.0841 ppm	98.0515 ppm	3.6803 ppm	0.0420 ppm
Concentration RSD	8.8 %	0.4 %	1.1 %	0.7 %	0.6 %	0.9 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8092 ppm	2.2359 ppm	0.0029 ppm	0.2116 ppm	0.0713 ppm	0.3411 ppm	-0.0015 ppm
Concentration per Run 1	9.7938 ppm	2.2312 ppm	0.0027 ppm	0.2108 ppm	0.0701 ppm	0.3430 ppm	0.0019 ppm
Concentration per Run 2	9.8010 ppm	2.2329 ppm	0.0031 ppm	0.2118 ppm	0.0725 ppm	0.3401 ppm	-0.0013 ppm
Concentration per Run 3	9.8329 ppm	2.2435 ppm	0.0029 ppm	0.2123 ppm	0.0713 ppm	0.3400 ppm	-0.0052 ppm
Concentration RSD	0.2 %	0.3 %	7.9 %	0.4 %	1.7 %	0.5 %	234.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	1.3962 ppm	0.0055 ppm	0.0289 ppm	1.5498 ppm	-0.0008 ppm	0.1287 ppm
Concentration per Run 1	0.0020 ppm	1.3941 ppm	0.0062 ppm	0.0288 ppm	1.5449 ppm	0.0003 ppm	0.1292 ppm
Concentration per Run 2	0.0054 ppm	1.3991 ppm	0.0053 ppm	0.0289 ppm	1.5500 ppm	-0.0014 ppm	0.1280 ppm
Concentration per Run 3	0.0033 ppm	1.3954 ppm	0.0049 ppm	0.0290 ppm	1.5545 ppm	-0.0012 ppm	0.1288 ppm
Concentration RSD	48.5 %	0.2 %	12.3 %	0.4 %	0.3 %	123.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2792 ppm	92.0783 %	101.6815 %	91.0392 %	109.3897 %	116.2519 %	111.1813 %
Concentration per Run 1	0.2765 ppm	92.1783 %	101.7330 %	91.0348 %	109.0985 %	116.4863 %	111.2316 %
Concentration per Run 2	0.2790 ppm	92.6407 %	102.0895 %	90.9872 %	110.0359 %	116.7682 %	111.1482 %
Concentration per Run 3	0.2820 ppm	91.4158 %	101.2220 %	91.0958 %	109.0347 %	115.5011 %	111.1641 %
Concentration RSD	1.0 %	0.7 %	0.4 %	0.1 %	0.5 %	0.6 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-07D2 WG1934595
Analysis started at: 6/17/2024 2:16:50 PM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	117.3751 ppm	0.0530 ppm	0.0051 ppm	0.4976 ppm	0.0072 ppm	3.4933 ppm
Concentration per Run 1	0.0002 ppm	117.2621 ppm	0.0546 ppm	0.0053 ppm	0.4985 ppm	0.0072 ppm	3.4933 ppm
Concentration per Run 2	0.0003 ppm	117.4518 ppm	0.0521 ppm	0.0044 ppm	0.4965 ppm	0.0072 ppm	3.4874 ppm
Concentration per Run 3	0.0002 ppm	117.4114 ppm	0.0524 ppm	0.0057 ppm	0.4977 ppm	0.0072 ppm	3.4993 ppm
Concentration RSD	23.8 %	0.1 %	2.6 %	13.1 %	0.2 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0569 ppm	0.1170 ppm	0.0527 ppm	145.8078 ppm	2.5436 ppm	0.0530 ppm
Concentration per Run 1	0.0003 ppm	0.0565 ppm	0.1166 ppm	0.0527 ppm	145.9399 ppm	2.5682 ppm	0.0543 ppm
Concentration per Run 2	0.0002 ppm	0.0565 ppm	0.1164 ppm	0.0526 ppm	145.4463 ppm	2.5449 ppm	0.0516 ppm
Concentration per Run 3	0.0002 ppm	0.0575 ppm	0.1179 ppm	0.0528 ppm	146.0372 ppm	2.5178 ppm	0.0532 ppm
Concentration RSD	20.4 %	1.0 %	0.7 %	0.2 %	0.2 %	1.0 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.2054 ppm	7.1859 ppm	0.0042 ppm	0.2691 ppm	0.0789 ppm	0.1188 ppm	0.0010 ppm
Concentration per Run 1	12.1972 ppm	7.1806 ppm	0.0042 ppm	0.2678 ppm	0.0796 ppm	0.1192 ppm	-0.0001 ppm
Concentration per Run 2	12.1648 ppm	7.1790 ppm	0.0038 ppm	0.2697 ppm	0.0780 ppm	0.1174 ppm	0.0029 ppm
Concentration per Run 3	12.2542 ppm	7.1980 ppm	0.0046 ppm	0.2698 ppm	0.0790 ppm	0.1199 ppm	0.0002 ppm
Concentration RSD	0.4 %	0.1 %	10.3 %	0.4 %	1.0 %	1.1 %	162.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	1.7429 ppm	0.0038 ppm	0.0287 ppm	2.3778 ppm	0.0004 ppm	0.1906 ppm
Concentration per Run 1	0.0045 ppm	1.7366 ppm	0.0037 ppm	0.0288 ppm	2.3783 ppm	0.0003 ppm	0.1901 ppm
Concentration per Run 2	-0.0002 ppm	1.7451 ppm	0.0045 ppm	0.0285 ppm	2.3705 ppm	0.0008 ppm	0.1904 ppm
Concentration per Run 3	0.0026 ppm	1.7470 ppm	0.0033 ppm	0.0287 ppm	2.3846 ppm	0.0001 ppm	0.1911 ppm
Concentration RSD	104.1 %	0.3 %	15.7 %	0.4 %	0.3 %	92.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2427 ppm	94.1813 %	104.5099 %	91.2427 %	137.3090 %	148.4228 %	140.0205 %
Concentration per Run 1	0.2417 ppm	94.7843 %	104.4133 %	91.7662 %	137.4003 %	148.1369 %	140.7864 %
Concentration per Run 2	0.2416 ppm	94.6368 %	104.5714 %	91.4435 %	138.1365 %	148.5237 %	139.6484 %
Concentration per Run 3	0.2447 ppm	93.1229 %	104.5451 %	90.5185 %	136.3901 %	148.6077 %	139.6267 %
Concentration RSD	0.7 %	1.0 %	0.1 %	0.7 %	0.6 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432708-08D2 WG1934595
Analysis started at: 6/17/2024 2:20:47 PM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	120.5185 ppm	0.0487 ppm	0.0038 ppm	0.4361 ppm	0.0078 ppm	5.2160 ppm
Concentration per Run 1	0.0004 ppm	120.2365 ppm	0.0497 ppm	0.0025 ppm	0.4356 ppm	0.0079 ppm	5.2078 ppm
Concentration per Run 2	-0.0001 ppm	120.9643 ppm	0.0493 ppm	0.0041 ppm	0.4345 ppm	0.0078 ppm	5.2318 ppm
Concentration per Run 3	-0.0002 ppm	120.3547 ppm	0.0469 ppm	0.0048 ppm	0.4382 ppm	0.0078 ppm	5.2084 ppm
Concentration RSD	449.5 %	0.3 %	3.2 %	29.9 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0545 ppm	0.1319 ppm	0.0558 ppm	147.1044 ppm	2.8787 ppm	0.0520 ppm
Concentration per Run 1	0.0003 ppm	0.0549 ppm	0.1313 ppm	0.0558 ppm	146.8878 ppm	2.9183 ppm	0.0527 ppm
Concentration per Run 2	0.0003 ppm	0.0542 ppm	0.1318 ppm	0.0550 ppm	147.2278 ppm	2.8782 ppm	0.0540 ppm
Concentration per Run 3	0.0003 ppm	0.0546 ppm	0.1326 ppm	0.0568 ppm	147.1976 ppm	2.8397 ppm	0.0493 ppm
Concentration RSD	2.6 %	0.6 %	0.5 %	1.6 %	0.1 %	1.4 %	4.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.9440 ppm	8.3702 ppm	0.0048 ppm	0.2398 ppm	0.0795 ppm	0.0984 ppm	0.0005 ppm
Concentration per Run 1	11.8863 ppm	8.3368 ppm	0.0044 ppm	0.2435 ppm	0.0796 ppm	0.0972 ppm	-0.0008 ppm
Concentration per Run 2	11.9776 ppm	8.3960 ppm	0.0049 ppm	0.2367 ppm	0.0798 ppm	0.0989 ppm	0.0048 ppm
Concentration per Run 3	11.9681 ppm	8.3779 ppm	0.0050 ppm	0.2391 ppm	0.0792 ppm	0.0992 ppm	-0.0026 ppm
Concentration RSD	0.4 %	0.4 %	7.2 %	1.4 %	0.4 %	1.1 %	791.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	1.1651 ppm	0.0031 ppm	0.0418 ppm	2.0593 ppm	0.0028 ppm	0.1923 ppm
Concentration per Run 1	0.0017 ppm	1.1631 ppm	0.0036 ppm	0.0419 ppm	2.0501 ppm	0.0027 ppm	0.1914 ppm
Concentration per Run 2	0.0034 ppm	1.1632 ppm	0.0032 ppm	0.0418 ppm	2.0630 ppm	0.0036 ppm	0.1924 ppm
Concentration per Run 3	0.0052 ppm	1.1691 ppm	0.0025 ppm	0.0418 ppm	2.0647 ppm	0.0022 ppm	0.1930 ppm
Concentration RSD	50.3 %	0.3 %	17.2 %	0.2 %	0.4 %	24.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2130 ppm	94.2810 %	104.8701 %	90.7844 %	**151.6486 %**	**164.9520 %**	**154.3157 %**
Concentration per Run 1	0.2123 ppm	94.3982 %	105.3476 %	91.0677 %	**150.7940 %**	**165.5492 %**	**154.4199 %**
Concentration per Run 2	0.2137 ppm	94.3114 %	104.9737 %	90.8022 %	**151.8560 %**	**165.7929 %**	**154.3384 %**
Concentration per Run 3	0.2131 ppm	94.1333 %	104.2889 %	90.4834 %	**152.2957 %**	**163.5140 %**	**154.1887 %**
Concentration RSD	0.3 %	0.1 %	0.5 %	0.3 %	**0.5 %**	**0.8 %**	**0.1 %**

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-01D2 WG1934595
Analysis started at: 6/17/2024 2:24:44 PM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	88.7475 ppm	0.0248 ppm	0.0220 ppm	0.6396 ppm	0.0034 ppm	73.1192 ppm
Concentration per Run 1	0.0007 ppm	88.5108 ppm	0.0255 ppm	0.0210 ppm	0.6392 ppm	0.0035 ppm	73.0419 ppm
Concentration per Run 2	0.0008 ppm	88.7238 ppm	0.0252 ppm	0.0238 ppm	0.6400 ppm	0.0034 ppm	72.9110 ppm
Concentration per Run 3	0.0005 ppm	89.0078 ppm	0.0238 ppm	0.0211 ppm	0.6396 ppm	0.0034 ppm	73.4045 ppm
Concentration RSD	22.2 %	0.3 %	3.6 %	7.1 %	0.1 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0313 ppm	0.1440 ppm	0.2020 ppm	170.1858 ppm	4.4580 ppm	0.0734 ppm
Concentration per Run 1	0.0018 ppm	0.0311 ppm	0.1424 ppm	0.2015 ppm	170.3961 ppm	4.4808 ppm	0.0764 ppm
Concentration per Run 2	0.0019 ppm	0.0309 ppm	0.1446 ppm	0.2028 ppm	169.6686 ppm	4.4847 ppm	0.0728 ppm
Concentration per Run 3	0.0019 ppm	0.0317 ppm	0.1450 ppm	0.2017 ppm	170.4927 ppm	4.4084 ppm	0.0710 ppm
Concentration RSD	2.5 %	1.3 %	1.0 %	0.3 %	0.3 %	1.0 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4334 ppm	1.1330 ppm	0.0038 ppm	1.1329 ppm	0.0887 ppm	0.8809 ppm	0.0043 ppm
Concentration per Run 1	20.3015 ppm	1.1298 ppm	0.0033 ppm	1.1370 ppm	0.0886 ppm	0.8765 ppm	0.0075 ppm
Concentration per Run 2	20.4319 ppm	1.1325 ppm	0.0040 ppm	1.1207 ppm	0.0885 ppm	0.8828 ppm	0.0005 ppm
Concentration per Run 3	20.5668 ppm	1.1368 ppm	0.0041 ppm	1.1411 ppm	0.0889 ppm	0.8835 ppm	0.0049 ppm
Concentration RSD	0.6 %	0.3 %	11.9 %	1.0 %	0.2 %	0.4 %	82.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	1.2057 ppm	0.0217 ppm	0.3530 ppm	1.0766 ppm	0.0019 ppm	0.1890 ppm
Concentration per Run 1	0.0002 ppm	1.1946 ppm	0.0219 ppm	0.3537 ppm	1.0678 ppm	0.0017 ppm	0.1870 ppm
Concentration per Run 2	0.0014 ppm	1.2169 ppm	0.0218 ppm	0.3523 ppm	1.0782 ppm	0.0021 ppm	0.1887 ppm
Concentration per Run 3	0.0023 ppm	1.2055 ppm	0.0216 ppm	0.3531 ppm	1.0838 ppm	0.0018 ppm	0.1914 ppm
Concentration RSD	79.8 %	0.9 %	0.8 %	0.2 %	0.8 %	9.3 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8333 ppm	94.0800 %	102.5073 %	91.1311 %	110.2719 %	117.6647 %	111.6463 %
Concentration per Run 1	0.8285 ppm	94.4811 %	102.6613 %	91.8646 %	110.3098 %	117.8028 %	112.5891 %
Concentration per Run 2	0.8319 ppm	94.2526 %	103.3537 %	90.9159 %	110.4648 %	118.4115 %	111.0077 %
Concentration per Run 3	0.8394 ppm	93.5062 %	101.5070 %	90.6129 %	110.0411 %	116.7796 %	111.3422 %
Concentration RSD	0.7 %	0.5 %	0.9 %	0.7 %	0.2 %	0.7 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-02D2 WG1934595
Analysis started at: 6/17/2024 2:28:42 PM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	68.1704 ppm	0.0367 ppm	0.0429 ppm	1.4210 ppm	0.0037 ppm	162.2952 ppm
Concentration per Run 1	0.0010 ppm	68.1570 ppm	0.0379 ppm	0.0429 ppm	1.4262 ppm	0.0036 ppm	162.1928 ppm
Concentration per Run 2	0.0007 ppm	68.1179 ppm	0.0373 ppm	0.0423 ppm	1.4167 ppm	0.0037 ppm	162.3076 ppm
Concentration per Run 3	0.0003 ppm	68.2364 ppm	0.0349 ppm	0.0436 ppm	1.4199 ppm	0.0036 ppm	162.3852 ppm
Concentration RSD	50.4 %	0.1 %	4.3 %	1.5 %	0.3 %	1.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0567 ppm	0.1813 ppm	0.3724 ppm	149.2816 ppm	5.9848 ppm	0.0743 ppm
Concentration per Run 1	0.0023 ppm	0.0560 ppm	0.1809 ppm	0.3709 ppm	149.2827 ppm	5.9995 ppm	0.0776 ppm
Concentration per Run 2	0.0025 ppm	0.0571 ppm	0.1809 ppm	0.3730 ppm	148.9562 ppm	6.0043 ppm	0.0726 ppm
Concentration per Run 3	0.0024 ppm	0.0568 ppm	0.1822 ppm	0.3733 ppm	149.6057 ppm	5.9507 ppm	0.0728 ppm
Concentration RSD	3.3 %	1.0 %	0.4 %	0.4 %	0.2 %	0.5 %	3.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.8524 ppm	2.4046 ppm	0.0127 ppm	2.8298 ppm	0.1312 ppm	1.7493 ppm	0.0094 ppm
Concentration per Run 1	31.6859 ppm	2.3946 ppm	0.0121 ppm	2.8284 ppm	0.1306 ppm	1.7450 ppm	0.0112 ppm
Concentration per Run 2	31.8840 ppm	2.4012 ppm	0.0131 ppm	2.8261 ppm	0.1313 ppm	1.7507 ppm	0.0100 ppm
Concentration per Run 3	31.9872 ppm	2.4181 ppm	0.0128 ppm	2.8348 ppm	0.1318 ppm	1.7520 ppm	0.0071 ppm
Concentration RSD	0.5 %	0.5 %	3.8 %	0.2 %	0.5 %	0.2 %	21.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	3.9338 ppm	0.0531 ppm	0.8222 ppm	1.9274 ppm	-0.0006 ppm	0.2105 ppm
Concentration per Run 1	0.0014 ppm	3.9368 ppm	0.0525 ppm	0.8179 ppm	1.9160 ppm	-0.0004 ppm	0.2092 ppm
Concentration per Run 2	0.0023 ppm	3.9392 ppm	0.0541 ppm	0.8245 ppm	1.9311 ppm	-0.0015 ppm	0.2106 ppm
Concentration per Run 3	-0.0018 ppm	3.9252 ppm	0.0529 ppm	0.8241 ppm	1.9350 ppm	0.0002 ppm	0.2116 ppm
Concentration RSD	325.5 %	0.2 %	1.5 %	0.5 %	0.5 %	154.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1407 ppm	92.6008 %	102.6208 %	87.6820 %	114.7217 %	123.8426 %	115.0484 %
Concentration per Run 1	1.1371 ppm	93.3079 %	103.4544 %	87.6086 %	114.8332 %	125.2967 %	114.8491 %
Concentration per Run 2	1.1428 ppm	92.4182 %	102.5390 %	87.6300 %	114.7955 %	123.7266 %	114.9056 %
Concentration per Run 3	1.1422 ppm	92.0762 %	101.8691 %	87.8076 %	114.5365 %	122.5047 %	115.3905 %
Concentration RSD	0.3 %	0.7 %	0.8 %	0.1 %	0.1 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-03D2 WG1934595
Analysis started at: 6/17/2024 2:32:40 PM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	50.2716 ppm	0.0101 ppm	0.0112 ppm	0.3324 ppm	0.0036 ppm	16.2850 ppm
Concentration per Run 1	-0.0001 ppm	50.1530 ppm	0.0099 ppm	0.0101 ppm	0.3335 ppm	0.0036 ppm	16.2772 ppm
Concentration per Run 2	0.0001 ppm	50.2140 ppm	0.0097 ppm	0.0117 ppm	0.3314 ppm	0.0036 ppm	16.2766 ppm
Concentration per Run 3	-0.0004 ppm	50.4479 ppm	0.0106 ppm	0.0116 ppm	0.3324 ppm	0.0037 ppm	16.3011 ppm
Concentration RSD	190.3 %	0.3 %	4.7 %	7.8 %	0.3 %	1.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0317 ppm	0.1765 ppm	0.1461 ppm	113.7257 ppm	3.1295 ppm	0.0557 ppm
Concentration per Run 1	0.0001 ppm	0.0313 ppm	0.1754 ppm	0.1450 ppm	114.1555 ppm	3.1015 ppm	0.0566 ppm
Concentration per Run 2	0.0003 ppm	0.0316 ppm	0.1759 ppm	0.1469 ppm	113.4077 ppm	3.1383 ppm	0.0558 ppm
Concentration per Run 3	0.0002 ppm	0.0322 ppm	0.1781 ppm	0.1463 ppm	113.6138 ppm	3.1486 ppm	0.0546 ppm
Concentration RSD	46.2 %	1.4 %	0.8 %	0.7 %	0.3 %	0.8 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.0358 ppm	1.0310 ppm	0.0093 ppm	0.7309 ppm	0.0930 ppm	0.0939 ppm	-0.0010 ppm
Concentration per Run 1	13.9929 ppm	1.0292 ppm	0.0102 ppm	0.7308 ppm	0.0940 ppm	0.0931 ppm	-0.0001 ppm
Concentration per Run 2	14.0403 ppm	1.0282 ppm	0.0087 ppm	0.7352 ppm	0.0911 ppm	0.0957 ppm	0.0002 ppm
Concentration per Run 3	14.0743 ppm	1.0356 ppm	0.0091 ppm	0.7268 ppm	0.0940 ppm	0.0930 ppm	-0.0030 ppm
Concentration RSD	0.3 %	0.4 %	8.3 %	0.6 %	1.8 %	1.6 %	184.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	0.9196 ppm	0.0041 ppm	0.0886 ppm	0.9756 ppm	0.0004 ppm	0.1617 ppm
Concentration per Run 1	-0.0028 ppm	0.9202 ppm	0.0046 ppm	0.0892 ppm	0.9688 ppm	0.0006 ppm	0.1610 ppm
Concentration per Run 2	-0.0011 ppm	0.9191 ppm	0.0040 ppm	0.0881 ppm	0.9756 ppm	0.0007 ppm	0.1617 ppm
Concentration per Run 3	-0.0028 ppm	0.9196 ppm	0.0036 ppm	0.0883 ppm	0.9824 ppm	0.0000 ppm	0.1624 ppm
Concentration RSD	45.8 %	0.1 %	12.9 %	0.7 %	0.7 %	91.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1895 ppm	93.2854 %	101.1258 %	92.5211 %	112.9326 %	119.2041 %	114.5916 %
Concentration per Run 1	0.1882 ppm	93.5020 %	100.7751 %	92.8663 %	112.7205 %	118.8292 %	114.6927 %
Concentration per Run 2	0.1896 ppm	92.7653 %	101.0259 %	92.2349 %	112.5212 %	119.2367 %	114.4111 %
Concentration per Run 3	0.1907 ppm	93.5890 %	101.5762 %	92.4621 %	113.5559 %	119.5465 %	114.6710 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.3 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 2:36:37 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4949 ppm	0.4785 ppm	0.4796 ppm	0.4900 ppm	0.5033 ppm	0.5188 ppm	0.4952 ppm
Concentration per Run 1	0.4911 ppm	0.4671 ppm	0.4791 ppm	0.4845 ppm	0.5048 ppm	0.5167 ppm	0.4968 ppm
Concentration per Run 2	0.4943 ppm	0.4824 ppm	0.4785 ppm	0.4908 ppm	0.5036 ppm	0.5224 ppm	0.4960 ppm
Concentration per Run 3	0.4992 ppm	0.4861 ppm	0.4813 ppm	0.4946 ppm	0.5015 ppm	0.5171 ppm	0.4928 ppm
Recovery Percentage 1	98.975 %	95.705 %	95.927 %	97.995 %	100.662 %	103.752 %	99.036 %
Concentration RSD	0.8 %	2.1 %	0.3 %	1.0 %	0.3 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4990 ppm	0.5099 ppm	0.4935 ppm	0.4859 ppm	0.5262 ppm	5.0954 ppm	0.6135 ppm
Concentration per Run 1	0.4979 ppm	0.5086 ppm	0.4919 ppm	0.4820 ppm	0.5252 ppm	5.1292 ppm	0.6188 ppm
Concentration per Run 2	0.4998 ppm	0.5115 ppm	0.4928 ppm	0.4875 ppm	0.5308 ppm	5.0794 ppm	0.6112 ppm
Concentration per Run 3	0.4992 ppm	0.5097 ppm	0.4958 ppm	0.4882 ppm	0.5227 ppm	5.0776 ppm	0.6105 ppm
Recovery Percentage 1	99.793 %	101.988 %	98.693 %	97.185 %	105.249 %	101.908 %	122.697 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.7 %	0.8 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4887 ppm	0.5001 ppm	0.5016 ppm	10.2553 ppm	0.5080 ppm	0.4941 ppm	0.4999 ppm
Concentration per Run 1	0.4849 ppm	0.4988 ppm	0.4946 ppm	10.2122 ppm	0.5077 ppm	0.4953 ppm	0.4981 ppm
Concentration per Run 2	0.4885 ppm	0.5008 ppm	0.5029 ppm	10.3062 ppm	0.5073 ppm	0.4908 ppm	0.5028 ppm
Concentration per Run 3	0.4927 ppm	0.5007 ppm	0.5074 ppm	10.2475 ppm	0.5091 ppm	0.4962 ppm	0.4988 ppm
Recovery Percentage 1	97.741 %	100.019 %	100.322 %	102.553 %	101.608 %	98.817 %	99.976 %
Concentration RSD	0.8 %	0.2 %	1.3 %	0.5 %	0.2 %	0.6 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4883 ppm	5.4954 ppm	0.5019 ppm	0.5008 ppm	0.5007 ppm	0.4845 ppm	0.4931 ppm
Concentration per Run 1	0.4880 ppm	5.4726 ppm	0.5043 ppm	0.4990 ppm	0.4982 ppm	0.4822 ppm	0.4889 ppm
Concentration per Run 2	0.4857 ppm	5.4948 ppm	0.5031 ppm	0.5039 ppm	0.5007 ppm	0.4838 ppm	0.4930 ppm
Concentration per Run 3	0.4911 ppm	5.5188 ppm	0.4983 ppm	0.4996 ppm	0.5032 ppm	0.4875 ppm	0.4975 ppm
Recovery Percentage 1	97.651 %	104.674 %	100.389 %	100.164 %	100.144 %	96.898 %	98.623 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.5 %	0.5 %	0.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5091 ppm	91.4102 %	98.3384 %	92.4560 %	96.5852 %	100.8432 %	98.0019 %
Concentration per Run 1	0.5103 ppm	91.0580 %	99.0449 %	92.4684 %	95.3363 %	101.7092 %	97.8112 %
Concentration per Run 2	0.5078 ppm	91.6210 %	98.0096 %	93.1565 %	97.0540 %	100.4387 %	98.3475 %
Concentration per Run 3	0.5091 ppm	91.5515 %	97.9608 %	91.7431 %	97.3651 %	100.3817 %	97.8471 %
Recovery Percentage 1	101.816 %						
Concentration RSD	0.3 %	0.3 %	0.6 %	0.8 %	1.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 2:40:37 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0094 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0007 ppm	-0.0156 ppm	-0.0004 ppm	0.0024 ppm	-0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0026 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0004 ppm	-0.0138 ppm	-0.0013 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Recovery Percentage 1	5.993 %	-9.368 %	10.112 %	3.440 %	-1.231 %	0.084 %	0.834 %
Concentration RSD	71.1 %	99.4 %	666.2 %	136.6 %	155.7 %	798.7 %	140.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0172 ppm	0.0047 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0009 ppm	0.0186 ppm	0.0040 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0015 ppm	0.0147 ppm	-0.0173 ppm	-0.0014 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0010 ppm	0.0184 ppm	0.0273 ppm	0.0016 ppm
Recovery Percentage 1	0.043 %	1.079 %	-0.538 %	11.437 %	34.430 %	0.186 %	1.115 %
Concentration RSD	4,152.3 %	248.3 %	435.6 %	30.6 %	12.6 %	478.6 %	1,355.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	0.0002 ppm	0.0019 ppm	0.0134 ppm	0.0001 ppm	0.0007 ppm	-0.0013 ppm
Concentration per Run 1	-0.0003 ppm	0.0002 ppm	0.0017 ppm	0.0084 ppm	0.0005 ppm	-0.0003 ppm	-0.0014 ppm
Concentration per Run 2	0.0010 ppm	0.0003 ppm	0.0022 ppm	0.0177 ppm	0.0002 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 3	0.0007 ppm	0.0000 ppm	0.0017 ppm	0.0142 ppm	-0.0004 ppm	0.0012 ppm	-0.0032 ppm
Recovery Percentage 1	0.459 %	1.915 %	3.812 %	0.671 %	0.379 %	6.602 %	-2.634 %
Concentration RSD	153.0 %	72.1 %	15.0 %	35.0 %	470.1 %	121.3 %	144.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0060 ppm	0.0010 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0004 ppm	-0.0029 ppm	0.0007 ppm	0.0001 ppm	-0.0005 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	-0.0071 ppm	0.0016 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	-0.0010 ppm	-0.0080 ppm	0.0008 ppm	0.0001 ppm	-0.0003 ppm	-0.0007 ppm	-0.0003 ppm
Recovery Percentage 1	-6.579 %	-1.200 %	2.051 %	0.223 %	-2.910 %	1.063 %	-1.515 %
Concentration RSD	54.1 %	45.5 %	50.8 %	507.6 %	68.9 %	495.4 %	97.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	84.0252 %	94.7002 %	88.5681 %	97.8246 %	102.3775 %	99.7001 %
Concentration per Run 1	0.0007 ppm	83.1998 %	95.1609 %	88.3087 %	97.3804 %	103.3742 %	99.5427 %
Concentration per Run 2	0.0005 ppm	84.2043 %	94.1062 %	88.2220 %	98.0051 %	101.6411 %	99.2302 %
Concentration per Run 3	0.0006 ppm	84.6715 %	94.8335 %	89.1736 %	98.0882 %	102.1172 %	100.3275 %
Recovery Percentage 1	11.698 %						
Concentration RSD	15.8 %	0.9 %	0.6 %	0.6 %	0.4 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-04D2 WG1934595
Analysis started at: 6/17/2024 2:45:49 PM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	67.0908 ppm	0.0432 ppm	0.0073 ppm	0.5641 ppm	0.0035 ppm	22.1266 ppm
Concentration per Run 1	0.0009 ppm	66.4046 ppm	0.0421 ppm	0.0058 ppm	0.5613 ppm	0.0035 ppm	21.8703 ppm
Concentration per Run 2	0.0013 ppm	67.1986 ppm	0.0443 ppm	0.0082 ppm	0.5627 ppm	0.0035 ppm	22.1967 ppm
Concentration per Run 3	0.0012 ppm	67.6694 ppm	0.0432 ppm	0.0078 ppm	0.5681 ppm	0.0035 ppm	22.3129 ppm
Concentration RSD	21.9 %	1.0 %	2.5 %	17.3 %	0.6 %	0.4 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0296 ppm	0.1065 ppm	0.2632 ppm	115.3876 ppm	2.6992 ppm	0.0911 ppm
Concentration per Run 1	0.0016 ppm	0.0281 ppm	0.1023 ppm	0.2531 ppm	114.1722 ppm	2.6837 ppm	0.0909 ppm
Concentration per Run 2	0.0017 ppm	0.0299 ppm	0.1069 ppm	0.2630 ppm	115.7757 ppm	2.7007 ppm	0.0920 ppm
Concentration per Run 3	0.0018 ppm	0.0307 ppm	0.1102 ppm	0.2735 ppm	116.2149 ppm	2.7131 ppm	0.0903 ppm
Concentration RSD	5.6 %	4.4 %	3.7 %	3.9 %	0.9 %	0.5 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.0245 ppm	3.4052 ppm	0.0077 ppm	0.6746 ppm	0.0835 ppm	2.3639 ppm	0.0083 ppm
Concentration per Run 1	10.5816 ppm	3.3624 ppm	0.0074 ppm	0.6690 ppm	0.0797 ppm	2.3262 ppm	0.0050 ppm
Concentration per Run 2	11.0435 ppm	3.4097 ppm	0.0075 ppm	0.6736 ppm	0.0838 ppm	2.3673 ppm	0.0094 ppm
Concentration per Run 3	11.4484 ppm	3.4435 ppm	0.0081 ppm	0.6813 ppm	0.0871 ppm	2.3983 ppm	0.0105 ppm
Concentration RSD	3.9 %	1.2 %	5.0 %	0.9 %	4.4 %	1.5 %	35.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	1.7028 ppm	0.0416 ppm	0.1621 ppm	0.6066 ppm	0.0019 ppm	0.1495 ppm
Concentration per Run 1	0.0029 ppm	1.6362 ppm	0.0418 ppm	0.1606 ppm	0.5825 ppm	-0.0004 ppm	0.1441 ppm
Concentration per Run 2	0.0036 ppm	1.7025 ppm	0.0423 ppm	0.1624 ppm	0.6079 ppm	0.0022 ppm	0.1496 ppm
Concentration per Run 3	0.0024 ppm	1.7698 ppm	0.0408 ppm	0.1632 ppm	0.6295 ppm	0.0040 ppm	0.1549 ppm
Concentration RSD	21.0 %	3.9 %	1.8 %	0.8 %	3.9 %	115.0 %	3.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8218 ppm	112.3586 %	106.1483 %	100.3027 %	116.0569 %	118.7915 %	115.9168 %
Concentration per Run 1	0.7894 ppm	116.9461 %	107.6695 %	101.8402 %	115.5670 %	119.6990 %	115.7025 %
Concentration per Run 2	0.8212 ppm	111.9381 %	105.9127 %	100.0551 %	116.1625 %	118.8733 %	115.9560 %
Concentration per Run 3	0.8548 ppm	108.1916 %	104.8626 %	99.0127 %	116.4412 %	117.8021 %	116.0919 %
Concentration RSD	4.0 %	3.9 %	1.3 %	1.4 %	0.4 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-05D2 WG1934595
Analysis started at: 6/17/2024 2:49:58 PM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	92.2911 ppm	0.0119 ppm	0.0055 ppm	0.5972 ppm	0.0037 ppm	13.0994 ppm
Concentration per Run 1	-0.0003 ppm	92.3751 ppm	0.0110 ppm	0.0052 ppm	0.5960 ppm	0.0037 ppm	13.0837 ppm
Concentration per Run 2	0.0003 ppm	92.1112 ppm	0.0120 ppm	0.0049 ppm	0.5990 ppm	0.0037 ppm	13.1768 ppm
Concentration per Run 3	0.0004 ppm	92.3870 ppm	0.0129 ppm	0.0063 ppm	0.5966 ppm	0.0038 ppm	13.0377 ppm
Concentration RSD	250.9 %	0.2 %	7.8 %	13.4 %	0.3 %	1.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0290 ppm	0.1520 ppm	0.1585 ppm	128.6749 ppm	2.5154 ppm	0.0904 ppm
Concentration per Run 1	0.0003 ppm	0.0289 ppm	0.1510 ppm	0.1574 ppm	128.3758 ppm	2.5319 ppm	0.0929 ppm
Concentration per Run 2	0.0004 ppm	0.0297 ppm	0.1510 ppm	0.1586 ppm	129.4092 ppm	2.5297 ppm	0.0901 ppm
Concentration per Run 3	0.0002 ppm	0.0283 ppm	0.1540 ppm	0.1594 ppm	128.2397 ppm	2.4847 ppm	0.0883 ppm
Concentration RSD	34.6 %	2.4 %	1.1 %	0.7 %	0.5 %	1.1 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7697 ppm	0.5940 ppm	0.0058 ppm	0.5926 ppm	0.0854 ppm	0.1525 ppm	-0.0014 ppm
Concentration per Run 1	16.6602 ppm	0.5938 ppm	0.0046 ppm	0.5929 ppm	0.0842 ppm	0.1519 ppm	-0.0004 ppm
Concentration per Run 2	16.8096 ppm	0.5936 ppm	0.0062 ppm	0.5961 ppm	0.0856 ppm	0.1530 ppm	-0.0015 ppm
Concentration per Run 3	16.8394 ppm	0.5946 ppm	0.0067 ppm	0.5889 ppm	0.0863 ppm	0.1525 ppm	-0.0021 ppm
Concentration RSD	0.6 %	0.1 %	18.6 %	0.6 %	1.2 %	0.4 %	63.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.6137 ppm	0.0062 ppm	0.0708 ppm	0.4127 ppm	0.0007 ppm	0.1960 ppm
Concentration per Run 1	0.0009 ppm	0.6047 ppm	0.0064 ppm	0.0706 ppm	0.4104 ppm	-0.0010 ppm	0.1947 ppm
Concentration per Run 2	-0.0011 ppm	0.6268 ppm	0.0062 ppm	0.0710 ppm	0.4123 ppm	0.0003 ppm	0.1964 ppm
Concentration per Run 3	-0.0009 ppm	0.6096 ppm	0.0060 ppm	0.0707 ppm	0.4155 ppm	0.0029 ppm	0.1970 ppm
Concentration RSD	324.7 %	1.9 %	3.3 %	0.3 %	0.6 %	273.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3459 ppm	94.1118 %	101.8187 %	93.5716 %	117.3722 %	123.9053 %	119.0150 %
Concentration per Run 1	0.3422 ppm	94.8156 %	101.8261 %	94.1556 %	117.4517 %	123.8622 %	119.5590 %
Concentration per Run 2	0.3483 ppm	93.2628 %	100.9091 %	93.4050 %	116.7057 %	122.7781 %	118.7754 %
Concentration per Run 3	0.3471 ppm	94.2570 %	102.7209 %	93.1543 %	117.9591 %	125.0755 %	118.7108 %
Concentration RSD	0.9 %	0.8 %	0.9 %	0.6 %	0.5 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-06D2 WG1934595
Analysis started at: 6/17/2024 2:53:57 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	44.8290 ppm	0.0113 ppm	0.0100 ppm	0.3875 ppm	0.0031 ppm	12.9894 ppm
Concentration per Run 1	0.0006 ppm	45.0485 ppm	0.0115 ppm	0.0102 ppm	0.3885 ppm	0.0031 ppm	13.0292 ppm
Concentration per Run 2	0.0003 ppm	44.5989 ppm	0.0117 ppm	0.0100 ppm	0.3853 ppm	0.0032 ppm	13.0563 ppm
Concentration per Run 3	-0.0001 ppm	44.8397 ppm	0.0108 ppm	0.0098 ppm	0.3886 ppm	0.0031 ppm	12.8827 ppm
Concentration RSD	141.3 %	0.5 %	4.2 %	2.1 %	0.5 %	2.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0362 ppm	0.1136 ppm	0.2006 ppm	92.8584 ppm	2.6649 ppm	0.0354 ppm
Concentration per Run 1	0.0004 ppm	0.0360 ppm	0.1133 ppm	0.2005 ppm	92.9037 ppm	2.6699 ppm	0.0364 ppm
Concentration per Run 2	0.0003 ppm	0.0364 ppm	0.1137 ppm	0.2008 ppm	93.4694 ppm	2.6612 ppm	0.0355 ppm
Concentration per Run 3	0.0001 ppm	0.0362 ppm	0.1138 ppm	0.2006 ppm	92.2020 ppm	2.6634 ppm	0.0342 ppm
Concentration RSD	54.1 %	0.5 %	0.3 %	0.1 %	0.7 %	0.2 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.3218 ppm	1.1478 ppm	0.0062 ppm	0.6116 ppm	0.0634 ppm	0.0847 ppm	0.0024 ppm
Concentration per Run 1	11.3085 ppm	1.1538 ppm	0.0058 ppm	0.6103 ppm	0.0630 ppm	0.0852 ppm	0.0013 ppm
Concentration per Run 2	11.3219 ppm	1.1478 ppm	0.0058 ppm	0.6246 ppm	0.0636 ppm	0.0853 ppm	0.0018 ppm
Concentration per Run 3	11.3351 ppm	1.1419 ppm	0.0069 ppm	0.5998 ppm	0.0636 ppm	0.0835 ppm	0.0041 ppm
Concentration RSD	0.1 %	0.5 %	9.9 %	2.0 %	0.5 %	1.2 %	62.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	1.3121 ppm	0.0038 ppm	0.0563 ppm	0.9713 ppm	-0.0004 ppm	0.1345 ppm
Concentration per Run 1	-0.0022 ppm	1.3123 ppm	0.0032 ppm	0.0561 ppm	0.9683 ppm	0.0012 ppm	0.1345 ppm
Concentration per Run 2	-0.0024 ppm	1.3124 ppm	0.0047 ppm	0.0573 ppm	0.9730 ppm	-0.0017 ppm	0.1339 ppm
Concentration per Run 3	-0.0002 ppm	1.3115 ppm	0.0034 ppm	0.0556 ppm	0.9726 ppm	-0.0008 ppm	0.1350 ppm
Concentration RSD	76.9 %	0.0 %	22.1 %	1.5 %	0.3 %	358.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1670 ppm	93.3828 %	101.9371 %	92.7182 %	116.2313 %	122.3211 %	116.7331 %
Concentration per Run 1	0.1661 ppm	94.1329 %	102.2333 %	92.9701 %	117.0585 %	122.6309 %	116.9612 %
Concentration per Run 2	0.1675 ppm	92.6365 %	101.3170 %	92.4545 %	115.0198 %	122.3380 %	116.2564 %
Concentration per Run 3	0.1673 ppm	93.3791 %	102.2611 %	92.7302 %	116.6157 %	121.9944 %	116.9816 %
Concentration RSD	0.4 %	0.8 %	0.5 %	0.3 %	0.9 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-07D2 WG1934595
Analysis started at: 6/17/2024 2:57:53 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	90.4507 ppm	0.0214 ppm	0.0095 ppm	0.4683 ppm	0.0038 ppm	12.6632 ppm
Concentration per Run 1	-0.0002 ppm	90.8647 ppm	0.0213 ppm	0.0103 ppm	0.4678 ppm	0.0039 ppm	12.6616 ppm
Concentration per Run 2	0.0001 ppm	90.0720 ppm	0.0206 ppm	0.0107 ppm	0.4692 ppm	0.0038 ppm	12.6470 ppm
Concentration per Run 3	0.0003 ppm	90.4155 ppm	0.0225 ppm	0.0076 ppm	0.4681 ppm	0.0039 ppm	12.6811 ppm
Concentration RSD	606.9 %	0.4 %	4.5 %	17.8 %	0.2 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0439 ppm	0.1298 ppm	0.2013 ppm	144.0618 ppm	2.7518 ppm	0.0687 ppm
Concentration per Run 1	0.0006 ppm	0.0429 ppm	0.1290 ppm	0.2006 ppm	144.5706 ppm	2.8168 ppm	0.0701 ppm
Concentration per Run 2	0.0008 ppm	0.0442 ppm	0.1301 ppm	0.2010 ppm	143.3717 ppm	2.7019 ppm	0.0673 ppm
Concentration per Run 3	0.0006 ppm	0.0445 ppm	0.1303 ppm	0.2024 ppm	144.2429 ppm	2.7368 ppm	0.0687 ppm
Concentration RSD	13.0 %	1.9 %	0.5 %	0.5 %	0.4 %	2.1 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.2664 ppm	2.9788 ppm	0.0032 ppm	0.6071 ppm	0.0938 ppm	0.2532 ppm	0.0017 ppm
Concentration per Run 1	16.1471 ppm	2.9859 ppm	0.0031 ppm	0.6101 ppm	0.0930 ppm	0.2537 ppm	0.0020 ppm
Concentration per Run 2	16.2943 ppm	2.9737 ppm	0.0032 ppm	0.6057 ppm	0.0934 ppm	0.2518 ppm	0.0009 ppm
Concentration per Run 3	16.3580 ppm	2.9770 ppm	0.0032 ppm	0.6055 ppm	0.0952 ppm	0.2541 ppm	0.0021 ppm
Concentration RSD	0.7 %	0.2 %	1.1 %	0.4 %	1.2 %	0.5 %	38.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	1.3026 ppm	0.0080 ppm	0.0748 ppm	0.8971 ppm	0.0010 ppm	0.1984 ppm
Concentration per Run 1	-0.0005 ppm	1.2992 ppm	0.0074 ppm	0.0747 ppm	0.8900 ppm	-0.0004 ppm	0.1961 ppm
Concentration per Run 2	-0.0016 ppm	1.3053 ppm	0.0086 ppm	0.0749 ppm	0.8998 ppm	0.0007 ppm	0.1987 ppm
Concentration per Run 3	-0.0026 ppm	1.3033 ppm	0.0081 ppm	0.0748 ppm	0.9014 ppm	0.0027 ppm	0.2003 ppm
Concentration RSD	67.8 %	0.2 %	7.4 %	0.1 %	0.7 %	157.6 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5241 ppm	94.7087 %	102.1512 %	92.9438 %	113.7865 %	119.8368 %	115.2392 %
Concentration per Run 1	0.5207 ppm	95.2469 %	102.0962 %	93.5452 %	113.9396 %	119.9069 %	115.7981 %
Concentration per Run 2	0.5242 ppm	94.6562 %	102.0738 %	93.1910 %	113.4769 %	119.5145 %	115.1454 %
Concentration per Run 3	0.5274 ppm	94.2229 %	102.2836 %	92.0951 %	113.9430 %	120.0891 %	114.7742 %
Concentration RSD	0.6 %	0.5 %	0.1 %	0.8 %	0.2 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-08D2 WG1934595
Analysis started at: 6/17/2024 3:01:49 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	59.6992 ppm	0.0095 ppm	0.0085 ppm	0.2456 ppm	0.0029 ppm	9.1340 ppm
Concentration per Run 1	0.0001 ppm	59.6809 ppm	0.0099 ppm	0.0080 ppm	0.2463 ppm	0.0029 ppm	9.1100 ppm
Concentration per Run 2	0.0006 ppm	59.4971 ppm	0.0097 ppm	0.0096 ppm	0.2450 ppm	0.0029 ppm	9.1372 ppm
Concentration per Run 3	0.0002 ppm	59.9195 ppm	0.0089 ppm	0.0080 ppm	0.2456 ppm	0.0029 ppm	9.1547 ppm
Concentration RSD	85.1 %	0.4 %	5.7 %	10.8 %	0.3 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0291 ppm	0.1007 ppm	0.1054 ppm	101.7740 ppm	2.3296 ppm	0.0430 ppm
Concentration per Run 1	0.0001 ppm	0.0292 ppm	0.0999 ppm	0.1054 ppm	101.7245 ppm	2.3816 ppm	0.0442 ppm
Concentration per Run 2	0.0001 ppm	0.0294 ppm	0.1012 ppm	0.1058 ppm	101.7217 ppm	2.2928 ppm	0.0415 ppm
Concentration per Run 3	0.0000 ppm	0.0288 ppm	0.1010 ppm	0.1050 ppm	101.8758 ppm	2.3144 ppm	0.0434 ppm
Concentration RSD	99.5 %	1.0 %	0.7 %	0.4 %	0.1 %	2.0 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.7366 ppm	0.6367 ppm	0.0020 ppm	0.4917 ppm	0.0635 ppm	0.0777 ppm	0.0004 ppm
Concentration per Run 1	11.7233 ppm	0.6373 ppm	0.0017 ppm	0.4889 ppm	0.0630 ppm	0.0761 ppm	0.0009 ppm
Concentration per Run 2	11.7631 ppm	0.6347 ppm	0.0018 ppm	0.4893 ppm	0.0643 ppm	0.0782 ppm	-0.0019 ppm
Concentration per Run 3	11.7234 ppm	0.6382 ppm	0.0026 ppm	0.4968 ppm	0.0632 ppm	0.0789 ppm	0.0022 ppm
Concentration RSD	0.2 %	0.3 %	24.6 %	0.9 %	1.1 %	1.9 %	517.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.9099 ppm	0.0028 ppm	0.0383 ppm	0.9386 ppm	0.0003 ppm	0.1445 ppm
Concentration per Run 1	-0.0012 ppm	0.8998 ppm	0.0036 ppm	0.0382 ppm	0.9339 ppm	0.0013 ppm	0.1443 ppm
Concentration per Run 2	-0.0029 ppm	0.9177 ppm	0.0024 ppm	0.0382 ppm	0.9416 ppm	0.0004 ppm	0.1443 ppm
Concentration per Run 3	-0.0014 ppm	0.9122 ppm	0.0024 ppm	0.0385 ppm	0.9402 ppm	-0.0006 ppm	0.1448 ppm
Concentration RSD	52.1 %	1.0 %	25.5 %	0.4 %	0.4 %	274.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1886 ppm	93.8592 %	102.1920 %	92.9078 %	114.2111 %	119.8750 %	114.3109 %
Concentration per Run 1	0.1870 ppm	94.0963 %	102.8445 %	93.6110 %	114.4315 %	120.7934 %	115.1280 %
Concentration per Run 2	0.1897 ppm	93.6766 %	102.1066 %	92.6486 %	113.9687 %	119.5575 %	113.7748 %
Concentration per Run 3	0.1892 ppm	93.8047 %	101.6250 %	92.4638 %	114.2331 %	119.2741 %	114.0298 %
Concentration RSD	0.8 %	0.2 %	0.6 %	0.7 %	0.2 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432740-09D2 WG1934595
Analysis started at: 6/17/2024 3:05:45 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	41.1446 ppm	0.0097 ppm	0.0112 ppm	0.3081 ppm	0.0033 ppm	13.3032 ppm
Concentration per Run 1	0.0006 ppm	41.1027 ppm	0.0089 ppm	0.0113 ppm	0.3056 ppm	0.0033 ppm	13.3075 ppm
Concentration per Run 2	0.0001 ppm	41.1079 ppm	0.0102 ppm	0.0096 ppm	0.3095 ppm	0.0033 ppm	13.2658 ppm
Concentration per Run 3	-0.0002 ppm	41.2232 ppm	0.0099 ppm	0.0127 ppm	0.3093 ppm	0.0033 ppm	13.3364 ppm
Concentration RSD	235.2 %	0.2 %	7.2 %	14.0 %	0.7 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0408 ppm	0.1087 ppm	0.1803 ppm	98.1761 ppm	2.6416 ppm	0.0325 ppm
Concentration per Run 1	0.0003 ppm	0.0407 ppm	0.1085 ppm	0.1798 ppm	97.8861 ppm	2.6702 ppm	0.0346 ppm
Concentration per Run 2	0.0003 ppm	0.0408 ppm	0.1083 ppm	0.1802 ppm	98.4334 ppm	2.6448 ppm	0.0316 ppm
Concentration per Run 3	0.0002 ppm	0.0409 ppm	0.1093 ppm	0.1809 ppm	98.2089 ppm	2.6098 ppm	0.0314 ppm
Concentration RSD	15.1 %	0.2 %	0.5 %	0.3 %	0.3 %	1.1 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.5058 ppm	1.0349 ppm	0.0063 ppm	0.5892 ppm	0.0666 ppm	0.0692 ppm	0.0000 ppm
Concentration per Run 1	11.4623 ppm	1.0352 ppm	0.0062 ppm	0.5844 ppm	0.0658 ppm	0.0694 ppm	-0.0023 ppm
Concentration per Run 2	11.4842 ppm	1.0323 ppm	0.0069 ppm	0.5870 ppm	0.0667 ppm	0.0691 ppm	0.0033 ppm
Concentration per Run 3	11.5708 ppm	1.0372 ppm	0.0059 ppm	0.5960 ppm	0.0674 ppm	0.0692 ppm	-0.0010 ppm
Concentration RSD	0.5 %	0.2 %	8.1 %	1.0 %	1.2 %	0.3 %	63,387.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	2.3704 ppm	0.0031 ppm	0.0526 ppm	0.9267 ppm	0.0000 ppm	0.1296 ppm
Concentration per Run 1	0.0012 ppm	2.3678 ppm	0.0035 ppm	0.0527 ppm	0.9220 ppm	-0.0001 ppm	0.1293 ppm
Concentration per Run 2	-0.0012 ppm	2.3598 ppm	0.0033 ppm	0.0527 ppm	0.9281 ppm	-0.0002 ppm	0.1295 ppm
Concentration per Run 3	-0.0025 ppm	2.3836 ppm	0.0025 ppm	0.0525 ppm	0.9301 ppm	0.0003 ppm	0.1302 ppm
Concentration RSD	221.5 %	0.5 %	17.0 %	0.2 %	0.5 %	7,845.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1434 ppm	93.8856 %	101.1281 %	93.1717 %	117.1051 %	122.7506 %	117.8857 %
Concentration per Run 1	0.1437 ppm	93.8371 %	101.2556 %	92.9539 %	116.7435 %	123.1816 %	117.7358 %
Concentration per Run 2	0.1431 ppm	94.4585 %	100.9568 %	93.3299 %	118.1204 %	122.1347 %	117.9845 %
Concentration per Run 3	0.1434 ppm	93.3612 %	101.1719 %	93.2315 %	116.4515 %	122.9356 %	117.9366 %
Concentration RSD	0.2 %	0.6 %	0.2 %	0.2 %	0.8 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-01D10 WG1934529
Analysis started at: 6/17/2024 3:10:06 PM
Rack 1
Vial 41
Comment Zn Ca Sn LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	12.6098 ppm	0.0009 ppm	0.0445 ppm	0.0899 ppm	0.0002 ppm	251.5785 ppm
Concentration per Run 1	0.0005 ppm	12.5977 ppm	0.0013 ppm	0.0443 ppm	0.0905 ppm	0.0001 ppm	250.5059 ppm
Concentration per Run 2	0.0006 ppm	12.6167 ppm	0.0011 ppm	0.0432 ppm	0.0897 ppm	0.0001 ppm	251.5784 ppm
Concentration per Run 3	0.0004 ppm	12.6149 ppm	0.0003 ppm	0.0461 ppm	0.0894 ppm	0.0002 ppm	252.6511 ppm
Concentration RSD	17.2 %	0.1 %	58.2 %	3.3 %	0.6 %	18.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0132 ppm	0.0083 ppm	0.0739 ppm	0.5550 ppm	20.5796 ppm	1.7047 ppm	0.0081 ppm
Concentration per Run 1	0.0133 ppm	0.0081 ppm	0.0742 ppm	0.5575 ppm	20.5221 ppm	1.7178 ppm	0.0092 ppm
Concentration per Run 2	0.0133 ppm	0.0083 ppm	0.0740 ppm	0.5545 ppm	20.5568 ppm	1.7143 ppm	0.0079 ppm
Concentration per Run 3	0.0131 ppm	0.0085 ppm	0.0733 ppm	0.5530 ppm	20.6599 ppm	1.6820 ppm	0.0070 ppm
Concentration RSD	0.8 %	2.2 %	0.6 %	0.4 %	0.3 %	1.2 %	13.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.7249 ppm	0.2075 ppm	0.0005 ppm	4.8019 ppm	0.0301 ppm	0.3483 ppm	0.1874 ppm
Concentration per Run 1	14.8490 ppm	0.2073 ppm	0.0006 ppm	4.7929 ppm	0.0308 ppm	0.3491 ppm	0.1883 ppm
Concentration per Run 2	14.6999 ppm	0.2072 ppm	0.0006 ppm	4.7906 ppm	0.0303 ppm	0.3493 ppm	0.1874 ppm
Concentration per Run 3	14.6258 ppm	0.2079 ppm	0.0004 ppm	4.8224 ppm	0.0292 ppm	0.3466 ppm	0.1863 ppm
Concentration RSD	0.8 %	0.2 %	17.2 %	0.4 %	2.8 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	0.8557 ppm	8.5157 ppm	0.2106 ppm	0.5023 ppm	0.0002 ppm	0.0184 ppm
Concentration per Run 1	-0.0054 ppm	0.8619 ppm	8.5183 ppm	0.2096 ppm	0.5038 ppm	-0.0002 ppm	0.0184 ppm
Concentration per Run 2	-0.0019 ppm	0.8558 ppm	8.5429 ppm	0.2099 ppm	0.5031 ppm	0.0003 ppm	0.0186 ppm
Concentration per Run 3	-0.0012 ppm	0.8493 ppm	8.4860 ppm	0.2123 ppm	0.4999 ppm	0.0007 ppm	0.0181 ppm
Concentration RSD	79.9 %	0.7 %	0.3 %	0.7 %	0.4 %	191.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	39.8885 ppm	88.8089 %	102.4432 %	87.8902 %	98.4316 %	107.2393 %	98.1824 %
Concentration per Run 1	40.2408 ppm	87.9437 %	103.4484 %	87.8355 %	97.8812 %	108.2580 %	98.4376 %
Concentration per Run 2	40.1182 ppm	88.9632 %	102.1827 %	88.0444 %	98.8067 %	106.8623 %	98.3288 %
Concentration per Run 3	39.3066 ppm	89.5197 %	101.6983 %	87.7908 %	98.6068 %	106.5976 %	97.7808 %
Concentration RSD	1.3 %	0.9 %	0.9 %	0.2 %	0.5 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-04D5 WG1934529
Analysis started at: 6/17/2024 3:14:04 PM
Rack 1
Vial 42
Comment Zn & Ca LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	30.0414 ppm	0.0043 ppm	0.0218 ppm	0.9489 ppm	0.0003 ppm	445.5173 ppm
Concentration per Run 1	0.0011 ppm	30.0236 ppm	0.0051 ppm	0.0230 ppm	0.9551 ppm	0.0003 ppm	446.1669 ppm
Concentration per Run 2	0.0009 ppm	29.9613 ppm	0.0038 ppm	0.0220 ppm	0.9444 ppm	0.0004 ppm	444.8116 ppm
Concentration per Run 3	0.0011 ppm	30.1392 ppm	0.0040 ppm	0.0202 ppm	0.9472 ppm	0.0003 ppm	445.5733 ppm
Concentration RSD	11.7 %	0.3 %	15.8 %	6.5 %	0.6 %	11.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0115 ppm	0.2808 ppm	0.0206 ppm	0.0330 ppm	12.2081 ppm	1.0412 ppm	0.0263 ppm
Concentration per Run 1	0.0115 ppm	0.2829 ppm	0.0204 ppm	0.0332 ppm	12.2897 ppm	1.0820 ppm	0.0295 ppm
Concentration per Run 2	0.0113 ppm	0.2800 ppm	0.0202 ppm	0.0327 ppm	12.1541 ppm	1.0065 ppm	0.0226 ppm
Concentration per Run 3	0.0116 ppm	0.2796 ppm	0.0213 ppm	0.0332 ppm	12.1805 ppm	1.0350 ppm	0.0267 ppm
Concentration RSD	1.1 %	0.6 %	2.6 %	0.8 %	0.6 %	3.7 %	13.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.8250 ppm	0.5978 ppm	0.0021 ppm	2.0448 ppm	0.0108 ppm	2.9089 ppm	0.0005 ppm
Concentration per Run 1	11.8841 ppm	0.5992 ppm	0.0028 ppm	2.0509 ppm	0.0103 ppm	2.9151 ppm	-0.0008 ppm
Concentration per Run 2	11.8366 ppm	0.5962 ppm	0.0013 ppm	2.0432 ppm	0.0109 ppm	2.9077 ppm	0.0041 ppm
Concentration per Run 3	11.7542 ppm	0.5980 ppm	0.0021 ppm	2.0403 ppm	0.0112 ppm	2.9038 ppm	-0.0018 ppm
Concentration RSD	0.6 %	0.3 %	34.7 %	0.3 %	4.2 %	0.2 %	674.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0052 ppm	0.9937 ppm	0.1053 ppm	0.3935 ppm	0.7386 ppm	-0.0006 ppm	0.1831 ppm
Concentration per Run 1	-0.0045 ppm	0.9955 ppm	0.1054 ppm	0.3967 ppm	0.7406 ppm	0.0000 ppm	0.1835 ppm
Concentration per Run 2	-0.0060 ppm	0.9939 ppm	0.1051 ppm	0.3935 ppm	0.7378 ppm	-0.0005 ppm	0.1834 ppm
Concentration per Run 3	-0.0051 ppm	0.9917 ppm	0.1054 ppm	0.3902 ppm	0.7372 ppm	-0.0014 ppm	0.1823 ppm
Concentration RSD	14.7 %	0.2 %	0.2 %	0.8 %	0.2 %	113.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	30.5867 ppm	86.0356 %	99.8196 %	83.7493 %	96.3392 %	105.1514 %	95.3647 %
Concentration per Run 1	30.8749 ppm	85.6695 %	100.0285 %	83.7552 %	96.2117 %	105.6033 %	95.6170 %
Concentration per Run 2	30.4075 ppm	86.2644 %	99.2872 %	83.7364 %	96.3921 %	104.6023 %	95.3211 %
Concentration per Run 3	30.4777 ppm	86.1729 %	100.1431 %	83.7564 %	96.4137 %	105.2487 %	95.1559 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.0 %	0.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-06D10 WG1934529
Analysis started at: 6/17/2024 3:18:02 PM
Rack 1
Vial 43
Comment Zn & Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	8.4278 ppm	0.0198 ppm	0.0459 ppm	0.0284 ppm	0.0002 ppm	119.5540 ppm
Concentration per Run 1	0.0017 ppm	8.4174 ppm	0.0204 ppm	0.0449 ppm	0.0289 ppm	0.0002 ppm	119.4175 ppm
Concentration per Run 2	0.0016 ppm	8.4519 ppm	0.0191 ppm	0.0465 ppm	0.0281 ppm	0.0002 ppm	120.0112 ppm
Concentration per Run 3	0.0012 ppm	8.4140 ppm	0.0197 ppm	0.0464 ppm	0.0282 ppm	0.0002 ppm	119.2332 ppm
Concentration RSD	16.2 %	0.2 %	3.3 %	2.0 %	1.6 %	12.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0623 ppm	0.2840 ppm	0.6553 ppm	0.2461 ppm	41.9533 ppm	5.0676 ppm	0.1040 ppm
Concentration per Run 1	0.0626 ppm	0.2849 ppm	0.6601 ppm	0.2477 ppm	41.9649 ppm	5.1002 ppm	0.1072 ppm
Concentration per Run 2	0.0623 ppm	0.2830 ppm	0.6531 ppm	0.2459 ppm	42.0089 ppm	5.0725 ppm	0.1044 ppm
Concentration per Run 3	0.0620 ppm	0.2840 ppm	0.6527 ppm	0.2447 ppm	41.8861 ppm	5.0302 ppm	0.1003 ppm
Concentration RSD	0.5 %	0.3 %	0.6 %	0.6 %	0.1 %	0.7 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9354 ppm	0.4288 ppm	0.0103 ppm	15.0813 ppm	0.0481 ppm	35.0182 ppm	0.0183 ppm
Concentration per Run 1	5.9802 ppm	0.4277 ppm	0.0104 ppm	15.0666 ppm	0.0489 ppm	35.1151 ppm	0.0200 ppm
Concentration per Run 2	5.9360 ppm	0.4306 ppm	0.0105 ppm	15.1094 ppm	0.0470 ppm	34.9942 ppm	0.0162 ppm
Concentration per Run 3	5.8900 ppm	0.4279 ppm	0.0102 ppm	15.0678 ppm	0.0485 ppm	34.9454 ppm	0.0185 ppm
Concentration RSD	0.8 %	0.4 %	1.6 %	0.2 %	2.1 %	0.2 %	10.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.8841 ppm	0.0277 ppm	0.2510 ppm	2.0944 ppm	-0.0005 ppm	0.3377 ppm
Concentration per Run 1	0.0030 ppm	0.8864 ppm	0.0278 ppm	0.2504 ppm	2.1083 ppm	0.0001 ppm	0.3392 ppm
Concentration per Run 2	-0.0017 ppm	0.8832 ppm	0.0277 ppm	0.2534 ppm	2.0831 ppm	-0.0009 ppm	0.3372 ppm
Concentration per Run 3	0.0021 ppm	0.8828 ppm	0.0277 ppm	0.2493 ppm	2.0917 ppm	-0.0008 ppm	0.3369 ppm
Concentration RSD	220.8 %	0.2 %	0.2 %	0.8 %	0.6 %	101.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	25.9280 ppm	90.4500 %	103.4767 %	88.9504 %	99.8073 %	107.8186 %	99.5948 %
Concentration per Run 1	26.1314 ppm	89.8935 %	103.4679 %	88.9720 %	99.3158 %	107.5364 %	99.6032 %
Concentration per Run 2	25.8456 ppm	90.6571 %	103.5889 %	89.0286 %	100.0859 %	108.4806 %	99.7755 %
Concentration per Run 3	25.8069 ppm	90.7995 %	103.3733 %	88.8506 %	100.0201 %	107.4387 %	99.4057 %
Concentration RSD	0.7 %	0.5 %	0.1 %	0.1 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-07D10 WG1934529
Analysis started at: 6/17/2024 3:21:59 PM
Rack 1
Vial 44
Comment Ca LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	32.5926 ppm	0.0213 ppm	0.0296 ppm	0.3223 ppm	0.0025 ppm	306.1656 ppm
Concentration per Run 1	0.0002 ppm	32.7698 ppm	0.0203 ppm	0.0294 ppm	0.3261 ppm	0.0025 ppm	305.6540 ppm
Concentration per Run 2	-0.0003 ppm	32.4576 ppm	0.0216 ppm	0.0307 ppm	0.3190 ppm	0.0025 ppm	306.8038 ppm
Concentration per Run 3	0.0003 ppm	32.5505 ppm	0.0220 ppm	0.0288 ppm	0.3218 ppm	0.0025 ppm	306.0390 ppm
Concentration RSD	416.0 %	0.5 %	4.2 %	3.3 %	1.1 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0507 ppm	0.1166 ppm	0.0749 ppm	59.5982 ppm	5.1942 ppm	0.0540 ppm
Concentration per Run 1	0.0001 ppm	0.0501 ppm	0.1169 ppm	0.0753 ppm	59.4543 ppm	5.2736 ppm	0.0580 ppm
Concentration per Run 2	0.0001 ppm	0.0515 ppm	0.1168 ppm	0.0751 ppm	59.6803 ppm	5.1608 ppm	0.0514 ppm
Concentration per Run 3	0.0001 ppm	0.0505 ppm	0.1161 ppm	0.0744 ppm	59.6598 ppm	5.1482 ppm	0.0526 ppm
Concentration RSD	46.8 %	1.4 %	0.4 %	0.6 %	0.2 %	1.3 %	6.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.0562 ppm	1.5211 ppm	0.0092 ppm	1.7670 ppm	0.1190 ppm	0.0194 ppm	0.0017 ppm
Concentration per Run 1	24.0246 ppm	1.5261 ppm	0.0086 ppm	1.7473 ppm	0.1187 ppm	0.0193 ppm	0.0001 ppm
Concentration per Run 2	24.0901 ppm	1.5183 ppm	0.0094 ppm	1.7869 ppm	0.1177 ppm	0.0190 ppm	0.0027 ppm
Concentration per Run 3	24.0540 ppm	1.5191 ppm	0.0096 ppm	1.7668 ppm	0.1205 ppm	0.0200 ppm	0.0023 ppm
Concentration RSD	0.1 %	0.3 %	5.9 %	1.1 %	1.2 %	2.5 %	83.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0034 ppm	1.4962 ppm	0.0040 ppm	0.6720 ppm	0.6502 ppm	-0.0004 ppm	0.0526 ppm
Concentration per Run 1	-0.0045 ppm	1.5061 ppm	0.0039 ppm	0.6638 ppm	0.6474 ppm	-0.0003 ppm	0.0530 ppm
Concentration per Run 2	-0.0023 ppm	1.4978 ppm	0.0041 ppm	0.6750 ppm	0.6526 ppm	0.0012 ppm	0.0524 ppm
Concentration per Run 3	-0.0034 ppm	1.4847 ppm	0.0040 ppm	0.6770 ppm	0.6507 ppm	-0.0020 ppm	0.0525 ppm
Concentration RSD	33.1 %	0.7 %	2.6 %	1.1 %	0.4 %	448.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1483 ppm	89.8274 %	101.0187 %	88.4881 %	105.6344 %	113.3248 %	105.7556 %
Concentration per Run 1	0.1486 ppm	90.2016 %	102.2050 %	88.6524 %	106.1903 %	114.4937 %	106.0832 %
Concentration per Run 2	0.1480 ppm	89.4836 %	100.5777 %	87.9895 %	105.2207 %	113.2688 %	105.1479 %
Concentration per Run 3	0.1483 ppm	89.7971 %	100.2733 %	88.8224 %	105.4923 %	112.2119 %	106.0358 %
Concentration RSD	0.2 %	0.4 %	1.0 %	0.5 %	0.5 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 3:25:57 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4946 ppm	0.4850 ppm	0.4834 ppm	0.4922 ppm	0.5067 ppm	0.5234 ppm	0.5040 ppm
Concentration per Run 1	0.4915 ppm	0.4872 ppm	0.4810 ppm	0.4858 ppm	0.5058 ppm	0.5245 ppm	0.5040 ppm
Concentration per Run 2	0.4953 ppm	0.4874 ppm	0.4831 ppm	0.4945 ppm	0.5084 ppm	0.5226 ppm	0.5035 ppm
Concentration per Run 3	0.4971 ppm	0.4805 ppm	0.4861 ppm	0.4964 ppm	0.5061 ppm	0.5230 ppm	0.5044 ppm
Recovery Percentage 1	98.927 %	97.007 %	96.679 %	98.449 %	101.349 %	104.672 %	100.791 %
Concentration RSD	0.6 %	0.8 %	0.5 %	1.2 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4981 ppm	0.5094 ppm	0.4926 ppm	0.4862 ppm	0.5249 ppm	5.0856 ppm	0.6142 ppm
Concentration per Run 1	0.4950 ppm	0.5070 ppm	0.4904 ppm	0.4816 ppm	0.5236 ppm	5.0846 ppm	0.6142 ppm
Concentration per Run 2	0.4986 ppm	0.5095 ppm	0.4926 ppm	0.4878 ppm	0.5238 ppm	5.0905 ppm	0.6148 ppm
Concentration per Run 3	0.5005 ppm	0.5118 ppm	0.4947 ppm	0.4893 ppm	0.5274 ppm	5.0819 ppm	0.6135 ppm
Recovery Percentage 1	99.610 %	101.890 %	98.514 %	97.241 %	104.987 %	101.713 %	122.835 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.8 %	0.4 %	0.1 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4864 ppm	0.5026 ppm	0.5018 ppm	10.2625 ppm	0.5071 ppm	0.4994 ppm	0.5022 ppm
Concentration per Run 1	0.4847 ppm	0.5023 ppm	0.4903 ppm	10.2417 ppm	0.5039 ppm	0.4967 ppm	0.4994 ppm
Concentration per Run 2	0.4885 ppm	0.5038 ppm	0.5049 ppm	10.2695 ppm	0.5072 ppm	0.4987 ppm	0.5025 ppm
Concentration per Run 3	0.4860 ppm	0.5017 ppm	0.5104 ppm	10.2763 ppm	0.5102 ppm	0.5029 ppm	0.5048 ppm
Recovery Percentage 1	97.278 %	100.523 %	100.369 %	102.625 %	101.416 %	99.883 %	100.446 %
Concentration RSD	0.4 %	0.2 %	2.1 %	0.2 %	0.6 %	0.6 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4920 ppm	5.4981 ppm	0.5045 ppm	0.5030 ppm	0.5016 ppm	0.4865 ppm	0.4931 ppm
Concentration per Run 1	0.4937 ppm	5.4527 ppm	0.5086 ppm	0.5029 ppm	0.4985 ppm	0.4803 ppm	0.4897 ppm
Concentration per Run 2	0.4869 ppm	5.5003 ppm	0.5025 ppm	0.5026 ppm	0.5018 ppm	0.4885 ppm	0.4933 ppm
Concentration per Run 3	0.4955 ppm	5.5414 ppm	0.5023 ppm	0.5036 ppm	0.5045 ppm	0.4907 ppm	0.4964 ppm
Recovery Percentage 1	98.404 %	104.727 %	100.890 %	100.607 %	100.321 %	97.294 %	98.626 %
Concentration RSD	0.9 %	0.8 %	0.7 %	0.1 %	0.6 %	1.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5069 ppm	91.8839 %	99.3401 %	91.6815 %	96.8734 %	101.8302 %	96.9575 %
Concentration per Run 1	0.5034 ppm	91.8165 %	99.5535 %	92.1597 %	95.6424 %	102.0767 %	97.3375 %
Concentration per Run 2	0.5068 ppm	92.2989 %	99.3054 %	92.0554 %	97.4945 %	101.7718 %	97.3011 %
Concentration per Run 3	0.5104 ppm	91.5363 %	99.1614 %	90.8293 %	97.4832 %	101.6422 %	96.2339 %
Recovery Percentage 1	101.374 %						
Concentration RSD	0.7 %	0.4 %	0.2 %	0.8 %	1.1 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 3:29:55 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0109 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 1	0.0000 ppm	-0.0028 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	-0.0366 ppm	-0.0003 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 3	0.0002 ppm	0.0068 ppm	0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm
Recovery Percentage 1	0.773 %	-10.888 %	-1.625 %	2.799 %	-0.143 %	0.229 %	2.497 %
Concentration RSD	260.3 %	209.1 %	490.8 %	25.5 %	784.4 %	380.6 %	36.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0009 ppm	0.0159 ppm	-0.0025 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0011 ppm	0.0166 ppm	0.0063 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0148 ppm	0.0038 ppm	-0.0015 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0162 ppm	-0.0177 ppm	-0.0011 ppm
Recovery Percentage 1	0.081 %	0.792 %	-0.229 %	8.511 %	31.716 %	-0.101 %	-10.058 %
Concentration RSD	2,806.9 %	212.9 %	617.6 %	38.4 %	6.1 %	524.9 %	50.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0003 ppm	0.0018 ppm	0.0143 ppm	0.0002 ppm	0.0003 ppm	-0.0017 ppm
Concentration per Run 1	-0.0025 ppm	0.0001 ppm	0.0017 ppm	0.0168 ppm	0.0002 ppm	0.0012 ppm	-0.0003 ppm
Concentration per Run 2	-0.0004 ppm	0.0004 ppm	0.0022 ppm	0.0122 ppm	0.0006 ppm	-0.0010 ppm	0.0014 ppm
Concentration per Run 3	-0.0019 ppm	0.0003 ppm	0.0016 ppm	0.0138 ppm	-0.0002 ppm	0.0007 ppm	-0.0062 ppm
Recovery Percentage 1	-1.587 %	2.885 %	3.648 %	0.713 %	0.770 %	2.913 %	-3.451 %
Concentration RSD	66.7 %	45.0 %	17.5 %	16.3 %	197.8 %	394.5 %	230.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	-0.0056 ppm	0.0006 ppm	0.0001 ppm	-0.0005 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	-0.0036 ppm	-0.0052 ppm	0.0006 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 2	-0.0006 ppm	-0.0057 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	-0.0060 ppm	0.0011 ppm	0.0001 ppm	-0.0007 ppm	-0.0003 ppm	-0.0003 ppm
Recovery Percentage 1	-10.244 %	-1.127 %	1.264 %	1.011 %	-4.512 %	-2.058 %	-2.195 %
Concentration RSD	231.6 %	7.4 %	67.5 %	57.8 %	44.5 %	121.2 %	68.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	84.1243 %	95.9707 %	88.3118 %	98.1284 %	103.8387 %	99.3837 %
Concentration per Run 1	0.0008 ppm	83.3851 %	95.5006 %	88.1611 %	98.0476 %	103.8273 %	99.7532 %
Concentration per Run 2	0.0009 ppm	84.3903 %	96.4573 %	88.2250 %	98.2881 %	104.2600 %	99.2606 %
Concentration per Run 3	0.0007 ppm	84.5975 %	95.9542 %	88.5492 %	98.0494 %	103.4289 %	99.1371 %
Recovery Percentage 1	15.143 %						
Concentration RSD	13.3 %	0.8 %	0.5 %	0.2 %	0.1 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-11D4 WG1934529
Analysis started at: 6/17/2024 3:34:07 PM
Rack 1
Vial 45
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	61.5104 ppm	0.0284 ppm	0.0198 ppm	0.7824 ppm	0.0004 ppm	15.5035 ppm
Concentration per Run 1	0.0017 ppm	61.4776 ppm	0.0288 ppm	0.0204 ppm	0.7854 ppm	0.0004 ppm	15.4742 ppm
Concentration per Run 2	0.0014 ppm	61.5283 ppm	0.0286 ppm	0.0195 ppm	0.7745 ppm	0.0005 ppm	15.5384 ppm
Concentration per Run 3	0.0011 ppm	61.5252 ppm	0.0278 ppm	0.0196 ppm	0.7872 ppm	0.0003 ppm	15.4978 ppm
Concentration RSD	20.5 %	0.0 %	1.9 %	2.5 %	0.9 %	13.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0253 ppm	0.3817 ppm	0.9320 ppm	0.4387 ppm	224.7740 ppm	1.6266 ppm	0.0101 ppm
Concentration per Run 1	0.0250 ppm	0.3792 ppm	0.9239 ppm	0.4355 ppm	225.6891 ppm	1.6461 ppm	0.0101 ppm
Concentration per Run 2	0.0255 ppm	0.3820 ppm	0.9310 ppm	0.4391 ppm	224.3327 ppm	1.6367 ppm	0.0096 ppm
Concentration per Run 3	0.0255 ppm	0.3838 ppm	0.9410 ppm	0.4414 ppm	224.3003 ppm	1.5969 ppm	0.0105 ppm
Concentration RSD	1.0 %	0.6 %	0.9 %	0.7 %	0.4 %	1.6 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3801 ppm	2.8214 ppm	0.0516 ppm	1.2480 ppm	0.2414 ppm	30.6338 ppm	0.0394 ppm
Concentration per Run 1	5.3554 ppm	2.8228 ppm	0.0497 ppm	1.2504 ppm	0.2395 ppm	30.5919 ppm	0.0386 ppm
Concentration per Run 2	5.3867 ppm	2.8209 ppm	0.0509 ppm	1.2540 ppm	0.2403 ppm	30.5025 ppm	0.0413 ppm
Concentration per Run 3	5.3982 ppm	2.8205 ppm	0.0543 ppm	1.2395 ppm	0.2445 ppm	30.8069 ppm	0.0384 ppm
Concentration RSD	0.4 %	0.0 %	4.6 %	0.6 %	1.1 %	0.5 %	4.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	1.1021 ppm	0.0513 ppm	0.1089 ppm	2.9528 ppm	0.0016 ppm	0.7785 ppm
Concentration per Run 1	-0.0029 ppm	1.0969 ppm	0.0518 ppm	0.1094 ppm	2.9359 ppm	0.0017 ppm	0.7724 ppm
Concentration per Run 2	0.0000 ppm	1.1004 ppm	0.0506 ppm	0.1088 ppm	2.9498 ppm	0.0011 ppm	0.7798 ppm
Concentration per Run 3	-0.0032 ppm	1.1091 ppm	0.0516 ppm	0.1085 ppm	2.9726 ppm	0.0019 ppm	0.7835 ppm
Concentration RSD	87.9 %	0.6 %	1.2 %	0.4 %	0.6 %	27.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.7104 ppm	93.6908 %	105.3008 %	88.9623 %	100.6519 %	109.9701 %	101.5899 %
Concentration per Run 1	8.6392 ppm	93.8105 %	104.9478 %	89.3143 %	99.8866 %	109.7425 %	101.4764 %
Concentration per Run 2	8.6861 ppm	93.7829 %	104.9735 %	88.9761 %	101.0158 %	109.6053 %	101.5231 %
Concentration per Run 3	8.8059 ppm	93.4790 %	105.9811 %	88.5964 %	101.0531 %	110.5626 %	101.7702 %
Concentration RSD	1.0 %	0.2 %	0.6 %	0.4 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-12D5 WG1934529
Analysis started at: 6/17/2024 3:38:07 PM
Rack 1
Vial 46
Comment Fe LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	70.5082 ppm	0.0399 ppm	0.0361 ppm	0.2948 ppm	0.0019 ppm	246.9548 ppm
Concentration per Run 1	-0.0010 ppm	70.2317 ppm	0.0392 ppm	0.0355 ppm	0.2939 ppm	0.0019 ppm	247.7941 ppm
Concentration per Run 2	-0.0014 ppm	70.4187 ppm	0.0396 ppm	0.0363 ppm	0.2917 ppm	0.0019 ppm	247.0205 ppm
Concentration per Run 3	0.0001 ppm	70.8742 ppm	0.0408 ppm	0.0365 ppm	0.2987 ppm	0.0018 ppm	246.0498 ppm
Concentration RSD	96.6 %	0.5 %	2.0 %	1.4 %	1.2 %	4.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0056 ppm	0.0975 ppm	0.7679 ppm	0.8362 ppm	393.1644 ppm	10.1493 ppm	0.0584 ppm
Concentration per Run 1	0.0056 ppm	0.0959 ppm	0.7580 ppm	0.8264 ppm	395.3622 ppm	10.1993 ppm	0.0601 ppm
Concentration per Run 2	0.0054 ppm	0.0979 ppm	0.7692 ppm	0.8359 ppm	392.3449 ppm	10.0430 ppm	0.0556 ppm
Concentration per Run 3	0.0059 ppm	0.0988 ppm	0.7767 ppm	0.8463 ppm	391.7861 ppm	10.2054 ppm	0.0597 ppm
Concentration RSD	4.1 %	1.5 %	1.2 %	1.2 %	0.5 %	0.9 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.0924 ppm	3.0628 ppm	0.1144 ppm	6.7634 ppm	0.4899 ppm	0.1514 ppm	0.0138 ppm
Concentration per Run 1	33.6357 ppm	3.0607 ppm	0.1096 ppm	6.8362 ppm	0.4854 ppm	0.1487 ppm	0.0130 ppm
Concentration per Run 2	34.1750 ppm	3.0618 ppm	0.1145 ppm	6.7888 ppm	0.4907 ppm	0.1527 ppm	0.0146 ppm
Concentration per Run 3	34.4666 ppm	3.0659 ppm	0.1191 ppm	6.6651 ppm	0.4937 ppm	0.1529 ppm	0.0138 ppm
Concentration RSD	1.2 %	0.1 %	4.2 %	1.3 %	0.9 %	1.6 %	5.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0047 ppm	1.9448 ppm	0.0835 ppm	1.5851 ppm	2.8585 ppm	-0.0003 ppm	0.1502 ppm
Concentration per Run 1	-0.0044 ppm	1.9248 ppm	0.0834 ppm	1.6034 ppm	2.8190 ppm	-0.0010 ppm	0.1479 ppm
Concentration per Run 2	-0.0058 ppm	1.9391 ppm	0.0836 ppm	1.5891 ppm	2.8695 ppm	0.0008 ppm	0.1516 ppm
Concentration per Run 3	-0.0039 ppm	1.9705 ppm	0.0836 ppm	1.5628 ppm	2.8871 ppm	-0.0007 ppm	0.1510 ppm
Concentration RSD	20.6 %	1.2 %	0.1 %	1.3 %	1.2 %	304.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7411 ppm	91.1384 %	99.8355 %	82.6184 %	102.5836 %	110.9071 %	102.3330 %
Concentration per Run 1	0.7324 ppm	92.4177 %	98.9123 %	83.1919 %	102.8786 %	110.3529 %	102.7094 %
Concentration per Run 2	0.7430 ppm	91.0359 %	99.4789 %	82.4544 %	102.4443 %	110.5805 %	102.1391 %
Concentration per Run 3	0.7479 ppm	89.9615 %	101.1154 %	82.2089 %	102.4279 %	111.7878 %	102.1505 %
Concentration RSD	1.1 %	1.4 %	1.1 %	0.6 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-13D10 WG1934529
Analysis started at: 6/17/2024 3:42:06 PM
Rack 1
Vial 47
Comment Zn & Ca LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	3.7596 ppm	0.0113 ppm	0.0262 ppm	0.2254 ppm	0.0000 ppm	369.9397 ppm
Concentration per Run 1	0.0003 ppm	3.7674 ppm	0.0138 ppm	0.0265 ppm	0.2256 ppm	0.0000 ppm	370.6775 ppm
Concentration per Run 2	0.0008 ppm	3.7734 ppm	0.0095 ppm	0.0256 ppm	0.2267 ppm	-0.0001 ppm	370.0964 ppm
Concentration per Run 3	0.0002 ppm	3.7379 ppm	0.0107 ppm	0.0265 ppm	0.2239 ppm	0.0000 ppm	369.0454 ppm
Concentration RSD	69.5 %	0.5 %	19.9 %	2.0 %	0.6 %	394.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0123 ppm	0.0068 ppm	0.0162 ppm	0.0105 ppm	4.7388 ppm	0.4038 ppm	0.0221 ppm
Concentration per Run 1	0.0124 ppm	0.0066 ppm	0.0162 ppm	0.0107 ppm	4.7435 ppm	0.4268 ppm	0.0221 ppm
Concentration per Run 2	0.0124 ppm	0.0068 ppm	0.0161 ppm	0.0103 ppm	4.7476 ppm	0.4134 ppm	0.0244 ppm
Concentration per Run 3	0.0122 ppm	0.0071 ppm	0.0163 ppm	0.0106 ppm	4.7254 ppm	0.3712 ppm	0.0200 ppm
Concentration RSD	0.8 %	4.3 %	0.6 %	1.9 %	0.2 %	7.2 %	9.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1685 ppm	0.0826 ppm	0.0055 ppm	5.1023 ppm	0.0033 ppm	1.9418 ppm	-0.0021 ppm
Concentration per Run 1	3.1863 ppm	0.0828 ppm	0.0056 ppm	5.1103 ppm	0.0030 ppm	1.9533 ppm	-0.0070 ppm
Concentration per Run 2	3.1769 ppm	0.0829 ppm	0.0057 ppm	5.1073 ppm	0.0042 ppm	1.9353 ppm	0.0003 ppm
Concentration per Run 3	3.1421 ppm	0.0822 ppm	0.0050 ppm	5.0892 ppm	0.0027 ppm	1.9367 ppm	0.0002 ppm
Concentration RSD	0.7 %	0.5 %	6.6 %	0.2 %	24.2 %	0.5 %	195.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0039 ppm	0.3928 ppm	0.0135 ppm	0.6884 ppm	0.6125 ppm	-0.0005 ppm	0.0885 ppm
Concentration per Run 1	-0.0038 ppm	0.3971 ppm	0.0137 ppm	0.6920 ppm	0.6145 ppm	-0.0018 ppm	0.0890 ppm
Concentration per Run 2	-0.0059 ppm	0.3930 ppm	0.0130 ppm	0.6894 ppm	0.6134 ppm	-0.0004 ppm	0.0887 ppm
Concentration per Run 3	-0.0020 ppm	0.3884 ppm	0.0137 ppm	0.6837 ppm	0.6095 ppm	0.0005 ppm	0.0878 ppm
Concentration RSD	50.4 %	1.1 %	2.9 %	0.6 %	0.4 %	213.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.9944 ppm	85.1386 %	98.8102 %	84.2984 %	95.5069 %	103.6638 %	94.7691 %
Concentration per Run 1	8.0915 ppm	84.5032 %	97.9360 %	84.3642 %	95.2881 %	102.8108 %	95.0673 %
Concentration per Run 2	8.0421 ppm	84.7597 %	99.1332 %	84.3084 %	95.1031 %	104.2926 %	94.7218 %
Concentration per Run 3	7.8497 ppm	86.1531 %	99.3614 %	84.2225 %	96.1294 %	103.8881 %	94.5181 %
Concentration RSD	1.6 %	1.0 %	0.8 %	0.1 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: eL2432396-15D10 WG1934529
Analysis started at: 6/17/2024 3:46:05 PM
Rack 1
Vial 48
Comment Zn LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0023 ppm	5.0660 ppm	0.0158 ppm	0.0453 ppm	0.1555 ppm	0.0001 ppm	149.2093 ppm
Concentration per Run 1	0.0024 ppm	5.0837 ppm	0.0159 ppm	0.0460 ppm	0.1559 ppm	0.0001 ppm	149.1003 ppm
Concentration per Run 2	0.0019 ppm	5.0552 ppm	0.0144 ppm	0.0452 ppm	0.1554 ppm	0.0001 ppm	148.8577 ppm
Concentration per Run 3	0.0027 ppm	5.0591 ppm	0.0171 ppm	0.0445 ppm	0.1553 ppm	0.0001 ppm	149.6699 ppm
Concentration RSD	17.0 %	0.3 %	8.7 %	1.7 %	0.2 %	26.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.2898 ppm	0.3108 ppm	2.0222 ppm	0.0982 ppm	86.9053 ppm	1.9463 ppm	0.0109 ppm
Concentration per Run 1	0.2905 ppm	0.3121 ppm	2.0256 ppm	0.0981 ppm	86.7828 ppm	1.9809 ppm	0.0120 ppm
Concentration per Run 2	0.2882 ppm	0.3098 ppm	2.0132 ppm	0.0978 ppm	86.8481 ppm	1.9329 ppm	0.0117 ppm
Concentration per Run 3	0.2907 ppm	0.3105 ppm	2.0279 ppm	0.0986 ppm	87.0850 ppm	1.9250 ppm	0.0090 ppm
Concentration RSD	0.5 %	0.4 %	0.4 %	0.4 %	0.2 %	1.6 %	15.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2897 ppm	0.5743 ppm	0.0068 ppm	0.9130 ppm	0.0170 ppm	14.2183 ppm	0.0210 ppm
Concentration per Run 1	3.2946 ppm	0.5745 ppm	0.0069 ppm	0.9155 ppm	0.0173 ppm	14.1359 ppm	0.0197 ppm
Concentration per Run 2	3.2855 ppm	0.5731 ppm	0.0065 ppm	0.9158 ppm	0.0160 ppm	14.1942 ppm	0.0210 ppm
Concentration per Run 3	3.2889 ppm	0.5753 ppm	0.0069 ppm	0.9077 ppm	0.0177 ppm	14.3249 ppm	0.0222 ppm
Concentration RSD	0.1 %	0.2 %	3.2 %	0.5 %	5.3 %	0.7 %	6.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.7167 ppm	0.0183 ppm	0.4612 ppm	1.1739 ppm	-0.0001 ppm	0.4155 ppm
Concentration per Run 1	0.0022 ppm	0.7197 ppm	0.0179 ppm	0.4585 ppm	1.1773 ppm	-0.0004 ppm	0.4162 ppm
Concentration per Run 2	-0.0015 ppm	0.7083 ppm	0.0180 ppm	0.4625 ppm	1.1669 ppm	0.0001 ppm	0.4155 ppm
Concentration per Run 3	-0.0006 ppm	0.7222 ppm	0.0191 ppm	0.4627 ppm	1.1775 ppm	0.0001 ppm	0.4149 ppm
Concentration RSD	33,437.3 %	1.0 %	3.5 %	0.5 %	0.5 %	426.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	77.9947 ppm	91.0552 %	103.1022 %	87.9681 %	98.2792 %	106.4961 %	97.2069 %
Concentration per Run 1	78.7425 ppm	90.5884 %	103.0943 %	88.5218 %	97.6544 %	106.4820 %	97.5090 %
Concentration per Run 2	77.1206 ppm	91.2369 %	103.8369 %	87.9385 %	98.3530 %	107.3189 %	96.9647 %
Concentration per Run 3	78.1212 ppm	91.3402 %	102.3755 %	87.4442 %	98.8301 %	105.6874 %	97.1471 %
Concentration RSD	1.0 %	0.4 %	0.7 %	0.6 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-17D10 WG1934529
Analysis started at: 6/17/2024 3:50:04 PM
Rack 1
Vial 49
Comment Ca LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	23.5707 ppm	0.0081 ppm	0.0718 ppm	0.2451 ppm	0.0008 ppm	236.9351 ppm
Concentration per Run 1	0.0007 ppm	23.9765 ppm	0.0101 ppm	0.0720 ppm	0.2487 ppm	0.0008 ppm	241.0949 ppm
Concentration per Run 2	0.0009 ppm	23.5693 ppm	0.0065 ppm	0.0710 ppm	0.2454 ppm	0.0008 ppm	236.8723 ppm
Concentration per Run 3	0.0007 ppm	23.1664 ppm	0.0079 ppm	0.0723 ppm	0.2412 ppm	0.0007 ppm	232.8381 ppm
Concentration RSD	16.9 %	1.7 %	22.1 %	1.0 %	1.5 %	2.2 %	1.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0166 ppm	0.2105 ppm	0.0333 ppm	0.1083 ppm	40.5611 ppm	8.7945 ppm	0.0220 ppm
Concentration per Run 1	0.0167 ppm	0.2115 ppm	0.0336 ppm	0.1087 ppm	41.1044 ppm	8.9231 ppm	0.0257 ppm
Concentration per Run 2	0.0166 ppm	0.2112 ppm	0.0331 ppm	0.1082 ppm	40.7420 ppm	8.8349 ppm	0.0185 ppm
Concentration per Run 3	0.0166 ppm	0.2087 ppm	0.0332 ppm	0.1081 ppm	39.8370 ppm	8.6256 ppm	0.0219 ppm
Concentration RSD	0.4 %	0.7 %	0.8 %	0.3 %	1.6 %	1.7 %	16.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.1454 ppm	0.9285 ppm	0.0021 ppm	41.5283 ppm	0.0252 ppm	0.1129 ppm	0.0010 ppm
Concentration per Run 1	11.1930 ppm	0.9463 ppm	0.0020 ppm	42.2574 ppm	0.0259 ppm	0.1127 ppm	0.0022 ppm
Concentration per Run 2	11.1600 ppm	0.9282 ppm	0.0020 ppm	41.5145 ppm	0.0252 ppm	0.1124 ppm	0.0019 ppm
Concentration per Run 3	11.0832 ppm	0.9110 ppm	0.0023 ppm	40.8130 ppm	0.0246 ppm	0.1135 ppm	-0.0012 ppm
Concentration RSD	0.5 %	1.9 %	7.3 %	1.7 %	2.6 %	0.5 %	192.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	0.7898 ppm	0.0439 ppm	0.9819 ppm	1.7035 ppm	-0.0001 ppm	0.0462 ppm
Concentration per Run 1	-0.0065 ppm	0.7965 ppm	0.0440 ppm	0.9927 ppm	1.7097 ppm	0.0012 ppm	0.0464 ppm
Concentration per Run 2	0.0003 ppm	0.7854 ppm	0.0440 ppm	0.9857 ppm	1.7013 ppm	-0.0003 ppm	0.0459 ppm
Concentration per Run 3	-0.0053 ppm	0.7876 ppm	0.0436 ppm	0.9671 ppm	1.6995 ppm	-0.0011 ppm	0.0461 ppm
Concentration RSD	95.8 %	0.7 %	0.6 %	1.3 %	0.3 %	1,591.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3825 ppm	88.4228 %	104.2526 %	86.3626 %	99.5654 %	111.7504 %	99.6153 %
Concentration per Run 1	0.3835 ppm	88.0689 %	102.1889 %	86.4983 %	99.3939 %	109.3185 %	99.3713 %
Concentration per Run 2	0.3822 ppm	88.2836 %	104.5052 %	86.2538 %	99.4032 %	113.0425 %	99.7899 %
Concentration per Run 3	0.3819 ppm	88.9159 %	106.0637 %	86.3357 %	99.8993 %	112.8900 %	99.6846 %
Concentration RSD	0.2 %	0.5 %	1.9 %	0.1 %	0.3 %	1.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432396-15D20 WG1934529
Analysis started at: 6/17/2024 3:56:13 PM
Rack 1
Vial 50
Comment Zn LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	2.5346 ppm	0.0085 ppm	0.0224 ppm	0.0778 ppm	0.0001 ppm	75.7481 ppm
Concentration per Run 1	0.0018 ppm	2.5280 ppm	0.0076 ppm	0.0229 ppm	0.0777 ppm	0.0001 ppm	75.6919 ppm
Concentration per Run 2	0.0009 ppm	2.5515 ppm	0.0098 ppm	0.0220 ppm	0.0781 ppm	0.0001 ppm	75.8655 ppm
Concentration per Run 3	0.0010 ppm	2.5242 ppm	0.0080 ppm	0.0221 ppm	0.0775 ppm	0.0001 ppm	75.6868 ppm
Concentration RSD	40.5 %	0.6 %	13.5 %	2.2 %	0.4 %	16.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1500 ppm	0.1602 ppm	1.0425 ppm	0.0499 ppm	44.4488 ppm	0.9688 ppm	0.0042 ppm
Concentration per Run 1	0.1508 ppm	0.1611 ppm	1.0465 ppm	0.0500 ppm	44.4096 ppm	0.9972 ppm	0.0037 ppm
Concentration per Run 2	0.1494 ppm	0.1599 ppm	1.0422 ppm	0.0502 ppm	44.4900 ppm	0.9536 ppm	0.0039 ppm
Concentration per Run 3	0.1496 ppm	0.1597 ppm	1.0388 ppm	0.0495 ppm	44.4467 ppm	0.9557 ppm	0.0051 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	0.7 %	0.1 %	2.5 %	18.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7011 ppm	0.2896 ppm	0.0036 ppm	0.4637 ppm	0.0085 ppm	7.2077 ppm	0.0073 ppm
Concentration per Run 1	1.7104 ppm	0.2897 ppm	0.0036 ppm	0.4623 ppm	0.0087 ppm	7.2089 ppm	0.0050 ppm
Concentration per Run 2	1.6995 ppm	0.2900 ppm	0.0034 ppm	0.4631 ppm	0.0088 ppm	7.2260 ppm	0.0091 ppm
Concentration per Run 3	1.6935 ppm	0.2891 ppm	0.0038 ppm	0.4656 ppm	0.0081 ppm	7.1881 ppm	0.0079 ppm
Concentration RSD	0.5 %	0.2 %	4.7 %	0.4 %	4.1 %	0.3 %	28.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	0.3588 ppm	0.0092 ppm	0.2336 ppm	0.5990 ppm	-0.0006 ppm	0.2106 ppm
Concentration per Run 1	-0.0047 ppm	0.3616 ppm	0.0084 ppm	0.2339 ppm	0.5989 ppm	-0.0001 ppm	0.2114 ppm
Concentration per Run 2	-0.0028 ppm	0.3572 ppm	0.0092 ppm	0.2332 ppm	0.6008 ppm	0.0001 ppm	0.2100 ppm
Concentration per Run 3	0.0016 ppm	0.3576 ppm	0.0100 ppm	0.2336 ppm	0.5973 ppm	-0.0017 ppm	0.2104 ppm
Concentration RSD	165.9 %	0.7 %	8.6 %	0.1 %	0.3 %	163.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	46.4910 ppm	90.1300 %	103.6450 %	90.4316 %	98.7941 %	107.6258 %	99.4380 %
Concentration per Run 1	46.6848 ppm	89.6361 %	103.6353 %	90.7797 %	98.4230 %	107.7708 %	99.7152 %
Concentration per Run 2	46.5209 ppm	90.2693 %	103.2707 %	90.2387 %	99.0889 %	107.2472 %	99.2717 %
Concentration per Run 3	46.2671 ppm	90.4846 %	104.0290 %	90.2764 %	98.8704 %	107.8595 %	99.3272 %
Concentration RSD	0.5 %	0.5 %	0.4 %	0.3 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 4:02:25 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5004 ppm	0.4705 ppm	0.4852 ppm	0.4969 ppm	0.4997 ppm	0.5198 ppm	0.4965 ppm
Concentration per Run 1	0.4995 ppm	0.4681 ppm	0.4877 ppm	0.4938 ppm	0.4984 ppm	0.5191 ppm	0.5022 ppm
Concentration per Run 2	0.4989 ppm	0.4706 ppm	0.4829 ppm	0.4954 ppm	0.5021 ppm	0.5173 ppm	0.4956 ppm
Concentration per Run 3	0.5029 ppm	0.4730 ppm	0.4850 ppm	0.5015 ppm	0.4986 ppm	0.5231 ppm	0.4918 ppm
Recovery Percentage 1	100.084 %	94.107 %	97.044 %	99.379 %	99.937 %	103.966 %	99.309 %
Concentration RSD	0.4 %	0.5 %	0.5 %	0.8 %	0.4 %	0.6 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5032 ppm	0.5143 ppm	0.4986 ppm	0.4900 ppm	0.5148 ppm	5.1179 ppm	0.6132 ppm
Concentration per Run 1	0.5009 ppm	0.5116 ppm	0.4977 ppm	0.4873 ppm	0.5154 ppm	5.1460 ppm	0.6086 ppm
Concentration per Run 2	0.5030 ppm	0.5153 ppm	0.4979 ppm	0.4900 ppm	0.5151 ppm	5.1405 ppm	0.6220 ppm
Concentration per Run 3	0.5058 ppm	0.5160 ppm	0.5003 ppm	0.4926 ppm	0.5139 ppm	5.0672 ppm	0.6090 ppm
Recovery Percentage 1	100.648 %	102.863 %	99.723 %	97.992 %	102.960 %	102.358 %	122.637 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.5 %	0.1 %	0.9 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4908 ppm	0.4986 ppm	0.5208 ppm	10.1905 ppm	0.5158 ppm	0.4956 ppm	0.5120 ppm
Concentration per Run 1	0.4904 ppm	0.4994 ppm	0.5068 ppm	10.2196 ppm	0.5145 ppm	0.4959 ppm	0.5078 ppm
Concentration per Run 2	0.4865 ppm	0.4982 ppm	0.5131 ppm	10.1335 ppm	0.5160 ppm	0.4967 ppm	0.5113 ppm
Concentration per Run 3	0.4956 ppm	0.4983 ppm	0.5424 ppm	10.2185 ppm	0.5170 ppm	0.4942 ppm	0.5169 ppm
Recovery Percentage 1	98.161 %	99.728 %	104.157 %	101.905 %	103.163 %	99.121 %	102.395 %
Concentration RSD	0.9 %	0.1 %	3.7 %	0.5 %	0.2 %	0.3 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4957 ppm	5.5636 ppm	0.4988 ppm	0.4997 ppm	0.5060 ppm	0.4904 ppm	0.4973 ppm
Concentration per Run 1	0.4972 ppm	5.5418 ppm	0.5040 ppm	0.4989 ppm	0.5031 ppm	0.4890 ppm	0.4963 ppm
Concentration per Run 2	0.4947 ppm	5.5405 ppm	0.4951 ppm	0.4980 ppm	0.5055 ppm	0.4919 ppm	0.4950 ppm
Concentration per Run 3	0.4953 ppm	5.6084 ppm	0.4972 ppm	0.5023 ppm	0.5095 ppm	0.4903 ppm	0.5007 ppm
Recovery Percentage 1	99.144 %	105.973 %	99.751 %	99.945 %	101.207 %	98.076 %	99.467 %
Concentration RSD	0.3 %	0.7 %	0.9 %	0.5 %	0.6 %	0.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5152 ppm	91.1293 %	100.4091 %	91.7893 %	98.3192 %	103.9795 %	98.5075 %
Concentration per Run 1	0.5154 ppm	91.1983 %	100.1417 %	92.0497 %	97.5990 %	103.8880 %	98.9728 %
Concentration per Run 2	0.5149 ppm	91.1723 %	100.7131 %	91.5256 %	98.4379 %	104.0352 %	98.2682 %
Concentration per Run 3	0.5155 ppm	91.0173 %	100.3726 %	91.7927 %	98.9207 %	104.0153 %	98.2816 %
Recovery Percentage 1	103.048 %						
Concentration RSD	0.1 %	0.1 %	0.3 %	0.3 %	0.7 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 4:07:20 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0159 ppm	0.0005 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	0.0002 ppm	-0.0168 ppm	0.0015 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0147 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 3	-0.0001 ppm	-0.0161 ppm	-0.0007 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0028 ppm
Recovery Percentage 1	0.737 %	-15.875 %	16.597 %	2.928 %	1.534 %	0.023 %	2.176 %
Concentration RSD	297.8 %	6.6 %	225.5 %	13.3 %	45.6 %	3,021.6 %	114.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0148 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0160 ppm	-0.0153 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0144 ppm	0.0191 ppm	-0.0015 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0138 ppm	-0.0023 ppm	-0.0009 ppm
Recovery Percentage 1	-0.515 %	0.047 %	-1.545 %	5.542 %	29.518 %	0.020 %	-9.202 %
Concentration RSD	138.3 %	2,535.7 %	126.6 %	33.1 %	7.7 %	3,478.8 %	61.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0002 ppm	0.0023 ppm	0.0118 ppm	-0.0005 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0025 ppm	0.0070 ppm	-0.0012 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0003 ppm	0.0021 ppm	0.0152 ppm	0.0000 ppm	0.0008 ppm	0.0021 ppm
Concentration per Run 3	0.0009 ppm	0.0003 ppm	0.0023 ppm	0.0131 ppm	-0.0002 ppm	0.0008 ppm	-0.0005 ppm
Recovery Percentage 1	0.797 %	1.858 %	4.648 %	0.589 %	-1.840 %	9.839 %	1.261 %
Concentration RSD	76.4 %	103.4 %	7.7 %	36.0 %	139.8 %	33.8 %	211.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	-0.0065 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 1	-0.0043 ppm	-0.0065 ppm	0.0002 ppm	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 2	0.0005 ppm	-0.0063 ppm	0.0007 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	-0.0024 ppm	-0.0065 ppm	-0.0007 ppm	0.0000 ppm	-0.0006 ppm	0.0014 ppm	-0.0004 ppm
Recovery Percentage 1	-20.720 %	-1.294 %	0.172 %	0.339 %	-4.471 %	1.973 %	-3.874 %
Concentration RSD	116.6 %	1.7 %	789.0 %	101.9 %	35.7 %	219.9 %	12.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	85.6178 %	96.7860 %	89.0678 %	98.7635 %	104.3330 %	99.3244 %
Concentration per Run 1	0.0011 ppm	85.5215 %	96.7679 %	89.6188 %	99.0493 %	104.5246 %	100.1724 %
Concentration per Run 2	0.0009 ppm	85.1210 %	96.4925 %	88.6461 %	98.2560 %	103.9886 %	98.8584 %
Concentration per Run 3	0.0008 ppm	86.2110 %	97.0976 %	88.9385 %	98.9851 %	104.4857 %	98.9423 %
Recovery Percentage 1	18.523 %						
Concentration RSD	16.1 %	0.6 %	0.3 %	0.6 %	0.4 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934549-1 WG1934549
Analysis started at: 6/17/2024 4:32:19 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0014 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0268 ppm
Concentration per Run 1	0.0000 ppm	-0.0071 ppm	-0.0007 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0271 ppm
Concentration per Run 2	0.0001 ppm	-0.0040 ppm	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0291 ppm
Concentration per Run 3	-0.0001 ppm	0.0070 ppm	0.0012 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0240 ppm
Recovery Percentage 1	-0.119 %	-1.354 %	-2.367 %	-0.838 %	2.352 %	0.260 %	26.776 %
Concentration RSD	1,339.0 %	549.0 %	1,506.6 %	158.9 %	33.9 %	426.1 %	9.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0006 ppm	0.0010 ppm	-0.0001 ppm	0.0349 ppm	-0.0010 ppm	-0.0023 ppm
Concentration per Run 1	-0.0001 ppm	-0.0007 ppm	0.0009 ppm	-0.0002 ppm	0.0339 ppm	-0.0014 ppm	-0.0022 ppm
Concentration per Run 2	-0.0002 ppm	-0.0006 ppm	0.0008 ppm	-0.0001 ppm	0.0370 ppm	-0.0059 ppm	-0.0016 ppm
Concentration per Run 3	-0.0001 ppm	-0.0006 ppm	0.0013 ppm	0.0000 ppm	0.0339 ppm	0.0041 ppm	-0.0031 ppm
Recovery Percentage 1	-2.392 %	-3.119 %	9.839 %	-0.994 %	69.852 %	-0.042 %	-22.716 %
Concentration RSD	32.6 %	12.2 %	29.6 %	75.1 %	5.1 %	479.2 %	34.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0085 ppm	0.0018 ppm	0.0003 ppm	0.0284 ppm	-0.0003 ppm	0.0013 ppm	-0.0011 ppm
Concentration per Run 1	0.0068 ppm	0.0018 ppm	0.0011 ppm	0.0285 ppm	-0.0004 ppm	0.0014 ppm	-0.0034 ppm
Concentration per Run 2	0.0088 ppm	0.0019 ppm	-0.0001 ppm	0.0288 ppm	-0.0010 ppm	0.0015 ppm	0.0007 ppm
Concentration per Run 3	0.0099 ppm	0.0017 ppm	-0.0001 ppm	0.0280 ppm	0.0006 ppm	0.0011 ppm	-0.0007 ppm
Recovery Percentage 1	8.495 %	17.889 %	0.569 %	1.422 %	-1.080 %	13.376 %	-2.247 %
Concentration RSD	18.2 %	4.8 %	237.7 %	1.4 %	302.6 %	15.2 %	187.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0047 ppm	0.0009 ppm	0.0001 ppm	0.0007 ppm	-0.0021 ppm	-0.0002 ppm
Concentration per Run 1	0.0008 ppm	0.0061 ppm	0.0014 ppm	0.0000 ppm	0.0008 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0032 ppm	0.0009 ppm	0.0002 ppm	0.0007 ppm	-0.0028 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.0047 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0017 ppm	-0.0004 ppm
Recovery Percentage 1	-1.505 %	0.930 %	1.794 %	0.743 %	7.192 %	-10.560 %	-2.067 %
Concentration RSD	619.5 %	31.4 %	55.9 %	145.9 %	18.2 %	29.7 %	69.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	106.6613 %	100.5900 %	98.7508 %	101.6483 %	101.6281 %	100.8026 %
Concentration per Run 1	0.0013 ppm	109.8680 %	101.5206 %	99.8278 %	101.0033 %	101.8900 %	100.4756 %
Concentration per Run 2	0.0015 ppm	106.0897 %	99.9790 %	98.4483 %	101.6083 %	101.0701 %	100.8574 %
Concentration per Run 3	0.0013 ppm	104.0264 %	100.2703 %	97.9764 %	102.3335 %	101.9241 %	101.0748 %
Recovery Percentage 1	26.709 %						
Concentration RSD	8.4 %	2.8 %	0.8 %	1.0 %	0.7 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934549-2D2 WG1934549
Analysis started at: 6/17/2024 4:36:34 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0497 ppm	1.9295 ppm	0.1183 ppm	0.9980 ppm	1.9631 ppm	0.0507 ppm	10.0670 ppm
Concentration per Run 1	0.0502 ppm	1.9269 ppm	0.1173 ppm	0.9974 ppm	1.9672 ppm	0.0505 ppm	10.0319 ppm
Concentration per Run 2	0.0492 ppm	1.9322 ppm	0.1184 ppm	1.0016 ppm	1.9585 ppm	0.0506 ppm	10.0741 ppm
Concentration per Run 3	0.0497 ppm	1.9293 ppm	0.1191 ppm	0.9951 ppm	1.9636 ppm	0.0509 ppm	10.0949 ppm
Concentration RSD	1.0 %	0.1 %	0.8 %	0.3 %	0.2 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0534 ppm	0.5008 ppm	0.1978 ppm	0.2489 ppm	1.0290 ppm	10.2668 ppm	-0.0012 ppm
Concentration per Run 1	0.0537 ppm	0.5027 ppm	0.1985 ppm	0.2489 ppm	1.0287 ppm	10.3308 ppm	-0.0009 ppm
Concentration per Run 2	0.0535 ppm	0.4992 ppm	0.1978 ppm	0.2491 ppm	1.0261 ppm	10.2199 ppm	-0.0020 ppm
Concentration per Run 3	0.0531 ppm	0.5005 ppm	0.1971 ppm	0.2487 ppm	1.0324 ppm	10.2496 ppm	-0.0007 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.1 %	0.3 %	0.6 %	55.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9268 ppm	0.4977 ppm	1.0393 ppm	10.3208 ppm	0.5044 ppm	0.5348 ppm	0.5173 ppm
Concentration per Run 1	9.9559 ppm	0.4970 ppm	1.0227 ppm	10.2954 ppm	0.5043 ppm	0.5364 ppm	0.5124 ppm
Concentration per Run 2	9.9271 ppm	0.4967 ppm	1.0424 ppm	10.3313 ppm	0.5046 ppm	0.5327 ppm	0.5182 ppm
Concentration per Run 3	9.8974 ppm	0.4995 ppm	1.0529 ppm	10.3357 ppm	0.5042 ppm	0.5352 ppm	0.5213 ppm
Concentration RSD	0.3 %	0.3 %	1.5 %	0.2 %	0.0 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1181 ppm	1.0439 ppm	0.9803 ppm	0.9807 ppm	1.0207 ppm	0.1165 ppm	0.4997 ppm
Concentration per Run 1	0.1181 ppm	1.0394 ppm	0.9761 ppm	0.9781 ppm	1.0227 ppm	0.1158 ppm	0.5014 ppm
Concentration per Run 2	0.1210 ppm	1.0470 ppm	0.9809 ppm	0.9789 ppm	1.0198 ppm	0.1168 ppm	0.4994 ppm
Concentration per Run 3	0.1153 ppm	1.0454 ppm	0.9839 ppm	0.9851 ppm	1.0194 ppm	0.1168 ppm	0.4984 ppm
Concentration RSD	2.4 %	0.4 %	0.4 %	0.4 %	0.2 %	0.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5072 ppm	88.5576 %	98.6732 %	89.6186 %	96.7309 %	102.1783 %	97.1734 %
Concentration per Run 1	0.5084 ppm	88.0392 %	98.8142 %	89.5644 %	96.0496 %	102.0801 %	97.1830 %
Concentration per Run 2	0.5075 ppm	88.6870 %	98.1661 %	89.5865 %	97.0679 %	101.5015 %	97.1667 %
Concentration per Run 3	0.5055 ppm	88.9466 %	99.0394 %	89.7049 %	97.0753 %	102.9534 %	97.1706 %
Concentration RSD	0.3 %	0.5 %	0.5 %	0.1 %	0.6 %	0.7 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-29D2 WG1934549
Analysis started at: 6/17/2024 4:40:31 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	75.9418 ppm	3.7836 ppm	0.0101 ppm	0.4082 ppm	0.0070 ppm	5.9111 ppm
Concentration per Run 1	0.0003 ppm	76.2675 ppm	3.7719 ppm	0.0095 ppm	0.4064 ppm	0.0069 ppm	5.9428 ppm
Concentration per Run 2	0.0008 ppm	75.7802 ppm	3.8010 ppm	0.0113 ppm	0.4107 ppm	0.0069 ppm	5.8890 ppm
Concentration per Run 3	0.0002 ppm	75.7777 ppm	3.7780 ppm	0.0096 ppm	0.4075 ppm	0.0070 ppm	5.9016 ppm
Concentration RSD	72.4 %	0.4 %	0.4 %	10.1 %	0.5 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0432 ppm	0.2270 ppm	0.2850 ppm	223.2424 ppm	2.8965 ppm	0.1042 ppm
Concentration per Run 1	0.0016 ppm	0.0431 ppm	0.2258 ppm	0.2835 ppm	223.3075 ppm	2.9209 ppm	0.1048 ppm
Concentration per Run 2	0.0018 ppm	0.0434 ppm	0.2272 ppm	0.2867 ppm	223.5791 ppm	2.9001 ppm	0.1036 ppm
Concentration per Run 3	0.0017 ppm	0.0430 ppm	0.2280 ppm	0.2848 ppm	222.8404 ppm	2.8685 ppm	0.1042 ppm
Concentration RSD	5.4 %	0.4 %	0.5 %	0.6 %	0.2 %	0.9 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.2239 ppm	2.5717 ppm	0.0093 ppm	0.9336 ppm	0.0773 ppm	0.2676 ppm	0.0212 ppm
Concentration per Run 1	13.1990 ppm	2.5778 ppm	0.0082 ppm	0.9369 ppm	0.0779 ppm	0.2666 ppm	0.0209 ppm
Concentration per Run 2	13.2060 ppm	2.5776 ppm	0.0097 ppm	0.9304 ppm	0.0774 ppm	0.2688 ppm	0.0203 ppm
Concentration per Run 3	13.2668 ppm	2.5596 ppm	0.0100 ppm	0.9335 ppm	0.0764 ppm	0.2674 ppm	0.0225 ppm
Concentration RSD	0.3 %	0.4 %	10.5 %	0.3 %	1.0 %	0.4 %	5.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0061 ppm	3.8215 ppm	0.0121 ppm	0.0552 ppm	0.4263 ppm	0.0018 ppm	0.2522 ppm
Concentration per Run 1	0.0074 ppm	3.8135 ppm	0.0124 ppm	0.0555 ppm	0.4233 ppm	0.0011 ppm	0.2511 ppm
Concentration per Run 2	0.0051 ppm	3.8236 ppm	0.0113 ppm	0.0550 ppm	0.4263 ppm	0.0030 ppm	0.2526 ppm
Concentration per Run 3	0.0058 ppm	3.8273 ppm	0.0125 ppm	0.0549 ppm	0.4292 ppm	0.0015 ppm	0.2528 ppm
Concentration RSD	19.0 %	0.2 %	5.7 %	0.6 %	0.7 %	55.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8260 ppm	91.4618 %	102.8959 %	89.5536 %	105.7071 %	115.0872 %	107.0091 %
Concentration per Run 1	0.8259 ppm	91.1643 %	101.6923 %	89.8820 %	104.7667 %	113.9878 %	106.9857 %
Concentration per Run 2	0.8229 ppm	91.6294 %	103.7308 %	89.6609 %	106.1367 %	115.8178 %	107.0666 %
Concentration per Run 3	0.8293 ppm	91.5917 %	103.2646 %	89.1179 %	106.2180 %	115.4560 %	106.9750 %
Concentration RSD	0.4 %	0.3 %	1.0 %	0.4 %	0.8 %	0.8 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-30D2 WG1934549
Analysis started at: 6/17/2024 4:44:30 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	128.0522 ppm	0.0271 ppm	0.1507 ppm	1.1305 ppm	0.0099 ppm	19.1174 ppm
Concentration per Run 1	-0.0012 ppm	128.2627 ppm	0.0249 ppm	0.1490 ppm	1.1286 ppm	0.0099 ppm	19.1331 ppm
Concentration per Run 2	-0.0018 ppm	128.3230 ppm	0.0281 ppm	0.1508 ppm	1.1327 ppm	0.0099 ppm	19.1148 ppm
Concentration per Run 3	-0.0011 ppm	127.5710 ppm	0.0284 ppm	0.1523 ppm	1.1302 ppm	0.0098 ppm	19.1044 ppm
Concentration RSD	26.3 %	0.3 %	7.1 %	1.1 %	0.2 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1400 ppm	0.3569 ppm	0.0728 ppm	362.8997 ppm	26.9971 ppm	0.5620 ppm
Concentration per Run 1	0.0004 ppm	0.1392 ppm	0.3556 ppm	0.0735 ppm	363.0369 ppm	26.9859 ppm	0.5664 ppm
Concentration per Run 2	0.0000 ppm	0.1394 ppm	0.3573 ppm	0.0716 ppm	363.7738 ppm	27.1397 ppm	0.5643 ppm
Concentration per Run 3	0.0003 ppm	0.1413 ppm	0.3577 ppm	0.0732 ppm	361.8882 ppm	26.8657 ppm	0.5552 ppm
Concentration RSD	97.7 %	0.8 %	0.3 %	1.5 %	0.3 %	0.5 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.9617 ppm	3.2752 ppm	0.0081 ppm	2.9742 ppm	0.3612 ppm	0.2022 ppm	0.0080 ppm
Concentration per Run 1	85.7599 ppm	3.2737 ppm	0.0079 ppm	2.9849 ppm	0.3614 ppm	0.2017 ppm	0.0083 ppm
Concentration per Run 2	85.9020 ppm	3.2724 ppm	0.0081 ppm	2.9696 ppm	0.3619 ppm	0.2020 ppm	0.0090 ppm
Concentration per Run 3	86.2232 ppm	3.2795 ppm	0.0083 ppm	2.9680 ppm	0.3603 ppm	0.2029 ppm	0.0068 ppm
Concentration RSD	0.3 %	0.1 %	2.5 %	0.3 %	0.2 %	0.3 %	14.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	2.8898 ppm	0.0064 ppm	0.1045 ppm	7.5883 ppm	0.0028 ppm	0.4050 ppm
Concentration per Run 1	-0.0026 ppm	2.8940 ppm	0.0079 ppm	0.1045 ppm	7.5522 ppm	0.0028 ppm	0.4019 ppm
Concentration per Run 2	-0.0019 ppm	2.8746 ppm	0.0056 ppm	0.1048 ppm	7.5954 ppm	0.0023 ppm	0.4067 ppm
Concentration per Run 3	-0.0031 ppm	2.9007 ppm	0.0058 ppm	0.1042 ppm	7.6172 ppm	0.0034 ppm	0.4065 ppm
Concentration RSD	23.1 %	0.5 %	19.8 %	0.3 %	0.4 %	19.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8348 ppm	96.3026 %	106.1981 %	85.9646 %	128.6008 %	138.3036 %	129.9540 %
Concentration per Run 1	0.8316 ppm	96.5915 %	106.0025 %	85.9810 %	128.7344 %	138.4229 %	129.7573 %
Concentration per Run 2	0.8348 ppm	96.2435 %	106.2567 %	86.0625 %	128.1799 %	137.9712 %	130.2575 %
Concentration per Run 3	0.8381 ppm	96.0727 %	106.3350 %	85.8504 %	128.8881 %	138.5166 %	129.8470 %
Concentration RSD	0.4 %	0.3 %	0.2 %	0.1 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-33D2 WG1934549
Analysis started at: 6/17/2024 4:48:28 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	83.5233 ppm	2.3860 ppm	0.0140 ppm	0.5364 ppm	0.0061 ppm	6.6210 ppm
Concentration per Run 1	0.0008 ppm	83.6163 ppm	2.3965 ppm	0.0150 ppm	0.5363 ppm	0.0061 ppm	6.6233 ppm
Concentration per Run 2	0.0016 ppm	83.4801 ppm	2.3884 ppm	0.0137 ppm	0.5357 ppm	0.0061 ppm	6.6290 ppm
Concentration per Run 3	0.0012 ppm	83.4735 ppm	2.3730 ppm	0.0134 ppm	0.5372 ppm	0.0061 ppm	6.6107 ppm
Concentration RSD	34.7 %	0.1 %	0.5 %	5.9 %	0.1 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0034 ppm	0.1024 ppm	0.2027 ppm	0.7100 ppm	186.3167 ppm	3.6473 ppm	0.1406 ppm
Concentration per Run 1	0.0033 ppm	0.1018 ppm	0.2021 ppm	0.7059 ppm	186.1168 ppm	3.6727 ppm	0.1423 ppm
Concentration per Run 2	0.0035 ppm	0.1027 ppm	0.2031 ppm	0.7094 ppm	186.5412 ppm	3.6485 ppm	0.1390 ppm
Concentration per Run 3	0.0033 ppm	0.1027 ppm	0.2031 ppm	0.7146 ppm	186.2920 ppm	3.6207 ppm	0.1403 ppm
Concentration RSD	3.4 %	0.5 %	0.3 %	0.6 %	0.1 %	0.7 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.5015 ppm	5.0669 ppm	0.0080 ppm	0.6301 ppm	0.1106 ppm	0.4727 ppm	0.0184 ppm
Concentration per Run 1	17.5102 ppm	5.0645 ppm	0.0076 ppm	0.6286 ppm	0.1086 ppm	0.4748 ppm	0.0153 ppm
Concentration per Run 2	17.4741 ppm	5.0696 ppm	0.0078 ppm	0.6308 ppm	0.1112 ppm	0.4727 ppm	0.0189 ppm
Concentration per Run 3	17.5201 ppm	5.0665 ppm	0.0086 ppm	0.6309 ppm	0.1121 ppm	0.4706 ppm	0.0211 ppm
Concentration RSD	0.1 %	0.1 %	6.9 %	0.2 %	1.7 %	0.4 %	15.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0044 ppm	3.4471 ppm	0.0352 ppm	0.0792 ppm	0.5603 ppm	0.0015 ppm	0.2765 ppm
Concentration per Run 1	0.0018 ppm	3.4339 ppm	0.0358 ppm	0.0788 ppm	0.5599 ppm	0.0034 ppm	0.2756 ppm
Concentration per Run 2	0.0054 ppm	3.4564 ppm	0.0354 ppm	0.0796 ppm	0.5586 ppm	0.0004 ppm	0.2763 ppm
Concentration per Run 3	0.0059 ppm	3.4510 ppm	0.0344 ppm	0.0791 ppm	0.5625 ppm	0.0006 ppm	0.2776 ppm
Concentration RSD	50.9 %	0.3 %	2.2 %	0.5 %	0.4 %	114.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3761 ppm	91.7067 %	104.3244 %	89.3544 %	109.8412 %	120.3728 %	110.8993 %
Concentration per Run 1	1.3716 ppm	91.6696 %	104.5519 %	89.2082 %	109.4102 %	120.9107 %	110.6079 %
Concentration per Run 2	1.3864 ppm	91.3857 %	104.1949 %	89.5095 %	109.4712 %	119.9885 %	111.3652 %
Concentration per Run 3	1.3703 ppm	92.0648 %	104.2264 %	89.3457 %	110.6423 %	120.2194 %	110.7248 %
Concentration RSD	0.7 %	0.4 %	0.2 %	0.2 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432738-06D2 WG1934549
Analysis started at: 6/17/2024 4:52:27 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	112.9479 ppm	0.0680 ppm	0.0297 ppm	0.4476 ppm	0.0068 ppm	23.7070 ppm
Concentration per Run 1	-0.0006 ppm	112.7687 ppm	0.0651 ppm	0.0298 ppm	0.4489 ppm	0.0068 ppm	23.6275 ppm
Concentration per Run 2	-0.0004 ppm	113.1198 ppm	0.0686 ppm	0.0295 ppm	0.4435 ppm	0.0068 ppm	23.7317 ppm
Concentration per Run 3	0.0003 ppm	112.9554 ppm	0.0704 ppm	0.0298 ppm	0.4505 ppm	0.0068 ppm	23.7619 ppm
Concentration RSD	187.4 %	0.2 %	3.9 %	0.7 %	0.8 %	0.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0676 ppm	0.2878 ppm	0.1881 ppm	205.4658 ppm	7.3597 ppm	0.1012 ppm
Concentration per Run 1	0.0009 ppm	0.0683 ppm	0.2872 ppm	0.1878 ppm	205.2000 ppm	7.3686 ppm	0.1025 ppm
Concentration per Run 2	0.0010 ppm	0.0668 ppm	0.2873 ppm	0.1869 ppm	205.7434 ppm	7.3732 ppm	0.1005 ppm
Concentration per Run 3	0.0012 ppm	0.0676 ppm	0.2888 ppm	0.1896 ppm	205.4539 ppm	7.3372 ppm	0.1004 ppm
Concentration RSD	11.8 %	1.1 %	0.3 %	0.7 %	0.1 %	0.3 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.4625 ppm	5.4973 ppm	0.0056 ppm	0.6947 ppm	0.1246 ppm	0.4744 ppm	0.0042 ppm
Concentration per Run 1	28.4831 ppm	5.4842 ppm	0.0054 ppm	0.6931 ppm	0.1248 ppm	0.4748 ppm	0.0044 ppm
Concentration per Run 2	28.4148 ppm	5.5092 ppm	0.0059 ppm	0.6999 ppm	0.1232 ppm	0.4750 ppm	0.0022 ppm
Concentration per Run 3	28.4897 ppm	5.4983 ppm	0.0054 ppm	0.6911 ppm	0.1258 ppm	0.4734 ppm	0.0060 ppm
Concentration RSD	0.1 %	0.2 %	5.0 %	0.7 %	1.0 %	0.2 %	45.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.8108 ppm	0.0098 ppm	0.0811 ppm	4.5249 ppm	0.0027 ppm	0.4184 ppm
Concentration per Run 1	-0.0010 ppm	4.8005 ppm	0.0090 ppm	0.0813 ppm	4.5175 ppm	0.0021 ppm	0.4187 ppm
Concentration per Run 2	-0.0007 ppm	4.8096 ppm	0.0105 ppm	0.0810 ppm	4.5203 ppm	0.0023 ppm	0.4196 ppm
Concentration per Run 3	0.0006 ppm	4.8224 ppm	0.0098 ppm	0.0811 ppm	4.5367 ppm	0.0036 ppm	0.4169 ppm
Concentration RSD	226.7 %	0.2 %	7.6 %	0.2 %	0.2 %	31.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6506 ppm	95.9552 %	105.9048 %	90.1360 %	129.3226 %	138.7490 %	130.9138 %
Concentration per Run 1	0.6529 ppm	95.9605 %	105.4266 %	89.8615 %	128.9912 %	138.2381 %	130.2393 %
Concentration per Run 2	0.6490 ppm	95.9346 %	105.6832 %	90.2228 %	129.3643 %	138.5051 %	131.1556 %
Concentration per Run 3	0.6499 ppm	95.9704 %	106.6046 %	90.3236 %	129.6122 %	139.5038 %	131.3464 %
Concentration RSD	0.3 %	0.0 %	0.6 %	0.3 %	0.2 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934549-3D2 WG1934549
Analysis started at: 6/17/2024 4:56:24 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0480 ppm	113.3525 ppm	0.1802 ppm	0.9341 ppm	2.2620 ppm	0.0568 ppm	21.4423 ppm
Concentration per Run 1	0.0476 ppm	113.9132 ppm	0.1802 ppm	0.9264 ppm	2.2837 ppm	0.0567 ppm	21.4442 ppm
Concentration per Run 2	0.0480 ppm	114.1148 ppm	0.1786 ppm	0.9330 ppm	2.2669 ppm	0.0563 ppm	21.4125 ppm
Concentration per Run 3	0.0484 ppm	112.0295 ppm	0.1818 ppm	0.9427 ppm	2.2354 ppm	0.0574 ppm	21.4702 ppm
Concentration RSD	0.8 %	1.0 %	0.9 %	0.9 %	1.1 %	1.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0496 ppm	0.5303 ppm	0.3968 ppm	0.4229 ppm	177.0173 ppm	17.0690 ppm	0.1015 ppm
Concentration per Run 1	0.0492 ppm	0.5262 ppm	0.3952 ppm	0.4209 ppm	177.6292 ppm	17.3578 ppm	0.1062 ppm
Concentration per Run 2	0.0496 ppm	0.5312 ppm	0.3970 ppm	0.4227 ppm	177.2356 ppm	17.2647 ppm	0.0986 ppm
Concentration per Run 3	0.0499 ppm	0.5336 ppm	0.3981 ppm	0.4252 ppm	176.1871 ppm	16.5845 ppm	0.0996 ppm
Concentration RSD	0.7 %	0.7 %	0.4 %	0.5 %	0.4 %	2.5 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.0424 ppm	2.0282 ppm	0.9451 ppm	10.4255 ppm	0.5878 ppm	0.8888 ppm	0.4245 ppm
Concentration per Run 1	33.8378 ppm	2.0330 ppm	0.9231 ppm	10.3534 ppm	0.5850 ppm	0.8849 ppm	0.4213 ppm
Concentration per Run 2	34.0693 ppm	2.0330 ppm	0.9451 ppm	10.3585 ppm	0.5873 ppm	0.8873 ppm	0.4259 ppm
Concentration per Run 3	34.2203 ppm	2.0188 ppm	0.9672 ppm	10.5645 ppm	0.5912 ppm	0.8944 ppm	0.4263 ppm
Concentration RSD	0.6 %	0.4 %	2.3 %	1.2 %	0.5 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1060 ppm	5.2427 ppm	0.7668 ppm	1.0101 ppm	5.5038 ppm	0.1234 ppm	0.8220 ppm
Concentration per Run 1	0.1057 ppm	5.2193 ppm	0.7651 ppm	1.0100 ppm	5.4760 ppm	0.1221 ppm	0.8184 ppm
Concentration per Run 2	0.1071 ppm	5.2323 ppm	0.7620 ppm	1.0056 ppm	5.5020 ppm	0.1243 ppm	0.8225 ppm
Concentration per Run 3	0.1051 ppm	5.2766 ppm	0.7734 ppm	1.0147 ppm	5.5335 ppm	0.1240 ppm	0.8250 ppm
Concentration RSD	1.0 %	0.6 %	0.8 %	0.5 %	0.5 %	1.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2163 ppm	95.5281 %	107.4459 %	88.0941 %	124.9011 %	135.7423 %	124.9360 %
Concentration per Run 1	1.2095 ppm	96.6486 %	108.0095 %	88.5297 %	125.8643 %	135.6815 %	125.3553 %
Concentration per Run 2	1.2146 ppm	95.3905 %	107.6842 %	87.9429 %	124.7006 %	135.6654 %	124.5019 %
Concentration per Run 3	1.2249 ppm	94.5452 %	106.6441 %	87.8099 %	124.1384 %	135.8801 %	124.9509 %
Concentration RSD	0.6 %	1.1 %	0.7 %	0.4 %	0.7 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934549-4D2 WG1934549
Analysis started at: 6/17/2024 5:00:22 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	103.1822 ppm	0.0571 ppm	0.0212 ppm	0.3833 ppm	0.0064 ppm	13.4460 ppm
Concentration per Run 1	0.0000 ppm	103.5759 ppm	0.0591 ppm	0.0217 ppm	0.3880 ppm	0.0063 ppm	13.4227 ppm
Concentration per Run 2	-0.0003 ppm	103.3565 ppm	0.0566 ppm	0.0204 ppm	0.3837 ppm	0.0063 ppm	13.4438 ppm
Concentration per Run 3	-0.0001 ppm	102.6143 ppm	0.0555 ppm	0.0214 ppm	0.3783 ppm	0.0065 ppm	13.4716 ppm
Concentration RSD	129.2 %	0.5 %	3.2 %	3.4 %	1.3 %	1.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0651 ppm	0.2269 ppm	0.1550 ppm	171.8407 ppm	7.0958 ppm	0.0941 ppm
Concentration per Run 1	0.0004 ppm	0.0648 ppm	0.2277 ppm	0.1561 ppm	171.5201 ppm	7.2236 ppm	0.0974 ppm
Concentration per Run 2	0.0003 ppm	0.0652 ppm	0.2258 ppm	0.1542 ppm	172.3725 ppm	7.1285 ppm	0.0937 ppm
Concentration per Run 3	0.0004 ppm	0.0654 ppm	0.2273 ppm	0.1547 ppm	171.6295 ppm	6.9351 ppm	0.0912 ppm
Concentration RSD	10.5 %	0.5 %	0.4 %	0.6 %	0.3 %	2.1 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.2722 ppm	1.6934 ppm	0.0073 ppm	0.5952 ppm	0.1168 ppm	0.3043 ppm	0.0029 ppm
Concentration per Run 1	24.3382 ppm	1.6921 ppm	0.0070 ppm	0.5908 ppm	0.1162 ppm	0.3028 ppm	0.0012 ppm
Concentration per Run 2	24.1830 ppm	1.6939 ppm	0.0067 ppm	0.5954 ppm	0.1165 ppm	0.3048 ppm	0.0017 ppm
Concentration per Run 3	24.2953 ppm	1.6940 ppm	0.0080 ppm	0.5994 ppm	0.1176 ppm	0.3052 ppm	0.0057 ppm
Concentration RSD	0.3 %	0.1 %	9.4 %	0.7 %	0.6 %	0.4 %	84.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	2.7975 ppm	0.0062 ppm	0.0704 ppm	4.2773 ppm	0.0040 ppm	0.3375 ppm
Concentration per Run 1	-0.0024 ppm	2.8120 ppm	0.0059 ppm	0.0700 ppm	4.2731 ppm	0.0031 ppm	0.3381 ppm
Concentration per Run 2	-0.0012 ppm	2.7785 ppm	0.0064 ppm	0.0706 ppm	4.2706 ppm	0.0048 ppm	0.3373 ppm
Concentration per Run 3	-0.0039 ppm	2.8021 ppm	0.0062 ppm	0.0706 ppm	4.2880 ppm	0.0042 ppm	0.3372 ppm
Concentration RSD	54.3 %	0.6 %	4.3 %	0.5 %	0.2 %	22.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4027 ppm	97.1053 %	108.0299 %	92.2271 %	129.4138 %	139.7397 %	130.6686 %
Concentration per Run 1	0.4023 ppm	96.7876 %	108.8254 %	92.7235 %	128.5748 %	140.7192 %	130.9592 %
Concentration per Run 2	0.4015 ppm	97.4191 %	108.1056 %	92.5021 %	130.1234 %	139.6296 %	130.8228 %
Concentration per Run 3	0.4045 ppm	97.1091 %	107.1588 %	91.4557 %	129.5432 %	138.8703 %	130.2237 %
Concentration RSD	0.4 %	0.3 %	0.8 %	0.7 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934549-5D2 WG1934549
Analysis started at: 6/17/2024 5:04:28 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0510 ppm	111.5468 ppm	0.1954 ppm	1.0171 ppm	2.2897 ppm	0.0545 ppm	32.2130 ppm
Concentration per Run 1	0.0516 ppm	111.6851 ppm	0.1954 ppm	1.0221 ppm	2.2916 ppm	0.0548 ppm	32.2310 ppm
Concentration per Run 2	0.0506 ppm	112.1214 ppm	0.1966 ppm	1.0199 ppm	2.3097 ppm	0.0545 ppm	32.2919 ppm
Concentration per Run 3	0.0507 ppm	110.8339 ppm	0.1942 ppm	1.0093 ppm	2.2677 ppm	0.0541 ppm	32.1161 ppm
Concentration RSD	1.0 %	0.6 %	0.6 %	0.7 %	0.9 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0527 ppm	0.5543 ppm	0.4849 ppm	0.4478 ppm	197.0848 ppm	16.9978 ppm	0.1028 ppm
Concentration per Run 1	0.0529 ppm	0.5582 ppm	0.4881 ppm	0.4511 ppm	197.7481 ppm	17.0389 ppm	0.1024 ppm
Concentration per Run 2	0.0527 ppm	0.5541 ppm	0.4852 ppm	0.4491 ppm	197.9773 ppm	17.1500 ppm	0.1043 ppm
Concentration per Run 3	0.0525 ppm	0.5507 ppm	0.4813 ppm	0.4431 ppm	195.5291 ppm	16.8044 ppm	0.1017 ppm
Concentration RSD	0.4 %	0.7 %	0.7 %	0.9 %	0.7 %	1.0 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.3761 ppm	5.7555 ppm	1.0068 ppm	10.4777 ppm	0.6149 ppm	1.0299 ppm	0.4407 ppm
Concentration per Run 1	38.6389 ppm	5.7710 ppm	0.9939 ppm	10.5144 ppm	0.6162 ppm	1.0393 ppm	0.4354 ppm
Concentration per Run 2	38.3797 ppm	5.7710 ppm	1.0076 ppm	10.4788 ppm	0.6171 ppm	1.0319 ppm	0.4423 ppm
Concentration per Run 3	38.1098 ppm	5.7244 ppm	1.0188 ppm	10.4398 ppm	0.6114 ppm	1.0185 ppm	0.4443 ppm
Concentration RSD	0.7 %	0.5 %	1.2 %	0.4 %	0.5 %	1.0 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1262 ppm	5.7101 ppm	0.7794 ppm	1.0172 ppm	5.5736 ppm	0.1290 ppm	0.9151 ppm
Concentration per Run 1	0.1286 ppm	5.7375 ppm	0.7852 ppm	1.0156 ppm	5.5993 ppm	0.1292 ppm	0.9204 ppm
Concentration per Run 2	0.1303 ppm	5.7329 ppm	0.7789 ppm	1.0213 ppm	5.5829 ppm	0.1310 ppm	0.9157 ppm
Concentration per Run 3	0.1198 ppm	5.6599 ppm	0.7741 ppm	1.0148 ppm	5.5385 ppm	0.1267 ppm	0.9093 ppm
Concentration RSD	4.4 %	0.8 %	0.7 %	0.3 %	0.6 %	1.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1503 ppm	96.8071 %	110.5238 %	89.9716 %	132.0780 %	142.2990 %	132.0438 %
Concentration per Run 1	1.1520 ppm	96.5659 %	110.8195 %	90.1416 %	131.1528 %	142.5673 %	132.3993 %
Concentration per Run 2	1.1572 ppm	97.2481 %	110.2874 %	90.2025 %	133.1003 %	142.5225 %	132.2028 %
Concentration per Run 3	1.1418 ppm	96.6073 %	110.4644 %	89.5707 %	131.9811 %	141.8071 %	131.5292 %
Concentration RSD	0.7 %	0.4 %	0.2 %	0.4 %	0.7 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934549-6D10 WG1934549
Analysis started at: 6/17/2024 5:08:28 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	23.0732 ppm	0.0133 ppm	0.0070 ppm	0.0919 ppm	0.0012 ppm	4.7747 ppm
Concentration per Run 1	-0.0001 ppm	23.0774 ppm	0.0136 ppm	0.0085 ppm	0.0917 ppm	0.0012 ppm	4.7778 ppm
Concentration per Run 2	0.0000 ppm	23.0738 ppm	0.0121 ppm	0.0060 ppm	0.0922 ppm	0.0012 ppm	4.7724 ppm
Concentration per Run 3	-0.0001 ppm	23.0684 ppm	0.0142 ppm	0.0064 ppm	0.0917 ppm	0.0012 ppm	4.7739 ppm
Concentration RSD	82.3 %	0.0 %	8.1 %	20.0 %	0.3 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0140 ppm	0.0586 ppm	0.0382 ppm	42.6294 ppm	1.5281 ppm	0.0213 ppm
Concentration per Run 1	0.0001 ppm	0.0143 ppm	0.0594 ppm	0.0385 ppm	42.7284 ppm	1.5337 ppm	0.0231 ppm
Concentration per Run 2	0.0003 ppm	0.0140 ppm	0.0585 ppm	0.0377 ppm	42.5835 ppm	1.5383 ppm	0.0204 ppm
Concentration per Run 3	0.0003 ppm	0.0138 ppm	0.0578 ppm	0.0382 ppm	42.5764 ppm	1.5121 ppm	0.0204 ppm
Concentration RSD	47.9 %	2.0 %	1.3 %	1.1 %	0.2 %	0.9 %	7.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9142 ppm	1.1275 ppm	0.0035 ppm	0.1535 ppm	0.0254 ppm	0.0915 ppm	0.0036 ppm
Concentration per Run 1	5.9589 ppm	1.1322 ppm	0.0039 ppm	0.1514 ppm	0.0264 ppm	0.0933 ppm	0.0056 ppm
Concentration per Run 2	5.8973 ppm	1.1282 ppm	0.0029 ppm	0.1562 ppm	0.0236 ppm	0.0915 ppm	0.0026 ppm
Concentration per Run 3	5.8862 ppm	1.1223 ppm	0.0038 ppm	0.1528 ppm	0.0261 ppm	0.0897 ppm	0.0025 ppm
Concentration RSD	0.7 %	0.4 %	15.8 %	1.6 %	6.1 %	2.0 %	48.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.9623 ppm	0.0033 ppm	0.0156 ppm	0.9134 ppm	-0.0003 ppm	0.0834 ppm
Concentration per Run 1	-0.0029 ppm	0.9676 ppm	0.0030 ppm	0.0155 ppm	0.9188 ppm	-0.0021 ppm	0.0841 ppm
Concentration per Run 2	-0.0026 ppm	0.9622 ppm	0.0037 ppm	0.0155 ppm	0.9114 ppm	0.0004 ppm	0.0832 ppm
Concentration per Run 3	0.0011 ppm	0.9571 ppm	0.0032 ppm	0.0158 ppm	0.9100 ppm	0.0008 ppm	0.0828 ppm
Concentration RSD	150.7 %	0.5 %	11.3 %	1.0 %	0.5 %	479.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1357 ppm	90.4641 %	103.9010 %	92.3833 %	106.2304 %	113.9969 %	107.3113 %
Concentration per Run 1	0.1367 ppm	90.0293 %	103.7350 %	92.2794 %	106.3863 %	113.6244 %	107.3803 %
Concentration per Run 2	0.1353 ppm	90.8250 %	104.0168 %	92.2759 %	106.7071 %	114.0422 %	107.3494 %
Concentration per Run 3	0.1351 ppm	90.5380 %	103.9512 %	92.5946 %	105.5977 %	114.3241 %	107.2042 %
Concentration RSD	0.6 %	0.4 %	0.1 %	0.2 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 5:12:27 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5039 ppm	0.4687 ppm	0.4802 ppm	0.4964 ppm	0.4936 ppm	0.5169 ppm	0.4953 ppm
Concentration per Run 1	0.5033 ppm	0.4717 ppm	0.4802 ppm	0.4941 ppm	0.4911 ppm	0.5159 ppm	0.4988 ppm
Concentration per Run 2	0.5032 ppm	0.4607 ppm	0.4774 ppm	0.4975 ppm	0.4948 ppm	0.5183 ppm	0.4940 ppm
Concentration per Run 3	0.5051 ppm	0.4738 ppm	0.4830 ppm	0.4975 ppm	0.4950 ppm	0.5166 ppm	0.4932 ppm
Recovery Percentage 1	100.773 %	93.745 %	96.040 %	99.279 %	98.728 %	103.382 %	99.060 %
Concentration RSD	0.2 %	1.5 %	0.6 %	0.4 %	0.4 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5062 ppm	0.5179 ppm	0.5015 ppm	0.4928 ppm	0.5189 ppm	5.0566 ppm	0.6031 ppm
Concentration per Run 1	0.5053 ppm	0.5158 ppm	0.5015 ppm	0.4903 ppm	0.5159 ppm	5.1007 ppm	0.6086 ppm
Concentration per Run 2	0.5067 ppm	0.5190 ppm	0.5013 ppm	0.4942 ppm	0.5199 ppm	5.0246 ppm	0.6028 ppm
Concentration per Run 3	0.5067 ppm	0.5190 ppm	0.5017 ppm	0.4937 ppm	0.5210 ppm	5.0446 ppm	0.5979 ppm
Recovery Percentage 1	101.246 %	103.583 %	100.303 %	98.552 %	103.782 %	101.133 %	120.617 %
Concentration RSD	0.2 %	0.4 %	0.0 %	0.4 %	0.5 %	0.8 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4944 ppm	0.4982 ppm	0.5117 ppm	10.1403 ppm	0.5187 ppm	0.4963 ppm	0.5120 ppm
Concentration per Run 1	0.4954 ppm	0.4979 ppm	0.5024 ppm	10.1145 ppm	0.5185 ppm	0.4980 ppm	0.5040 ppm
Concentration per Run 2	0.4935 ppm	0.4974 ppm	0.5136 ppm	10.1341 ppm	0.5178 ppm	0.4958 ppm	0.5129 ppm
Concentration per Run 3	0.4944 ppm	0.4995 ppm	0.5193 ppm	10.1723 ppm	0.5198 ppm	0.4950 ppm	0.5192 ppm
Recovery Percentage 1	98.884 %	99.648 %	102.348 %	101.403 %	103.738 %	99.252 %	102.401 %
Concentration RSD	0.2 %	0.2 %	1.7 %	0.3 %	0.2 %	0.3 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4903 ppm	5.5855 ppm	0.4934 ppm	0.4994 ppm	0.5099 ppm	0.4879 ppm	0.5001 ppm
Concentration per Run 1	0.4912 ppm	5.5652 ppm	0.4943 ppm	0.4991 ppm	0.5077 ppm	0.4892 ppm	0.4993 ppm
Concentration per Run 2	0.4872 ppm	5.5906 ppm	0.4904 ppm	0.4996 ppm	0.5102 ppm	0.4866 ppm	0.5007 ppm
Concentration per Run 3	0.4925 ppm	5.6007 ppm	0.4954 ppm	0.4994 ppm	0.5116 ppm	0.4878 ppm	0.5003 ppm
Recovery Percentage 1	98.064 %	106.390 %	98.674 %	99.873 %	101.971 %	97.575 %	100.018 %
Concentration RSD	0.6 %	0.3 %	0.5 %	0.0 %	0.4 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5185 ppm	90.6391 %	100.6820 %	92.1280 %	98.9933 %	104.2079 %	99.2954 %
Concentration per Run 1	0.5175 ppm	90.3549 %	101.0626 %	91.8410 %	98.4474 %	104.5802 %	99.0201 %
Concentration per Run 2	0.5192 ppm	90.7222 %	100.3504 %	92.4907 %	99.3123 %	103.6733 %	99.5060 %
Concentration per Run 3	0.5186 ppm	90.8401 %	100.6331 %	92.0523 %	99.2202 %	104.3701 %	99.3601 %
Recovery Percentage 1	103.691 %						
Concentration RSD	0.2 %	0.3 %	0.4 %	0.4 %	0.5 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 5:16:26 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0170 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	-0.0004 ppm	-0.0070 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	0.0002 ppm	-0.0285 ppm	0.0014 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 3	-0.0003 ppm	-0.0156 ppm	0.0017 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Recovery Percentage 1	-2.424 %	-17.014 %	39.102 %	1.636 %	-0.008 %	0.778 %	3.641 %
Concentration RSD	211.9 %	63.6 %	57.2 %	133.7 %	15,720.5 %	32.9 %	17.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0165 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0167 ppm	0.0283 ppm	-0.0009 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0161 ppm	-0.0213 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0011 ppm	0.0168 ppm	-0.0039 ppm	0.0015 ppm
Recovery Percentage 1	-1.579 %	-0.525 %	0.673 %	9.025 %	33.051 %	0.041 %	-1.507 %
Concentration RSD	97.6 %	209.3 %	85.0 %	22.3 %	2.2 %	2,474.8 %	978.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0019 ppm	0.0002 ppm	0.0016 ppm	0.0185 ppm	-0.0001 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	0.0004 ppm	0.0014 ppm	0.0166 ppm	-0.0001 ppm	0.0009 ppm	-0.0021 ppm
Concentration per Run 2	0.0017 ppm	-0.0001 ppm	0.0015 ppm	0.0194 ppm	-0.0006 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 3	0.0029 ppm	0.0003 ppm	0.0020 ppm	0.0196 ppm	0.0005 ppm	0.0017 ppm	0.0015 ppm
Recovery Percentage 1	1.851 %	2.348 %	3.229 %	0.927 %	-0.305 %	9.141 %	0.063 %
Concentration RSD	51.6 %	110.7 %	19.9 %	9.2 %	779.5 %	82.2 %	5,979.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	-0.0065 ppm	0.0008 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	-0.0025 ppm	-0.0056 ppm	0.0006 ppm	0.0003 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm
Concentration per Run 2	0.0006 ppm	-0.0058 ppm	0.0003 ppm	0.0001 ppm	-0.0006 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 3	-0.0038 ppm	-0.0080 ppm	0.0014 ppm	0.0001 ppm	0.0002 ppm	-0.0019 ppm	-0.0002 ppm
Recovery Percentage 1	-18.969 %	-1.292 %	1.571 %	1.546 %	-2.170 %	-2.203 %	-4.153 %
Concentration RSD	117.8 %	21.0 %	71.2 %	67.2 %	188.2 %	318.7 %	42.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	84.2773 %	97.4530 %	88.8859 %	100.1044 %	106.0732 %	101.2221 %
Concentration per Run 1	0.0012 ppm	83.2696 %	97.7431 %	88.4016 %	99.8047 %	106.6320 %	101.2955 %
Concentration per Run 2	0.0006 ppm	84.1990 %	96.6464 %	88.8852 %	99.9237 %	105.3187 %	101.1064 %
Concentration per Run 3	0.0008 ppm	85.3634 %	97.9694 %	89.3708 %	100.5848 %	106.2687 %	101.2644 %
Recovery Percentage 1	16.903 %						
Concentration RSD	34.9 %	1.2 %	0.7 %	0.5 %	0.4 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-34D2 WG1934549
Analysis started at: 6/17/2024 5:29:03 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0018 ppm	123.7293 ppm	0.0301 ppm	0.1021 ppm	4.3382 ppm	0.0115 ppm	13.3407 ppm
Concentration per Run 1	-0.0017 ppm	123.7029 ppm	0.0303 ppm	0.1024 ppm	4.3478 ppm	0.0115 ppm	13.3046 ppm
Concentration per Run 2	-0.0012 ppm	123.6397 ppm	0.0298 ppm	0.1009 ppm	4.3359 ppm	0.0116 ppm	13.3475 ppm
Concentration per Run 3	-0.0026 ppm	123.8452 ppm	0.0301 ppm	0.1029 ppm	4.3308 ppm	0.0114 ppm	13.3698 ppm
Concentration RSD	37.3 %	0.1 %	0.8 %	1.0 %	0.2 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.1821 ppm	0.3419 ppm	0.1220 ppm	339.7470 ppm	15.1309 ppm	0.4864 ppm
Concentration per Run 1	0.0013 ppm	0.1817 ppm	0.3406 ppm	0.1218 ppm	339.3826 ppm	15.1588 ppm	0.4818 ppm
Concentration per Run 2	0.0015 ppm	0.1822 ppm	0.3427 ppm	0.1223 ppm	339.9328 ppm	15.1431 ppm	0.4893 ppm
Concentration per Run 3	0.0013 ppm	0.1824 ppm	0.3424 ppm	0.1219 ppm	339.9257 ppm	15.0910 ppm	0.4880 ppm
Concentration RSD	7.7 %	0.2 %	0.3 %	0.2 %	0.1 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	72.8195 ppm	26.5140 ppm	0.0142 ppm	4.8485 ppm	0.4654 ppm	0.1909 ppm	0.0081 ppm
Concentration per Run 1	72.6518 ppm	26.4955 ppm	0.0140 ppm	4.8316 ppm	0.4631 ppm	0.1914 ppm	0.0106 ppm
Concentration per Run 2	72.9383 ppm	26.4834 ppm	0.0145 ppm	4.8596 ppm	0.4678 ppm	0.1892 ppm	0.0107 ppm
Concentration per Run 3	72.8685 ppm	26.5631 ppm	0.0140 ppm	4.8543 ppm	0.4652 ppm	0.1919 ppm	0.0030 ppm
Concentration RSD	0.2 %	0.2 %	2.3 %	0.3 %	0.5 %	0.8 %	54.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	2.5886 ppm	0.0069 ppm	0.1015 ppm	4.6688 ppm	0.0017 ppm	0.4277 ppm
Concentration per Run 1	-0.0021 ppm	2.5824 ppm	0.0065 ppm	0.1012 ppm	4.6518 ppm	0.0032 ppm	0.4265 ppm
Concentration per Run 2	-0.0037 ppm	2.5980 ppm	0.0075 ppm	0.1018 ppm	4.6779 ppm	0.0020 ppm	0.4255 ppm
Concentration per Run 3	-0.0033 ppm	2.5854 ppm	0.0068 ppm	0.1015 ppm	4.6766 ppm	0.0000 ppm	0.4312 ppm
Concentration RSD	28.2 %	0.3 %	7.6 %	0.3 %	0.3 %	94.7 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8352 ppm	98.1091 %	108.6490 %	90.1407 %	150.3410 %	161.5882 %	152.1939 %
Concentration per Run 1	0.8331 ppm	98.3919 %	109.2567 %	90.1997 %	150.3338 %	161.9832 %	152.2878 %
Concentration per Run 2	0.8369 ppm	97.9732 %	108.5321 %	90.0061 %	150.1822 %	161.8855 %	151.8469 %
Concentration per Run 3	0.8355 ppm	97.9621 %	108.1583 %	90.2163 %	150.5071 %	160.8961 %	152.4470 %
Concentration RSD	0.2 %	0.2 %	0.5 %	0.1 %	0.1 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-35D2 WG1934549
Analysis started at: 6/17/2024 5:33:06 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	89.4879 ppm	1.1344 ppm	0.0125 ppm	0.4185 ppm	0.0046 ppm	6.2901 ppm
Concentration per Run 1	0.0007 ppm	89.4701 ppm	1.1309 ppm	0.0127 ppm	0.4194 ppm	0.0047 ppm	6.2931 ppm
Concentration per Run 2	0.0002 ppm	89.7781 ppm	1.1356 ppm	0.0116 ppm	0.4170 ppm	0.0047 ppm	6.2974 ppm
Concentration per Run 3	0.0002 ppm	89.2154 ppm	1.1367 ppm	0.0131 ppm	0.4192 ppm	0.0046 ppm	6.2798 ppm
Concentration RSD	73.6 %	0.3 %	0.3 %	6.2 %	0.3 %	1.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0615 ppm	0.1725 ppm	0.1616 ppm	163.5872 ppm	3.5356 ppm	0.1257 ppm
Concentration per Run 1	0.0007 ppm	0.0618 ppm	0.1726 ppm	0.1620 ppm	163.8852 ppm	3.5706 ppm	0.1259 ppm
Concentration per Run 2	0.0005 ppm	0.0616 ppm	0.1725 ppm	0.1614 ppm	163.7273 ppm	3.5585 ppm	0.1263 ppm
Concentration per Run 3	0.0009 ppm	0.0609 ppm	0.1724 ppm	0.1614 ppm	163.1490 ppm	3.4777 ppm	0.1248 ppm
Concentration RSD	25.9 %	0.8 %	0.1 %	0.2 %	0.2 %	1.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.9928 ppm	2.2992 ppm	0.0056 ppm	1.0131 ppm	0.0893 ppm	0.1317 ppm	0.0088 ppm
Concentration per Run 1	16.0473 ppm	2.3019 ppm	0.0053 ppm	1.0139 ppm	0.0894 ppm	0.1322 ppm	0.0100 ppm
Concentration per Run 2	15.9807 ppm	2.2977 ppm	0.0060 ppm	1.0116 ppm	0.0898 ppm	0.1319 ppm	0.0059 ppm
Concentration per Run 3	15.9504 ppm	2.2981 ppm	0.0056 ppm	1.0138 ppm	0.0886 ppm	0.1309 ppm	0.0105 ppm
Concentration RSD	0.3 %	0.1 %	5.7 %	0.1 %	0.7 %	0.5 %	28.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0050 ppm	4.4074 ppm	0.0066 ppm	0.0495 ppm	0.5472 ppm	0.0026 ppm	0.2419 ppm
Concentration per Run 1	0.0037 ppm	4.4139 ppm	0.0063 ppm	0.0496 ppm	0.5485 ppm	0.0014 ppm	0.2425 ppm
Concentration per Run 2	0.0065 ppm	4.4067 ppm	0.0067 ppm	0.0494 ppm	0.5462 ppm	0.0036 ppm	0.2416 ppm
Concentration per Run 3	0.0049 ppm	4.4015 ppm	0.0068 ppm	0.0495 ppm	0.5468 ppm	0.0028 ppm	0.2417 ppm
Concentration RSD	27.4 %	0.1 %	3.6 %	0.3 %	0.2 %	41.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5325 ppm	92.7250 %	104.7691 %	91.6026 %	109.4667 %	117.6893 %	110.6414 %
Concentration per Run 1	0.5337 ppm	92.1815 %	104.2023 %	92.0803 %	109.0762 %	116.9831 %	110.9595 %
Concentration per Run 2	0.5325 ppm	92.9191 %	104.9237 %	91.1846 %	109.6484 %	118.0819 %	110.5550 %
Concentration per Run 3	0.5315 ppm	93.0744 %	105.1814 %	91.5429 %	109.6755 %	118.0029 %	110.4097 %
Concentration RSD	0.2 %	0.5 %	0.5 %	0.5 %	0.3 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-36D2 WG1934549
Analysis started at: 6/17/2024 5:37:04 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0022 ppm	151.7935 ppm	0.0416 ppm	0.2082 ppm	2.2869 ppm	0.0163 ppm	24.8489 ppm
Concentration per Run 1	-0.0017 ppm	151.9494 ppm	0.0401 ppm	0.2074 ppm	2.2953 ppm	0.0162 ppm	24.8691 ppm
Concentration per Run 2	-0.0024 ppm	151.4540 ppm	0.0447 ppm	0.2083 ppm	2.2711 ppm	0.0165 ppm	24.8079 ppm
Concentration per Run 3	-0.0025 ppm	151.9771 ppm	0.0400 ppm	0.2088 ppm	2.2942 ppm	0.0163 ppm	24.8696 ppm
Concentration RSD	19.1 %	0.2 %	6.5 %	0.3 %	0.6 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.2065 ppm	0.3862 ppm	0.0850 ppm	432.2414 ppm	37.2232 ppm	0.6527 ppm
Concentration per Run 1	0.0008 ppm	0.2061 ppm	0.3867 ppm	0.0864 ppm	433.1665 ppm	37.0818 ppm	0.6524 ppm
Concentration per Run 2	0.0007 ppm	0.2061 ppm	0.3856 ppm	0.0838 ppm	430.7372 ppm	36.9136 ppm	0.6494 ppm
Concentration per Run 3	0.0008 ppm	0.2074 ppm	0.3865 ppm	0.0849 ppm	432.8206 ppm	37.6743 ppm	0.6563 ppm
Concentration RSD	10.6 %	0.4 %	0.2 %	1.6 %	0.3 %	1.1 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	106.4630 ppm	9.5288 ppm	0.0105 ppm	3.5364 ppm	0.5327 ppm	0.2765 ppm	0.0074 ppm
Concentration per Run 1	106.4893 ppm	9.5324 ppm	0.0099 ppm	3.5350 ppm	0.5335 ppm	0.2770 ppm	0.0059 ppm
Concentration per Run 2	106.3419 ppm	9.5140 ppm	0.0106 ppm	3.5496 ppm	0.5330 ppm	0.2771 ppm	0.0068 ppm
Concentration per Run 3	106.5579 ppm	9.5401 ppm	0.0110 ppm	3.5248 ppm	0.5317 ppm	0.2753 ppm	0.0095 ppm
Concentration RSD	0.1 %	0.1 %	5.5 %	0.4 %	0.2 %	0.4 %	25.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0042 ppm	2.6508 ppm	0.0041 ppm	0.1356 ppm	7.8630 ppm	0.0053 ppm	0.6125 ppm
Concentration per Run 1	-0.0030 ppm	2.6496 ppm	0.0040 ppm	0.1357 ppm	7.8644 ppm	0.0053 ppm	0.6102 ppm
Concentration per Run 2	-0.0050 ppm	2.6451 ppm	0.0040 ppm	0.1357 ppm	7.8601 ppm	0.0051 ppm	0.6140 ppm
Concentration per Run 3	-0.0046 ppm	2.6576 ppm	0.0043 ppm	0.1355 ppm	7.8645 ppm	0.0054 ppm	0.6132 ppm
Concentration RSD	25.6 %	0.2 %	4.7 %	0.1 %	0.0 %	2.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0527 ppm	98.4645 %	109.8437 %	86.6755 %	**185.1555 %**	**201.5231 %**	**186.9882 %**
Concentration per Run 1	1.0528 ppm	98.5706 %	110.7742 %	86.5887 %	**185.1192 %**	**203.5678 %**	**186.7511 %**
Concentration per Run 2	1.0530 ppm	98.8038 %	108.7809 %	86.6915 %	**185.7583 %**	**199.6783 %**	**187.4929 %**
Concentration per Run 3	1.0524 ppm	98.0192 %	109.9760 %	86.7464 %	**184.5889 %**	**201.3232 %**	**186.7207 %**
Concentration RSD	0.0 %	0.4 %	0.9 %	0.1 %	**0.3 %**	**1.0 %**	**0.2 %**

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-39D2 WG1934549
Analysis started at: 6/17/2024 5:41:01 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	84.9336 ppm	1.4615 ppm	0.0094 ppm	0.4045 ppm	0.0058 ppm	5.0181 ppm
Concentration per Run 1	0.0007 ppm	85.0279 ppm	1.4628 ppm	0.0097 ppm	0.4060 ppm	0.0059 ppm	5.0241 ppm
Concentration per Run 2	0.0004 ppm	85.0160 ppm	1.4583 ppm	0.0083 ppm	0.4053 ppm	0.0058 ppm	5.0257 ppm
Concentration per Run 3	-0.0003 ppm	84.7570 ppm	1.4633 ppm	0.0103 ppm	0.4021 ppm	0.0058 ppm	5.0045 ppm
Concentration RSD	197.8 %	0.2 %	0.2 %	11.1 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0414 ppm	0.1897 ppm	0.1721 ppm	188.9508 ppm	2.8570 ppm	0.1237 ppm
Concentration per Run 1	0.0010 ppm	0.0412 ppm	0.1891 ppm	0.1730 ppm	189.2920 ppm	2.8979 ppm	0.1255 ppm
Concentration per Run 2	0.0009 ppm	0.0420 ppm	0.1890 ppm	0.1722 ppm	189.1436 ppm	2.8677 ppm	0.1225 ppm
Concentration per Run 3	0.0007 ppm	0.0412 ppm	0.1909 ppm	0.1710 ppm	188.4167 ppm	2.8055 ppm	0.1231 ppm
Concentration RSD	16.0 %	1.1 %	0.6 %	0.6 %	0.2 %	1.7 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.5337 ppm	2.1555 ppm	0.0047 ppm	0.7300 ppm	0.0928 ppm	0.1523 ppm	0.0103 ppm
Concentration per Run 1	16.5027 ppm	2.1569 ppm	0.0048 ppm	0.7289 ppm	0.0924 ppm	0.1536 ppm	0.0104 ppm
Concentration per Run 2	16.5546 ppm	2.1560 ppm	0.0047 ppm	0.7279 ppm	0.0929 ppm	0.1513 ppm	0.0079 ppm
Concentration per Run 3	16.5439 ppm	2.1536 ppm	0.0046 ppm	0.7333 ppm	0.0932 ppm	0.1521 ppm	0.0125 ppm
Concentration RSD	0.2 %	0.1 %	2.1 %	0.4 %	0.4 %	0.8 %	22.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	4.9237 ppm	0.0067 ppm	0.0436 ppm	0.5165 ppm	0.0030 ppm	0.2645 ppm
Concentration per Run 1	0.0030 ppm	4.9107 ppm	0.0061 ppm	0.0437 ppm	0.5152 ppm	0.0029 ppm	0.2637 ppm
Concentration per Run 2	0.0026 ppm	4.9311 ppm	0.0066 ppm	0.0435 ppm	0.5171 ppm	0.0031 ppm	0.2643 ppm
Concentration per Run 3	0.0015 ppm	4.9293 ppm	0.0073 ppm	0.0436 ppm	0.5173 ppm	0.0029 ppm	0.2653 ppm
Concentration RSD	34.0 %	0.2 %	8.7 %	0.2 %	0.2 %	4.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6390 ppm	92.7018 %	105.8771 %	91.3545 %	110.1659 %	119.9576 %	111.3834 %
Concentration per Run 1	0.6349 ppm	93.4666 %	107.1412 %	91.3977 %	110.8532 %	121.7744 %	111.2209 %
Concentration per Run 2	0.6407 ppm	92.2790 %	104.9210 %	91.0793 %	109.9619 %	118.8990 %	111.3351 %
Concentration per Run 3	0.6412 ppm	92.3598 %	105.5690 %	91.5866 %	109.6825 %	119.1995 %	111.5941 %
Concentration RSD	0.6 %	0.7 %	1.1 %	0.3 %	0.6 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-40D2 WG1934549
Analysis started at: 6/17/2024 5:44:59 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	117.4766 ppm	0.0331 ppm	0.2228 ppm	1.3830 ppm	0.0123 ppm	69.3106 ppm
Concentration per Run 1	-0.0017 ppm	117.7131 ppm	0.0329 ppm	0.2233 ppm	1.3780 ppm	0.0124 ppm	69.4547 ppm
Concentration per Run 2	-0.0008 ppm	117.2249 ppm	0.0324 ppm	0.2211 ppm	1.3914 ppm	0.0123 ppm	69.2559 ppm
Concentration per Run 3	-0.0016 ppm	117.4917 ppm	0.0341 ppm	0.2239 ppm	1.3796 ppm	0.0121 ppm	69.2212 ppm
Concentration RSD	35.3 %	0.2 %	2.7 %	0.7 %	0.5 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.1527 ppm	0.3424 ppm	0.0785 ppm	372.5009 ppm	34.3874 ppm	0.6007 ppm
Concentration per Run 1	0.0011 ppm	0.1518 ppm	0.3414 ppm	0.0764 ppm	373.4537 ppm	34.6211 ppm	0.6039 ppm
Concentration per Run 2	0.0016 ppm	0.1520 ppm	0.3408 ppm	0.0797 ppm	373.6508 ppm	34.3451 ppm	0.5987 ppm
Concentration per Run 3	0.0014 ppm	0.1544 ppm	0.3450 ppm	0.0794 ppm	370.3982 ppm	34.1960 ppm	0.5995 ppm
Concentration RSD	16.8 %	0.9 %	0.7 %	2.3 %	0.5 %	0.6 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	97.0792 ppm	7.8646 ppm	0.0108 ppm	2.8477 ppm	0.4004 ppm	0.2551 ppm	0.0095 ppm
Concentration per Run 1	96.8364 ppm	7.8874 ppm	0.0105 ppm	2.8483 ppm	0.3999 ppm	0.2546 ppm	0.0097 ppm
Concentration per Run 2	97.0090 ppm	7.8579 ppm	0.0106 ppm	2.8597 ppm	0.3988 ppm	0.2550 ppm	0.0073 ppm
Concentration per Run 3	97.3922 ppm	7.8486 ppm	0.0111 ppm	2.8352 ppm	0.4026 ppm	0.2555 ppm	0.0116 ppm
Concentration RSD	0.3 %	0.3 %	3.1 %	0.4 %	0.5 %	0.2 %	22.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0041 ppm	4.2427 ppm	0.0065 ppm	0.1768 ppm	7.2187 ppm	0.0047 ppm	0.3728 ppm
Concentration per Run 1	-0.0034 ppm	4.2116 ppm	0.0063 ppm	0.1771 ppm	7.1920 ppm	0.0042 ppm	0.3730 ppm
Concentration per Run 2	-0.0047 ppm	4.2477 ppm	0.0065 ppm	0.1773 ppm	7.2026 ppm	0.0036 ppm	0.3701 ppm
Concentration per Run 3	-0.0042 ppm	4.2689 ppm	0.0068 ppm	0.1759 ppm	7.2615 ppm	0.0064 ppm	0.3754 ppm
Concentration RSD	15.8 %	0.7 %	3.4 %	0.4 %	0.5 %	31.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8423 ppm	98.5239 %	109.9252 %	87.3150 %	141.8680 %	**153.8667 %**	142.7810 %
Concentration per Run 1	0.8422 ppm	98.5549 %	108.9735 %	87.3614 %	141.1275 %	**152.4586 %**	142.9636 %
Concentration per Run 2	0.8356 ppm	98.9120 %	110.1154 %	87.5926 %	142.6402 %	**154.1827 %**	143.4662 %
Concentration per Run 3	0.8492 ppm	98.1047 %	110.6867 %	86.9912 %	141.8365 %	**154.9587 %**	141.9133 %
Concentration RSD	0.8 %	0.4 %	0.8 %	0.3 %	0.5 %	**0.8 %**	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-41D2 WG1934549
Analysis started at: 6/17/2024 5:48:57 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	85.1601 ppm	1.8227 ppm	0.0156 ppm	0.4783 ppm	0.0066 ppm	12.7075 ppm
Concentration per Run 1	0.0005 ppm	85.0031 ppm	1.8140 ppm	0.0152 ppm	0.4788 ppm	0.0067 ppm	12.6954 ppm
Concentration per Run 2	0.0004 ppm	85.0024 ppm	1.8339 ppm	0.0163 ppm	0.4791 ppm	0.0066 ppm	12.6170 ppm
Concentration per Run 3	0.0003 ppm	85.4749 ppm	1.8200 ppm	0.0153 ppm	0.4769 ppm	0.0066 ppm	12.8100 ppm
Concentration RSD	32.7 %	0.3 %	0.6 %	4.0 %	0.2 %	0.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0648 ppm	0.2878 ppm	0.2444 ppm	180.2822 ppm	3.3178 ppm	0.1183 ppm
Concentration per Run 1	0.0021 ppm	0.0653 ppm	0.2888 ppm	0.2450 ppm	180.4105 ppm	3.3646 ppm	0.1190 ppm
Concentration per Run 2	0.0020 ppm	0.0647 ppm	0.2863 ppm	0.2449 ppm	180.5718 ppm	3.3208 ppm	0.1180 ppm
Concentration per Run 3	0.0022 ppm	0.0643 ppm	0.2884 ppm	0.2434 ppm	179.8643 ppm	3.2680 ppm	0.1179 ppm
Concentration RSD	3.1 %	0.8 %	0.5 %	0.4 %	0.2 %	1.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1913 ppm	4.1108 ppm	0.0042 ppm	1.2412 ppm	0.0948 ppm	0.2688 ppm	0.0116 ppm
Concentration per Run 1	15.2307 ppm	4.1063 ppm	0.0041 ppm	1.2423 ppm	0.0954 ppm	0.2680 ppm	0.0132 ppm
Concentration per Run 2	15.1322 ppm	4.1024 ppm	0.0040 ppm	1.2364 ppm	0.0942 ppm	0.2713 ppm	0.0088 ppm
Concentration per Run 3	15.2109 ppm	4.1238 ppm	0.0045 ppm	1.2448 ppm	0.0948 ppm	0.2672 ppm	0.0126 ppm
Concentration RSD	0.3 %	0.3 %	5.9 %	0.3 %	0.6 %	0.8 %	20.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	4.5821 ppm	0.0108 ppm	0.0806 ppm	0.4565 ppm	0.0020 ppm	0.2249 ppm
Concentration per Run 1	0.0031 ppm	4.5955 ppm	0.0111 ppm	0.0809 ppm	0.4578 ppm	0.0026 ppm	0.2249 ppm
Concentration per Run 2	-0.0001 ppm	4.5702 ppm	0.0106 ppm	0.0805 ppm	0.4549 ppm	0.0016 ppm	0.2246 ppm
Concentration per Run 3	0.0027 ppm	4.5806 ppm	0.0107 ppm	0.0804 ppm	0.4568 ppm	0.0017 ppm	0.2253 ppm
Concentration RSD	90.0 %	0.3 %	2.4 %	0.3 %	0.3 %	27.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8051 ppm	92.2923 %	106.2973 %	91.1328 %	111.3482 %	122.0161 %	112.1004 %
Concentration per Run 1	0.8086 ppm	92.3909 %	106.0587 %	91.3237 %	111.5625 %	121.7939 %	112.4832 %
Concentration per Run 2	0.7982 ppm	92.7132 %	106.5337 %	90.8031 %	111.7636 %	122.1387 %	111.8207 %
Concentration per Run 3	0.8085 ppm	91.7729 %	106.2995 %	91.2717 %	110.7187 %	122.1157 %	111.9972 %
Concentration RSD	0.7 %	0.5 %	0.2 %	0.3 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-42D2 WG1934549
Analysis started at: 6/17/2024 5:52:55 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0012 ppm	91.3521 ppm	0.0217 ppm	0.1426 ppm	0.9085 ppm	0.0090 ppm	15.2325 ppm
Concentration per Run 1	-0.0005 ppm	90.9139 ppm	0.0219 ppm	0.1412 ppm	0.8986 ppm	0.0090 ppm	15.2024 ppm
Concentration per Run 2	-0.0014 ppm	91.5422 ppm	0.0214 ppm	0.1426 ppm	0.9122 ppm	0.0089 ppm	15.2463 ppm
Concentration per Run 3	-0.0016 ppm	91.6002 ppm	0.0219 ppm	0.1441 ppm	0.9147 ppm	0.0090 ppm	15.2487 ppm
Concentration RSD	52.2 %	0.4 %	1.4 %	1.0 %	1.0 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1243 ppm	0.2531 ppm	0.0741 ppm	306.4623 ppm	13.6560 ppm	0.4270 ppm
Concentration per Run 1	0.0006 ppm	0.1230 ppm	0.2527 ppm	0.0737 ppm	304.9680 ppm	13.4641 ppm	0.4238 ppm
Concentration per Run 2	0.0008 ppm	0.1249 ppm	0.2514 ppm	0.0746 ppm	306.2575 ppm	13.7101 ppm	0.4271 ppm
Concentration per Run 3	0.0007 ppm	0.1251 ppm	0.2552 ppm	0.0741 ppm	308.1614 ppm	13.7937 ppm	0.4300 ppm
Concentration RSD	17.7 %	1.0 %	0.8 %	0.6 %	0.5 %	1.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	64.2417 ppm	7.0207 ppm	0.0056 ppm	2.9749 ppm	0.2960 ppm	0.1473 ppm	0.0083 ppm
Concentration per Run 1	64.0422 ppm	6.9886 ppm	0.0053 ppm	2.9769 ppm	0.2960 ppm	0.1483 ppm	0.0082 ppm
Concentration per Run 2	64.1814 ppm	7.0303 ppm	0.0059 ppm	2.9715 ppm	0.2950 ppm	0.1473 ppm	0.0103 ppm
Concentration per Run 3	64.5016 ppm	7.0433 ppm	0.0056 ppm	2.9762 ppm	0.2970 ppm	0.1462 ppm	0.0064 ppm
Concentration RSD	0.4 %	0.4 %	5.5 %	0.1 %	0.3 %	0.7 %	23.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	2.4627 ppm	0.0042 ppm	0.0782 ppm	3.0576 ppm	0.0006 ppm	0.3276 ppm
Concentration per Run 1	-0.0045 ppm	2.4433 ppm	0.0041 ppm	0.0778 ppm	3.0427 ppm	0.0000 ppm	0.3262 ppm
Concentration per Run 2	-0.0020 ppm	2.4741 ppm	0.0039 ppm	0.0779 ppm	3.0538 ppm	0.0006 ppm	0.3265 ppm
Concentration per Run 3	-0.0025 ppm	2.4706 ppm	0.0046 ppm	0.0787 ppm	3.0763 ppm	0.0011 ppm	0.3302 ppm
Concentration RSD	42.9 %	0.7 %	9.1 %	0.6 %	0.6 %	93.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6265 ppm	96.4563 %	106.2466 %	90.0889 %	134.1663 %	143.0799 %	134.2149 %
Concentration per Run 1	0.6232 ppm	96.5362 %	105.9630 %	90.1429 %	133.4880 %	142.1428 %	134.1688 %
Concentration per Run 2	0.6257 ppm	96.3486 %	107.0227 %	89.7514 %	134.6792 %	144.1093 %	133.7160 %
Concentration per Run 3	0.6305 ppm	96.4841 %	105.7541 %	90.3725 %	134.3317 %	142.9876 %	134.7598 %
Concentration RSD	0.6 %	0.1 %	0.6 %	0.3 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432096-57D2 WG1934549
Analysis started at: 6/17/2024 5:56:52 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	93.0022 ppm	1.5011 ppm	0.0128 ppm	0.4350 ppm	0.0063 ppm	5.4624 ppm
Concentration per Run 1	0.0004 ppm	92.6637 ppm	1.4960 ppm	0.0132 ppm	0.4354 ppm	0.0063 ppm	5.4446 ppm
Concentration per Run 2	0.0004 ppm	93.1226 ppm	1.5034 ppm	0.0116 ppm	0.4337 ppm	0.0063 ppm	5.4713 ppm
Concentration per Run 3	0.0004 ppm	93.2203 ppm	1.5039 ppm	0.0135 ppm	0.4360 ppm	0.0064 ppm	5.4715 ppm
Concentration RSD	7.8 %	0.3 %	0.3 %	8.2 %	0.3 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0515 ppm	0.2033 ppm	0.1961 ppm	210.8866 ppm	3.6038 ppm	0.1380 ppm
Concentration per Run 1	0.0012 ppm	0.0504 ppm	0.2031 ppm	0.1960 ppm	210.8143 ppm	3.6334 ppm	0.1385 ppm
Concentration per Run 2	0.0010 ppm	0.0517 ppm	0.2035 ppm	0.1955 ppm	210.4016 ppm	3.5788 ppm	0.1382 ppm
Concentration per Run 3	0.0011 ppm	0.0524 ppm	0.2032 ppm	0.1967 ppm	211.4440 ppm	3.5992 ppm	0.1372 ppm
Concentration RSD	6.2 %	2.0 %	0.1 %	0.3 %	0.2 %	0.8 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.3071 ppm	2.9622 ppm	0.0061 ppm	1.0680 ppm	0.0958 ppm	0.1759 ppm	0.0092 ppm
Concentration per Run 1	17.2622 ppm	2.9573 ppm	0.0061 ppm	1.0655 ppm	0.0954 ppm	0.1766 ppm	0.0107 ppm
Concentration per Run 2	17.3399 ppm	2.9633 ppm	0.0057 ppm	1.0700 ppm	0.0968 ppm	0.1731 ppm	0.0052 ppm
Concentration per Run 3	17.3192 ppm	2.9661 ppm	0.0065 ppm	1.0684 ppm	0.0952 ppm	0.1781 ppm	0.0116 ppm
Concentration RSD	0.2 %	0.2 %	7.1 %	0.2 %	0.9 %	1.5 %	38.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	4.5868 ppm	0.0085 ppm	0.0534 ppm	0.4393 ppm	0.0019 ppm	0.2594 ppm
Concentration per Run 1	0.0026 ppm	4.5789 ppm	0.0086 ppm	0.0537 ppm	0.4382 ppm	0.0020 ppm	0.2585 ppm
Concentration per Run 2	0.0031 ppm	4.5814 ppm	0.0097 ppm	0.0531 ppm	0.4391 ppm	0.0019 ppm	0.2597 ppm
Concentration per Run 3	0.0039 ppm	4.6001 ppm	0.0073 ppm	0.0534 ppm	0.4407 ppm	0.0018 ppm	0.2600 ppm
Concentration RSD	21.1 %	0.3 %	14.1 %	0.5 %	0.3 %	3.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6307 ppm	92.8629 %	105.5140 %	90.7758 %	108.6497 %	118.4211 %	109.3966 %
Concentration per Run 1	0.6327 ppm	92.6297 %	105.4864 %	91.1448 %	108.5623 %	118.0935 %	109.7013 %
Concentration per Run 2	0.6311 ppm	92.8042 %	106.0766 %	91.1982 %	108.3517 %	119.0736 %	109.9661 %
Concentration per Run 3	0.6284 ppm	93.1549 %	104.9791 %	89.9842 %	109.0351 %	118.0962 %	108.5226 %
Concentration RSD	0.3 %	0.3 %	0.5 %	0.8 %	0.3 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432738-07D2 WG1934549
Analysis started at: 6/17/2024 6:00:50 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	90.4837 ppm	0.0635 ppm	0.0286 ppm	0.4561 ppm	0.0060 ppm	38.7020 ppm
Concentration per Run 1	0.0001 ppm	90.1457 ppm	0.0616 ppm	0.0288 ppm	0.4550 ppm	0.0061 ppm	38.7163 ppm
Concentration per Run 2	-0.0003 ppm	90.6405 ppm	0.0648 ppm	0.0284 ppm	0.4563 ppm	0.0060 ppm	38.7131 ppm
Concentration per Run 3	-0.0002 ppm	90.6647 ppm	0.0642 ppm	0.0288 ppm	0.4569 ppm	0.0058 ppm	38.6766 ppm
Concentration RSD	128.8 %	0.3 %	2.7 %	0.8 %	0.2 %	1.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0492 ppm	0.4715 ppm	0.2344 ppm	196.1715 ppm	6.7473 ppm	0.0886 ppm
Concentration per Run 1	0.0008 ppm	0.0489 ppm	0.4712 ppm	0.2345 ppm	196.7556 ppm	6.7515 ppm	0.0897 ppm
Concentration per Run 2	0.0008 ppm	0.0495 ppm	0.4705 ppm	0.2347 ppm	195.7893 ppm	6.7365 ppm	0.0881 ppm
Concentration per Run 3	0.0008 ppm	0.0492 ppm	0.4729 ppm	0.2339 ppm	195.9696 ppm	6.7539 ppm	0.0880 ppm
Concentration RSD	4.5 %	0.6 %	0.3 %	0.2 %	0.3 %	0.1 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.5169 ppm	4.6657 ppm	0.0088 ppm	0.7168 ppm	0.1101 ppm	0.7509 ppm	0.0028 ppm
Concentration per Run 1	30.5315 ppm	4.6492 ppm	0.0089 ppm	0.7278 ppm	0.1099 ppm	0.7518 ppm	0.0008 ppm
Concentration per Run 2	30.4719 ppm	4.6704 ppm	0.0088 ppm	0.7154 ppm	0.1094 ppm	0.7495 ppm	0.0039 ppm
Concentration per Run 3	30.5474 ppm	4.6775 ppm	0.0088 ppm	0.7072 ppm	0.1109 ppm	0.7513 ppm	0.0036 ppm
Concentration RSD	0.1 %	0.3 %	0.8 %	1.4 %	0.7 %	0.2 %	63.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	2.8944 ppm	0.0116 ppm	0.0875 ppm	4.2444 ppm	0.0022 ppm	0.4170 ppm
Concentration per Run 1	-0.0002 ppm	2.8792 ppm	0.0120 ppm	0.0883 ppm	4.2365 ppm	0.0035 ppm	0.4172 ppm
Concentration per Run 2	-0.0035 ppm	2.9126 ppm	0.0116 ppm	0.0874 ppm	4.2393 ppm	0.0025 ppm	0.4159 ppm
Concentration per Run 3	0.0016 ppm	2.8915 ppm	0.0111 ppm	0.0868 ppm	4.2575 ppm	0.0006 ppm	0.4179 ppm
Concentration RSD	359.8 %	0.6 %	3.8 %	0.9 %	0.3 %	67.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5980 ppm	95.9591 %	107.8964 %	90.6329 %	121.7519 %	132.0839 %	122.3046 %
Concentration per Run 1	0.5975 ppm	95.9088 %	107.3571 %	90.6427 %	121.4824 %	132.1872 %	121.9973 %
Concentration per Run 2	0.5984 ppm	95.9780 %	108.2308 %	90.7701 %	121.9894 %	132.2878 %	122.2895 %
Concentration per Run 3	0.5981 ppm	95.9905 %	108.1013 %	90.4859 %	121.7840 %	131.7768 %	122.6270 %
Concentration RSD	0.1 %	0.0 %	0.4 %	0.2 %	0.2 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432738-08D2 WG1934549
Analysis started at: 6/17/2024 6:04:49 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	50.7782 ppm	0.0739 ppm	0.0820 ppm	0.6221 ppm	0.0024 ppm	976.4529 ppm
Concentration per Run 1	-0.0006 ppm	50.6757 ppm	0.0739 ppm	0.0810 ppm	0.6203 ppm	0.0024 ppm	972.8835 ppm
Concentration per Run 2	-0.0008 ppm	50.9217 ppm	0.0754 ppm	0.0817 ppm	0.6236 ppm	0.0023 ppm	978.0544 ppm
Concentration per Run 3	-0.0008 ppm	50.7370 ppm	0.0725 ppm	0.0831 ppm	0.6226 ppm	0.0024 ppm	978.4208 ppm
Concentration RSD	13.8 %	0.3 %	2.0 %	1.3 %	0.3 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0393 ppm	0.2280 ppm	0.3760 ppm	290.7119 ppm	9.4271 ppm	0.0661 ppm
Concentration per Run 1	0.0010 ppm	0.0395 ppm	0.2280 ppm	0.3743 ppm	289.8733 ppm	9.4224 ppm	0.0669 ppm
Concentration per Run 2	0.0011 ppm	0.0387 ppm	0.2275 ppm	0.3779 ppm	291.1482 ppm	9.4651 ppm	0.0656 ppm
Concentration per Run 3	0.0011 ppm	0.0397 ppm	0.2286 ppm	0.3758 ppm	291.1142 ppm	9.3937 ppm	0.0659 ppm
Concentration RSD	7.1 %	1.3 %	0.2 %	0.5 %	0.2 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	266.6949 ppm	4.1610 ppm	0.0508 ppm	2.1496 ppm	0.1225 ppm	0.6214 ppm	0.0082 ppm
Concentration per Run 1	266.3202 ppm	4.1514 ppm	0.0491 ppm	2.1551 ppm	0.1232 ppm	0.6213 ppm	0.0092 ppm
Concentration per Run 2	266.8750 ppm	4.1674 ppm	0.0514 ppm	2.1412 ppm	0.1216 ppm	0.6223 ppm	0.0073 ppm
Concentration per Run 3	266.8895 ppm	4.1642 ppm	0.0519 ppm	2.1525 ppm	0.1228 ppm	0.6206 ppm	0.0082 ppm
Concentration RSD	0.1 %	0.2 %	2.9 %	0.3 %	0.7 %	0.1 %	11.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0129 ppm	31.3616 ppm	0.0188 ppm	4.1425 ppm	2.0593 ppm	-0.0015 ppm	0.0815 ppm
Concentration per Run 1	-0.0128 ppm	31.1450 ppm	0.0183 ppm	4.1248 ppm	2.0520 ppm	-0.0018 ppm	0.0816 ppm
Concentration per Run 2	-0.0133 ppm	31.5879 ppm	0.0197 ppm	4.1446 ppm	2.0608 ppm	-0.0010 ppm	0.0810 ppm
Concentration per Run 3	-0.0124 ppm	31.3518 ppm	0.0183 ppm	4.1581 ppm	2.0651 ppm	-0.0017 ppm	0.0819 ppm
Concentration RSD	3.4 %	0.7 %	4.4 %	0.4 %	0.3 %	26.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2609 ppm	83.9735 %	99.2384 %	75.3586 %	95.7688 %	108.9977 %	95.0831 %
Concentration per Run 1	1.2577 ppm	84.2245 %	99.1249 %	75.5968 %	95.7642 %	108.7320 %	95.4445 %
Concentration per Run 2	1.2632 ppm	83.8282 %	99.2949 %	75.2488 %	95.8023 %	109.1801 %	94.8998 %
Concentration per Run 3	1.2618 ppm	83.8676 %	99.2954 %	75.2303 %	95.7399 %	109.0811 %	94.9049 %
Concentration RSD	0.2 %	0.3 %	0.1 %	0.3 %	0.0 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 6:08:47 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4766 ppm	0.4778 ppm	0.4984 ppm	0.4948 ppm	0.5163 ppm	0.5145 ppm
Concentration per Run 1	0.5011 ppm	0.4825 ppm	0.4773 ppm	0.4950 ppm	0.4951 ppm	0.5161 ppm	0.5129 ppm
Concentration per Run 2	0.5027 ppm	0.4774 ppm	0.4772 ppm	0.5020 ppm	0.4954 ppm	0.5151 ppm	0.5138 ppm
Concentration per Run 3	0.5035 ppm	0.4698 ppm	0.4790 ppm	0.4981 ppm	0.4939 ppm	0.5177 ppm	0.5169 ppm
Recovery Percentage 1	100.489 %	95.313 %	95.567 %	99.673 %	98.957 %	103.258 %	102.908 %
Concentration RSD	0.3 %	1.3 %	0.2 %	0.7 %	0.2 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5052 ppm	0.5184 ppm	0.5012 ppm	0.4934 ppm	0.5263 ppm	4.9798 ppm	0.5978 ppm
Concentration per Run 1	0.5053 ppm	0.5190 ppm	0.5002 ppm	0.4929 ppm	0.5279 ppm	5.0226 ppm	0.5999 ppm
Concentration per Run 2	0.5062 ppm	0.5197 ppm	0.5022 ppm	0.4942 ppm	0.5255 ppm	4.9728 ppm	0.5997 ppm
Concentration per Run 3	0.5043 ppm	0.5164 ppm	0.5014 ppm	0.4931 ppm	0.5255 ppm	4.9438 ppm	0.5936 ppm
Recovery Percentage 1	101.049 %	103.674 %	100.246 %	98.680 %	105.259 %	99.595 %	119.553 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %	0.3 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4970 ppm	0.4927 ppm	0.5105 ppm	10.0049 ppm	0.5182 ppm	0.4949 ppm	0.5070 ppm
Concentration per Run 1	0.4995 ppm	0.4932 ppm	0.5026 ppm	10.0065 ppm	0.5178 ppm	0.4964 ppm	0.5047 ppm
Concentration per Run 2	0.4947 ppm	0.4920 ppm	0.5127 ppm	9.9894 ppm	0.5206 ppm	0.4929 ppm	0.5082 ppm
Concentration per Run 3	0.4968 ppm	0.4928 ppm	0.5161 ppm	10.0186 ppm	0.5162 ppm	0.4954 ppm	0.5082 ppm
Recovery Percentage 1	99.395 %	98.533 %	102.093 %	100.049 %	103.641 %	98.985 %	101.402 %
Concentration RSD	0.5 %	0.1 %	1.4 %	0.1 %	0.4 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4866 ppm	5.5854 ppm	0.4906 ppm	0.4953 ppm	0.5101 ppm	0.4835 ppm	0.4999 ppm
Concentration per Run 1	0.4839 ppm	5.5928 ppm	0.4894 ppm	0.4947 ppm	0.5095 ppm	0.4838 ppm	0.4983 ppm
Concentration per Run 2	0.4843 ppm	5.5848 ppm	0.4916 ppm	0.4961 ppm	0.5101 ppm	0.4844 ppm	0.5014 ppm
Concentration per Run 3	0.4916 ppm	5.5785 ppm	0.4910 ppm	0.4953 ppm	0.5108 ppm	0.4823 ppm	0.4999 ppm
Recovery Percentage 1	97.318 %	106.388 %	98.129 %	99.070 %	102.025 %	96.700 %	99.972 %
Concentration RSD	0.9 %	0.1 %	0.2 %	0.1 %	0.1 %	0.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5165 ppm	90.6350 %	102.6329 %	92.1380 %	99.4645 %	106.6540 %	99.4954 %
Concentration per Run 1	0.5167 ppm	90.4983 %	102.5527 %	91.8610 %	99.4226 %	106.7548 %	99.3376 %
Concentration per Run 2	0.5174 ppm	90.5401 %	102.6467 %	92.4230 %	99.3161 %	106.5868 %	99.5219 %
Concentration per Run 3	0.5154 ppm	90.8667 %	102.6991 %	92.1300 %	99.6547 %	106.6203 %	99.6266 %
Recovery Percentage 1	103.297 %						
Concentration RSD	0.2 %	0.2 %	0.1 %	0.3 %	0.2 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 6:12:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0089 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 1	0.0003 ppm	-0.0047 ppm	-0.0013 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	0.0008 ppm	-0.0150 ppm	-0.0003 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 3	0.0005 ppm	-0.0069 ppm	0.0012 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm
Recovery Percentage 1	7.592 %	-8.858 %	-4.609 %	2.535 %	-0.294 %	0.615 %	3.497 %
Concentration RSD	51.6 %	61.7 %	921.6 %	201.5 %	618.0 %	57.2 %	25.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0178 ppm	0.0087 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0170 ppm	0.0324 ppm	-0.0013 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0180 ppm	-0.0116 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0182 ppm	0.0054 ppm	0.0010 ppm
Recovery Percentage 1	0.418 %	-0.311 %	1.150 %	7.957 %	35.519 %	0.348 %	-1.779 %
Concentration RSD	357.4 %	503.4 %	120.6 %	33.0 %	3.6 %	254.9 %	655.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0000 ppm	0.0016 ppm	0.0140 ppm	-0.0005 ppm	0.0007 ppm	-0.0008 ppm
Concentration per Run 1	-0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0161 ppm	-0.0003 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 2	-0.0013 ppm	0.0001 ppm	0.0020 ppm	0.0114 ppm	-0.0006 ppm	0.0009 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0015 ppm	0.0147 ppm	-0.0005 ppm	0.0010 ppm	-0.0008 ppm
Recovery Percentage 1	-0.596 %	0.352 %	3.231 %	0.702 %	-1.851 %	7.437 %	-1.553 %
Concentration RSD	113.8 %	113.0 %	22.7 %	17.1 %	36.5 %	46.9 %	31.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0001 ppm	-0.0002 ppm	-0.0013 ppm	-0.0003 ppm
Concentration per Run 1	-0.0022 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm	-0.0004 ppm	-0.0021 ppm	-0.0006 ppm
Concentration per Run 2	0.0010 ppm	0.0006 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0007 ppm	-0.0021 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0012 ppm	-0.0003 ppm
Recovery Percentage 1	-1.680 %	-0.090 %	0.957 %	1.026 %	-2.455 %	-6.416 %	-3.254 %
Concentration RSD	1,037.9 %	318.9 %	113.4 %	85.0 %	60.7 %	63.7 %	88.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	84.9503 %	98.2343 %	89.1611 %	100.6501 %	106.8207 %	101.2613 %
Concentration per Run 1	0.0010 ppm	84.2563 %	98.4758 %	88.9796 %	100.6984 %	107.6595 %	101.5034 %
Concentration per Run 2	0.0010 ppm	84.8086 %	98.2033 %	88.9689 %	100.4482 %	106.4914 %	101.1474 %
Concentration per Run 3	0.0009 ppm	85.7860 %	98.0237 %	89.5349 %	100.8035 %	106.3111 %	101.1330 %
Recovery Percentage 1	19.475 %						
Concentration RSD	5.3 %	0.9 %	0.2 %	0.4 %	0.2 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-1 WG1935242
Analysis started at: 6/17/2024 7:35:16 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0073 ppm	0.0005 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0108 ppm
Concentration per Run 1	0.0001 ppm	-0.0044 ppm	0.0002 ppm	0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.0097 ppm
Concentration per Run 2	0.0000 ppm	-0.0111 ppm	0.0020 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0091 ppm
Concentration per Run 3	0.0001 ppm	-0.0064 ppm	-0.0008 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0135 ppm
Recovery Percentage 1	1.140 %	-7.295 %	15.935 %	1.931 %	-0.234 %	-0.957 %	10.758 %
Concentration RSD	63.2 %	46.7 %	287.8 %	94.0 %	683.4 %	114.4 %	22.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0076 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0003 ppm	-0.0006 ppm	0.0139 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm	-0.0016 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0004 ppm	0.0009 ppm	0.0104 ppm	-0.0015 ppm
Recovery Percentage 1	-0.306 %	-0.007 %	-1.437 %	-0.354 %	1.329 %	0.303 %	-8.582 %
Concentration RSD	297.3 %	21,817.9 %	151.5 %	872.3 %	176.0 %	107.5 %	121.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	0.0003 ppm	0.0006 ppm	0.0101 ppm	-0.0006 ppm	0.0004 ppm	-0.0018 ppm
Concentration per Run 1	0.0042 ppm	0.0004 ppm	0.0004 ppm	0.0100 ppm	-0.0001 ppm	0.0006 ppm	-0.0029 ppm
Concentration per Run 2	-0.0017 ppm	0.0004 ppm	0.0011 ppm	0.0100 ppm	-0.0013 ppm	0.0002 ppm	-0.0006 ppm
Concentration per Run 3	-0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0102 ppm	-0.0004 ppm	0.0005 ppm	-0.0021 ppm
Recovery Percentage 1	0.543 %	3.319 %	1.224 %	0.503 %	-2.481 %	4.142 %	-3.688 %
Concentration RSD	588.6 %	19.0 %	73.9 %	1.1 %	104.4 %	53.0 %	62.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0075 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 1	-0.0004 ppm	0.0157 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0014 ppm	-0.0005 ppm
Concentration per Run 2	-0.0040 ppm	0.0039 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 3	-0.0004 ppm	0.0029 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0026 ppm	-0.0003 ppm
Recovery Percentage 1	-15.719 %	1.500 %	1.332 %	0.955 %	-0.457 %	-6.862 %	-3.615 %
Concentration RSD	131.3 %	95.0 %	73.3 %	133.0 %	281.7 %	89.2 %	35.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	98.0989 %	104.1083 %	98.4606 %	103.6240 %	106.7082 %	102.8480 %
Concentration per Run 1	0.0002 ppm	98.6704 %	104.2496 %	98.2232 %	103.3320 %	106.6518 %	102.6065 %
Concentration per Run 2	0.0003 ppm	97.8338 %	103.7279 %	98.8622 %	103.4619 %	106.0151 %	103.1190 %
Concentration per Run 3	0.0000 ppm	97.7926 %	104.3475 %	98.2963 %	104.0782 %	107.4578 %	102.8187 %
Recovery Percentage 1	2.854 %						
Concentration RSD	87.2 %	0.5 %	0.3 %	0.4 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-2 WG1935242
Analysis started at: 6/17/2024 7:39:39 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0535 ppm	1.9954 ppm	0.1233 ppm	1.0619 ppm	2.0051 ppm	0.0517 ppm	10.3644 ppm
Concentration per Run 1	0.0539 ppm	1.9933 ppm	0.1242 ppm	1.0763 ppm	2.0036 ppm	0.0519 ppm	10.3665 ppm
Concentration per Run 2	0.0531 ppm	2.0015 ppm	0.1231 ppm	1.0564 ppm	2.0016 ppm	0.0516 ppm	10.3779 ppm
Concentration per Run 3	0.0535 ppm	1.9914 ppm	0.1227 ppm	1.0530 ppm	2.0102 ppm	0.0517 ppm	10.3487 ppm
Concentration RSD	0.8 %	0.3 %	0.6 %	1.2 %	0.2 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0571 ppm	0.5294 ppm	0.2100 ppm	0.2637 ppm	1.0406 ppm	10.3565 ppm	-0.0003 ppm
Concentration per Run 1	0.0578 ppm	0.5353 ppm	0.2120 ppm	0.2676 ppm	1.0408 ppm	10.3734 ppm	-0.0012 ppm
Concentration per Run 2	0.0569 ppm	0.5278 ppm	0.2094 ppm	0.2628 ppm	1.0373 ppm	10.3402 ppm	0.0000 ppm
Concentration per Run 3	0.0564 ppm	0.5250 ppm	0.2084 ppm	0.2609 ppm	1.0437 ppm	10.3560 ppm	0.0004 ppm
Concentration RSD	1.2 %	1.0 %	0.9 %	1.3 %	0.3 %	0.2 %	290.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6428 ppm	0.5066 ppm	1.0302 ppm	10.5623 ppm	0.5342 ppm	0.5588 ppm	0.4422 ppm
Concentration per Run 1	10.7760 ppm	0.5071 ppm	1.0230 ppm	10.5645 ppm	0.5404 ppm	0.5624 ppm	0.4415 ppm
Concentration per Run 2	10.6126 ppm	0.5066 ppm	1.0304 ppm	10.5675 ppm	0.5304 ppm	0.5588 ppm	0.4379 ppm
Concentration per Run 3	10.5399 ppm	0.5061 ppm	1.0371 ppm	10.5549 ppm	0.5318 ppm	0.5554 ppm	0.4472 ppm
Concentration RSD	1.1 %	0.1 %	0.7 %	0.1 %	1.0 %	0.6 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1220 ppm	1.0756 ppm	0.9652 ppm	1.0031 ppm	1.0881 ppm	0.1250 ppm	0.5299 ppm
Concentration per Run 1	0.1245 ppm	1.0914 ppm	0.9597 ppm	1.0022 ppm	1.0990 ppm	0.1262 ppm	0.5329 ppm
Concentration per Run 2	0.1213 ppm	1.0660 ppm	0.9647 ppm	1.0019 ppm	1.0851 ppm	0.1256 ppm	0.5311 ppm
Concentration per Run 3	0.1203 ppm	1.0694 ppm	0.9711 ppm	1.0052 ppm	1.0802 ppm	0.1232 ppm	0.5258 ppm
Concentration RSD	1.8 %	1.3 %	0.6 %	0.2 %	0.9 %	1.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5403 ppm	85.6855 %	100.1395 %	88.4093 %	98.2192 %	105.4999 %	98.5375 %
Concentration per Run 1	0.5459 ppm	84.9274 %	100.6374 %	88.2153 %	98.2829 %	106.4056 %	98.8713 %
Concentration per Run 2	0.5391 ppm	85.6539 %	100.0989 %	88.5577 %	97.9601 %	105.3634 %	98.7535 %
Concentration per Run 3	0.5359 ppm	86.4752 %	99.6822 %	88.4550 %	98.4145 %	104.7308 %	97.9877 %
Concentration RSD	0.9 %	0.9 %	0.5 %	0.2 %	0.2 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-3 WG1935242
Analysis started at: 6/17/2024 7:45:09 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0447 ppm	1.8608 ppm	0.1103 ppm	0.8653 ppm	1.8736 ppm	0.0485 ppm	9.7344 ppm
Concentration per Run 1	0.0434 ppm	1.8587 ppm	0.1107 ppm	0.8475 ppm	1.8743 ppm	0.0484 ppm	9.6777 ppm
Concentration per Run 2	0.0451 ppm	1.8564 ppm	0.1097 ppm	0.8614 ppm	1.8736 ppm	0.0484 ppm	9.7485 ppm
Concentration per Run 3	0.0454 ppm	1.8674 ppm	0.1104 ppm	0.8868 ppm	1.8728 ppm	0.0486 ppm	9.7769 ppm
Concentration RSD	2.4 %	0.3 %	0.4 %	2.3 %	0.0 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0470 ppm	0.4398 ppm	0.1741 ppm	0.2198 ppm	0.9550 ppm	9.6985 ppm	-0.0011 ppm
Concentration per Run 1	0.0461 ppm	0.4315 ppm	0.1707 ppm	0.2158 ppm	0.9540 ppm	9.7206 ppm	-0.0008 ppm
Concentration per Run 2	0.0471 ppm	0.4401 ppm	0.1743 ppm	0.2205 ppm	0.9504 ppm	9.6697 ppm	-0.0024 ppm
Concentration per Run 3	0.0479 ppm	0.4479 ppm	0.1774 ppm	0.2231 ppm	0.9607 ppm	9.7051 ppm	-0.0001 ppm
Concentration RSD	1.9 %	1.9 %	1.9 %	1.7 %	0.5 %	0.3 %	107.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.7920 ppm	0.4742 ppm	0.8779 ppm	9.9076 ppm	0.4425 ppm	0.5061 ppm	0.3755 ppm
Concentration per Run 1	8.6154 ppm	0.4729 ppm	0.8498 ppm	9.8760 ppm	0.4340 ppm	0.5039 ppm	0.3639 ppm
Concentration per Run 2	8.7838 ppm	0.4741 ppm	0.8783 ppm	9.8992 ppm	0.4434 ppm	0.5049 ppm	0.3763 ppm
Concentration per Run 3	8.9769 ppm	0.4757 ppm	0.9055 ppm	9.9474 ppm	0.4501 ppm	0.5094 ppm	0.3862 ppm
Concentration RSD	2.1 %	0.3 %	3.2 %	0.4 %	1.8 %	0.6 %	3.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1090 ppm	0.8807 ppm	0.9409 ppm	0.9416 ppm	0.9127 ppm	0.1136 ppm	0.4432 ppm
Concentration per Run 1	0.1078 ppm	0.8593 ppm	0.9429 ppm	0.9398 ppm	0.8925 ppm	0.1131 ppm	0.4335 ppm
Concentration per Run 2	0.1068 ppm	0.8872 ppm	0.9403 ppm	0.9419 ppm	0.9161 ppm	0.1128 ppm	0.4434 ppm
Concentration per Run 3	0.1124 ppm	0.8957 ppm	0.9396 ppm	0.9431 ppm	0.9295 ppm	0.1148 ppm	0.4526 ppm
Concentration RSD	2.7 %	2.2 %	0.2 %	0.2 %	2.1 %	1.0 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4422 ppm	104.0873 %	105.5305 %	99.1054 %	102.1289 %	105.4433 %	101.0812 %
Concentration per Run 1	0.4350 ppm	106.2614 %	105.3739 %	99.8433 %	101.9791 %	104.9435 %	101.0211 %
Concentration per Run 2	0.4413 ppm	104.5084 %	106.1952 %	99.0582 %	102.7044 %	106.0633 %	100.9687 %
Concentration per Run 3	0.4501 ppm	101.4921 %	105.0225 %	98.4146 %	101.7031 %	105.3230 %	101.2537 %
Concentration RSD	1.7 %	2.3 %	0.6 %	0.7 %	0.5 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-01 WG1935242
Analysis started at: 6/17/2024 7:49:23 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1250 ppm	0.0004 ppm	0.0408 ppm	0.1424 ppm	0.0001 ppm	83.7434 ppm
Concentration per Run 1	-0.0003 ppm	0.1254 ppm	-0.0005 ppm	0.0410 ppm	0.1430 ppm	0.0001 ppm	83.7719 ppm
Concentration per Run 2	0.0008 ppm	0.1263 ppm	0.0005 ppm	0.0426 ppm	0.1424 ppm	0.0001 ppm	83.8170 ppm
Concentration per Run 3	0.0002 ppm	0.1232 ppm	0.0012 ppm	0.0386 ppm	0.1417 ppm	0.0001 ppm	83.6414 ppm
Concentration RSD	249.3 %	1.3 %	192.5 %	5.0 %	0.4 %	5.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0006 ppm	-0.0002 ppm	0.0036 ppm	0.1361 ppm	11.4289 ppm	0.0153 ppm
Concentration per Run 1	0.0005 ppm	0.0007 ppm	-0.0007 ppm	0.0037 ppm	0.1369 ppm	11.4502 ppm	0.0169 ppm
Concentration per Run 2	0.0006 ppm	0.0003 ppm	-0.0002 ppm	0.0039 ppm	0.1333 ppm	11.5071 ppm	0.0144 ppm
Concentration per Run 3	0.0007 ppm	0.0010 ppm	0.0004 ppm	0.0033 ppm	0.1379 ppm	11.3294 ppm	0.0146 ppm
Concentration RSD	12.8 %	53.2 %	329.6 %	8.3 %	1.8 %	0.8 %	9.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.1379 ppm	0.1347 ppm	0.0072 ppm	592.9277 ppm	0.0019 ppm	0.0008 ppm	0.0014 ppm
Concentration per Run 1	17.3607 ppm	0.1352 ppm	0.0071 ppm	594.2765 ppm	0.0020 ppm	-0.0001 ppm	0.0041 ppm
Concentration per Run 2	17.0985 ppm	0.1351 ppm	0.0070 ppm	592.5245 ppm	0.0023 ppm	0.0011 ppm	-0.0015 ppm
Concentration per Run 3	16.9546 ppm	0.1339 ppm	0.0074 ppm	591.9820 ppm	0.0015 ppm	0.0014 ppm	0.0017 ppm
Concentration RSD	1.2 %	0.5 %	2.6 %	0.2 %	19.2 %	104.4 %	196.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	8.5887 ppm	0.0016 ppm	0.6568 ppm	-0.0003 ppm	0.0043 ppm	1.3340 ppm
Concentration per Run 1	-0.0008 ppm	8.6795 ppm	0.0017 ppm	0.6588 ppm	-0.0004 ppm	0.0040 ppm	1.3465 ppm
Concentration per Run 2	0.0018 ppm	8.5667 ppm	0.0015 ppm	0.6552 ppm	-0.0002 ppm	0.0051 ppm	1.3285 ppm
Concentration per Run 3	0.0013 ppm	8.5198 ppm	0.0017 ppm	0.6566 ppm	-0.0003 ppm	0.0037 ppm	1.3270 ppm
Concentration RSD	178.4 %	1.0 %	9.8 %	0.3 %	23.9 %	17.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0264 ppm	80.1066 %	96.0022 %	81.1887 %	93.0656 %	102.5913 %	93.8148 %
Concentration per Run 1	0.0268 ppm	79.1172 %	95.7991 %	80.9697 %	92.6361 %	102.6217 %	93.9956 %
Concentration per Run 2	0.0262 ppm	80.6334 %	96.1451 %	81.0259 %	93.6467 %	102.6157 %	93.6103 %
Concentration per Run 3	0.0262 ppm	80.5692 %	96.0624 %	81.5704 %	92.9140 %	102.5366 %	93.8385 %
Concentration RSD	1.4 %	1.1 %	0.2 %	0.4 %	0.6 %	0.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-4 WG1935242
Analysis started at: 6/17/2024 7:53:22 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0531 ppm	2.0290 ppm	0.1307 ppm	1.0715 ppm	2.0624 ppm	0.0504 ppm	91.4372 ppm
Concentration per Run 1	0.0533 ppm	2.0219 ppm	0.1309 ppm	1.0807 ppm	2.0708 ppm	0.0507 ppm	91.3715 ppm
Concentration per Run 2	0.0528 ppm	2.0388 ppm	0.1322 ppm	1.0694 ppm	2.0633 ppm	0.0502 ppm	91.4517 ppm
Concentration per Run 3	0.0531 ppm	2.0263 ppm	0.1289 ppm	1.0644 ppm	2.0531 ppm	0.0502 ppm	91.4882 ppm
Concentration RSD	0.4 %	0.4 %	1.3 %	0.8 %	0.4 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0548 ppm	0.4994 ppm	0.2000 ppm	0.2630 ppm	1.1022 ppm	21.6559 ppm	0.0151 ppm
Concentration per Run 1	0.0556 ppm	0.5053 ppm	0.2030 ppm	0.2661 ppm	1.1081 ppm	21.6138 ppm	0.0178 ppm
Concentration per Run 2	0.0546 ppm	0.4981 ppm	0.1988 ppm	0.2622 ppm	1.1021 ppm	21.7411 ppm	0.0138 ppm
Concentration per Run 3	0.0542 ppm	0.4947 ppm	0.1982 ppm	0.2606 ppm	1.0964 ppm	21.6129 ppm	0.0136 ppm
Concentration RSD	1.3 %	1.1 %	1.3 %	1.1 %	0.5 %	0.3 %	15.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.7523 ppm	0.6122 ppm	0.9758 ppm	582.2400 ppm	0.5040 ppm	0.5454 ppm	0.4536 ppm
Concentration per Run 1	27.1579 ppm	0.6133 ppm	0.9666 ppm	582.6994 ppm	0.5110 ppm	0.5492 ppm	0.4552 ppm
Concentration per Run 2	26.6712 ppm	0.6123 ppm	0.9753 ppm	581.2446 ppm	0.5017 ppm	0.5450 ppm	0.4527 ppm
Concentration per Run 3	26.4279 ppm	0.6109 ppm	0.9857 ppm	582.7760 ppm	0.4994 ppm	0.5420 ppm	0.4529 ppm
Concentration RSD	1.4 %	0.2 %	1.0 %	0.1 %	1.2 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1312 ppm	9.6608 ppm	0.9189 ppm	1.5964 ppm	1.0696 ppm	0.1240 ppm	1.8212 ppm
Concentration per Run 1	0.1325 ppm	9.7542 ppm	0.9144 ppm	1.6038 ppm	1.0823 ppm	0.1240 ppm	1.8372 ppm
Concentration per Run 2	0.1311 ppm	9.6450 ppm	0.9189 ppm	1.5912 ppm	1.0690 ppm	0.1226 ppm	1.8168 ppm
Concentration per Run 3	0.1300 ppm	9.5832 ppm	0.9233 ppm	1.5941 ppm	1.0574 ppm	0.1253 ppm	1.8097 ppm
Concentration RSD	1.0 %	0.9 %	0.5 %	0.4 %	1.2 %	1.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5410 ppm	81.1302 %	97.0933 %	81.3082 %	92.9372 %	101.9405 %	93.4677 %
Concentration per Run 1	0.5496 ppm	79.9239 %	97.0034 %	81.3001 %	92.3930 %	102.1883 %	94.0195 %
Concentration per Run 2	0.5385 ppm	81.4540 %	97.8227 %	81.4370 %	93.3272 %	102.6448 %	93.5719 %
Concentration per Run 3	0.5350 ppm	82.0126 %	96.4539 %	81.1875 %	93.0914 %	100.9884 %	92.8118 %
Concentration RSD	1.4 %	1.3 %	0.7 %	0.2 %	0.5 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-4 WG1935242
Analysis started at: 6/17/2024 7:57:20 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0539 ppm	2.0310 ppm	0.1294 ppm	1.0728 ppm	2.0565 ppm	0.0504 ppm	91.2749 ppm
Concentration per Run 1	0.0544 ppm	2.0483 ppm	0.1275 ppm	1.0828 ppm	2.0579 ppm	0.0506 ppm	91.4572 ppm
Concentration per Run 2	0.0546 ppm	2.0197 ppm	0.1283 ppm	1.0703 ppm	2.0625 ppm	0.0504 ppm	91.3897 ppm
Concentration per Run 3	0.0526 ppm	2.0250 ppm	0.1323 ppm	1.0654 ppm	2.0491 ppm	0.0501 ppm	90.9779 ppm
Concentration RSD	2.0 %	0.7 %	2.0 %	0.8 %	0.3 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0548 ppm	0.4967 ppm	0.1994 ppm	0.2630 ppm	1.0974 ppm	21.4198 ppm	0.0164 ppm
Concentration per Run 1	0.0553 ppm	0.5015 ppm	0.2017 ppm	0.2653 ppm	1.1009 ppm	21.4837 ppm	0.0172 ppm
Concentration per Run 2	0.0550 ppm	0.4964 ppm	0.1992 ppm	0.2630 ppm	1.0994 ppm	21.4027 ppm	0.0164 ppm
Concentration per Run 3	0.0542 ppm	0.4922 ppm	0.1972 ppm	0.2605 ppm	1.0920 ppm	21.3730 ppm	0.0156 ppm
Concentration RSD	1.0 %	0.9 %	1.1 %	0.9 %	0.4 %	0.3 %	4.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.6811 ppm	0.6120 ppm	0.9792 ppm	577.4977 ppm	0.5003 ppm	0.5410 ppm	0.4555 ppm
Concentration per Run 1	27.0660 ppm	0.6135 ppm	0.9696 ppm	578.8824 ppm	0.5089 ppm	0.5457 ppm	0.4531 ppm
Concentration per Run 2	26.6789 ppm	0.6121 ppm	0.9785 ppm	579.0501 ppm	0.4970 ppm	0.5409 ppm	0.4561 ppm
Concentration per Run 3	26.2985 ppm	0.6102 ppm	0.9895 ppm	574.5607 ppm	0.4952 ppm	0.5365 ppm	0.4573 ppm
Concentration RSD	1.4 %	0.3 %	1.0 %	0.4 %	1.5 %	0.9 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1275 ppm	9.6406 ppm	0.9142 ppm	1.5998 ppm	1.0647 ppm	0.1255 ppm	1.8194 ppm
Concentration per Run 1	0.1285 ppm	9.7332 ppm	0.9150 ppm	1.6098 ppm	1.0767 ppm	0.1268 ppm	1.8373 ppm
Concentration per Run 2	0.1266 ppm	9.6346 ppm	0.9092 ppm	1.6016 ppm	1.0630 ppm	0.1258 ppm	1.8136 ppm
Concentration per Run 3	0.1274 ppm	9.5539 ppm	0.9185 ppm	1.5881 ppm	1.0545 ppm	0.1240 ppm	1.8073 ppm
Concentration RSD	0.8 %	0.9 %	0.5 %	0.7 %	1.1 %	1.1 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5375 ppm	80.9222 %	97.8283 %	81.3272 %	92.7220 %	102.6528 %	93.0422 %
Concentration per Run 1	0.5453 ppm	80.0866 %	98.0198 %	80.7189 %	92.3959 %	103.1464 %	92.8867 %
Concentration per Run 2	0.5341 ppm	80.9491 %	96.9274 %	81.4940 %	92.7383 %	101.6582 %	93.2507 %
Concentration per Run 3	0.5330 ppm	81.7309 %	98.5378 %	81.7687 %	93.0319 %	103.1537 %	92.9892 %
Concentration RSD	1.3 %	1.0 %	0.8 %	0.7 %	0.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-5 WG1935242
Analysis started at: 6/17/2024 8:01:18 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0533 ppm	2.0391 ppm	0.1284 ppm	1.0690 ppm	2.0502 ppm	0.0500 ppm	90.1747 ppm
Concentration per Run 1	0.0535 ppm	2.0396 ppm	0.1286 ppm	1.0780 ppm	2.0565 ppm	0.0502 ppm	90.2838 ppm
Concentration per Run 2	0.0535 ppm	2.0286 ppm	0.1290 ppm	1.0662 ppm	2.0445 ppm	0.0501 ppm	90.2600 ppm
Concentration per Run 3	0.0531 ppm	2.0493 ppm	0.1276 ppm	1.0629 ppm	2.0496 ppm	0.0497 ppm	89.9801 ppm
Concentration RSD	0.4 %	0.5 %	0.6 %	0.7 %	0.3 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0546 ppm	0.4957 ppm	0.1990 ppm	0.2631 ppm	1.1227 ppm	21.5441 ppm	0.0135 ppm
Concentration per Run 1	0.0550 ppm	0.4997 ppm	0.2011 ppm	0.2656 ppm	1.1289 ppm	21.5660 ppm	0.0143 ppm
Concentration per Run 2	0.0548 ppm	0.4961 ppm	0.1993 ppm	0.2628 ppm	1.1198 ppm	21.3685 ppm	0.0116 ppm
Concentration per Run 3	0.0540 ppm	0.4914 ppm	0.1966 ppm	0.2609 ppm	1.1195 ppm	21.6979 ppm	0.0147 ppm
Concentration RSD	0.9 %	0.8 %	1.1 %	0.9 %	0.5 %	0.8 %	12.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.3911 ppm	0.6096 ppm	0.9744 ppm	568.2422 ppm	0.5002 ppm	0.5414 ppm	0.4645 ppm
Concentration per Run 1	26.6475 ppm	0.6110 ppm	0.9640 ppm	569.4669 ppm	0.5047 ppm	0.5446 ppm	0.4645 ppm
Concentration per Run 2	26.4168 ppm	0.6081 ppm	0.9761 ppm	570.1997 ppm	0.4998 ppm	0.5426 ppm	0.4653 ppm
Concentration per Run 3	26.1090 ppm	0.6096 ppm	0.9831 ppm	565.0599 ppm	0.4962 ppm	0.5371 ppm	0.4636 ppm
Concentration RSD	1.0 %	0.2 %	1.0 %	0.5 %	0.9 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1293 ppm	9.4788 ppm	0.9148 ppm	1.5787 ppm	1.0620 ppm	0.1253 ppm	1.7889 ppm
Concentration per Run 1	0.1285 ppm	9.5346 ppm	0.9075 ppm	1.5850 ppm	1.0734 ppm	0.1265 ppm	1.8040 ppm
Concentration per Run 2	0.1297 ppm	9.4892 ppm	0.9170 ppm	1.5794 ppm	1.0616 ppm	0.1258 ppm	1.7866 ppm
Concentration per Run 3	0.1296 ppm	9.4127 ppm	0.9199 ppm	1.5716 ppm	1.0510 ppm	0.1235 ppm	1.7762 ppm
Concentration RSD	0.5 %	0.7 %	0.7 %	0.4 %	1.1 %	1.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5367 ppm	80.8212 %	97.7887 %	81.5786 %	92.8240 %	103.0767 %	93.3134 %
Concentration per Run 1	0.5396 ppm	80.4774 %	97.8696 %	81.1656 %	93.1034 %	103.5676 %	93.4708 %
Concentration per Run 2	0.5380 ppm	80.8005 %	97.9459 %	81.7387 %	92.8295 %	103.4185 %	93.4775 %
Concentration per Run 3	0.5326 ppm	81.1856 %	97.5504 %	81.8314 %	92.5391 %	102.2440 %	92.9918 %
Concentration RSD	0.7 %	0.4 %	0.2 %	0.4 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-5 WG1935242
Analysis started at: 6/17/2024 8:05:16 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0533 ppm	2.0421 ppm	0.1285 ppm	1.0734 ppm	2.0525 ppm	0.0503 ppm	90.2016 ppm
Concentration per Run 1	0.0531 ppm	2.0422 ppm	0.1278 ppm	1.0778 ppm	2.0556 ppm	0.0504 ppm	90.2588 ppm
Concentration per Run 2	0.0539 ppm	2.0495 ppm	0.1299 ppm	1.0801 ppm	2.0516 ppm	0.0503 ppm	90.2264 ppm
Concentration per Run 3	0.0531 ppm	2.0347 ppm	0.1278 ppm	1.0624 ppm	2.0501 ppm	0.0502 ppm	90.1195 ppm
Concentration RSD	0.9 %	0.4 %	1.0 %	0.9 %	0.1 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0549 ppm	0.4957 ppm	0.1987 ppm	0.2629 ppm	1.1065 ppm	21.6078 ppm	0.0157 ppm
Concentration per Run 1	0.0552 ppm	0.5012 ppm	0.2006 ppm	0.2677 ppm	1.1067 ppm	21.6929 ppm	0.0172 ppm
Concentration per Run 2	0.0551 ppm	0.4949 ppm	0.1991 ppm	0.2620 ppm	1.1030 ppm	21.4930 ppm	0.0154 ppm
Concentration per Run 3	0.0544 ppm	0.4909 ppm	0.1964 ppm	0.2590 ppm	1.1097 ppm	21.6377 ppm	0.0144 ppm
Concentration RSD	0.8 %	1.0 %	1.1 %	1.7 %	0.3 %	0.5 %	9.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.4247 ppm	0.6110 ppm	0.9757 ppm	567.8029 ppm	0.5011 ppm	0.5436 ppm	0.4672 ppm
Concentration per Run 1	26.7298 ppm	0.6112 ppm	0.9637 ppm	568.1395 ppm	0.5049 ppm	0.5462 ppm	0.4668 ppm
Concentration per Run 2	26.3459 ppm	0.6107 ppm	0.9780 ppm	568.4672 ppm	0.5025 ppm	0.5421 ppm	0.4660 ppm
Concentration per Run 3	26.1983 ppm	0.6113 ppm	0.9855 ppm	566.8021 ppm	0.4959 ppm	0.5424 ppm	0.4688 ppm
Concentration RSD	1.0 %	0.1 %	1.1 %	0.2 %	0.9 %	0.4 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1311 ppm	9.5131 ppm	0.9127 ppm	1.5815 ppm	1.0640 ppm	0.1243 ppm	1.7944 ppm
Concentration per Run 1	0.1320 ppm	9.5878 ppm	0.9023 ppm	1.5856 ppm	1.0708 ppm	0.1249 ppm	1.8089 ppm
Concentration per Run 2	0.1300 ppm	9.5367 ppm	0.9154 ppm	1.5819 ppm	1.0658 ppm	0.1237 ppm	1.7942 ppm
Concentration per Run 3	0.1313 ppm	9.4148 ppm	0.9203 ppm	1.5771 ppm	1.0555 ppm	0.1243 ppm	1.7801 ppm
Concentration RSD	0.8 %	0.9 %	1.0 %	0.3 %	0.7 %	0.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5367 ppm	81.2843 %	98.1952 %	81.2318 %	93.3453 %	103.2698 %	93.3006 %
Concentration per Run 1	0.5414 ppm	80.3724 %	98.1958 %	81.2419 %	93.3207 %	103.6758 %	93.6868 %
Concentration per Run 2	0.5367 ppm	81.7501 %	98.4808 %	81.1540 %	93.7247 %	103.4270 %	93.1130 %
Concentration per Run 3	0.5320 ppm	81.7304 %	97.9090 %	81.2995 %	92.9904 %	102.7065 %	93.1021 %
Concentration RSD	0.9 %	1.0 %	0.3 %	0.1 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-6d5 WG1935242
Analysis started at: 6/17/2024 8:09:14 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0198 ppm	0.0016 ppm	0.0094 ppm	0.0279 ppm	0.0000 ppm	16.5847 ppm
Concentration per Run 1	0.0001 ppm	0.0261 ppm	0.0035 ppm	0.0086 ppm	0.0278 ppm	0.0000 ppm	16.5869 ppm
Concentration per Run 2	0.0001 ppm	0.0209 ppm	0.0004 ppm	0.0086 ppm	0.0282 ppm	0.0000 ppm	16.5936 ppm
Concentration per Run 3	0.0000 ppm	0.0125 ppm	0.0008 ppm	0.0110 ppm	0.0279 ppm	0.0000 ppm	16.5736 ppm
Concentration RSD	163.2 %	34.5 %	108.7 %	14.8 %	0.8 %	46.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0289 ppm	2.2662 ppm	0.0036 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0010 ppm	0.0285 ppm	2.2831 ppm	0.0042 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0011 ppm	0.0310 ppm	2.2580 ppm	0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0016 ppm	0.0271 ppm	2.2575 ppm	0.0040 ppm
Concentration RSD	135.3 %	8.6 %	326.4 %	28.4 %	7.0 %	0.6 %	24.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.4126 ppm	0.0265 ppm	0.0068 ppm	125.3519 ppm	-0.0004 ppm	-0.0002 ppm	0.0012 ppm
Concentration per Run 1	3.4480 ppm	0.0267 ppm	0.0074 ppm	125.4011 ppm	-0.0001 ppm	0.0004 ppm	0.0035 ppm
Concentration per Run 2	3.4132 ppm	0.0264 ppm	0.0067 ppm	125.3506 ppm	-0.0007 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 3	3.3765 ppm	0.0264 ppm	0.0063 ppm	125.3039 ppm	-0.0004 ppm	-0.0005 ppm	-0.0004 ppm
Concentration RSD	1.0 %	0.6 %	7.6 %	0.0 %	78.0 %	256.1 %	168.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	1.6134 ppm	0.0047 ppm	0.1278 ppm	-0.0003 ppm	0.0012 ppm	0.2587 ppm
Concentration per Run 1	-0.0002 ppm	1.6172 ppm	0.0042 ppm	0.1280 ppm	-0.0001 ppm	0.0013 ppm	0.2609 ppm
Concentration per Run 2	-0.0008 ppm	1.6201 ppm	0.0044 ppm	0.1275 ppm	-0.0002 ppm	0.0007 ppm	0.2592 ppm
Concentration per Run 3	-0.0012 ppm	1.6030 ppm	0.0055 ppm	0.1280 ppm	-0.0005 ppm	0.0017 ppm	0.2560 ppm
Concentration RSD	73.6 %	0.6 %	15.4 %	0.2 %	81.3 %	44.1 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	84.1412 %	98.7769 %	87.2762 %	97.4208 %	104.7242 %	97.0549 %
Concentration per Run 1	0.0052 ppm	83.0562 %	98.8483 %	86.6049 %	96.8620 %	104.9691 %	96.8096 %
Concentration per Run 2	0.0050 ppm	84.3552 %	98.4723 %	87.6433 %	97.7406 %	104.3943 %	97.2863 %
Concentration per Run 3	0.0047 ppm	85.0123 %	99.0102 %	87.5805 %	97.6597 %	104.8093 %	97.0689 %
Concentration RSD	5.6 %	1.2 %	0.3 %	0.7 %	0.5 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935242-7 WG1935242
Analysis started at: 6/17/2024 8:13:13 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0462 ppm	1.7853 ppm	0.1125 ppm	0.9341 ppm	1.8024 ppm	0.0435 ppm	88.8135 ppm
Concentration per Run 1	0.0463 ppm	1.7862 ppm	0.1124 ppm	0.9443 ppm	1.8150 ppm	0.0438 ppm	88.8522 ppm
Concentration per Run 2	0.0459 ppm	1.7934 ppm	0.1119 ppm	0.9325 ppm	1.7874 ppm	0.0434 ppm	88.8906 ppm
Concentration per Run 3	0.0463 ppm	1.7762 ppm	0.1131 ppm	0.9256 ppm	1.8047 ppm	0.0433 ppm	88.6978 ppm
Concentration RSD	0.5 %	0.5 %	0.6 %	1.0 %	0.8 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0476 ppm	0.4320 ppm	0.1722 ppm	0.2286 ppm	0.9701 ppm	20.2577 ppm	0.0145 ppm
Concentration per Run 1	0.0481 ppm	0.4374 ppm	0.1738 ppm	0.2318 ppm	0.9709 ppm	20.3754 ppm	0.0163 ppm
Concentration per Run 2	0.0475 ppm	0.4311 ppm	0.1727 ppm	0.2277 ppm	0.9646 ppm	20.1866 ppm	0.0144 ppm
Concentration per Run 3	0.0472 ppm	0.4274 ppm	0.1700 ppm	0.2263 ppm	0.9748 ppm	20.2112 ppm	0.0129 ppm
Concentration RSD	0.9 %	1.2 %	1.1 %	1.3 %	0.5 %	0.5 %	11.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.1234 ppm	0.5473 ppm	0.8399 ppm	567.8388 ppm	0.4351 ppm	0.4705 ppm	0.3293 ppm
Concentration per Run 1	25.3689 ppm	0.5494 ppm	0.8336 ppm	567.9166 ppm	0.4388 ppm	0.4726 ppm	0.3293 ppm
Concentration per Run 2	25.0772 ppm	0.5469 ppm	0.8386 ppm	568.6611 ppm	0.4363 ppm	0.4711 ppm	0.3285 ppm
Concentration per Run 3	24.9241 ppm	0.5457 ppm	0.8474 ppm	566.9387 ppm	0.4303 ppm	0.4679 ppm	0.3301 ppm
Concentration RSD	0.9 %	0.3 %	0.8 %	0.2 %	1.0 %	0.5 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1116 ppm	9.2591 ppm	0.7876 ppm	1.4523 ppm	0.9170 ppm	0.1096 ppm	1.7284 ppm
Concentration per Run 1	0.1114 ppm	9.3622 ppm	0.7825 ppm	1.4589 ppm	0.9242 ppm	0.1128 ppm	1.7435 ppm
Concentration per Run 2	0.1128 ppm	9.2571 ppm	0.7880 ppm	1.4442 ppm	0.9165 ppm	0.1072 ppm	1.7202 ppm
Concentration per Run 3	0.1105 ppm	9.1581 ppm	0.7924 ppm	1.4539 ppm	0.9103 ppm	0.1087 ppm	1.7215 ppm
Concentration RSD	1.1 %	1.1 %	0.6 %	0.5 %	0.8 %	2.7 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4693 ppm	80.5998 %	97.2464 %	81.2703 %	93.0905 %	102.7920 %	93.5448 %
Concentration per Run 1	0.4753 ppm	79.7338 %	97.7682 %	80.9604 %	92.9976 %	103.8434 %	93.6893 %
Concentration per Run 2	0.4676 ppm	80.4986 %	96.7356 %	81.5526 %	92.8574 %	102.0367 %	93.8946 %
Concentration per Run 3	0.4650 ppm	81.5668 %	97.2354 %	81.2980 %	93.4166 %	102.4958 %	93.0506 %
Concentration RSD	1.1 %	1.1 %	0.5 %	0.4 %	0.3 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 8:17:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5027 ppm	0.4939 ppm	0.4766 ppm	0.5018 ppm	0.5030 ppm	0.5197 ppm	0.5045 ppm
Concentration per Run 1	0.5011 ppm	0.4910 ppm	0.4743 ppm	0.5009 ppm	0.5035 ppm	0.5195 ppm	0.5024 ppm
Concentration per Run 2	0.5028 ppm	0.5006 ppm	0.4789 ppm	0.5026 ppm	0.5026 ppm	0.5191 ppm	0.5035 ppm
Concentration per Run 3	0.5041 ppm	0.4902 ppm	0.4766 ppm	0.5019 ppm	0.5029 ppm	0.5205 ppm	0.5076 ppm
Recovery Percentage 1	100.534 %	98.785 %	95.327 %	100.358 %	100.604 %	103.942 %	100.893 %
Concentration RSD	0.3 %	1.2 %	0.5 %	0.2 %	0.1 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5096 ppm	0.5170 ppm	0.5031 ppm	0.4971 ppm	0.5160 ppm	5.1261 ppm	0.6180 ppm
Concentration per Run 1	0.5064 ppm	0.5150 ppm	0.5014 ppm	0.4965 ppm	0.5187 ppm	5.1378 ppm	0.6179 ppm
Concentration per Run 2	0.5109 ppm	0.5186 ppm	0.5047 ppm	0.4968 ppm	0.5141 ppm	5.1318 ppm	0.6170 ppm
Concentration per Run 3	0.5116 ppm	0.5174 ppm	0.5032 ppm	0.4980 ppm	0.5153 ppm	5.1086 ppm	0.6191 ppm
Recovery Percentage 1	101.927 %	103.394 %	100.622 %	99.419 %	103.200 %	102.522 %	123.596 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.2 %	0.5 %	0.3 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4984 ppm	0.4976 ppm	0.5141 ppm	10.1474 ppm	0.5179 ppm	0.4997 ppm	0.5254 ppm
Concentration per Run 1	0.4978 ppm	0.4980 ppm	0.5048 ppm	10.1277 ppm	0.5151 ppm	0.4985 ppm	0.5191 ppm
Concentration per Run 2	0.4979 ppm	0.4984 ppm	0.5155 ppm	10.1774 ppm	0.5190 ppm	0.4999 ppm	0.5270 ppm
Concentration per Run 3	0.4994 ppm	0.4963 ppm	0.5221 ppm	10.1371 ppm	0.5196 ppm	0.5008 ppm	0.5300 ppm
Recovery Percentage 1	99.677 %	99.521 %	102.829 %	101.474 %	103.575 %	99.945 %	105.078 %
Concentration RSD	0.2 %	0.2 %	1.7 %	0.3 %	0.5 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4864 ppm	5.6091 ppm	0.4970 ppm	0.4967 ppm	0.5116 ppm	0.4916 ppm	0.5017 ppm
Concentration per Run 1	0.4875 ppm	5.5865 ppm	0.4931 ppm	0.4951 ppm	0.5096 ppm	0.4905 ppm	0.4990 ppm
Concentration per Run 2	0.4833 ppm	5.6068 ppm	0.5004 ppm	0.4968 ppm	0.5128 ppm	0.4891 ppm	0.5040 ppm
Concentration per Run 3	0.4883 ppm	5.6340 ppm	0.4975 ppm	0.4983 ppm	0.5126 ppm	0.4952 ppm	0.5022 ppm
Recovery Percentage 1	97.272 %	106.840 %	99.399 %	99.348 %	102.328 %	98.321 %	100.346 %
Concentration RSD	0.6 %	0.4 %	0.7 %	0.3 %	0.4 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5135 ppm	90.1815 %	101.9155 %	92.0335 %	98.5671 %	105.3699 %	98.6654 %
Concentration per Run 1	0.5096 ppm	90.8783 %	101.8654 %	91.9405 %	99.2316 %	105.0069 %	98.4341 %
Concentration per Run 2	0.5157 ppm	89.6059 %	101.8771 %	92.2203 %	97.8895 %	105.7759 %	99.1684 %
Concentration per Run 3	0.5151 ppm	90.0604 %	102.0040 %	91.9396 %	98.5801 %	105.3269 %	98.3938 %
Recovery Percentage 1	102.695 %						
Concentration RSD	0.7 %	0.7 %	0.1 %	0.2 %	0.7 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 8:21:09 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0019 ppm	-0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 1	0.0003 ppm	-0.0043 ppm	-0.0003 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 2	0.0001 ppm	0.0021 ppm	-0.0009 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 3	0.0002 ppm	-0.0035 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0060 ppm
Recovery Percentage 1	2.385 %	-1.901 %	-9.852 %	2.457 %	2.144 %	0.961 %	6.462 %
Concentration RSD	71.8 %	183.4 %	223.9 %	59.8 %	10.4 %	26.5 %	40.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm	0.0170 ppm	0.0197 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0014 ppm	0.0176 ppm	0.0193 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0010 ppm	0.0176 ppm	0.0200 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0159 ppm	0.0197 ppm	0.0009 ppm
Recovery Percentage 1	0.854 %	1.081 %	-0.226 %	10.856 %	33.992 %	0.788 %	1.377 %
Concentration RSD	75.1 %	104.2 %	1,403.5 %	25.8 %	5.7 %	1.7 %	925.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	0.0002 ppm	0.0030 ppm	0.1166 ppm	-0.0004 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0031 ppm	0.1293 ppm	0.0002 ppm	-0.0007 ppm	0.0008 ppm
Concentration per Run 2	0.0010 ppm	0.0001 ppm	0.0026 ppm	0.1175 ppm	-0.0008 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0033 ppm	0.1030 ppm	-0.0007 ppm	0.0013 ppm	0.0006 ppm
Recovery Percentage 1	0.271 %	2.062 %	5.972 %	5.831 %	-1.786 %	6.157 %	0.947 %
Concentration RSD	232.8 %	79.7 %	12.9 %	11.3 %	126.4 %	182.4 %	85.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0063 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 1	0.0013 ppm	-0.0060 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0005 ppm
Concentration per Run 2	-0.0022 ppm	-0.0054 ppm	-0.0002 ppm	-0.0002 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	-0.0075 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	-2.141 %	-1.264 %	1.469 %	-0.254 %	-0.738 %	-3.466 %	-2.494 %
Concentration RSD	845.5 %	16.7 %	123.0 %	781.8 %	72.1 %	23.6 %	93.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	83.3342 %	97.0059 %	88.4856 %	99.3536 %	105.8147 %	100.0482 %
Concentration per Run 1	0.0011 ppm	82.7807 %	96.5115 %	87.9082 %	99.2855 %	105.5449 %	99.6987 %
Concentration per Run 2	0.0005 ppm	83.5603 %	97.2764 %	88.1100 %	99.8421 %	106.2727 %	99.9109 %
Concentration per Run 3	0.0008 ppm	83.6614 %	97.2297 %	89.4386 %	98.9332 %	105.6265 %	100.5349 %
Recovery Percentage 1	16.347 %						
Concentration RSD	32.9 %	0.6 %	0.4 %	0.9 %	0.5 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432556-01 WG1935242
Analysis started at: 6/17/2024 8:25:38 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0045 ppm	-0.0005 ppm	0.0266 ppm	0.0296 ppm	0.0000 ppm	13.8133 ppm
Concentration per Run 1	0.0000 ppm	-0.0078 ppm	-0.0013 ppm	0.0257 ppm	0.0297 ppm	0.0000 ppm	13.8665 ppm
Concentration per Run 2	0.0002 ppm	0.0027 ppm	0.0004 ppm	0.0269 ppm	0.0295 ppm	0.0000 ppm	13.8246 ppm
Concentration per Run 3	-0.0001 ppm	-0.0085 ppm	-0.0007 ppm	0.0271 ppm	0.0294 ppm	0.0000 ppm	13.7487 ppm
Concentration RSD	327.7 %	138.9 %	168.3 %	2.7 %	0.6 %	181.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0050 ppm	0.0002 ppm	0.0025 ppm	0.4412 ppm	1.1928 ppm	0.0059 ppm
Concentration per Run 1	0.0012 ppm	0.0047 ppm	0.0006 ppm	0.0024 ppm	0.4421 ppm	1.1894 ppm	0.0059 ppm
Concentration per Run 2	0.0012 ppm	0.0055 ppm	0.0004 ppm	0.0025 ppm	0.4426 ppm	1.1999 ppm	0.0053 ppm
Concentration per Run 3	0.0013 ppm	0.0046 ppm	-0.0004 ppm	0.0026 ppm	0.4389 ppm	1.1890 ppm	0.0065 ppm
Concentration RSD	2.7 %	10.5 %	300.1 %	3.6 %	0.5 %	0.5 %	10.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2349 ppm	0.6552 ppm	0.0010 ppm	60.3003 ppm	0.2113 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 1	4.3012 ppm	0.6560 ppm	0.0011 ppm	60.2227 ppm	0.2138 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	4.2115 ppm	0.6560 ppm	0.0010 ppm	60.4582 ppm	0.2109 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 3	4.1918 ppm	0.6536 ppm	0.0008 ppm	60.2199 ppm	0.2093 ppm	-0.0004 ppm	-0.0011 ppm
Concentration RSD	1.4 %	0.2 %	16.5 %	0.2 %	1.1 %	171.6 %	1,099.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	9.0962 ppm	-0.0005 ppm	0.1102 ppm	-0.0001 ppm	-0.0012 ppm	-0.0004 ppm
Concentration per Run 1	-0.0037 ppm	9.1734 ppm	-0.0014 ppm	0.1099 ppm	0.0000 ppm	-0.0018 ppm	-0.0003 ppm
Concentration per Run 2	-0.0003 ppm	9.0961 ppm	0.0002 ppm	0.1104 ppm	-0.0004 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 3	-0.0040 ppm	9.0192 ppm	-0.0003 ppm	0.1103 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm
Concentration RSD	75.8 %	0.8 %	165.1 %	0.2 %	241.1 %	65.6 %	13.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0089 ppm	83.9487 %	99.1915 %	88.3696 %	99.1235 %	106.8240 %	99.6910 %
Concentration per Run 1	0.0091 ppm	82.4759 %	99.3311 %	87.6861 %	98.2871 %	107.0063 %	99.6221 %
Concentration per Run 2	0.0086 ppm	84.6030 %	98.9475 %	88.5937 %	100.1147 %	106.5375 %	99.6857 %
Concentration per Run 3	0.0089 ppm	84.7673 %	99.2959 %	88.8291 %	98.9688 %	106.9282 %	99.7654 %
Concentration RSD	2.5 %	1.5 %	0.2 %	0.7 %	0.9 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432556-02 WG1935242
Analysis started at: 6/17/2024 8:29:37 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0042 ppm	0.0027 ppm	0.0522 ppm	0.0197 ppm	0.0001 ppm	32.1427 ppm
Concentration per Run 1	0.0001 ppm	-0.0141 ppm	0.0036 ppm	0.0522 ppm	0.0195 ppm	0.0001 ppm	32.1166 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0029 ppm	0.0517 ppm	0.0194 ppm	0.0001 ppm	32.1836 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0014 ppm	0.0528 ppm	0.0200 ppm	0.0000 ppm	32.1278 ppm
Concentration RSD	536.5 %	207.5 %	42.1 %	1.0 %	1.6 %	16.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	-0.0002 ppm	0.0017 ppm	6.6807 ppm	1.3974 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0018 ppm	6.6865 ppm	1.4233 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0001 ppm	0.0017 ppm	6.6537 ppm	1.3759 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0014 ppm	6.7018 ppm	1.3930 ppm	0.0018 ppm
Concentration RSD	197.7 %	47.0 %	82.8 %	13.1 %	0.4 %	1.7 %	59.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.7535 ppm	0.6577 ppm	0.0006 ppm	29.6953 ppm	0.0271 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 1	2.7945 ppm	0.6583 ppm	0.0004 ppm	29.6917 ppm	0.0283 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 2	2.7451 ppm	0.6562 ppm	0.0009 ppm	29.7034 ppm	0.0263 ppm	0.0018 ppm	0.0008 ppm
Concentration per Run 3	2.7209 ppm	0.6585 ppm	0.0006 ppm	29.6908 ppm	0.0267 ppm	-0.0006 ppm	-0.0030 ppm
Concentration RSD	1.4 %	0.2 %	40.8 %	0.0 %	3.8 %	174.6 %	397.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	8.2414 ppm	-0.0005 ppm	0.0773 ppm	-0.0006 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0024 ppm	8.3195 ppm	-0.0006 ppm	0.0778 ppm	-0.0004 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 2	-0.0040 ppm	8.2413 ppm	-0.0007 ppm	0.0769 ppm	-0.0009 ppm	-0.0020 ppm	-0.0002 ppm
Concentration per Run 3	-0.0030 ppm	8.1635 ppm	-0.0001 ppm	0.0773 ppm	-0.0004 ppm	0.0004 ppm	-0.0001 ppm
Concentration RSD	25.9 %	0.9 %	71.6 %	0.6 %	48.0 %	241.1 %	573.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0027 ppm	84.8245 %	100.2312 %	89.0255 %	99.9906 %	107.4660 %	99.8436 %
Concentration per Run 1	0.0028 ppm	83.9677 %	100.8888 %	88.9209 %	99.6607 %	108.4637 %	100.1644 %
Concentration per Run 2	0.0027 ppm	84.6807 %	100.3354 %	88.8616 %	100.0913 %	107.3082 %	99.8998 %
Concentration per Run 3	0.0024 ppm	85.8249 %	99.4693 %	89.2940 %	100.2198 %	106.6261 %	99.4664 %
Concentration RSD	7.0 %	1.1 %	0.7 %	0.3 %	0.3 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432587-01 WG1935242
Analysis started at: 6/17/2024 8:33:36 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0074 ppm	0.0000 ppm	0.0763 ppm	0.0415 ppm	0.0000 ppm	42.6034 ppm
Concentration per Run 1	0.0006 ppm	0.0057 ppm	-0.0006 ppm	0.0758 ppm	0.0415 ppm	0.0000 ppm	42.6492 ppm
Concentration per Run 2	0.0002 ppm	0.0021 ppm	-0.0001 ppm	0.0760 ppm	0.0415 ppm	0.0000 ppm	42.6307 ppm
Concentration per Run 3	-0.0002 ppm	0.0143 ppm	0.0007 ppm	0.0769 ppm	0.0413 ppm	0.0000 ppm	42.5304 ppm
Concentration RSD	170.8 %	85.2 %	2,843.7 %	0.8 %	0.3 %	210.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0032 ppm	0.0001 ppm	0.0052 ppm	0.0505 ppm	5.4861 ppm	0.0081 ppm
Concentration per Run 1	0.0005 ppm	0.0030 ppm	0.0003 ppm	0.0051 ppm	0.0514 ppm	5.5026 ppm	0.0089 ppm
Concentration per Run 2	0.0004 ppm	0.0034 ppm	-0.0005 ppm	0.0058 ppm	0.0481 ppm	5.4790 ppm	0.0084 ppm
Concentration per Run 3	0.0002 ppm	0.0033 ppm	0.0003 ppm	0.0049 ppm	0.0521 ppm	5.4768 ppm	0.0068 ppm
Concentration RSD	37.7 %	8.0 %	845.4 %	8.8 %	4.3 %	0.3 %	13.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.1488 ppm	0.1969 ppm	0.0013 ppm	291.3174 ppm	0.0012 ppm	0.0010 ppm	-0.0018 ppm
Concentration per Run 1	4.2074 ppm	0.1975 ppm	0.0016 ppm	291.5632 ppm	0.0008 ppm	0.0003 ppm	-0.0016 ppm
Concentration per Run 2	4.1392 ppm	0.1971 ppm	0.0010 ppm	291.6770 ppm	0.0019 ppm	0.0018 ppm	-0.0011 ppm
Concentration per Run 3	4.0996 ppm	0.1960 ppm	0.0013 ppm	290.7119 ppm	0.0008 ppm	0.0009 ppm	-0.0028 ppm
Concentration RSD	1.3 %	0.4 %	23.2 %	0.2 %	52.9 %	78.9 %	48.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	10.3973 ppm	-0.0002 ppm	0.2112 ppm	-0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	-0.0016 ppm	10.5248 ppm	-0.0004 ppm	0.2114 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0030 ppm	10.3828 ppm	-0.0006 ppm	0.2110 ppm	0.0002 ppm	-0.0010 ppm	0.0011 ppm
Concentration per Run 3	-0.0039 ppm	10.2844 ppm	0.0003 ppm	0.2112 ppm	-0.0004 ppm	0.0029 ppm	0.0003 ppm
Concentration RSD	41.1 %	1.2 %	227.5 %	0.1 %	169.4 %	377.5 %	96.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1041 ppm	82.1632 %	98.2015 %	84.4098 %	94.6468 %	103.8905 %	94.9969 %
Concentration per Run 1	0.1060 ppm	81.1336 %	97.5610 %	83.7041 %	94.3476 %	103.7278 %	94.7327 %
Concentration per Run 2	0.1039 ppm	82.4029 %	97.8268 %	84.7937 %	94.8760 %	103.1506 %	95.4773 %
Concentration per Run 3	0.1024 ppm	82.9532 %	99.2167 %	84.7314 %	94.7168 %	104.7931 %	94.7808 %
Concentration RSD	1.7 %	1.1 %	0.9 %	0.7 %	0.3 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-02 WG1935242
Analysis started at: 6/17/2024 8:37:36 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0069 ppm	0.0014 ppm	0.0354 ppm	0.1700 ppm	0.0000 ppm	83.8514 ppm
Concentration per Run 1	-0.0001 ppm	0.0098 ppm	0.0012 ppm	0.0353 ppm	0.1704 ppm	0.0000 ppm	83.9743 ppm
Concentration per Run 2	-0.0002 ppm	0.0104 ppm	0.0021 ppm	0.0353 ppm	0.1703 ppm	0.0000 ppm	84.0046 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0010 ppm	0.0355 ppm	0.1693 ppm	0.0001 ppm	83.5752 ppm
Concentration RSD	68.9 %	81.4 %	39.7 %	0.4 %	0.4 %	109.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0038 ppm	-0.0005 ppm	0.0016 ppm	11.2225 ppm	11.2738 ppm	0.0049 ppm
Concentration per Run 1	0.0000 ppm	0.0038 ppm	-0.0008 ppm	0.0019 ppm	11.2815 ppm	11.3398 ppm	0.0068 ppm
Concentration per Run 2	0.0001 ppm	0.0038 ppm	-0.0001 ppm	0.0012 ppm	11.2123 ppm	11.3131 ppm	0.0033 ppm
Concentration per Run 3	-0.0001 ppm	0.0037 ppm	-0.0006 ppm	0.0017 ppm	11.1738 ppm	11.1684 ppm	0.0047 ppm
Concentration RSD	278.1 %	0.6 %	69.8 %	22.6 %	0.5 %	0.8 %	35.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3874 ppm	3.5621 ppm	0.0032 ppm	552.7540 ppm	0.0023 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 1	15.5894 ppm	3.5660 ppm	0.0036 ppm	553.7670 ppm	0.0013 ppm	-0.0004 ppm	-0.0033 ppm
Concentration per Run 2	15.3761 ppm	3.5660 ppm	0.0031 ppm	553.9464 ppm	0.0029 ppm	0.0007 ppm	0.0031 ppm
Concentration per Run 3	15.1967 ppm	3.5543 ppm	0.0031 ppm	550.5485 ppm	0.0028 ppm	0.0010 ppm	-0.0016 ppm
Concentration RSD	1.3 %	0.2 %	8.5 %	0.3 %	37.4 %	171.1 %	547.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0037 ppm	6.8163 ppm	-0.0008 ppm	0.6002 ppm	-0.0004 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 1	-0.0036 ppm	6.8874 ppm	-0.0007 ppm	0.6034 ppm	-0.0008 ppm	-0.0013 ppm	0.0033 ppm
Concentration per Run 2	-0.0031 ppm	6.8361 ppm	-0.0004 ppm	0.5979 ppm	-0.0002 ppm	0.0015 ppm	0.0031 ppm
Concentration per Run 3	-0.0043 ppm	6.7253 ppm	-0.0015 ppm	0.5994 ppm	-0.0002 ppm	0.0000 ppm	0.0033 ppm
Concentration RSD	15.9 %	1.2 %	65.9 %	0.5 %	90.5 %	2,363.1 %	4.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0238 ppm	80.9274 %	97.6447 %	82.8565 %	93.1567 %	103.1516 %	94.1889 %
Concentration per Run 1	0.0242 ppm	80.1864 %	97.9740 %	82.4272 %	93.5761 %	103.5186 %	94.1046 %
Concentration per Run 2	0.0239 ppm	80.8389 %	97.4722 %	82.5330 %	93.1297 %	103.2209 %	93.9028 %
Concentration per Run 3	0.0233 ppm	81.7568 %	97.4880 %	83.6091 %	92.7644 %	102.7153 %	94.5593 %
Concentration RSD	1.8 %	1.0 %	0.3 %	0.8 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-03 WG1935242
Analysis started at: 6/17/2024 8:41:35 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0109 ppm	0.0009 ppm	0.0343 ppm	0.1321 ppm	0.0000 ppm	69.3392 ppm
Concentration per Run 1	0.0000 ppm	0.0118 ppm	0.0008 ppm	0.0359 ppm	0.1327 ppm	0.0000 ppm	69.5036 ppm
Concentration per Run 2	-0.0002 ppm	0.0089 ppm	0.0015 ppm	0.0322 ppm	0.1316 ppm	0.0000 ppm	69.5123 ppm
Concentration per Run 3	-0.0001 ppm	0.0118 ppm	0.0003 ppm	0.0348 ppm	0.1320 ppm	0.0000 ppm	69.0018 ppm
Concentration RSD	82.0 %	15.3 %	69.5 %	5.5 %	0.4 %	85.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0018 ppm	-0.0005 ppm	0.0014 ppm	20.3174 ppm	6.1605 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0018 ppm	-0.0006 ppm	0.0015 ppm	20.3827 ppm	6.1943 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0018 ppm	-0.0004 ppm	0.0013 ppm	20.3583 ppm	6.1860 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0020 ppm	-0.0006 ppm	0.0014 ppm	20.2113 ppm	6.1013 ppm	0.0002 ppm
Concentration RSD	45.5 %	5.7 %	19.2 %	8.4 %	0.5 %	0.8 %	100.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.0986 ppm	4.2395 ppm	0.0019 ppm	320.4139 ppm	0.0008 ppm	0.0014 ppm	-0.0008 ppm
Concentration per Run 1	24.4501 ppm	4.2502 ppm	0.0018 ppm	321.1022 ppm	0.0009 ppm	0.0018 ppm	-0.0017 ppm
Concentration per Run 2	24.0859 ppm	4.2433 ppm	0.0022 ppm	320.6166 ppm	0.0010 ppm	0.0021 ppm	-0.0013 ppm
Concentration per Run 3	23.7597 ppm	4.2249 ppm	0.0017 ppm	319.5228 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm
Concentration RSD	1.4 %	0.3 %	14.6 %	0.3 %	33.4 %	79.5 %	173.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	9.2290 ppm	-0.0005 ppm	0.5067 ppm	0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	9.3253 ppm	-0.0002 ppm	0.5091 ppm	0.0004 ppm	-0.0010 ppm	-0.0004 ppm
Concentration per Run 2	-0.0030 ppm	9.1899 ppm	-0.0003 ppm	0.5062 ppm	0.0001 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	-0.0015 ppm	9.1719 ppm	-0.0011 ppm	0.5049 ppm	0.0000 ppm	-0.0007 ppm	-0.0002 ppm
Concentration RSD	120.9 %	0.9 %	91.9 %	0.4 %	136.5 %	34.7 %	552.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0082 ppm	82.6860 %	99.6811 %	84.6134 %	95.1528 %	105.0187 %	95.2833 %
Concentration per Run 1	0.0083 ppm	81.6150 %	99.3267 %	83.7361 %	94.9344 %	104.9049 %	94.9735 %
Concentration per Run 2	0.0080 ppm	82.7680 %	99.4646 %	84.9803 %	95.2617 %	104.8684 %	95.5559 %
Concentration per Run 3	0.0082 ppm	83.6750 %	100.2521 %	85.1236 %	95.2623 %	105.2827 %	95.3205 %
Concentration RSD	2.2 %	1.2 %	0.5 %	0.9 %	0.2 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-09 WG1935242
Analysis started at: 6/17/2024 8:45:34 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0016 ppm	0.0018 ppm	0.0293 ppm	0.2265 ppm	0.0001 ppm	93.5639 ppm
Concentration per Run 1	0.0002 ppm	0.0104 ppm	0.0007 ppm	0.0302 ppm	0.2264 ppm	0.0001 ppm	93.9050 ppm
Concentration per Run 2	-0.0002 ppm	-0.0117 ppm	0.0017 ppm	0.0281 ppm	0.2277 ppm	0.0001 ppm	93.2557 ppm
Concentration per Run 3	-0.0001 ppm	0.0062 ppm	0.0031 ppm	0.0294 ppm	0.2252 ppm	0.0001 ppm	93.5309 ppm
Concentration RSD	516.9 %	712.4 %	63.9 %	3.6 %	0.5 %	9.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0113 ppm	-0.0007 ppm	0.0010 ppm	7.4086 ppm	9.6391 ppm	0.0150 ppm
Concentration per Run 1	0.0000 ppm	0.0118 ppm	-0.0012 ppm	0.0008 ppm	7.4336 ppm	9.6542 ppm	0.0167 ppm
Concentration per Run 2	-0.0001 ppm	0.0114 ppm	-0.0005 ppm	0.0009 ppm	7.4055 ppm	9.5487 ppm	0.0153 ppm
Concentration per Run 3	0.0000 ppm	0.0105 ppm	-0.0003 ppm	0.0011 ppm	7.3867 ppm	9.7144 ppm	0.0131 ppm
Concentration RSD	286.2 %	5.8 %	72.9 %	16.8 %	0.3 %	0.9 %	12.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.7358 ppm	11.5942 ppm	0.0027 ppm	388.3319 ppm	0.0011 ppm	0.0004 ppm	-0.0027 ppm
Concentration per Run 1	38.2050 ppm	11.6153 ppm	0.0029 ppm	389.5306 ppm	0.0008 ppm	-0.0003 ppm	-0.0040 ppm
Concentration per Run 2	37.6875 ppm	11.5823 ppm	0.0027 ppm	387.9743 ppm	0.0007 ppm	0.0013 ppm	-0.0009 ppm
Concentration per Run 3	37.3148 ppm	11.5849 ppm	0.0024 ppm	387.4909 ppm	0.0017 ppm	0.0002 ppm	-0.0032 ppm
Concentration RSD	1.2 %	0.2 %	8.9 %	0.3 %	51.3 %	190.8 %	58.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0035 ppm	11.3838 ppm	-0.0005 ppm	0.6364 ppm	-0.0005 ppm	-0.0028 ppm	-0.0007 ppm
Concentration per Run 1	-0.0064 ppm	11.4811 ppm	-0.0010 ppm	0.6406 ppm	-0.0006 ppm	-0.0061 ppm	-0.0010 ppm
Concentration per Run 2	-0.0029 ppm	11.4012 ppm	-0.0008 ppm	0.6373 ppm	-0.0002 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0014 ppm	11.2690 ppm	0.0004 ppm	0.6314 ppm	-0.0008 ppm	-0.0024 ppm	-0.0005 ppm
Concentration RSD	72.2 %	0.9 %	169.1 %	0.7 %	63.3 %	109.3 %	34.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0379 ppm	80.9159 %	97.1238 %	82.4436 %	94.2192 %	103.1973 %	94.3275 %
Concentration per Run 1	0.0386 ppm	79.8860 %	97.1790 %	81.5488 %	93.9860 %	103.9538 %	93.8381 %
Concentration per Run 2	0.0380 ppm	81.1285 %	96.6751 %	82.5908 %	94.4467 %	102.5057 %	94.5152 %
Concentration per Run 3	0.0370 ppm	81.7333 %	97.5173 %	83.1914 %	94.2248 %	103.1322 %	94.6291 %
Concentration RSD	2.2 %	1.2 %	0.4 %	1.0 %	0.2 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-11 WG1935242
Analysis started at: 6/17/2024 8:49:33 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0069 ppm	0.0014 ppm	0.0339 ppm	0.1353 ppm	0.0001 ppm	62.3161 ppm
Concentration per Run 1	0.0002 ppm	0.0053 ppm	0.0023 ppm	0.0345 ppm	0.1358 ppm	0.0001 ppm	62.3113 ppm
Concentration per Run 2	0.0000 ppm	0.0142 ppm	0.0009 ppm	0.0347 ppm	0.1354 ppm	0.0000 ppm	62.3239 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0011 ppm	0.0325 ppm	0.1348 ppm	0.0001 ppm	62.3130 ppm
Concentration RSD	152.8 %	96.4 %	55.2 %	3.5 %	0.4 %	53.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0020 ppm	0.0000 ppm	0.0012 ppm	13.8977 ppm	6.2992 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0020 ppm	-0.0003 ppm	0.0012 ppm	13.9006 ppm	6.4084 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0023 ppm	0.0002 ppm	0.0016 ppm	13.9446 ppm	6.2540 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0002 ppm	0.0008 ppm	13.8479 ppm	6.2354 ppm	0.0020 ppm
Concentration RSD	126.8 %	17.2 %	4,303.4 %	31.4 %	0.3 %	1.5 %	44.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.9088 ppm	4.2257 ppm	0.0018 ppm	343.5859 ppm	-0.0001 ppm	0.0003 ppm	-0.0033 ppm
Concentration per Run 1	20.1257 ppm	4.2256 ppm	0.0013 ppm	342.7555 ppm	-0.0004 ppm	0.0003 ppm	-0.0046 ppm
Concentration per Run 2	19.8841 ppm	4.2245 ppm	0.0024 ppm	344.3370 ppm	0.0004 ppm	0.0004 ppm	-0.0058 ppm
Concentration per Run 3	19.7165 ppm	4.2271 ppm	0.0018 ppm	343.6652 ppm	-0.0005 ppm	0.0001 ppm	0.0006 ppm
Concentration RSD	1.0 %	0.0 %	29.8 %	0.2 %	392.4 %	52.1 %	102.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	8.2389 ppm	-0.0007 ppm	0.4399 ppm	-0.0001 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	8.3050 ppm	-0.0004 ppm	0.4401 ppm	-0.0005 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	-0.0030 ppm	8.2199 ppm	-0.0015 ppm	0.4401 ppm	0.0001 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 3	-0.0046 ppm	8.1916 ppm	-0.0004 ppm	0.4394 ppm	0.0001 ppm	-0.0029 ppm	-0.0003 ppm
Concentration RSD	72.6 %	0.7 %	81.9 %	0.1 %	371.8 %	41.9 %	201.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	82.4065 %	98.6731 %	84.2431 %	95.1309 %	104.4095 %	95.2301 %
Concentration per Run 1	0.0010 ppm	81.5903 %	99.6605 %	83.8974 %	95.1927 %	105.5857 %	95.2347 %
Concentration per Run 2	0.0014 ppm	82.6637 %	98.9497 %	83.8805 %	95.2658 %	104.8800 %	94.8821 %
Concentration per Run 3	0.0012 ppm	82.9653 %	97.4092 %	84.9515 %	94.9342 %	102.7629 %	95.5734 %
Concentration RSD	15.9 %	0.9 %	1.2 %	0.7 %	0.2 %	1.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-12 WG1935242
Analysis started at: 6/17/2024 8:53:31 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0606 ppm	0.0006 ppm	0.0331 ppm	0.1653 ppm	0.0001 ppm	62.5105 ppm
Concentration per Run 1	0.0004 ppm	0.0665 ppm	0.0018 ppm	0.0331 ppm	0.1658 ppm	0.0001 ppm	62.6850 ppm
Concentration per Run 2	-0.0004 ppm	0.0582 ppm	-0.0004 ppm	0.0341 ppm	0.1653 ppm	0.0000 ppm	62.4669 ppm
Concentration per Run 3	0.0003 ppm	0.0569 ppm	0.0004 ppm	0.0320 ppm	0.1648 ppm	0.0001 ppm	62.3795 ppm
Concentration RSD	445.5 %	8.6 %	180.5 %	3.2 %	0.3 %	41.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0064 ppm	-0.0004 ppm	0.0016 ppm	8.7059 ppm	7.4792 ppm	0.0045 ppm
Concentration per Run 1	0.0003 ppm	0.0063 ppm	-0.0002 ppm	0.0019 ppm	8.6972 ppm	7.5168 ppm	0.0061 ppm
Concentration per Run 2	0.0002 ppm	0.0063 ppm	-0.0003 ppm	0.0013 ppm	8.6767 ppm	7.4394 ppm	0.0039 ppm
Concentration per Run 3	0.0002 ppm	0.0067 ppm	-0.0006 ppm	0.0017 ppm	8.7438 ppm	7.4813 ppm	0.0034 ppm
Concentration RSD	23.3 %	3.5 %	60.6 %	19.7 %	0.4 %	0.5 %	32.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.5574 ppm	1.2874 ppm	0.0019 ppm	426.1148 ppm	0.0017 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 1	20.8572 ppm	1.2953 ppm	0.0023 ppm	426.4454 ppm	0.0014 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	20.5137 ppm	1.2871 ppm	0.0012 ppm	425.2334 ppm	0.0019 ppm	0.0007 ppm	0.0025 ppm
Concentration per Run 3	20.3013 ppm	1.2797 ppm	0.0023 ppm	426.6656 ppm	0.0018 ppm	0.0001 ppm	-0.0013 ppm
Concentration RSD	1.4 %	0.6 %	32.5 %	0.2 %	15.5 %	71.7 %	384.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	8.0200 ppm	-0.0001 ppm	0.4496 ppm	-0.0005 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0027 ppm	8.0725 ppm	0.0004 ppm	0.4491 ppm	-0.0006 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 2	0.0008 ppm	8.0388 ppm	-0.0002 ppm	0.4502 ppm	-0.0006 ppm	0.0014 ppm	0.0000 ppm
Concentration per Run 3	-0.0018 ppm	7.9488 ppm	-0.0004 ppm	0.4496 ppm	-0.0003 ppm	-0.0018 ppm	-0.0002 ppm
Concentration RSD	145.7 %	0.8 %	699.5 %	0.1 %	27.7 %	423.2 %	223.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	81.3198 %	98.1626 %	83.6763 %	94.6493 %	104.2429 %	95.2474 %
Concentration per Run 1	0.0061 ppm	79.9986 %	98.5147 %	83.1171 %	93.9703 %	105.0397 %	94.9189 %
Concentration per Run 2	0.0059 ppm	81.8393 %	97.9460 %	83.4400 %	95.2384 %	103.6479 %	95.2709 %
Concentration per Run 3	0.0060 ppm	82.1214 %	98.0271 %	84.4719 %	94.7392 %	104.0410 %	95.5525 %
Concentration RSD	1.4 %	1.4 %	0.3 %	0.8 %	0.7 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-13 WG1935242
Analysis started at: 6/17/2024 8:57:30 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0989 ppm	-0.0004 ppm	0.0325 ppm	0.1769 ppm	0.0001 ppm	63.1271 ppm
Concentration per Run 1	-0.0002 ppm	0.1011 ppm	0.0009 ppm	0.0328 ppm	0.1779 ppm	0.0001 ppm	63.2795 ppm
Concentration per Run 2	-0.0002 ppm	0.0978 ppm	-0.0021 ppm	0.0320 ppm	0.1763 ppm	0.0001 ppm	63.2243 ppm
Concentration per Run 3	0.0002 ppm	0.0977 ppm	0.0000 ppm	0.0325 ppm	0.1765 ppm	0.0001 ppm	62.8776 ppm
Concentration RSD	309.7 %	2.0 %	379.5 %	1.2 %	0.5 %	35.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0096 ppm	-0.0001 ppm	0.0021 ppm	2.3882 ppm	8.4442 ppm	0.0048 ppm
Concentration per Run 1	0.0001 ppm	0.0105 ppm	0.0000 ppm	0.0021 ppm	2.3942 ppm	8.4652 ppm	0.0056 ppm
Concentration per Run 2	0.0002 ppm	0.0091 ppm	0.0004 ppm	0.0023 ppm	2.3850 ppm	8.5301 ppm	0.0029 ppm
Concentration per Run 3	0.0001 ppm	0.0092 ppm	-0.0009 ppm	0.0018 ppm	2.3854 ppm	8.3372 ppm	0.0057 ppm
Concentration RSD	75.6 %	8.2 %	469.3 %	11.5 %	0.2 %	1.2 %	33.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.9082 ppm	2.2058 ppm	0.0031 ppm	**456.2825 ppm**	0.0039 ppm	0.0011 ppm	-0.0020 ppm
Concentration per Run 1	18.2245 ppm	2.2196 ppm	0.0029 ppm	457.6555 ppm	0.0032 ppm	0.0008 ppm	-0.0039 ppm
Concentration per Run 2	17.8617 ppm	2.2069 ppm	0.0032 ppm	455.4555 ppm	0.0035 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 3	17.6383 ppm	2.1911 ppm	0.0032 ppm	455.7365 ppm	0.0050 ppm	0.0024 ppm	-0.0035 ppm
Concentration RSD	1.7 %	0.6 %	4.6 %	0.3 %	24.9 %	110.1 %	143.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	7.4993 ppm	-0.0005 ppm	0.4624 ppm	-0.0004 ppm	-0.0005 ppm	0.0072 ppm
Concentration per Run 1	-0.0033 ppm	7.6322 ppm	0.0002 ppm	0.4645 ppm	-0.0004 ppm	-0.0001 ppm	0.0073 ppm
Concentration per Run 2	-0.0037 ppm	7.4706 ppm	-0.0009 ppm	0.4613 ppm	-0.0007 ppm	-0.0008 ppm	0.0073 ppm
Concentration per Run 3	-0.0022 ppm	7.3952 ppm	-0.0009 ppm	0.4614 ppm	0.0000 ppm	-0.0006 ppm	0.0069 ppm
Concentration RSD	25.7 %	1.6 %	125.7 %	0.4 %	94.1 %	66.5 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0280 ppm	80.6633 %	97.3972 %	82.5268 %	94.6908 %	103.9513 %	94.8995 %
Concentration per Run 1	0.0287 ppm	79.2520 %	96.8946 %	82.3266 %	94.1910 %	103.6850 %	95.0479 %
Concentration per Run 2	0.0279 ppm	81.1826 %	97.4850 %	82.8105 %	95.1022 %	103.8689 %	95.4163 %
Concentration per Run 3	0.0275 ppm	81.5552 %	97.8120 %	82.4433 %	94.7791 %	104.2999 %	94.2343 %
Concentration RSD	2.2 %	1.5 %	0.5 %	0.3 %	0.5 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433498-15 WG1935242
Analysis started at: 6/17/2024 9:01:28 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.1269 ppm	0.0009 ppm	0.0386 ppm	0.1375 ppm	0.0000 ppm	80.6370 ppm
Concentration per Run 1	0.0005 ppm	0.1294 ppm	0.0009 ppm	0.0387 ppm	0.1376 ppm	0.0001 ppm	80.9321 ppm
Concentration per Run 2	0.0006 ppm	0.1230 ppm	0.0021 ppm	0.0373 ppm	0.1379 ppm	0.0000 ppm	80.4385 ppm
Concentration per Run 3	-0.0002 ppm	0.1283 ppm	-0.0003 ppm	0.0398 ppm	0.1370 ppm	0.0001 ppm	80.5405 ppm
Concentration RSD	133.4 %	2.7 %	137.1 %	3.3 %	0.4 %	37.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0006 ppm	-0.0006 ppm	0.0031 ppm	0.1003 ppm	11.2343 ppm	0.0154 ppm
Concentration per Run 1	0.0006 ppm	0.0005 ppm	-0.0005 ppm	0.0035 ppm	0.1026 ppm	11.2563 ppm	0.0173 ppm
Concentration per Run 2	0.0005 ppm	0.0009 ppm	-0.0005 ppm	0.0031 ppm	0.0986 ppm	11.1932 ppm	0.0142 ppm
Concentration per Run 3	0.0006 ppm	0.0004 ppm	-0.0007 ppm	0.0027 ppm	0.0997 ppm	11.2533 ppm	0.0148 ppm
Concentration RSD	13.8 %	42.8 %	20.9 %	12.5 %	2.1 %	0.3 %	10.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.5993 ppm	0.1213 ppm	0.0017 ppm	557.5420 ppm	0.0017 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 1	16.8167 ppm	0.1219 ppm	0.0018 ppm	558.9710 ppm	0.0015 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	16.5595 ppm	0.1215 ppm	0.0016 ppm	557.6260 ppm	0.0028 ppm	0.0003 ppm	-0.0035 ppm
Concentration per Run 3	16.4217 ppm	0.1205 ppm	0.0018 ppm	556.0289 ppm	0.0008 ppm	-0.0003 ppm	-0.0038 ppm
Concentration RSD	1.2 %	0.6 %	6.8 %	0.3 %	60.0 %	1,407.9 %	149.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	8.3291 ppm	-0.0007 ppm	0.6283 ppm	-0.0006 ppm	0.0050 ppm	1.3048 ppm
Concentration per Run 1	0.0029 ppm	8.3927 ppm	0.0006 ppm	0.6303 ppm	-0.0004 ppm	0.0040 ppm	1.3123 ppm
Concentration per Run 2	-0.0002 ppm	8.3361 ppm	-0.0013 ppm	0.6281 ppm	-0.0008 ppm	0.0052 ppm	1.3040 ppm
Concentration per Run 3	0.0024 ppm	8.2585 ppm	-0.0012 ppm	0.6265 ppm	-0.0006 ppm	0.0056 ppm	1.2980 ppm
Concentration RSD	98.3 %	0.8 %	162.6 %	0.3 %	28.7 %	16.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0238 ppm	79.6020 %	97.2934 %	81.5132 %	93.3164 %	104.0534 %	93.9714 %
Concentration per Run 1	0.0245 ppm	78.6214 %	97.2725 %	81.2051 %	92.9082 %	104.7474 %	94.0838 %
Concentration per Run 2	0.0237 ppm	79.9728 %	96.7930 %	81.6492 %	93.7435 %	103.0908 %	94.0846 %
Concentration per Run 3	0.0233 ppm	80.2119 %	97.8148 %	81.6852 %	93.2977 %	104.3221 %	93.7458 %
Concentration RSD	2.5 %	1.1 %	0.5 %	0.3 %	0.4 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 9:05:27 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4998 ppm	0.4876 ppm	0.4707 ppm	0.4960 ppm	0.4985 ppm	0.5124 ppm	0.4959 ppm
Concentration per Run 1	0.4965 ppm	0.4925 ppm	0.4729 ppm	0.4934 ppm	0.4977 ppm	0.5101 ppm	0.4962 ppm
Concentration per Run 2	0.5014 ppm	0.4837 ppm	0.4702 ppm	0.4989 ppm	0.4995 ppm	0.5125 ppm	0.4948 ppm
Concentration per Run 3	0.5015 ppm	0.4866 ppm	0.4689 ppm	0.4956 ppm	0.4984 ppm	0.5148 ppm	0.4966 ppm
Recovery Percentage 1	99.963 %	97.519 %	94.130 %	99.194 %	99.708 %	102.489 %	99.175 %
Concentration RSD	0.6 %	0.9 %	0.4 %	0.6 %	0.2 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5090 ppm	0.5156 ppm	0.4977 ppm	0.4957 ppm	0.5039 ppm	5.0760 ppm	0.6119 ppm
Concentration per Run 1	0.5073 ppm	0.5134 ppm	0.4959 ppm	0.4940 ppm	0.5017 ppm	5.1061 ppm	0.6109 ppm
Concentration per Run 2	0.5113 ppm	0.5173 ppm	0.4992 ppm	0.4969 ppm	0.5050 ppm	5.0412 ppm	0.6047 ppm
Concentration per Run 3	0.5083 ppm	0.5162 ppm	0.4979 ppm	0.4963 ppm	0.5049 ppm	5.0806 ppm	0.6202 ppm
Recovery Percentage 1	101.793 %	103.129 %	99.531 %	99.146 %	100.774 %	101.520 %	122.385 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.3 %	0.4 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4952 ppm	0.4920 ppm	0.5045 ppm	10.0568 ppm	0.5160 ppm	0.4949 ppm	0.5026 ppm
Concentration per Run 1	0.4941 ppm	0.4921 ppm	0.4958 ppm	10.0524 ppm	0.5142 ppm	0.4958 ppm	0.5012 ppm
Concentration per Run 2	0.4964 ppm	0.4920 ppm	0.5069 ppm	10.0702 ppm	0.5188 ppm	0.4964 ppm	0.5036 ppm
Concentration per Run 3	0.4949 ppm	0.4919 ppm	0.5108 ppm	10.0477 ppm	0.5150 ppm	0.4925 ppm	0.5031 ppm
Recovery Percentage 1	99.030 %	98.395 %	100.902 %	100.568 %	103.198 %	98.975 %	100.524 %
Concentration RSD	0.2 %	0.0 %	1.5 %	0.1 %	0.5 %	0.4 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4849 ppm	5.5632 ppm	0.4878 ppm	0.4911 ppm	0.5064 ppm	0.4844 ppm	0.4972 ppm
Concentration per Run 1	0.4849 ppm	5.5363 ppm	0.4856 ppm	0.4897 ppm	0.5036 ppm	0.4856 ppm	0.4955 ppm
Concentration per Run 2	0.4881 ppm	5.5840 ppm	0.4897 ppm	0.4926 ppm	0.5078 ppm	0.4847 ppm	0.4978 ppm
Concentration per Run 3	0.4816 ppm	5.5693 ppm	0.4882 ppm	0.4910 ppm	0.5077 ppm	0.4827 ppm	0.4984 ppm
Recovery Percentage 1	96.977 %	105.965 %	97.565 %	98.222 %	101.278 %	96.872 %	99.445 %
Concentration RSD	0.7 %	0.4 %	0.4 %	0.3 %	0.5 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5115 ppm	89.5910 %	101.7327 %	92.3388 %	97.7847 %	105.2067 %	98.4973 %
Concentration per Run 1	0.5096 ppm	89.4556 %	102.0646 %	92.2528 %	97.4760 %	105.4493 %	98.5177 %
Concentration per Run 2	0.5157 ppm	89.6425 %	101.9320 %	92.3587 %	98.1274 %	105.4329 %	98.5956 %
Concentration per Run 3	0.5093 ppm	89.6748 %	101.2014 %	92.4049 %	97.7508 %	104.7378 %	98.3786 %
Recovery Percentage 1	102.306 %						
Concentration RSD	0.7 %	0.1 %	0.5 %	0.1 %	0.3 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 9:09:25 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0043 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	-0.0007 ppm	-0.0007 ppm	-0.0006 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 2	-0.0001 ppm	-0.0088 ppm	-0.0013 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 3	0.0002 ppm	-0.0035 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Recovery Percentage 1	-2.727 %	-4.340 %	-11.842 %	0.773 %	2.662 %	0.340 %	3.307 %
Concentration RSD	254.6 %	95.3 %	305.2 %	150.0 %	98.9 %	258.6 %	53.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0011 ppm	0.0069 ppm	-0.0088 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0012 ppm	0.0066 ppm	-0.0128 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	-0.0004 ppm	0.0013 ppm	0.0065 ppm	-0.0284 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0076 ppm	0.0148 ppm	0.0002 ppm
Recovery Percentage 1	-0.580 %	2.145 %	-1.152 %	11.495 %	13.745 %	-0.352 %	7.670 %
Concentration RSD	285.8 %	70.1 %	249.5 %	18.2 %	8.7 %	248.1 %	70.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0002 ppm	0.0017 ppm	0.1224 ppm	-0.0006 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 1	-0.0008 ppm	0.0002 ppm	0.0018 ppm	0.1303 ppm	-0.0004 ppm	0.0013 ppm	-0.0009 ppm
Concentration per Run 2	0.0006 ppm	0.0002 ppm	0.0018 ppm	0.1236 ppm	-0.0010 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 3	0.0024 ppm	0.0001 ppm	0.0015 ppm	0.1135 ppm	-0.0005 ppm	0.0008 ppm	0.0004 ppm
Recovery Percentage 1	0.735 %	1.832 %	3.406 %	6.122 %	-2.562 %	7.834 %	-0.904 %
Concentration RSD	214.9 %	32.5 %	9.3 %	6.9 %	51.1 %	61.1 %	156.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0074 ppm	0.0011 ppm	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	-0.0079 ppm	0.0004 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	-0.0081 ppm	0.0010 ppm	0.0000 ppm	-0.0001 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 3	-0.0012 ppm	-0.0063 ppm	0.0018 ppm	0.0000 ppm	-0.0004 ppm	-0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	-6.664 %	-1.485 %	2.148 %	-0.523 %	-2.186 %	-3.274 %	-0.234 %
Concentration RSD	73.4 %	13.5 %	61.2 %	226.2 %	52.6 %	113.8 %	884.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	84.3946 %	98.9009 %	89.2703 %	99.3631 %	107.2657 %	100.0951 %
Concentration per Run 1	0.0003 ppm	83.1930 %	97.9725 %	88.7714 %	98.6949 %	106.4209 %	99.7428 %
Concentration per Run 2	-0.0001 ppm	84.8613 %	99.5350 %	89.5189 %	99.8330 %	108.0961 %	100.3341 %
Concentration per Run 3	0.0000 ppm	85.1293 %	99.1951 %	89.5206 %	99.5613 %	107.2801 %	100.2084 %
Recovery Percentage 1	1.612 %						
Concentration RSD	253.8 %	1.2 %	0.8 %	0.5 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935316-1 WG1935316
Analysis started at: 6/17/2024 9:15:01 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0026 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 1	-0.0001 ppm	-0.0013 ppm	0.0029 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	-0.0073 ppm	-0.0006 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0074 ppm
Concentration RSD	206.4 %	158.2 %	259.2 %	970.4 %	98.3 %	148.2 %	56.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0021 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0190 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0040 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	-0.0001 ppm	-0.0004 ppm	-0.0212 ppm	0.0005 ppm
Concentration RSD	69.5 %	285.6 %	66.8 %	646.2 %	880.8 %	969.9 %	67.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0019 ppm	0.0001 ppm	0.0002 ppm	0.0623 ppm	-0.0003 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0644 ppm	-0.0010 ppm	0.0010 ppm	-0.0031 ppm
Concentration per Run 2	0.0024 ppm	0.0000 ppm	-0.0005 ppm	0.0620 ppm	-0.0002 ppm	0.0004 ppm	-0.0014 ppm
Concentration per Run 3	0.0026 ppm	0.0001 ppm	0.0006 ppm	0.0606 ppm	0.0003 ppm	-0.0012 ppm	-0.0013 ppm
Concentration RSD	56.3 %	126.1 %	262.0 %	3.0 %	206.8 %	1,361.6 %	52.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0054 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0017 ppm	-0.0031 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 2	-0.0023 ppm	-0.0062 ppm	0.0009 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 3	0.0008 ppm	-0.0068 ppm	0.0012 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration RSD	155.1 %	36.9 %	50.2 %	247.5 %	84.6 %	985.1 %	11.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	98.1094 %	105.2333 %	99.7121 %	105.3721 %	109.1654 %	104.5829 %
Concentration per Run 1	-0.0001 ppm	98.5835 %	105.2400 %	99.8368 %	105.1386 %	108.9084 %	104.5769 %
Concentration per Run 2	0.0000 ppm	98.0459 %	105.5347 %	99.6696 %	105.4376 %	109.2655 %	104.3645 %
Concentration per Run 3	0.0000 ppm	97.6988 %	104.9251 %	99.6299 %	105.5400 %	109.3222 %	104.8073 %
Concentration RSD	451.4 %	0.5 %	0.3 %	0.1 %	0.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935316-2 WG1935316
Analysis started at: 6/17/2024 9:21:43 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0437 ppm	1.8552 ppm	0.1045 ppm	0.8358 ppm	1.8540 ppm	0.0476 ppm	9.3838 ppm
Concentration per Run 1	0.0427 ppm	1.8427 ppm	0.1026 ppm	0.8212 ppm	1.8413 ppm	0.0474 ppm	9.3347 ppm
Concentration per Run 2	0.0439 ppm	1.8623 ppm	0.1035 ppm	0.8365 ppm	1.8593 ppm	0.0476 ppm	9.3501 ppm
Concentration per Run 3	0.0445 ppm	1.8607 ppm	0.1073 ppm	0.8498 ppm	1.8615 ppm	0.0479 ppm	9.4666 ppm
Concentration RSD	2.0 %	0.6 %	2.4 %	1.7 %	0.6 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0464 ppm	0.4323 ppm	0.1696 ppm	0.2168 ppm	0.9400 ppm	9.7698 ppm	0.0006 ppm
Concentration per Run 1	0.0458 ppm	0.4260 ppm	0.1667 ppm	0.2129 ppm	0.9369 ppm	9.7223 ppm	0.0001 ppm
Concentration per Run 2	0.0465 ppm	0.4322 ppm	0.1694 ppm	0.2175 ppm	0.9355 ppm	9.7357 ppm	0.0012 ppm
Concentration per Run 3	0.0468 ppm	0.4388 ppm	0.1727 ppm	0.2201 ppm	0.9475 ppm	9.8513 ppm	0.0005 ppm
Concentration RSD	1.1 %	1.5 %	1.8 %	1.7 %	0.7 %	0.7 %	91.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.4615 ppm	0.4663 ppm	0.8417 ppm	9.4841 ppm	0.4337 ppm	0.4892 ppm	0.3636 ppm
Concentration per Run 1	8.3233 ppm	0.4638 ppm	0.8181 ppm	9.4121 ppm	0.4264 ppm	0.4871 ppm	0.3576 ppm
Concentration per Run 2	8.4694 ppm	0.4654 ppm	0.8433 ppm	9.4680 ppm	0.4329 ppm	0.4878 ppm	0.3588 ppm
Concentration per Run 3	8.5917 ppm	0.4695 ppm	0.8638 ppm	9.5721 ppm	0.4418 ppm	0.4927 ppm	0.3744 ppm
Concentration RSD	1.6 %	0.6 %	2.7 %	0.9 %	1.8 %	0.6 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1028 ppm	0.8516 ppm	0.9084 ppm	0.9054 ppm	0.8813 ppm	0.1121 ppm	0.4311 ppm
Concentration per Run 1	0.1026 ppm	0.8349 ppm	0.9107 ppm	0.9022 ppm	0.8646 ppm	0.1107 ppm	0.4221 ppm
Concentration per Run 2	0.1024 ppm	0.8521 ppm	0.9034 ppm	0.9059 ppm	0.8805 ppm	0.1117 ppm	0.4321 ppm
Concentration per Run 3	0.1032 ppm	0.8679 ppm	0.9111 ppm	0.9080 ppm	0.8990 ppm	0.1138 ppm	0.4392 ppm
Concentration RSD	0.4 %	1.9 %	0.5 %	0.3 %	2.0 %	1.4 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4312 ppm	105.5297 %	107.2359 %	101.0760 %	102.3978 %	106.0533 %	101.1505 %
Concentration per Run 1	0.4254 ppm	107.4626 %	107.8987 %	101.2891 %	102.2227 %	106.3070 %	100.3668 %
Concentration per Run 2	0.4294 ppm	105.1437 %	107.5596 %	101.5750 %	102.2914 %	106.0027 %	101.7807 %
Concentration per Run 3	0.4386 ppm	103.9828 %	106.2496 %	100.3640 %	102.6793 %	105.8502 %	101.3039 %
Concentration RSD	1.6 %	1.7 %	0.8 %	0.6 %	0.2 %	0.2 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1935316-3 WG1935316
Analysis started at: 6/17/2024 9:26:01 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0523 ppm	1.9644 ppm	0.1198 ppm	1.0220 ppm	1.9608 ppm	0.0506 ppm	9.9447 ppm
Concentration per Run 1	0.0527 ppm	1.9754 ppm	0.1209 ppm	1.0347 ppm	1.9549 ppm	0.0506 ppm	9.9672 ppm
Concentration per Run 2	0.0521 ppm	1.9602 ppm	0.1209 ppm	1.0187 ppm	1.9704 ppm	0.0509 ppm	9.9503 ppm
Concentration per Run 3	0.0521 ppm	1.9575 ppm	0.1174 ppm	1.0126 ppm	1.9570 ppm	0.0504 ppm	9.9165 ppm
Concentration RSD	0.7 %	0.5 %	1.7 %	1.1 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0563 ppm	0.5217 ppm	0.2041 ppm	0.2604 ppm	0.9939 ppm	10.2865 ppm	0.0000 ppm
Concentration per Run 1	0.0570 ppm	0.5294 ppm	0.2055 ppm	0.2634 ppm	0.9947 ppm	10.3144 ppm	-0.0001 ppm
Concentration per Run 2	0.0561 ppm	0.5191 ppm	0.2039 ppm	0.2601 ppm	0.9957 ppm	10.3227 ppm	-0.0006 ppm
Concentration per Run 3	0.0559 ppm	0.5167 ppm	0.2030 ppm	0.2577 ppm	0.9913 ppm	10.2224 ppm	0.0008 ppm
Concentration RSD	1.1 %	1.3 %	0.6 %	1.1 %	0.2 %	0.5 %	1,850.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2403 ppm	0.4943 ppm	0.9833 ppm	10.0418 ppm	0.5251 ppm	0.5397 ppm	0.4437 ppm
Concentration per Run 1	10.3368 ppm	0.4946 ppm	0.9796 ppm	10.0655 ppm	0.5296 ppm	0.5420 ppm	0.4449 ppm
Concentration per Run 2	10.2340 ppm	0.4953 ppm	0.9802 ppm	10.0444 ppm	0.5240 ppm	0.5418 ppm	0.4407 ppm
Concentration per Run 3	10.1502 ppm	0.4932 ppm	0.9900 ppm	10.0154 ppm	0.5216 ppm	0.5353 ppm	0.4454 ppm
Concentration RSD	0.9 %	0.2 %	0.6 %	0.3 %	0.8 %	0.7 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1175 ppm	1.0296 ppm	0.9110 ppm	0.9620 ppm	1.0492 ppm	0.1208 ppm	0.5176 ppm
Concentration per Run 1	0.1182 ppm	1.0381 ppm	0.9040 ppm	0.9623 ppm	1.0585 ppm	0.1222 ppm	0.5203 ppm
Concentration per Run 2	0.1186 ppm	1.0308 ppm	0.9120 ppm	0.9669 ppm	1.0478 ppm	0.1228 ppm	0.5180 ppm
Concentration per Run 3	0.1157 ppm	1.0200 ppm	0.9170 ppm	0.9569 ppm	1.0412 ppm	0.1175 ppm	0.5144 ppm
Concentration RSD	1.4 %	0.9 %	0.7 %	0.5 %	0.8 %	2.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5271 ppm	85.7667 %	101.1306 %	89.6070 %	99.1738 %	107.1204 %	100.0531 %
Concentration per Run 1	0.5328 ppm	84.5103 %	100.4472 %	89.0956 %	98.7271 %	106.7411 %	99.9999 %
Concentration per Run 2	0.5253 ppm	86.3154 %	101.5654 %	90.2105 %	99.6724 %	107.6830 %	100.8749 %
Concentration per Run 3	0.5232 ppm	86.4743 %	101.3791 %	89.5151 %	99.1219 %	106.9371 %	99.2846 %
Concentration RSD	1.0 %	1.3 %	0.6 %	0.6 %	0.5 %	0.5 %	0.8 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2431666-06 WG1935316
Analysis started at: 6/17/2024 9:30:08 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0033 ppm	-0.0003 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm	0.0205 ppm
Concentration per Run 1	-0.0005 ppm	0.0050 ppm	-0.0001 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0178 ppm
Concentration per Run 2	0.0000 ppm	0.0067 ppm	-0.0001 ppm	0.0024 ppm	0.0003 ppm	0.0000 ppm	0.0237 ppm
Concentration per Run 3	0.0003 ppm	-0.0016 ppm	-0.0005 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0199 ppm
Concentration RSD	509.0 %	131.0 %	86.3 %	40.5 %	37.8 %	123.1 %	14.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0017 ppm	0.0118 ppm	0.0280 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0018 ppm	0.0115 ppm	0.0301 ppm	-0.0028 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0111 ppm	0.0154 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0018 ppm	0.0129 ppm	0.0384 ppm	0.0041 ppm
Concentration RSD	59.8 %	217.8 %	137.4 %	8.3 %	8.0 %	41.6 %	373.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0034 ppm	0.0007 ppm	0.0053 ppm	0.0799 ppm	0.0002 ppm	0.0014 ppm	0.0021 ppm
Concentration per Run 1	0.0041 ppm	0.0008 ppm	0.0053 ppm	0.0805 ppm	-0.0001 ppm	0.0023 ppm	0.0030 ppm
Concentration per Run 2	0.0032 ppm	0.0008 ppm	0.0050 ppm	0.0781 ppm	0.0000 ppm	0.0008 ppm	0.0028 ppm
Concentration per Run 3	0.0029 ppm	0.0007 ppm	0.0057 ppm	0.0812 ppm	0.0006 ppm	0.0010 ppm	0.0004 ppm
Concentration RSD	17.8 %	11.4 %	6.6 %	2.0 %	231.7 %	59.7 %	70.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	-0.0034 ppm	0.0032 ppm	0.0000 ppm	0.0002 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 1	-0.0015 ppm	-0.0019 ppm	0.0032 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 2	-0.0008 ppm	-0.0051 ppm	0.0036 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 3	-0.0041 ppm	-0.0033 ppm	0.0029 ppm	0.0002 ppm	0.0000 ppm	-0.0006 ppm	-0.0003 ppm
Concentration RSD	82.6 %	47.4 %	10.5 %	6,457.5 %	134.9 %	10.0 %	13.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0036 ppm	83.2421 %	98.1557 %	88.4022 %	100.8074 %	108.5909 %	101.8220 %
Concentration per Run 1	0.0036 ppm	82.6096 %	97.5573 %	87.7315 %	100.9335 %	108.3920 %	101.9125 %
Concentration per Run 2	0.0038 ppm	83.5396 %	98.1343 %	88.1990 %	101.2580 %	108.2694 %	101.4464 %
Concentration per Run 3	0.0033 ppm	83.5772 %	98.7755 %	89.2760 %	100.2306 %	109.1114 %	102.1070 %
Concentration RSD	7.9 %	0.7 %	0.6 %	0.9 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2431954-04 WG1935316
Analysis started at: 6/17/2024 9:34:08 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0034 ppm	0.0003 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0272 ppm
Concentration per Run 1	0.0006 ppm	0.0005 ppm	-0.0017 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0276 ppm
Concentration per Run 2	-0.0001 ppm	0.0121 ppm	0.0007 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0268 ppm
Concentration per Run 3	-0.0001 ppm	-0.0025 ppm	0.0020 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0272 ppm
Concentration RSD	282.1 %	228.3 %	578.9 %	73.9 %	65.8 %	102.3 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0032 ppm	-0.0072 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0032 ppm	-0.0074 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0016 ppm	0.0030 ppm	-0.0043 ppm	0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0033 ppm	-0.0098 ppm	0.0017 ppm
Concentration RSD	89.6 %	379.5 %	101.3 %	22.5 %	5.2 %	38.9 %	97.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0003 ppm	0.0013 ppm	0.0551 ppm	0.0009 ppm	0.0004 ppm	-0.0028 ppm
Concentration per Run 1	0.0039 ppm	0.0004 ppm	0.0008 ppm	0.0585 ppm	0.0008 ppm	0.0014 ppm	-0.0013 ppm
Concentration per Run 2	0.0015 ppm	0.0002 ppm	0.0016 ppm	0.0536 ppm	0.0011 ppm	0.0001 ppm	-0.0042 ppm
Concentration per Run 3	0.0041 ppm	0.0004 ppm	0.0016 ppm	0.0532 ppm	0.0008 ppm	-0.0003 ppm	-0.0028 ppm
Concentration RSD	47.1 %	24.0 %	35.7 %	5.4 %	22.0 %	206.9 %	52.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0020 ppm	0.0014 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0014 ppm	-0.0010 ppm	0.0021 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm	-0.0003 ppm
Concentration per Run 2	-0.0008 ppm	-0.0007 ppm	0.0009 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0011 ppm	-0.0042 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	25.4 %	99.1 %	45.5 %	203.1 %	165.7 %	309.9 %	166.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	83.4314 %	98.2349 %	87.9651 %	101.3661 %	109.0465 %	101.6640 %
Concentration per Run 1	0.0012 ppm	82.4837 %	97.5912 %	87.1259 %	101.1940 %	108.9971 %	101.4454 %
Concentration per Run 2	0.0011 ppm	83.3128 %	97.8620 %	88.0476 %	101.1753 %	108.5159 %	101.6206 %
Concentration per Run 3	0.0012 ppm	84.4978 %	99.2514 %	88.7218 %	101.7291 %	109.6264 %	101.9259 %
Concentration RSD	6.2 %	1.2 %	0.9 %	0.9 %	0.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432803-01 WG1935316
Analysis started at: 6/17/2024 9:38:08 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.3043 ppm	0.0010 ppm	0.0297 ppm	0.0167 ppm	0.0000 ppm	13.1945 ppm
Concentration per Run 1	-0.0001 ppm	0.3082 ppm	-0.0008 ppm	0.0305 ppm	0.0166 ppm	0.0000 ppm	13.2039 ppm
Concentration per Run 2	0.0006 ppm	0.2984 ppm	0.0002 ppm	0.0287 ppm	0.0168 ppm	0.0000 ppm	13.1705 ppm
Concentration per Run 3	0.0004 ppm	0.3061 ppm	0.0037 ppm	0.0300 ppm	0.0165 ppm	0.0000 ppm	13.2091 ppm
Concentration RSD	131.5 %	1.7 %	233.5 %	3.2 %	0.8 %	90.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0010 ppm	0.0020 ppm	0.4735 ppm	2.5101 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0020 ppm	0.4776 ppm	2.5655 ppm	-0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0018 ppm	0.4735 ppm	2.4843 ppm	0.0017 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	0.0011 ppm	0.0023 ppm	0.4695 ppm	2.4806 ppm	0.0008 ppm
Concentration RSD	520.1 %	53.6 %	26.8 %	12.0 %	0.9 %	1.9 %	135.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.8045 ppm	0.0132 ppm	0.0004 ppm	32.1365 ppm	0.0006 ppm	0.0008 ppm	-0.0013 ppm
Concentration per Run 1	3.8612 ppm	0.0131 ppm	0.0004 ppm	32.1236 ppm	-0.0001 ppm	0.0005 ppm	-0.0013 ppm
Concentration per Run 2	3.7971 ppm	0.0136 ppm	0.0005 ppm	32.0702 ppm	0.0007 ppm	0.0020 ppm	-0.0022 ppm
Concentration per Run 3	3.7550 ppm	0.0130 ppm	0.0004 ppm	32.2156 ppm	0.0012 ppm	-0.0002 ppm	-0.0003 ppm
Concentration RSD	1.4 %	2.2 %	19.6 %	0.2 %	109.1 %	149.6 %	72.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	5.4943 ppm	-0.0001 ppm	0.0912 ppm	0.0314 ppm	-0.0005 ppm	0.0009 ppm
Concentration per Run 1	-0.0012 ppm	5.5673 ppm	0.0002 ppm	0.0920 ppm	0.0318 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 2	-0.0017 ppm	5.4858 ppm	-0.0009 ppm	0.0907 ppm	0.0312 ppm	-0.0021 ppm	0.0008 ppm
Concentration per Run 3	0.0007 ppm	5.4299 ppm	0.0003 ppm	0.0909 ppm	0.0313 ppm	0.0000 ppm	0.0008 ppm
Concentration RSD	173.2 %	1.3 %	515.0 %	0.8 %	1.0 %	262.4 %	18.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0047 ppm	84.0021 %	98.8661 %	88.7028 %	99.6291 %	106.9616 %	100.2996 %
Concentration per Run 1	0.0048 ppm	83.0832 %	98.1312 %	88.5040 %	99.6927 %	106.6602 %	100.2396 %
Concentration per Run 2	0.0045 ppm	84.3025 %	99.4940 %	88.9442 %	99.7294 %	107.3975 %	100.4838 %
Concentration per Run 3	0.0047 ppm	84.6206 %	98.9730 %	88.6602 %	99.4651 %	106.8272 %	100.1752 %
Concentration RSD	3.3 %	1.0 %	0.7 %	0.3 %	0.1 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432803-02 WG1935316
Analysis started at: 6/17/2024 9:42:08 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.3905 ppm	0.0003 ppm	0.0448 ppm	0.0416 ppm	0.0001 ppm	21.1768 ppm
Concentration per Run 1	0.0000 ppm	0.3928 ppm	0.0001 ppm	0.0429 ppm	0.0419 ppm	0.0000 ppm	21.2501 ppm
Concentration per Run 2	0.0004 ppm	0.3929 ppm	-0.0006 ppm	0.0451 ppm	0.0416 ppm	0.0001 ppm	21.1521 ppm
Concentration per Run 3	0.0001 ppm	0.3858 ppm	0.0013 ppm	0.0462 ppm	0.0414 ppm	0.0001 ppm	21.1284 ppm
Concentration RSD	137.7 %	1.0 %	384.6 %	3.7 %	0.7 %	23.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0008 ppm	0.0006 ppm	0.0143 ppm	0.4901 ppm	3.5505 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0143 ppm	0.4921 ppm	3.5714 ppm	-0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0012 ppm	0.0009 ppm	0.0147 ppm	0.4906 ppm	3.5780 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0139 ppm	0.4875 ppm	3.5022 ppm	0.0016 ppm
Concentration RSD	54.3 %	31.9 %	47.4 %	2.7 %	0.5 %	1.2 %	117.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2454 ppm	0.0435 ppm	0.0005 ppm	17.9720 ppm	0.0071 ppm	0.0004 ppm	-0.0014 ppm
Concentration per Run 1	5.3173 ppm	0.0436 ppm	0.0007 ppm	18.0652 ppm	0.0072 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 2	5.2556 ppm	0.0434 ppm	0.0004 ppm	17.9110 ppm	0.0064 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 3	5.1634 ppm	0.0434 ppm	0.0005 ppm	17.9398 ppm	0.0075 ppm	0.0001 ppm	-0.0010 ppm
Concentration RSD	1.5 %	0.3 %	32.2 %	0.5 %	8.4 %	137.7 %	91.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	9.7591 ppm	-0.0005 ppm	0.1158 ppm	0.0180 ppm	-0.0006 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	9.8490 ppm	-0.0012 ppm	0.1168 ppm	0.0178 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.0014 ppm	9.7841 ppm	-0.0002 ppm	0.1151 ppm	0.0186 ppm	-0.0022 ppm	0.0005 ppm
Concentration per Run 3	-0.0008 ppm	9.6442 ppm	-0.0002 ppm	0.1153 ppm	0.0175 ppm	0.0003 ppm	0.0010 ppm
Concentration RSD	464.0 %	1.1 %	110.8 %	0.8 %	3.4 %	238.9 %	35.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0124 ppm	84.3089 %	99.9315 %	88.5415 %	101.1065 %	109.3742 %	101.4373 %
Concentration per Run 1	0.0127 ppm	83.5865 %	99.9831 %	88.4980 %	101.4646 %	109.6288 %	101.7230 %
Concentration per Run 2	0.0124 ppm	84.0334 %	99.8316 %	88.5190 %	100.4876 %	109.1185 %	101.5444 %
Concentration per Run 3	0.0122 ppm	85.3067 %	99.9797 %	88.6076 %	101.3672 %	109.3753 %	101.0445 %
Concentration RSD	2.3 %	1.1 %	0.1 %	0.1 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433011-04 WG1935316
Analysis started at: 6/17/2024 9:46:07 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0028 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 1	0.0002 ppm	-0.0062 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 2	0.0006 ppm	-0.0033 ppm	-0.0010 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 3	-0.0002 ppm	0.0012 ppm	-0.0004 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0109 ppm
Concentration RSD	170.5 %	133.8 %	45.5 %	351.0 %	413.8 %	4,946.5 %	22.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0018 ppm	-0.0060 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0015 ppm	0.0028 ppm	0.0369 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0010 ppm	-0.0007 ppm	-0.0232 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0033 ppm	-0.0318 ppm	-0.0015 ppm
Concentration RSD	7,011.3 %	423.0 %	301.0 %	16.5 %	119.8 %	621.7 %	97.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0003 ppm	0.0004 ppm	0.0290 ppm	0.0000 ppm	0.0012 ppm	0.0009 ppm
Concentration per Run 1	0.0022 ppm	0.0003 ppm	0.0003 ppm	0.0303 ppm	0.0002 ppm	0.0008 ppm	0.0015 ppm
Concentration per Run 2	0.0014 ppm	0.0004 ppm	0.0003 ppm	0.0237 ppm	-0.0008 ppm	0.0013 ppm	-0.0009 ppm
Concentration per Run 3	0.0004 ppm	0.0003 ppm	0.0006 ppm	0.0330 ppm	0.0007 ppm	0.0014 ppm	0.0021 ppm
Concentration RSD	69.4 %	18.7 %	44.3 %	16.4 %	3,631.6 %	27.2 %	179.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0055 ppm	-0.0004 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0030 ppm	-0.0059 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0013 ppm	-0.0003 ppm
Concentration per Run 2	0.0016 ppm	-0.0059 ppm	-0.0009 ppm	0.0002 ppm	-0.0003 ppm	0.0014 ppm	-0.0005 ppm
Concentration per Run 3	-0.0018 ppm	-0.0046 ppm	-0.0005 ppm	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm	-0.0005 ppm
Concentration RSD	227.1 %	13.1 %	164.3 %	430.8 %	9.5 %	1,856.1 %	19.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	83.4027 %	99.1984 %	88.5545 %	101.2162 %	109.8929 %	101.8076 %
Concentration per Run 1	0.0005 ppm	82.2441 %	99.2405 %	88.0349 %	100.8957 %	110.3491 %	102.0085 %
Concentration per Run 2	0.0005 ppm	84.3407 %	99.2231 %	88.6320 %	102.2192 %	109.6062 %	101.8608 %
Concentration per Run 3	0.0004 ppm	83.6232 %	99.1314 %	88.9966 %	100.5338 %	109.7234 %	101.5535 %
Concentration RSD	10.2 %	1.3 %	0.1 %	0.5 %	0.9 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2433383-04 WG1935316
Analysis started at: 6/17/2024 9:50:08 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0040 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 1	0.0000 ppm	-0.0071 ppm	0.0006 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 2	-0.0002 ppm	0.0054 ppm	-0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 3	0.0003 ppm	0.0137 ppm	-0.0001 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0085 ppm
Concentration RSD	1,025.7 %	261.3 %	681.7 %	27.6 %	85.1 %	79.9 %	20.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm	0.0035 ppm	-0.0080 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0017 ppm	0.0025 ppm	-0.0042 ppm	0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0019 ppm	0.0041 ppm	-0.0095 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.0041 ppm	-0.0102 ppm	0.0001 ppm
Concentration RSD	223.2 %	329.5 %	1,468.7 %	11.7 %	26.6 %	40.9 %	861.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0020 ppm	0.0010 ppm	-0.0001 ppm	0.0380 ppm	-0.0009 ppm	0.0007 ppm	-0.0024 ppm
Concentration per Run 1	0.0025 ppm	0.0010 ppm	-0.0002 ppm	0.0415 ppm	-0.0003 ppm	0.0020 ppm	-0.0049 ppm
Concentration per Run 2	0.0006 ppm	0.0009 ppm	-0.0003 ppm	0.0349 ppm	-0.0016 ppm	-0.0011 ppm	-0.0006 ppm
Concentration per Run 3	0.0028 ppm	0.0011 ppm	0.0002 ppm	0.0376 ppm	-0.0008 ppm	0.0011 ppm	-0.0015 ppm
Concentration RSD	61.0 %	8.6 %	267.6 %	8.7 %	74.3 %	229.4 %	96.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	-0.0042 ppm	-0.0011 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0034 ppm	-0.0046 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 2	-0.0026 ppm	-0.0036 ppm	-0.0008 ppm	0.0002 ppm	-0.0004 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 3	-0.0027 ppm	-0.0044 ppm	-0.0019 ppm	-0.0001 ppm	-0.0005 ppm	0.0013 ppm	-0.0004 ppm
Concentration RSD	15.1 %	12.5 %	62.5 %	237.0 %	67.3 %	2,069.9 %	51.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	83.5387 %	98.7649 %	88.4592 %	101.2141 %	109.0968 %	101.7769 %
Concentration per Run 1	0.0029 ppm	82.6711 %	97.8287 %	88.5127 %	101.0953 %	108.6261 %	102.1193 %
Concentration per Run 2	0.0028 ppm	83.6568 %	99.2739 %	88.6821 %	101.1841 %	109.2935 %	101.8954 %
Concentration per Run 3	0.0028 ppm	84.2883 %	99.1920 %	88.1827 %	101.3629 %	109.3708 %	101.3160 %
Concentration RSD	3.5 %	1.0 %	0.8 %	0.3 %	0.1 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 9:54:07 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4869 ppm	0.4744 ppm	0.4990 ppm	0.4972 ppm	0.5145 ppm	0.4920 ppm
Concentration per Run 1	0.4985 ppm	0.4897 ppm	0.4730 ppm	0.4929 ppm	0.4969 ppm	0.5146 ppm	0.4881 ppm
Concentration per Run 2	0.5034 ppm	0.4819 ppm	0.4766 ppm	0.5004 ppm	0.4969 ppm	0.5138 ppm	0.4902 ppm
Concentration per Run 3	0.5054 ppm	0.4891 ppm	0.4737 ppm	0.5036 ppm	0.4978 ppm	0.5151 ppm	0.4976 ppm
Recovery Percentage 1	100.487 %	97.377 %	94.883 %	99.793 %	99.439 %	102.897 %	98.392 %
Concentration RSD	0.7 %	0.9 %	0.4 %	1.1 %	0.1 %	0.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5116 ppm	0.5182 ppm	0.5006 ppm	0.4980 ppm	0.5072 ppm	5.1368 ppm	0.6211 ppm
Concentration per Run 1	0.5086 ppm	0.5153 ppm	0.4981 ppm	0.4957 ppm	0.5069 ppm	5.1532 ppm	0.6240 ppm
Concentration per Run 2	0.5128 ppm	0.5192 ppm	0.5013 ppm	0.4979 ppm	0.5067 ppm	5.1397 ppm	0.6184 ppm
Concentration per Run 3	0.5135 ppm	0.5200 ppm	0.5024 ppm	0.5003 ppm	0.5081 ppm	5.1177 ppm	0.6210 ppm
Recovery Percentage 1	102.326 %	103.632 %	100.118 %	99.600 %	101.443 %	102.737 %	124.230 %
Concentration RSD	0.5 %	0.5 %	0.4 %	0.5 %	0.1 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4972 ppm	0.4928 ppm	0.5053 ppm	9.9178 ppm	0.5168 ppm	0.4971 ppm	0.5105 ppm
Concentration per Run 1	0.4981 ppm	0.4919 ppm	0.4944 ppm	9.9241 ppm	0.5126 ppm	0.4979 ppm	0.5015 ppm
Concentration per Run 2	0.4946 ppm	0.4927 ppm	0.5064 ppm	9.9152 ppm	0.5150 ppm	0.4985 ppm	0.5124 ppm
Concentration per Run 3	0.4987 ppm	0.4937 ppm	0.5152 ppm	9.9140 ppm	0.5229 ppm	0.4948 ppm	0.5175 ppm
Recovery Percentage 1	99.432 %	98.552 %	101.066 %	99.178 %	103.361 %	99.414 %	102.094 %
Concentration RSD	0.4 %	0.2 %	2.1 %	0.1 %	1.0 %	0.4 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4837 ppm	5.5959 ppm	0.4875 ppm	0.4934 ppm	0.5098 ppm	0.4881 ppm	0.4994 ppm
Concentration per Run 1	0.4813 ppm	5.5545 ppm	0.4841 ppm	0.4929 ppm	0.5070 ppm	0.4871 ppm	0.4979 ppm
Concentration per Run 2	0.4888 ppm	5.6126 ppm	0.4865 ppm	0.4936 ppm	0.5094 ppm	0.4926 ppm	0.4992 ppm
Concentration per Run 3	0.4809 ppm	5.6205 ppm	0.4918 ppm	0.4938 ppm	0.5131 ppm	0.4845 ppm	0.5010 ppm
Recovery Percentage 1	96.738 %	106.588 %	97.492 %	98.682 %	101.967 %	97.617 %	99.879 %
Concentration RSD	0.9 %	0.6 %	0.8 %	0.1 %	0.6 %	0.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5117 ppm	89.4934 %	101.9025 %	92.2045 %	97.8545 %	105.6621 %	98.6721 %
Concentration per Run 1	0.5086 ppm	89.1503 %	102.5968 %	92.1770 %	97.4656 %	106.6543 %	98.7492 %
Concentration per Run 2	0.5098 ppm	89.8061 %	101.8595 %	91.9004 %	98.0694 %	105.5883 %	98.4054 %
Concentration per Run 3	0.5168 ppm	89.5239 %	101.2511 %	92.5361 %	98.0284 %	104.7437 %	98.8617 %
Recovery Percentage 1	102.348 %						
Concentration RSD	0.9 %	0.4 %	0.7 %	0.3 %	0.3 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 9:58:06 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0064 ppm	0.0006 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	-0.0003 ppm	-0.0105 ppm	0.0007 ppm	0.0023 ppm	0.0002 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	-0.0012 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0094 ppm	0.0024 ppm	-0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0032 ppm
Recovery Percentage 1	-1.384 %	-6.442 %	20.656 %	3.477 %	1.904 %	0.383 %	1.227 %
Concentration RSD	202.4 %	95.3 %	290.2 %	127.9 %	62.9 %	237.7 %	151.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0069 ppm	0.0021 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0070 ppm	0.0197 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0011 ppm	0.0052 ppm	-0.0082 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0084 ppm	-0.0051 ppm	-0.0009 ppm
Recovery Percentage 1	-0.953 %	0.153 %	-1.996 %	8.080 %	13.760 %	0.085 %	-5.092 %
Concentration RSD	146.1 %	1,047.2 %	89.4 %	36.0 %	23.3 %	716.9 %	200.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0002 ppm	0.0019 ppm	0.0210 ppm	-0.0009 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0022 ppm	0.0004 ppm	0.0022 ppm	0.0240 ppm	0.0001 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 2	-0.0026 ppm	0.0004 ppm	0.0022 ppm	0.0190 ppm	-0.0016 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0017 ppm	0.0000 ppm	0.0014 ppm	0.0200 ppm	-0.0011 ppm	0.0008 ppm	0.0008 ppm
Recovery Percentage 1	-1.018 %	2.499 %	3.868 %	1.051 %	-3.422 %	6.244 %	0.603 %
Concentration RSD	234.5 %	89.2 %	24.2 %	12.7 %	97.9 %	31.3 %	177.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0066 ppm	0.0011 ppm	0.0000 ppm	-0.0002 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	-0.0067 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0014 ppm	-0.0053 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0077 ppm	0.0020 ppm	-0.0001 ppm	-0.0007 ppm	-0.0011 ppm	-0.0001 ppm
Recovery Percentage 1	-4.051 %	-1.314 %	2.222 %	0.014 %	-1.883 %	-5.433 %	0.086 %
Concentration RSD	250.1 %	18.4 %	76.4 %	6,934.5 %	216.5 %	46.3 %	1,548.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	84.3908 %	97.9320 %	88.8043 %	98.8451 %	105.8922 %	99.2997 %
Concentration per Run 1	-0.0001 ppm	84.1216 %	97.4965 %	88.2834 %	99.2128 %	105.5943 %	99.0978 %
Concentration per Run 2	0.0001 ppm	84.3549 %	98.0146 %	88.9671 %	98.6192 %	105.7174 %	99.3086 %
Concentration per Run 3	-0.0002 ppm	84.6958 %	98.2849 %	89.1623 %	98.7034 %	106.3650 %	99.4929 %
Recovery Percentage 1	-1.544 %						
Concentration RSD	190.6 %	0.3 %	0.4 %	0.5 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934555-1 WG1934555
Analysis started at: 6/17/2024 10:06:49 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0042 ppm	0.0005 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 1	-0.0003 ppm	0.0029 ppm	0.0019 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 2	0.0003 ppm	0.0045 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0111 ppm
Concentration per Run 3	0.0000 ppm	0.0053 ppm	-0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration RSD	4,310.4 %	29.4 %	215.6 %	203.3 %	122.9 %	64.0 %	6.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0028 ppm	-0.0111 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0041 ppm	-0.0245 ppm	-0.0010 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0002 ppm	0.0025 ppm	-0.0149 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0017 ppm	0.0062 ppm	0.0001 ppm
Concentration RSD	111.6 %	60.5 %	455.1 %	1,006.6 %	44.2 %	142.1 %	581.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0004 ppm	0.0003 ppm	0.0218 ppm	-0.0004 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0176 ppm	-0.0008 ppm	0.0006 ppm	0.0014 ppm
Concentration per Run 2	0.0029 ppm	0.0003 ppm	0.0006 ppm	0.0224 ppm	-0.0001 ppm	0.0007 ppm	-0.0016 ppm
Concentration per Run 3	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0252 ppm	-0.0004 ppm	0.0010 ppm	-0.0004 ppm
Concentration RSD	106.9 %	21.2 %	93.8 %	17.8 %	83.0 %	28.5 %	742.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0020 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	-0.0003 ppm	-0.0013 ppm	-0.0002 ppm	0.0003 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 2	-0.0006 ppm	-0.0024 ppm	-0.0003 ppm	-0.0001 ppm	-0.0002 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 3	-0.0022 ppm	-0.0033 ppm	-0.0010 ppm	-0.0001 ppm	-0.0001 ppm	-0.0019 ppm	0.0000 ppm
Concentration RSD	225.7 %	76.0 %	61.9 %	69.0 %	2,178.1 %	76.8 %	90.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	102.4300 %	105.7246 %	101.6311 %	103.9041 %	106.9509 %	103.5596 %
Concentration per Run 1	0.0005 ppm	103.4441 %	106.3639 %	101.8683 %	103.7585 %	107.0540 %	103.0494 %
Concentration per Run 2	0.0007 ppm	102.7503 %	105.2287 %	101.7545 %	104.3037 %	106.5350 %	103.8078 %
Concentration per Run 3	0.0005 ppm	101.0957 %	105.5811 %	101.2704 %	103.6501 %	107.2637 %	103.8216 %
Concentration RSD	25.2 %	1.2 %	0.5 %	0.3 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934555-2 WG1934555
Analysis started at: 6/17/2024 10:11:08 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0544 ppm	2.0574 ppm	0.1235 ppm	1.0644 ppm	2.0521 ppm	0.0524 ppm	10.4210 ppm
Concentration per Run 1	0.0548 ppm	2.0614 ppm	0.1243 ppm	1.0706 ppm	2.0668 ppm	0.0526 ppm	10.4327 ppm
Concentration per Run 2	0.0547 ppm	2.0633 ppm	0.1231 ppm	1.0631 ppm	2.0519 ppm	0.0524 ppm	10.4096 ppm
Concentration per Run 3	0.0536 ppm	2.0476 ppm	0.1230 ppm	1.0595 ppm	2.0375 ppm	0.0523 ppm	10.4208 ppm
Concentration RSD	1.3 %	0.4 %	0.6 %	0.5 %	0.7 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0583 ppm	0.5412 ppm	0.2132 ppm	0.2713 ppm	1.0620 ppm	10.6862 ppm	0.0003 ppm
Concentration per Run 1	0.0589 ppm	0.5468 ppm	0.2148 ppm	0.2736 ppm	1.0685 ppm	10.6516 ppm	0.0000 ppm
Concentration per Run 2	0.0584 ppm	0.5409 ppm	0.2135 ppm	0.2725 ppm	1.0630 ppm	10.7862 ppm	0.0003 ppm
Concentration per Run 3	0.0576 ppm	0.5360 ppm	0.2111 ppm	0.2679 ppm	1.0544 ppm	10.6208 ppm	0.0006 ppm
Concentration RSD	1.1 %	1.0 %	0.9 %	1.1 %	0.7 %	0.8 %	118.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7082 ppm	0.5146 ppm	1.0164 ppm	10.5402 ppm	0.5441 ppm	0.5580 ppm	0.4587 ppm
Concentration per Run 1	10.8163 ppm	0.5158 ppm	1.0102 ppm	10.6100 ppm	0.5509 ppm	0.5609 ppm	0.4532 ppm
Concentration per Run 2	10.7018 ppm	0.5152 ppm	1.0168 ppm	10.5360 ppm	0.5410 ppm	0.5576 ppm	0.4592 ppm
Concentration per Run 3	10.6066 ppm	0.5127 ppm	1.0220 ppm	10.4748 ppm	0.5403 ppm	0.5555 ppm	0.4636 ppm
Concentration RSD	1.0 %	0.3 %	0.6 %	0.6 %	1.1 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1241 ppm	1.1557 ppm	0.9505 ppm	1.0041 ppm	1.0952 ppm	0.1272 ppm	0.5387 ppm
Concentration per Run 1	0.1244 ppm	1.1664 ppm	0.9484 ppm	1.0123 ppm	1.1051 ppm	0.1277 ppm	0.5422 ppm
Concentration per Run 2	0.1222 ppm	1.1582 ppm	0.9512 ppm	1.0021 ppm	1.0960 ppm	0.1282 ppm	0.5391 ppm
Concentration per Run 3	0.1256 ppm	1.1425 ppm	0.9519 ppm	0.9979 ppm	1.0843 ppm	0.1257 ppm	0.5347 ppm
Concentration RSD	1.4 %	1.1 %	0.2 %	0.7 %	1.0 %	1.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5515 ppm	85.8926 %	101.1246 %	89.0461 %	99.6277 %	107.1183 %	99.4971 %
Concentration per Run 1	0.5592 ppm	85.2031 %	101.3269 %	88.7983 %	99.6679 %	107.6026 %	99.7224 %
Concentration per Run 2	0.5510 ppm	86.0303 %	101.2739 %	88.6737 %	99.8417 %	107.5238 %	98.8272 %
Concentration per Run 3	0.5442 ppm	86.4444 %	100.7731 %	89.6664 %	99.3736 %	106.2286 %	99.9419 %
Concentration RSD	1.4 %	0.7 %	0.3 %	0.6 %	0.2 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432633-02 WG1934555
Analysis started at: 6/17/2024 10:15:07 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0122 ppm	0.0016 ppm	0.0102 ppm	0.0265 ppm	0.0000 ppm	15.7577 ppm
Concentration per Run 1	0.0001 ppm	0.0153 ppm	0.0020 ppm	0.0119 ppm	0.0263 ppm	0.0000 ppm	15.8023 ppm
Concentration per Run 2	0.0001 ppm	0.0030 ppm	0.0010 ppm	0.0094 ppm	0.0267 ppm	0.0000 ppm	15.7280 ppm
Concentration per Run 3	-0.0003 ppm	0.0183 ppm	0.0018 ppm	0.0091 ppm	0.0264 ppm	0.0000 ppm	15.7428 ppm
Concentration RSD	594.2 %	66.6 %	33.3 %	15.3 %	0.7 %	163.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0011 ppm	3.1748 ppm	0.9006 ppm	0.0017 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0011 ppm	3.1833 ppm	0.8959 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0011 ppm	3.1810 ppm	0.9045 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0010 ppm	3.1601 ppm	0.9013 ppm	0.0021 ppm
Concentration RSD	87.4 %	71.0 %	171.4 %	4.2 %	0.4 %	0.5 %	65.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8684 ppm	0.0485 ppm	0.0048 ppm	7.5545 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 1	5.9338 ppm	0.0484 ppm	0.0047 ppm	7.5734 ppm	0.0000 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run 2	5.8562 ppm	0.0483 ppm	0.0049 ppm	7.5442 ppm	0.0003 ppm	-0.0009 ppm	0.0034 ppm
Concentration per Run 3	5.8152 ppm	0.0486 ppm	0.0049 ppm	7.5458 ppm	-0.0006 ppm	0.0013 ppm	0.0004 ppm
Concentration RSD	1.0 %	0.3 %	2.9 %	0.2 %	733.4 %	6,520.6 %	88.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	9.9724 ppm	0.0021 ppm	0.0819 ppm	0.0006 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 1	0.0024 ppm	10.0619 ppm	0.0022 ppm	0.0820 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 2	-0.0017 ppm	9.9685 ppm	0.0023 ppm	0.0821 ppm	0.0007 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0015 ppm	9.8867 ppm	0.0019 ppm	0.0817 ppm	0.0004 ppm	-0.0029 ppm	-0.0003 ppm
Concentration RSD	298.3 %	0.9 %	8.6 %	0.3 %	25.0 %	94.7 %	27.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	85.2956 %	100.8935 %	89.6346 %	99.9846 %	107.8501 %	100.5166 %
Concentration per Run 1	0.0025 ppm	84.4360 %	101.2010 %	89.5436 %	100.0393 %	108.4979 %	100.6654 %
Concentration per Run 2	0.0023 ppm	85.4913 %	100.4481 %	89.6563 %	100.1117 %	107.1239 %	100.4817 %
Concentration per Run 3	0.0021 ppm	85.9596 %	101.0315 %	89.7039 %	99.8026 %	107.9286 %	100.4027 %
Concentration RSD	8.7 %	0.9 %	0.4 %	0.1 %	0.2 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432633-03 WG1934555
Analysis started at: 6/17/2024 10:19:07 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0089 ppm	-0.0010 ppm	0.0187 ppm	0.0794 ppm	0.0000 ppm	86.8129 ppm
Concentration per Run 1	0.0000 ppm	-0.0173 ppm	-0.0001 ppm	0.0183 ppm	0.0796 ppm	-0.0001 ppm	86.9236 ppm
Concentration per Run 2	0.0002 ppm	-0.0022 ppm	-0.0008 ppm	0.0183 ppm	0.0797 ppm	0.0000 ppm	86.8793 ppm
Concentration per Run 3	0.0004 ppm	-0.0073 ppm	-0.0020 ppm	0.0194 ppm	0.0789 ppm	0.0000 ppm	86.6357 ppm
Concentration RSD	89.4 %	85.7 %	98.0 %	3.5 %	0.6 %	215.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0029 ppm	0.0322 ppm	2.5252 ppm	-0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0029 ppm	0.0308 ppm	2.5392 ppm	-0.0031 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0030 ppm	0.0339 ppm	2.5212 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0027 ppm	0.0318 ppm	2.5151 ppm	0.0006 ppm
Concentration RSD	199.6 %	379.6 %	33.2 %	5.6 %	5.0 %	0.5 %	452.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.0816 ppm	0.0006 ppm	0.0010 ppm	2.8022 ppm	0.0004 ppm	0.0009 ppm	-0.0009 ppm
Concentration per Run 1	12.2843 ppm	0.0008 ppm	0.0008 ppm	2.8040 ppm	0.0009 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 2	12.0582 ppm	0.0005 ppm	0.0015 ppm	2.8131 ppm	0.0006 ppm	0.0022 ppm	-0.0016 ppm
Concentration per Run 3	11.9022 ppm	0.0005 ppm	0.0008 ppm	2.7895 ppm	-0.0003 ppm	-0.0001 ppm	-0.0017 ppm
Concentration RSD	1.6 %	26.8 %	40.6 %	0.4 %	150.3 %	136.6 %	148.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0034 ppm	5.8639 ppm	-0.0004 ppm	0.2810 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0056 ppm	5.9251 ppm	-0.0015 ppm	0.2799 ppm	-0.0005 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	-0.0023 ppm	5.8553 ppm	0.0007 ppm	0.2836 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	-0.0025 ppm	5.8112 ppm	-0.0004 ppm	0.2795 ppm	-0.0007 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	54.3 %	1.0 %	299.0 %	0.8 %	48.1 %	663.5 %	40.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	83.3128 %	98.8042 %	86.8463 %	99.4849 %	107.2005 %	99.4018 %
Concentration per Run 1	0.0024 ppm	82.0739 %	98.6611 %	86.2206 %	99.1214 %	107.2905 %	99.4234 %
Concentration per Run 2	0.0020 ppm	83.6240 %	98.3168 %	86.9211 %	99.7529 %	106.7117 %	99.5651 %
Concentration per Run 3	0.0021 ppm	84.2405 %	99.4346 %	87.3972 %	99.5803 %	107.5994 %	99.2168 %
Concentration RSD	10.2 %	1.3 %	0.6 %	0.7 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432633-01 WG1934555
Analysis started at: 6/17/2024 10:23:08 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0024 ppm	0.0000 ppm	0.0190 ppm	0.0335 ppm	0.0000 ppm	35.4566 ppm
Concentration per Run 1	-0.0001 ppm	-0.0031 ppm	-0.0003 ppm	0.0194 ppm	0.0335 ppm	0.0000 ppm	35.5127 ppm
Concentration per Run 2	0.0008 ppm	-0.0033 ppm	0.0002 ppm	0.0191 ppm	0.0335 ppm	0.0000 ppm	35.4634 ppm
Concentration per Run 3	0.0000 ppm	-0.0009 ppm	0.0002 ppm	0.0186 ppm	0.0334 ppm	0.0000 ppm	35.3937 ppm
Concentration RSD	246.4 %	55.0 %	1,152.2 %	2.2 %	0.3 %	105.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0013 ppm	0.0036 ppm	0.0251 ppm	1.4627 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0014 ppm	0.0034 ppm	0.0247 ppm	1.4884 ppm	-0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0041 ppm	0.0254 ppm	1.4511 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0009 ppm	0.0033 ppm	0.0251 ppm	1.4485 ppm	-0.0013 ppm
Concentration RSD	330.6 %	70.5 %	26.5 %	11.5 %	1.3 %	1.5 %	89.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8143 ppm	0.0016 ppm	0.0006 ppm	4.3274 ppm	0.0007 ppm	0.0008 ppm	-0.0026 ppm
Concentration per Run 1	10.9449 ppm	0.0017 ppm	0.0006 ppm	4.3504 ppm	0.0004 ppm	0.0026 ppm	-0.0025 ppm
Concentration per Run 2	10.8111 ppm	0.0016 ppm	0.0005 ppm	4.3068 ppm	0.0006 ppm	-0.0005 ppm	-0.0043 ppm
Concentration per Run 3	10.6869 ppm	0.0016 ppm	0.0008 ppm	4.3249 ppm	0.0010 ppm	0.0003 ppm	-0.0009 ppm
Concentration RSD	1.2 %	4.7 %	21.1 %	0.5 %	44.5 %	198.7 %	66.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	3.0828 ppm	-0.0004 ppm	0.0778 ppm	-0.0001 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0007 ppm	3.1085 ppm	-0.0002 ppm	0.0784 ppm	-0.0005 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0012 ppm	3.0778 ppm	-0.0007 ppm	0.0772 ppm	0.0001 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	3.0622 ppm	-0.0004 ppm	0.0779 ppm	0.0000 ppm	-0.0008 ppm	-0.0003 ppm
Concentration RSD	93.7 %	0.8 %	61.2 %	0.8 %	250.5 %	33.3 %	738.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0064 ppm	84.3050 %	100.0583 %	88.3682 %	99.7613 %	107.7402 %	99.8617 %
Concentration per Run 1	0.0062 ppm	83.2096 %	100.6376 %	88.2372 %	99.3332 %	109.0182 %	100.2173 %
Concentration per Run 2	0.0065 ppm	84.3465 %	100.3518 %	88.3188 %	99.7394 %	107.5690 %	99.7126 %
Concentration per Run 3	0.0066 ppm	85.3591 %	99.1854 %	88.5485 %	100.2112 %	106.6333 %	99.6553 %
Concentration RSD	2.6 %	1.3 %	0.8 %	0.2 %	0.4 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934555-3 WG1934555
Analysis started at: 6/17/2024 10:27:07 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0554 ppm	2.0656 ppm	0.1260 ppm	1.1060 ppm	2.0853 ppm	0.0532 ppm	44.8616 ppm
Concentration per Run 1	0.0560 ppm	2.0648 ppm	0.1270 ppm	1.1136 ppm	2.0931 ppm	0.0531 ppm	44.8267 ppm
Concentration per Run 2	0.0558 ppm	2.0607 ppm	0.1276 ppm	1.1036 ppm	2.0839 ppm	0.0533 ppm	44.9140 ppm
Concentration per Run 3	0.0545 ppm	2.0713 ppm	0.1234 ppm	1.1009 ppm	2.0788 ppm	0.0533 ppm	44.8442 ppm
Concentration RSD	1.4 %	0.3 %	1.8 %	0.6 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0585 ppm	0.5369 ppm	0.2152 ppm	0.2761 ppm	1.0553 ppm	12.0975 ppm	0.0005 ppm
Concentration per Run 1	0.0590 ppm	0.5413 ppm	0.2177 ppm	0.2785 ppm	1.0533 ppm	12.1011 ppm	0.0003 ppm
Concentration per Run 2	0.0585 ppm	0.5363 ppm	0.2145 ppm	0.2769 ppm	1.0535 ppm	12.0671 ppm	0.0001 ppm
Concentration per Run 3	0.0581 ppm	0.5330 ppm	0.2133 ppm	0.2730 ppm	1.0592 ppm	12.1242 ppm	0.0011 ppm
Concentration RSD	0.8 %	0.8 %	1.0 %	1.0 %	0.3 %	0.2 %	110.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.2387 ppm	0.5169 ppm	1.0251 ppm	14.6593 ppm	0.5418 ppm	0.5553 ppm	0.5125 ppm
Concentration per Run 1	21.5085 ppm	0.5164 ppm	1.0158 ppm	14.6514 ppm	0.5480 ppm	0.5599 ppm	0.5110 ppm
Concentration per Run 2	21.2021 ppm	0.5161 ppm	1.0235 ppm	14.7042 ppm	0.5412 ppm	0.5544 ppm	0.5133 ppm
Concentration per Run 3	21.0054 ppm	0.5182 ppm	1.0360 ppm	14.6224 ppm	0.5361 ppm	0.5516 ppm	0.5132 ppm
Concentration RSD	1.2 %	0.2 %	1.0 %	0.3 %	1.1 %	0.8 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1286 ppm	4.2674 ppm	0.9492 ppm	1.0817 ppm	1.1033 ppm	0.1269 ppm	0.5474 ppm
Concentration per Run 1	0.1310 ppm	4.3021 ppm	0.9442 ppm	1.0811 ppm	1.1147 ppm	0.1268 ppm	0.5507 ppm
Concentration per Run 2	0.1276 ppm	4.2677 ppm	0.9510 ppm	1.0838 ppm	1.1001 ppm	0.1284 ppm	0.5462 ppm
Concentration per Run 3	0.1273 ppm	4.2324 ppm	0.9525 ppm	1.0803 ppm	1.0951 ppm	0.1255 ppm	0.5455 ppm
Concentration RSD	1.6 %	0.8 %	0.5 %	0.2 %	0.9 %	1.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5509 ppm	84.3525 %	99.6986 %	86.7746 %	98.0008 %	105.9581 %	97.6494 %
Concentration per Run 1	0.5571 ppm	83.3952 %	100.0313 %	86.1275 %	97.6521 %	106.3959 %	97.6809 %
Concentration per Run 2	0.5525 ppm	84.4264 %	99.8353 %	86.7424 %	98.2357 %	106.0298 %	97.3963 %
Concentration per Run 3	0.5430 ppm	85.2359 %	99.2292 %	87.4538 %	98.1145 %	105.4487 %	97.8711 %
Concentration RSD	1.3 %	1.1 %	0.4 %	0.8 %	0.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934555-4 WG1934555
Analysis started at: 6/17/2024 10:31:07 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0047 ppm	-0.0006 ppm	0.0172 ppm	0.0331 ppm	0.0000 ppm	35.2661 ppm
Concentration per Run 1	0.0000 ppm	-0.0128 ppm	-0.0014 ppm	0.0178 ppm	0.0331 ppm	0.0000 ppm	35.3028 ppm
Concentration per Run 2	0.0002 ppm	0.0037 ppm	-0.0009 ppm	0.0158 ppm	0.0331 ppm	0.0000 ppm	35.2899 ppm
Concentration per Run 3	0.0005 ppm	-0.0051 ppm	0.0004 ppm	0.0179 ppm	0.0332 ppm	0.0000 ppm	35.2058 ppm
Concentration RSD	123.1 %	174.0 %	141.8 %	7.1 %	0.1 %	378.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0030 ppm	0.0247 ppm	1.4520 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0009 ppm	0.0031 ppm	0.0243 ppm	1.4536 ppm	-0.0029 ppm
Concentration per Run 2	-0.0002 ppm	-0.0006 ppm	0.0012 ppm	0.0033 ppm	0.0251 ppm	1.4615 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0027 ppm	0.0246 ppm	1.4409 ppm	0.0000 ppm
Concentration RSD	247.6 %	388.8 %	24.7 %	9.4 %	1.6 %	0.7 %	905.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6619 ppm	0.0016 ppm	0.0052 ppm	4.2531 ppm	0.0009 ppm	0.0010 ppm	-0.0013 ppm
Concentration per Run 1	10.7446 ppm	0.0018 ppm	0.0054 ppm	4.2575 ppm	0.0010 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 2	10.6656 ppm	0.0017 ppm	0.0052 ppm	4.2648 ppm	0.0008 ppm	-0.0003 ppm	-0.0018 ppm
Concentration per Run 3	10.5756 ppm	0.0015 ppm	0.0051 ppm	4.2371 ppm	0.0009 ppm	0.0019 ppm	-0.0018 ppm
Concentration RSD	0.8 %	9.0 %	3.0 %	0.3 %	11.9 %	116.6 %	70.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	3.0371 ppm	0.0018 ppm	0.0770 ppm	-0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	3.0536 ppm	0.0019 ppm	0.0777 ppm	-0.0002 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 2	-0.0012 ppm	3.0427 ppm	0.0013 ppm	0.0769 ppm	0.0000 ppm	-0.0021 ppm	-0.0005 ppm
Concentration per Run 3	0.0015 ppm	3.0148 ppm	0.0023 ppm	0.0763 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration RSD	1,937.9 %	0.7 %	25.6 %	0.9 %	63.7 %	141.1 %	466.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	83.9990 %	99.0615 %	87.9509 %	99.4336 %	107.1578 %	99.3949 %
Concentration per Run 1	0.0046 ppm	83.5092 %	98.6578 %	87.9050 %	99.8551 %	107.1498 %	99.9661 %
Concentration per Run 2	0.0044 ppm	83.8779 %	99.2422 %	88.0294 %	99.1792 %	107.3743 %	99.2695 %
Concentration per Run 3	0.0042 ppm	84.6101 %	99.2844 %	87.9184 %	99.2666 %	106.9492 %	98.9490 %
Concentration RSD	4.9 %	0.7 %	0.4 %	0.1 %	0.4 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934555-5 WG1934555
Analysis started at: 6/17/2024 10:35:06 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	1.8520 ppm	0.1152 ppm	1.0087 ppm	1.8932 ppm	0.0476 ppm	43.6666 ppm
Concentration per Run 1	0.0502 ppm	1.8538 ppm	0.1146 ppm	1.0145 ppm	1.9056 ppm	0.0480 ppm	43.7820 ppm
Concentration per Run 2	0.0504 ppm	1.8622 ppm	0.1162 ppm	1.0088 ppm	1.8926 ppm	0.0475 ppm	43.6177 ppm
Concentration per Run 3	0.0498 ppm	1.8401 ppm	0.1148 ppm	1.0028 ppm	1.8815 ppm	0.0474 ppm	43.6001 ppm
Concentration RSD	0.6 %	0.6 %	0.8 %	0.6 %	0.6 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0528 ppm	0.4830 ppm	0.1932 ppm	0.2494 ppm	0.9486 ppm	11.2415 ppm	-0.0010 ppm
Concentration per Run 1	0.0532 ppm	0.4867 ppm	0.1942 ppm	0.2517 ppm	0.9506 ppm	11.2378 ppm	0.0014 ppm
Concentration per Run 2	0.0527 ppm	0.4834 ppm	0.1935 ppm	0.2488 ppm	0.9493 ppm	11.2980 ppm	-0.0045 ppm
Concentration per Run 3	0.0526 ppm	0.4789 ppm	0.1919 ppm	0.2476 ppm	0.9459 ppm	11.1885 ppm	0.0002 ppm
Concentration RSD	0.6 %	0.8 %	0.6 %	0.8 %	0.3 %	0.5 %	313.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.2066 ppm	0.4637 ppm	0.9375 ppm	13.7072 ppm	0.4878 ppm	0.5217 ppm	0.3670 ppm
Concentration per Run 1	20.4082 ppm	0.4648 ppm	0.9283 ppm	13.7720 ppm	0.4887 ppm	0.5236 ppm	0.3598 ppm
Concentration per Run 2	20.1776 ppm	0.4649 ppm	0.9383 ppm	13.6861 ppm	0.4900 ppm	0.5212 ppm	0.3685 ppm
Concentration per Run 3	20.0340 ppm	0.4614 ppm	0.9459 ppm	13.6636 ppm	0.4848 ppm	0.5204 ppm	0.3728 ppm
Concentration RSD	0.9 %	0.4 %	0.9 %	0.4 %	0.6 %	0.3 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1178 ppm	3.9577 ppm	0.8735 ppm	0.9933 ppm	1.0087 ppm	0.1172 ppm	0.4930 ppm
Concentration per Run 1	0.1193 ppm	3.9826 ppm	0.8644 ppm	1.0014 ppm	1.0153 ppm	0.1171 ppm	0.4968 ppm
Concentration per Run 2	0.1169 ppm	3.9537 ppm	0.8731 ppm	0.9865 ppm	1.0087 ppm	0.1175 ppm	0.4925 ppm
Concentration per Run 3	0.1172 ppm	3.9369 ppm	0.8831 ppm	0.9920 ppm	1.0020 ppm	0.1170 ppm	0.4895 ppm
Concentration RSD	1.1 %	0.6 %	1.1 %	0.8 %	0.7 %	0.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4956 ppm	84.6713 %	100.3953 %	87.1412 %	98.6572 %	106.7219 %	98.3958 %
Concentration per Run 1	0.4985 ppm	83.5639 %	100.4159 %	86.7424 %	98.2146 %	107.0800 %	98.5775 %
Concentration per Run 2	0.4946 ppm	84.9007 %	99.7860 %	87.4278 %	98.9098 %	106.0605 %	98.6135 %
Concentration per Run 3	0.4936 ppm	85.5491 %	100.9841 %	87.2534 %	98.8471 %	107.0252 %	97.9964 %
Concentration RSD	0.5 %	1.2 %	0.6 %	0.4 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: WG1934555-6d5 WG1934555
Analysis started at: 6/17/2024 10:39:06 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0010 ppm	0.0004 ppm	0.0043 ppm	0.0072 ppm	0.0000 ppm	7.3836 ppm
Concentration per Run 1	0.0000 ppm	-0.0089 ppm	0.0008 ppm	0.0044 ppm	0.0072 ppm	0.0000 ppm	7.4149 ppm
Concentration per Run 2	-0.0004 ppm	0.0113 ppm	0.0001 ppm	0.0041 ppm	0.0071 ppm	-0.0001 ppm	7.3818 ppm
Concentration per Run 3	-0.0001 ppm	-0.0052 ppm	0.0004 ppm	0.0045 ppm	0.0073 ppm	0.0000 ppm	7.3541 ppm
Concentration RSD	139.5 %	1,116.3 %	78.1 %	4.8 %	1.4 %	234.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.0073 ppm	0.3146 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0013 ppm	0.0067 ppm	0.3070 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0014 ppm	0.0068 ppm	0.3110 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0018 ppm	0.0083 ppm	0.3257 ppm	0.0000 ppm
Concentration RSD	81.5 %	55.7 %	201.1 %	17.1 %	12.4 %	3.1 %	186.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.2377 ppm	0.0006 ppm	0.0053 ppm	0.9057 ppm	0.0003 ppm	0.0002 ppm	0.0037 ppm
Concentration per Run 1	2.2531 ppm	0.0006 ppm	0.0052 ppm	0.9185 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	2.2435 ppm	0.0007 ppm	0.0056 ppm	0.9009 ppm	-0.0001 ppm	0.0004 ppm	0.0049 ppm
Concentration per Run 3	2.2165 ppm	0.0004 ppm	0.0051 ppm	0.8976 ppm	0.0004 ppm	-0.0001 ppm	0.0060 ppm
Concentration RSD	0.8 %	30.0 %	4.4 %	1.2 %	123.5 %	125.0 %	86.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.6180 ppm	0.0040 ppm	0.0162 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	-0.0013 ppm	0.6246 ppm	0.0041 ppm	0.0161 ppm	-0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.6168 ppm	0.0041 ppm	0.0162 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.6125 ppm	0.0038 ppm	0.0162 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm
Concentration RSD	126.7 %	1.0 %	4.0 %	0.4 %	177.4 %	62.5 %	46.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	84.7943 %	100.0093 %	89.7985 %	99.9810 %	107.8400 %	101.0041 %
Concentration per Run 1	0.0023 ppm	84.1537 %	99.0551 %	89.3990 %	100.1132 %	107.1318 %	101.3653 %
Concentration per Run 2	0.0021 ppm	84.8404 %	99.7282 %	89.9374 %	99.9750 %	107.5114 %	101.1767 %
Concentration per Run 3	0.0024 ppm	85.3890 %	101.2444 %	90.0590 %	99.8548 %	108.8769 %	100.4704 %
Concentration RSD	6.6 %	0.7 %	1.1 %	0.4 %	0.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 10:43:05 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4956 ppm	0.4811 ppm	0.4723 ppm	0.4937 ppm	0.4978 ppm	0.5131 ppm	0.4916 ppm
Concentration per Run 1	0.4942 ppm	0.4925 ppm	0.4727 ppm	0.4934 ppm	0.4997 ppm	0.5132 ppm	0.4922 ppm
Concentration per Run 2	0.4957 ppm	0.4797 ppm	0.4698 ppm	0.4952 ppm	0.4945 ppm	0.5110 ppm	0.4922 ppm
Concentration per Run 3	0.4968 ppm	0.4712 ppm	0.4745 ppm	0.4925 ppm	0.4993 ppm	0.5152 ppm	0.4903 ppm
Recovery Percentage 1	99.112 %	96.228 %	94.468 %	98.742 %	99.564 %	102.627 %	98.316 %
Concentration RSD	0.3 %	2.2 %	0.5 %	0.3 %	0.6 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5044 ppm	0.5110 ppm	0.4957 ppm	0.4929 ppm	0.5065 ppm	5.0866 ppm	0.6097 ppm
Concentration per Run 1	0.5046 ppm	0.5114 ppm	0.4966 ppm	0.4912 ppm	0.5085 ppm	5.1419 ppm	0.6175 ppm
Concentration per Run 2	0.5043 ppm	0.5098 ppm	0.4958 ppm	0.4939 ppm	0.5022 ppm	5.0723 ppm	0.6088 ppm
Concentration per Run 3	0.5042 ppm	0.5119 ppm	0.4947 ppm	0.4937 ppm	0.5087 ppm	5.0456 ppm	0.6028 ppm
Recovery Percentage 1	100.875 %	102.208 %	99.144 %	98.585 %	101.298 %	101.731 %	121.937 %
Concentration RSD	0.0 %	0.2 %	0.2 %	0.3 %	0.7 %	1.0 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4918 ppm	0.4910 ppm	0.5008 ppm	9.9081 ppm	0.5100 ppm	0.4949 ppm	0.5056 ppm
Concentration per Run 1	0.4918 ppm	0.4920 ppm	0.4927 ppm	9.9077 ppm	0.5105 ppm	0.4954 ppm	0.5059 ppm
Concentration per Run 2	0.4942 ppm	0.4897 ppm	0.5025 ppm	9.9108 ppm	0.5098 ppm	0.4952 ppm	0.5052 ppm
Concentration per Run 3	0.4896 ppm	0.4914 ppm	0.5072 ppm	9.9057 ppm	0.5098 ppm	0.4943 ppm	0.5058 ppm
Recovery Percentage 1	98.369 %	98.210 %	100.161 %	99.081 %	102.002 %	98.989 %	101.127 %
Concentration RSD	0.5 %	0.2 %	1.5 %	0.0 %	0.1 %	0.1 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4822 ppm	5.5270 ppm	0.4836 ppm	0.4921 ppm	0.5036 ppm	0.4865 ppm	0.4955 ppm
Concentration per Run 1	0.4800 ppm	5.5048 ppm	0.4839 ppm	0.4903 ppm	0.5043 ppm	0.4833 ppm	0.4946 ppm
Concentration per Run 2	0.4829 ppm	5.5440 ppm	0.4860 ppm	0.4903 ppm	0.5039 ppm	0.4861 ppm	0.4955 ppm
Concentration per Run 3	0.4838 ppm	5.5322 ppm	0.4809 ppm	0.4958 ppm	0.5025 ppm	0.4900 ppm	0.4963 ppm
Recovery Percentage 1	96.443 %	105.276 %	96.719 %	98.428 %	100.715 %	97.292 %	99.093 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.6 %	0.2 %	0.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5053 ppm	90.1560 %	102.2580 %	92.3436 %	98.5340 %	105.8261 %	98.7140 %
Concentration per Run 1	0.5059 ppm	89.8545 %	102.4333 %	91.9179 %	98.0749 %	106.1375 %	98.4890 %
Concentration per Run 2	0.5061 ppm	90.2977 %	102.6430 %	92.7642 %	98.8203 %	106.2533 %	98.9780 %
Concentration per Run 3	0.5040 ppm	90.3159 %	101.6976 %	92.3488 %	98.7068 %	105.0874 %	98.6749 %
Recovery Percentage 1	101.069 %						
Concentration RSD	0.2 %	0.3 %	0.5 %	0.5 %	0.4 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 10:47:04 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0019 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0063 ppm	0.0012 ppm	0.0005 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0002 ppm	-0.0022 ppm	0.0001 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0027 ppm	-0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0020 ppm
Recovery Percentage 1	0.603 %	-1.923 %	8.827 %	2.210 %	1.666 %	0.960 %	-0.419 %
Concentration RSD	341.0 %	234.8 %	307.6 %	42.8 %	18.9 %	98.2 %	351.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0013 ppm	0.0064 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0016 ppm	0.0055 ppm	0.0043 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0015 ppm	0.0059 ppm	0.0131 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0079 ppm	-0.0172 ppm	-0.0010 ppm
Recovery Percentage 1	-0.058 %	1.894 %	-2.425 %	13.110 %	12.794 %	0.004 %	-2.594 %
Concentration RSD	354.0 %	84.6 %	22.3 %	30.7 %	20.0 %	17,642.6 %	730.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0002 ppm	0.0023 ppm	0.0172 ppm	-0.0002 ppm	0.0007 ppm	-0.0010 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.0023 ppm	0.0162 ppm	0.0002 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 2	-0.0031 ppm	0.0002 ppm	0.0025 ppm	0.0156 ppm	-0.0006 ppm	0.0009 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0021 ppm	0.0199 ppm	0.0000 ppm	0.0008 ppm	-0.0003 ppm
Recovery Percentage 1	-1.229 %	1.567 %	4.629 %	0.862 %	-0.625 %	7.439 %	-1.989 %
Concentration RSD	134.7 %	130.6 %	8.8 %	13.7 %	274.2 %	24.6 %	74.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	-0.0068 ppm	0.0022 ppm	0.0000 ppm	-0.0003 ppm	-0.0011 ppm	-0.0002 ppm
Concentration per Run 1	-0.0036 ppm	-0.0054 ppm	0.0024 ppm	0.0002 ppm	-0.0002 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	-0.0070 ppm	0.0024 ppm	-0.0001 ppm	-0.0003 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 3	-0.0016 ppm	-0.0080 ppm	0.0018 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0004 ppm
Recovery Percentage 1	-26.036 %	-1.356 %	4.427 %	0.263 %	-2.580 %	-5.674 %	-2.217 %
Concentration RSD	39.4 %	19.3 %	16.9 %	484.9 %	34.1 %	57.7 %	55.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	84.3950 %	97.8982 %	88.9536 %	99.4079 %	106.3749 %	99.6477 %
Concentration per Run 1	0.0000 ppm	83.7105 %	97.3266 %	88.6146 %	99.6041 %	106.2137 %	99.7851 %
Concentration per Run 2	0.0000 ppm	84.6087 %	98.5495 %	89.1647 %	99.4358 %	106.7811 %	99.8097 %
Concentration per Run 3	0.0000 ppm	84.8659 %	97.8184 %	89.0816 %	99.1837 %	106.1297 %	99.3484 %
Recovery Percentage 1	-0.078 %						
Concentration RSD	934.8 %	0.7 %	0.6 %	0.3 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432664-01 WG1934555
Analysis started at: 6/17/2024 10:52:42 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0084 ppm	0.0017 ppm	0.0089 ppm	0.0061 ppm	0.0000 ppm	11.4468 ppm
Concentration per Run 1	-0.0002 ppm	0.0169 ppm	0.0021 ppm	0.0080 ppm	0.0062 ppm	0.0000 ppm	11.4199 ppm
Concentration per Run 2	0.0003 ppm	0.0036 ppm	0.0019 ppm	0.0094 ppm	0.0061 ppm	0.0000 ppm	11.4614 ppm
Concentration per Run 3	0.0002 ppm	0.0047 ppm	0.0011 ppm	0.0094 ppm	0.0060 ppm	0.0000 ppm	11.4591 ppm
Concentration RSD	280.8 %	87.5 %	33.0 %	8.7 %	1.7 %	214.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0030 ppm	0.2911 ppm	1.0378 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	-0.0005 ppm	0.0031 ppm	0.2912 ppm	1.0361 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0031 ppm	0.2918 ppm	1.0481 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0028 ppm	0.2903 ppm	1.0292 ppm	0.0014 ppm
Concentration RSD	48.7 %	267.6 %	151.6 %	6.6 %	0.3 %	0.9 %	601.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.4677 ppm	0.0131 ppm	0.0007 ppm	26.5838 ppm	0.0003 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 1	2.4814 ppm	0.0131 ppm	0.0006 ppm	26.6012 ppm	0.0002 ppm	0.0007 ppm	0.0022 ppm
Concentration per Run 2	2.4677 ppm	0.0130 ppm	0.0010 ppm	26.6232 ppm	0.0005 ppm	0.0010 ppm	-0.0046 ppm
Concentration per Run 3	2.4539 ppm	0.0131 ppm	0.0006 ppm	26.5270 ppm	0.0002 ppm	0.0006 ppm	-0.0002 ppm
Concentration RSD	0.6 %	0.4 %	32.7 %	0.2 %	70.1 %	32.9 %	398.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	0.4657 ppm	-0.0005 ppm	0.0609 ppm	-0.0001 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 1	-0.0018 ppm	0.4701 ppm	-0.0008 ppm	0.0609 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.4629 ppm	-0.0005 ppm	0.0610 ppm	0.0000 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	0.4640 ppm	-0.0003 ppm	0.0608 ppm	-0.0003 ppm	-0.0016 ppm	-0.0002 ppm
Concentration RSD	225.6 %	0.8 %	45.5 %	0.2 %	327.3 %	49.5 %	5,314.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0059 ppm	86.5470 %	100.7798 %	90.3923 %	99.4278 %	106.5562 %	99.4230 %
Concentration per Run 1	0.0060 ppm	85.6679 %	100.4645 %	90.0051 %	99.4608 %	106.1597 %	99.4874 %
Concentration per Run 2	0.0059 ppm	86.7805 %	100.5341 %	90.2460 %	99.5334 %	106.5213 %	99.3301 %
Concentration per Run 3	0.0059 ppm	87.1924 %	101.3409 %	90.9256 %	99.2892 %	106.9875 %	99.4516 %
Concentration RSD	0.8 %	0.9 %	0.5 %	0.5 %	0.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432664-02 WG1934555
Analysis started at: 6/17/2024 10:56:46 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0214 ppm	0.0012 ppm	0.0093 ppm	0.0053 ppm	0.0000 ppm	11.7836 ppm
Concentration per Run 1	-0.0001 ppm	0.0134 ppm	0.0007 ppm	0.0098 ppm	0.0053 ppm	0.0000 ppm	11.8036 ppm
Concentration per Run 2	-0.0001 ppm	0.0236 ppm	0.0008 ppm	0.0093 ppm	0.0053 ppm	0.0000 ppm	11.8075 ppm
Concentration per Run 3	0.0005 ppm	0.0273 ppm	0.0021 ppm	0.0090 ppm	0.0054 ppm	0.0000 ppm	11.7396 ppm
Concentration RSD	345.8 %	33.6 %	66.8 %	4.2 %	0.8 %	347.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.4518 ppm	1.3475 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0033 ppm	0.4536 ppm	1.3572 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0030 ppm	0.4501 ppm	1.3608 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0036 ppm	0.4516 ppm	1.3244 ppm	-0.0014 ppm
Concentration RSD	97.5 %	3,983.5 %	41.3 %	8.6 %	0.4 %	1.5 %	888.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.6691 ppm	0.0075 ppm	0.0007 ppm	28.0623 ppm	0.0004 ppm	0.0012 ppm	-0.0017 ppm
Concentration per Run 1	2.6868 ppm	0.0073 ppm	0.0011 ppm	28.0597 ppm	0.0007 ppm	0.0010 ppm	-0.0031 ppm
Concentration per Run 2	2.6707 ppm	0.0076 ppm	0.0006 ppm	28.0946 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	2.6498 ppm	0.0075 ppm	0.0004 ppm	28.0325 ppm	0.0000 ppm	0.0025 ppm	-0.0022 ppm
Concentration RSD	0.7 %	2.7 %	48.8 %	0.1 %	91.0 %	105.5 %	98.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	0.3285 ppm	-0.0003 ppm	0.0622 ppm	0.0003 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 1	-0.0021 ppm	0.3313 ppm	-0.0010 ppm	0.0623 ppm	0.0001 ppm	-0.0006 ppm	0.0008 ppm
Concentration per Run 2	0.0004 ppm	0.3260 ppm	0.0002 ppm	0.0620 ppm	0.0005 ppm	-0.0016 ppm	0.0006 ppm
Concentration per Run 3	-0.0011 ppm	0.3282 ppm	-0.0001 ppm	0.0622 ppm	0.0005 ppm	-0.0002 ppm	0.0005 ppm
Concentration RSD	138.8 %	0.8 %	220.9 %	0.3 %	61.4 %	88.3 %	30.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0079 ppm	86.5382 %	101.7597 %	89.8924 %	99.3102 %	106.9744 %	99.0652 %
Concentration per Run 1	0.0078 ppm	85.8174 %	102.1714 %	89.4253 %	99.4573 %	107.8640 %	98.9199 %
Concentration per Run 2	0.0080 ppm	86.5961 %	101.3611 %	90.1212 %	99.1646 %	106.7017 %	99.3202 %
Concentration per Run 3	0.0079 ppm	87.2010 %	101.7468 %	90.1307 %	99.3086 %	106.3577 %	98.9555 %
Concentration RSD	1.1 %	0.8 %	0.4 %	0.5 %	0.1 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432664-03 WG1934555
Analysis started at: 6/17/2024 11:00:45 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0101 ppm	0.0017 ppm	0.0081 ppm	0.0021 ppm	0.0000 ppm	7.5315 ppm
Concentration per Run 1	0.0004 ppm	0.0099 ppm	0.0011 ppm	0.0080 ppm	0.0021 ppm	0.0000 ppm	7.5280 ppm
Concentration per Run 2	-0.0002 ppm	0.0056 ppm	0.0009 ppm	0.0084 ppm	0.0021 ppm	0.0000 ppm	7.5189 ppm
Concentration per Run 3	0.0001 ppm	0.0148 ppm	0.0030 ppm	0.0080 ppm	0.0019 ppm	0.0000 ppm	7.5475 ppm
Concentration RSD	276.9 %	45.7 %	69.2 %	2.8 %	5.5 %	527.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0006 ppm	0.0018 ppm	0.0134 ppm	1.3331 ppm	0.0005 ppm
Concentration per Run 1	-0.0002 ppm	0.0004 ppm	-0.0007 ppm	0.0019 ppm	0.0121 ppm	1.3927 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0006 ppm	0.0018 ppm	0.0142 ppm	1.3061 ppm	0.0016 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0015 ppm	0.0139 ppm	1.3005 ppm	-0.0017 ppm
Concentration RSD	124.5 %	470.7 %	16.8 %	11.6 %	8.3 %	3.9 %	372.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1056 ppm	0.0007 ppm	0.0001 ppm	16.6545 ppm	0.0006 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run 1	2.1188 ppm	0.0006 ppm	0.0000 ppm	16.6706 ppm	0.0008 ppm	0.0006 ppm	0.0048 ppm
Concentration per Run 2	2.1067 ppm	0.0006 ppm	-0.0002 ppm	16.6588 ppm	0.0003 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 3	2.0913 ppm	0.0008 ppm	0.0004 ppm	16.6341 ppm	0.0006 ppm	0.0014 ppm	-0.0005 ppm
Concentration RSD	0.7 %	19.0 %	515.1 %	0.1 %	47.0 %	85.3 %	117.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	0.1652 ppm	-0.0005 ppm	0.0381 ppm	-0.0002 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0008 ppm	0.1638 ppm	-0.0006 ppm	0.0381 ppm	-0.0001 ppm	-0.0006 ppm	-0.0005 ppm
Concentration per Run 2	0.0008 ppm	0.1663 ppm	-0.0004 ppm	0.0380 ppm	-0.0005 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	0.1655 ppm	-0.0006 ppm	0.0381 ppm	-0.0001 ppm	-0.0020 ppm	-0.0001 ppm
Concentration RSD	208.1 %	0.8 %	27.4 %	0.1 %	98.4 %	96.2 %	141.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0142 ppm	86.5599 %	101.5608 %	90.0972 %	99.4427 %	106.9049 %	99.6774 %
Concentration per Run 1	0.0142 ppm	86.1397 %	101.7039 %	89.7353 %	99.7187 %	107.2199 %	99.5972 %
Concentration per Run 2	0.0144 ppm	86.3313 %	101.9830 %	90.4172 %	99.5766 %	107.0002 %	99.8975 %
Concentration per Run 3	0.0140 ppm	87.2087 %	100.9955 %	90.1392 %	99.0328 %	106.4945 %	99.5377 %
Concentration RSD	1.4 %	0.7 %	0.5 %	0.4 %	0.4 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432664-04 WG1934555
Analysis started at: 6/17/2024 11:04:45 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0161 ppm	0.0011 ppm	0.0091 ppm	0.0026 ppm	0.0000 ppm	7.4777 ppm
Concentration per Run 1	0.0001 ppm	0.0128 ppm	0.0015 ppm	0.0094 ppm	0.0026 ppm	0.0000 ppm	7.4732 ppm
Concentration per Run 2	0.0001 ppm	0.0102 ppm	0.0007 ppm	0.0087 ppm	0.0026 ppm	-0.0001 ppm	7.4856 ppm
Concentration per Run 3	-0.0003 ppm	0.0255 ppm	0.0013 ppm	0.0092 ppm	0.0027 ppm	0.0000 ppm	7.4744 ppm
Concentration RSD	1,599.6 %	50.9 %	34.3 %	4.0 %	1.4 %	184.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0017 ppm	0.0227 ppm	1.2711 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0016 ppm	0.0242 ppm	1.2776 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0017 ppm	0.0227 ppm	1.2847 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0212 ppm	1.2510 ppm	0.0011 ppm
Concentration RSD	55.0 %	457.8 %	81.7 %	5.4 %	6.8 %	1.4 %	12.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.0806 ppm	0.0008 ppm	0.0003 ppm	16.0974 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	2.1005 ppm	0.0009 ppm	0.0002 ppm	16.0912 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 2	2.0763 ppm	0.0006 ppm	0.0005 ppm	16.1231 ppm	-0.0003 ppm	0.0005 ppm	-0.0019 ppm
Concentration per Run 3	2.0651 ppm	0.0009 ppm	0.0003 ppm	16.0779 ppm	0.0000 ppm	-0.0002 ppm	0.0024 ppm
Concentration RSD	0.9 %	18.6 %	47.9 %	0.1 %	154.3 %	184.6 %	2,543.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.1609 ppm	-0.0011 ppm	0.0373 ppm	0.0000 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 1	-0.0030 ppm	0.1616 ppm	-0.0018 ppm	0.0373 ppm	0.0001 ppm	-0.0026 ppm	-0.0003 ppm
Concentration per Run 2	-0.0020 ppm	0.1614 ppm	-0.0002 ppm	0.0374 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.0006 ppm	0.1598 ppm	-0.0014 ppm	0.0372 ppm	-0.0002 ppm	-0.0004 ppm	-0.0003 ppm
Concentration RSD	122.9 %	0.6 %	75.8 %	0.2 %	601.7 %	201.9 %	6.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0144 ppm	86.4889 %	100.6244 %	90.1170 %	99.5711 %	106.0682 %	99.5100 %
Concentration per Run 1	0.0146 ppm	85.6866 %	101.2221 %	89.7257 %	99.5293 %	106.8565 %	99.3943 %
Concentration per Run 2	0.0142 ppm	86.6644 %	99.6249 %	89.9841 %	99.9641 %	104.9143 %	99.6479 %
Concentration per Run 3	0.0143 ppm	87.1158 %	101.0262 %	90.6413 %	99.2200 %	106.4338 %	99.4878 %
Concentration RSD	1.7 %	0.8 %	0.9 %	0.5 %	0.4 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432664-05 WG1934555
Analysis started at: 6/17/2024 11:08:45 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0071 ppm	0.0005 ppm	0.0172 ppm	0.0289 ppm	0.0000 ppm	29.7936 ppm
Concentration per Run 1	0.0003 ppm	0.0010 ppm	0.0014 ppm	0.0160 ppm	0.0289 ppm	0.0000 ppm	29.8677 ppm
Concentration per Run 2	-0.0001 ppm	0.0122 ppm	-0.0007 ppm	0.0175 ppm	0.0289 ppm	-0.0001 ppm	29.8017 ppm
Concentration per Run 3	-0.0002 ppm	0.0081 ppm	0.0007 ppm	0.0180 ppm	0.0287 ppm	0.0000 ppm	29.7114 ppm
Concentration RSD	2,039.3 %	80.3 %	213.7 %	6.1 %	0.3 %	421.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0012 ppm	0.2167 ppm	3.6337 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0013 ppm	0.2152 ppm	3.6661 ppm	0.0057 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0011 ppm	0.2179 ppm	3.6351 ppm	0.0032 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0011 ppm	0.2170 ppm	3.6000 ppm	0.0024 ppm
Concentration RSD	107.1 %	272.7 %	152.6 %	7.8 %	0.6 %	0.9 %	45.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.7369 ppm	0.1133 ppm	0.0002 ppm	76.2347 ppm	0.0013 ppm	0.0008 ppm	-0.0016 ppm
Concentration per Run 1	6.7727 ppm	0.1139 ppm	-0.0002 ppm	76.4736 ppm	0.0014 ppm	0.0021 ppm	0.0005 ppm
Concentration per Run 2	6.7155 ppm	0.1131 ppm	0.0003 ppm	76.3388 ppm	0.0012 ppm	-0.0006 ppm	-0.0024 ppm
Concentration per Run 3	6.7225 ppm	0.1129 ppm	0.0005 ppm	75.8915 ppm	0.0012 ppm	0.0010 ppm	-0.0028 ppm
Concentration RSD	0.5 %	0.5 %	195.4 %	0.4 %	9.9 %	164.5 %	114.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	5.4811 ppm	-0.0004 ppm	0.1677 ppm	-0.0002 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	5.5001 ppm	-0.0001 ppm	0.1681 ppm	-0.0003 ppm	-0.0020 ppm	-0.0003 ppm
Concentration per Run 2	-0.0010 ppm	5.4940 ppm	-0.0009 ppm	0.1682 ppm	-0.0001 ppm	-0.0027 ppm	-0.0003 ppm
Concentration per Run 3	-0.0003 ppm	5.4492 ppm	-0.0004 ppm	0.1670 ppm	-0.0002 ppm	0.0009 ppm	0.0001 ppm
Concentration RSD	48.4 %	0.5 %	93.6 %	0.4 %	39.4 %	149.4 %	157.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0182 ppm	85.3042 %	100.2266 %	88.3187 %	97.5669 %	105.5865 %	97.7064 %
Concentration per Run 1	0.0182 ppm	84.5618 %	99.7755 %	88.1097 %	97.4460 %	105.8335 %	97.8083 %
Concentration per Run 2	0.0185 ppm	84.9487 %	100.2755 %	88.1800 %	97.2015 %	105.4246 %	97.3004 %
Concentration per Run 3	0.0179 ppm	86.4023 %	100.6290 %	88.6664 %	98.0533 %	105.5014 %	98.0107 %
Concentration RSD	1.7 %	1.1 %	0.4 %	0.3 %	0.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: L2432633-04 WG1934555
Analysis started at: 6/17/2024 11:12:45 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0012 ppm	0.0202 ppm	0.0257 ppm	0.0000 ppm	11.2493 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	0.0015 ppm	0.0204 ppm	0.0259 ppm	0.0000 ppm	11.2903 ppm
Concentration per Run 2	-0.0004 ppm	0.0064 ppm	0.0012 ppm	0.0201 ppm	0.0256 ppm	0.0000 ppm	11.2196 ppm
Concentration per Run 3	0.0000 ppm	-0.0052 ppm	0.0009 ppm	0.0200 ppm	0.0257 ppm	0.0000 ppm	11.2380 ppm
Concentration RSD	303.6 %	628.1 %	25.4 %	1.1 %	0.7 %	175.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0013 ppm	0.0026 ppm	0.0064 ppm	1.1119 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0015 ppm	0.0026 ppm	0.0052 ppm	1.1181 ppm	0.0025 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0026 ppm	0.0082 ppm	1.1075 ppm	-0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0026 ppm	0.0057 ppm	1.1102 ppm	0.0023 ppm
Concentration RSD	629.8 %	303.7 %	9.8 %	0.2 %	24.7 %	0.5 %	168.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3047 ppm	0.0003 ppm	-0.0004 ppm	13.6867 ppm	0.0005 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 1	5.3624 ppm	0.0003 ppm	-0.0001 ppm	13.7360 ppm	0.0010 ppm	0.0023 ppm	0.0017 ppm
Concentration per Run 2	5.2954 ppm	0.0004 ppm	-0.0003 ppm	13.6657 ppm	0.0011 ppm	-0.0009 ppm	0.0015 ppm
Concentration per Run 3	5.2562 ppm	0.0003 ppm	-0.0007 ppm	13.6585 ppm	-0.0007 ppm	0.0001 ppm	-0.0017 ppm
Concentration RSD	1.0 %	18.9 %	86.3 %	0.3 %	223.3 %	325.5 %	375.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	8.1450 ppm	-0.0006 ppm	0.0552 ppm	-0.0003 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	8.2206 ppm	-0.0011 ppm	0.0554 ppm	-0.0005 ppm	-0.0010 ppm	-0.0005 ppm
Concentration per Run 2	0.0015 ppm	8.1451 ppm	-0.0001 ppm	0.0553 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	8.0692 ppm	-0.0006 ppm	0.0550 ppm	-0.0001 ppm	-0.0024 ppm	0.0001 ppm
Concentration RSD	414.0 %	0.9 %	83.8 %	0.3 %	95.4 %	106.4 %	225.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	83.8625 %	99.6140 %	88.5944 %	99.8713 %	107.9880 %	100.5083 %
Concentration per Run 1	0.0028 ppm	82.5936 %	98.2549 %	88.0004 %	99.2107 %	106.9320 %	100.3356 %
Concentration per Run 2	0.0024 ppm	84.2555 %	100.7579 %	88.5049 %	100.2797 %	109.1651 %	100.4198 %
Concentration per Run 3	0.0026 ppm	84.7382 %	99.8292 %	89.2780 %	100.1236 %	107.8669 %	100.7694 %
Concentration RSD	7.2 %	1.3 %	1.3 %	0.7 %	0.6 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 11:16:46 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4982 ppm	0.4850 ppm	0.4723 ppm	0.4920 ppm	0.4964 ppm	0.5131 ppm	0.4931 ppm
Concentration per Run 1	0.4956 ppm	0.4810 ppm	0.4702 ppm	0.4888 ppm	0.4976 ppm	0.5130 ppm	0.4886 ppm
Concentration per Run 2	0.4983 ppm	0.4834 ppm	0.4747 ppm	0.4934 ppm	0.4979 ppm	0.5120 ppm	0.4935 ppm
Concentration per Run 3	0.5007 ppm	0.4907 ppm	0.4721 ppm	0.4937 ppm	0.4937 ppm	0.5142 ppm	0.4971 ppm
Recovery Percentage 1	99.636 %	97.008 %	94.468 %	98.395 %	99.279 %	102.617 %	98.613 %
Concentration RSD	0.5 %	1.0 %	0.5 %	0.6 %	0.5 %	0.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5042 ppm	0.5132 ppm	0.4965 ppm	0.4943 ppm	0.5054 ppm	5.0864 ppm	0.6157 ppm
Concentration per Run 1	0.5016 ppm	0.5121 ppm	0.4951 ppm	0.4939 ppm	0.5045 ppm	5.0816 ppm	0.6154 ppm
Concentration per Run 2	0.5034 ppm	0.5126 ppm	0.4958 ppm	0.4942 ppm	0.5061 ppm	5.0829 ppm	0.6159 ppm
Concentration per Run 3	0.5077 ppm	0.5150 ppm	0.4986 ppm	0.4948 ppm	0.5057 ppm	5.0948 ppm	0.6157 ppm
Recovery Percentage 1	100.846 %	102.648 %	99.299 %	98.862 %	101.083 %	101.729 %	123.138 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.1 %	0.2 %	0.1 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4941 ppm	0.4908 ppm	0.4989 ppm	9.9420 ppm	0.5111 ppm	0.4932 ppm	0.4990 ppm
Concentration per Run 1	0.4933 ppm	0.4903 ppm	0.4891 ppm	9.9087 ppm	0.5082 ppm	0.4919 ppm	0.4925 ppm
Concentration per Run 2	0.4933 ppm	0.4915 ppm	0.4987 ppm	9.9929 ppm	0.5129 ppm	0.4941 ppm	0.5031 ppm
Concentration per Run 3	0.4957 ppm	0.4907 ppm	0.5089 ppm	9.9243 ppm	0.5123 ppm	0.4936 ppm	0.5014 ppm
Recovery Percentage 1	98.822 %	98.165 %	99.781 %	99.420 %	102.220 %	98.641 %	99.795 %
Concentration RSD	0.3 %	0.1 %	2.0 %	0.5 %	0.5 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4824 ppm	5.5339 ppm	0.4850 ppm	0.4908 ppm	0.5053 ppm	0.4841 ppm	0.4967 ppm
Concentration per Run 1	0.4782 ppm	5.5000 ppm	0.4789 ppm	0.4887 ppm	0.5051 ppm	0.4836 ppm	0.4954 ppm
Concentration per Run 2	0.4848 ppm	5.5332 ppm	0.4887 ppm	0.4928 ppm	0.5045 ppm	0.4860 ppm	0.4973 ppm
Concentration per Run 3	0.4842 ppm	5.5685 ppm	0.4874 ppm	0.4910 ppm	0.5064 ppm	0.4828 ppm	0.4972 ppm
Recovery Percentage 1	96.477 %	105.408 %	97.001 %	98.169 %	101.064 %	96.829 %	99.330 %
Concentration RSD	0.8 %	0.6 %	1.1 %	0.4 %	0.2 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5058 ppm	90.3191 %	102.5764 %	92.4909 %	98.9686 %	106.3099 %	98.8348 %
Concentration per Run 1	0.5042 ppm	90.3754 %	101.9408 %	92.5746 %	99.1474 %	105.4184 %	98.8798 %
Concentration per Run 2	0.5049 ppm	90.6514 %	102.8391 %	92.2961 %	99.1753 %	106.8165 %	98.4509 %
Concentration per Run 3	0.5083 ppm	89.9305 %	102.9494 %	92.6019 %	98.5832 %	106.6949 %	99.1737 %
Recovery Percentage 1	101.157 %						
Concentration RSD	0.4 %	0.4 %	0.5 %	0.2 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 11:20:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0062 ppm	-0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.0005 ppm	-0.0138 ppm	-0.0007 ppm	-0.0017 ppm	0.0003 ppm	0.0001 ppm	-0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0051 ppm	-0.0006 ppm	0.0018 ppm	0.0002 ppm	0.0001 ppm	-0.0027 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0015 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0023 ppm
Recovery Percentage 1	1.994 %	-6.232 %	-30.480 %	0.447 %	2.875 %	2.057 %	-0.657 %
Concentration RSD	239.9 %	114.0 %	51.6 %	1,313.4 %	36.6 %	11.0 %	396.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0012 ppm	0.0092 ppm	0.0187 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0011 ppm	0.0078 ppm	0.0156 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0012 ppm	0.0106 ppm	0.0187 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0012 ppm	0.0091 ppm	0.0217 ppm	0.0004 ppm
Recovery Percentage 1	0.390 %	1.290 %	-1.622 %	11.507 %	18.400 %	0.748 %	1.148 %
Concentration RSD	205.3 %	199.4 %	59.0 %	6.7 %	15.2 %	16.2 %	328.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0001 ppm	0.0018 ppm	0.0183 ppm	0.0000 ppm	-0.0001 ppm	-0.0017 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	0.0019 ppm	0.0207 ppm	-0.0001 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0204 ppm	0.0005 ppm	-0.0011 ppm	-0.0011 ppm
Concentration per Run 3	0.0018 ppm	-0.0001 ppm	0.0019 ppm	0.0139 ppm	-0.0003 ppm	0.0008 ppm	-0.0014 ppm
Recovery Percentage 1	0.704 %	0.863 %	3.628 %	0.916 %	0.176 %	-0.791 %	-3.499 %
Concentration RSD	133.0 %	178.7 %	11.8 %	21.1 %	996.9 %	1,182.7 %	49.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0080 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0085 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0019 ppm	-0.0075 ppm	0.0008 ppm	0.0000 ppm	-0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0079 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	-4.243 %	-1.593 %	1.715 %	0.430 %	-0.939 %	-2.503 %	-1.001 %
Concentration RSD	310.8 %	5.9 %	79.4 %	235.9 %	219.9 %	100.6 %	234.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	83.9159 %	98.1555 %	88.3866 %	99.3679 %	106.6309 %	99.6798 %
Concentration per Run 1	0.0004 ppm	82.8876 %	97.7711 %	88.4413 %	98.9727 %	106.5979 %	99.9392 %
Concentration per Run 2	0.0005 ppm	84.1669 %	98.7705 %	87.8962 %	99.6845 %	107.3049 %	99.2192 %
Concentration per Run 3	0.0006 ppm	84.6931 %	97.9250 %	88.8223 %	99.4464 %	105.9898 %	99.8811 %
Recovery Percentage 1	10.051 %						
Concentration RSD	20.1 %	1.1 %	0.5 %	0.5 %	0.4 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCV
Analysis started at: 6/17/2024 11:24:45 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4970 ppm	0.4866 ppm	0.4697 ppm	0.4934 ppm	0.4968 ppm	0.5121 ppm	0.4925 ppm
Concentration per Run 1	0.4955 ppm	0.5002 ppm	0.4738 ppm	0.4905 ppm	0.4947 ppm	0.5092 ppm	0.4950 ppm
Concentration per Run 2	0.4982 ppm	0.4768 ppm	0.4685 ppm	0.4914 ppm	0.4980 ppm	0.5150 ppm	0.4915 ppm
Concentration per Run 3	0.4973 ppm	0.4828 ppm	0.4667 ppm	0.4983 ppm	0.4978 ppm	0.5119 ppm	0.4911 ppm
Recovery Percentage 1	99.403 %	97.316 %	93.938 %	98.682 %	99.366 %	102.412 %	98.506 %
Concentration RSD	0.3 %	2.5 %	0.8 %	0.9 %	0.4 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5043 ppm	0.5124 ppm	0.4959 ppm	0.4924 ppm	0.5062 ppm	5.1083 ppm	0.6144 ppm
Concentration per Run 1	0.5015 ppm	0.5096 ppm	0.4942 ppm	0.4909 ppm	0.5090 ppm	5.1716 ppm	0.6193 ppm
Concentration per Run 2	0.5054 ppm	0.5133 ppm	0.4985 ppm	0.4923 ppm	0.5032 ppm	5.0171 ppm	0.6046 ppm
Concentration per Run 3	0.5059 ppm	0.5144 ppm	0.4949 ppm	0.4941 ppm	0.5063 ppm	5.1361 ppm	0.6192 ppm
Recovery Percentage 1	100.852 %	102.485 %	99.173 %	98.486 %	101.230 %	102.165 %	122.873 %
Concentration RSD	0.5 %	0.5 %	0.5 %	0.3 %	0.6 %	1.6 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4950 ppm	0.4888 ppm	0.4985 ppm	9.8710 ppm	0.5111 ppm	0.4941 ppm	0.5009 ppm
Concentration per Run 1	0.4948 ppm	0.4908 ppm	0.4903 ppm	9.8955 ppm	0.5083 ppm	0.4964 ppm	0.4967 ppm
Concentration per Run 2	0.4953 ppm	0.4867 ppm	0.5014 ppm	9.8551 ppm	0.5150 ppm	0.4958 ppm	0.5038 ppm
Concentration per Run 3	0.4949 ppm	0.4888 ppm	0.5039 ppm	9.8625 ppm	0.5101 ppm	0.4900 ppm	0.5023 ppm
Recovery Percentage 1	98.997 %	97.754 %	99.710 %	98.710 %	102.222 %	98.818 %	100.188 %
Concentration RSD	0.0 %	0.4 %	1.5 %	0.2 %	0.7 %	0.7 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4819 ppm	5.5214 ppm	0.4813 ppm	0.4914 ppm	0.5051 ppm	0.4839 ppm	0.4953 ppm
Concentration per Run 1	0.4832 ppm	5.5083 ppm	0.4781 ppm	0.4887 ppm	0.5035 ppm	0.4871 ppm	0.4933 ppm
Concentration per Run 2	0.4810 ppm	5.5174 ppm	0.4843 ppm	0.4939 ppm	0.5078 ppm	0.4823 ppm	0.4965 ppm
Concentration per Run 3	0.4814 ppm	5.5386 ppm	0.4814 ppm	0.4915 ppm	0.5042 ppm	0.4822 ppm	0.4962 ppm
Recovery Percentage 1	96.374 %	105.170 %	96.258 %	98.279 %	101.026 %	96.772 %	99.064 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.5 %	0.5 %	0.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5051 ppm	90.0960 %	102.0439 %	92.7334 %	98.7563 %	105.9429 %	99.1502 %
Concentration per Run 1	0.5029 ppm	90.2397 %	102.0239 %	92.8884 %	98.8206 %	106.4242 %	99.3977 %
Concentration per Run 2	0.5099 ppm	90.2263 %	102.1327 %	92.5722 %	98.9242 %	105.5737 %	99.1559 %
Concentration per Run 3	0.5026 ppm	89.8222 %	101.9750 %	92.7395 %	98.5241 %	105.8307 %	98.8969 %
Recovery Percentage 1	101.029 %						
Concentration RSD	0.8 %	0.3 %	0.1 %	0.2 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: CCB
Analysis started at: 6/17/2024 11:28:44 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0057 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	-0.0062 ppm	-0.0007 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	-0.0010 ppm	-0.0015 ppm	0.0010 ppm	0.0004 ppm	0.0001 ppm	-0.0033 ppm
Concentration per Run 3	0.0000 ppm	-0.0098 ppm	0.0010 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0025 ppm
Recovery Percentage 1	1.333 %	-5.669 %	-13.372 %	1.125 %	2.409 %	1.744 %	0.797 %
Concentration RSD	145.4 %	78.2 %	323.1 %	248.7 %	65.2 %	37.4 %	452.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0011 ppm	0.0079 ppm	0.0053 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0013 ppm	0.0081 ppm	-0.0142 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0010 ppm	0.0079 ppm	0.0181 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0010 ppm	0.0077 ppm	0.0121 ppm	0.0002 ppm
Recovery Percentage 1	1.512 %	0.879 %	-1.741 %	11.078 %	15.770 %	0.212 %	8.354 %
Concentration RSD	38.2 %	213.4 %	53.3 %	16.1 %	2.7 %	324.0 %	128.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0017 ppm	0.0136 ppm	-0.0002 ppm	-0.0004 ppm	0.0022 ppm
Concentration per Run 1	-0.0019 ppm	0.0003 ppm	0.0017 ppm	0.0169 ppm	0.0000 ppm	-0.0001 ppm	0.0042 ppm
Concentration per Run 2	0.0017 ppm	0.0006 ppm	0.0011 ppm	0.0131 ppm	-0.0006 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0107 ppm	0.0000 ppm	-0.0011 ppm	0.0015 ppm
Recovery Percentage 1	-0.050 %	3.739 %	3.380 %	0.679 %	-0.807 %	-3.590 %	4.381 %
Concentration RSD	3,535.4 %	61.3 %	37.9 %	23.1 %	165.0 %	190.6 %	79.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	-0.0056 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 1	-0.0023 ppm	-0.0056 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0017 ppm	-0.0003 ppm
Concentration per Run 2	-0.0019 ppm	-0.0054 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 3	-0.0013 ppm	-0.0059 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	-18.108 %	-1.128 %	0.728 %	0.144 %	0.188 %	-4.999 %	-3.052 %
Concentration RSD	27.1 %	4.8 %	125.4 %	971.9 %	726.0 %	67.3 %	56.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	83.8116 %	98.6497 %	88.5610 %	99.2043 %	107.2426 %	100.0053 %
Concentration per Run 1	0.0004 ppm	82.9598 %	98.6626 %	88.2840 %	99.0082 %	107.5958 %	99.8420 %
Concentration per Run 2	0.0004 ppm	83.9728 %	98.3354 %	88.6258 %	99.3317 %	106.4680 %	100.1818 %
Concentration per Run 3	0.0004 ppm	84.5022 %	98.9512 %	88.7732 %	99.2729 %	107.6640 %	99.9921 %
Recovery Percentage 1	7.777 %						
Concentration RSD	9.2 %	0.9 %	0.3 %	0.3 %	0.2 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 7:47:56 AM

LabBook: WG1935122_06172024T8.imexp

Sample: LLOQ
Analysis started at: 6/17/2024 11:32:44 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0075 ppm	0.1022 ppm	0.0048 ppm	0.0325 ppm	0.0106 ppm	0.0051 ppm	0.1050 ppm
Concentration per Run 1	0.0077 ppm	0.1042 ppm	0.0054 ppm	0.0325 ppm	0.0106 ppm	0.0051 ppm	0.1086 ppm
Concentration per Run 2	0.0073 ppm	0.1001 ppm	0.0051 ppm	0.0315 ppm	0.0106 ppm	0.0050 ppm	0.1040 ppm
Concentration per Run 3	0.0076 ppm	0.1024 ppm	0.0038 ppm	0.0335 ppm	0.0105 ppm	0.0051 ppm	0.1024 ppm
Recovery Percentage 1	107.449 %	102.240 %	95.801 %	108.239 %	105.817 %	101.293 %	104.982 %
Concentration RSD	2.5 %	2.0 %	18.1 %	3.1 %	0.3 %	1.2 %	3.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0212 ppm	0.0104 ppm	0.0114 ppm	0.0532 ppm	2.7178 ppm	0.0110 ppm
Concentration per Run 1	0.0042 ppm	0.0213 ppm	0.0102 ppm	0.0114 ppm	0.0540 ppm	2.7702 ppm	0.0116 ppm
Concentration per Run 2	0.0042 ppm	0.0209 ppm	0.0101 ppm	0.0115 ppm	0.0534 ppm	2.6874 ppm	0.0098 ppm
Concentration per Run 3	0.0042 ppm	0.0213 ppm	0.0108 ppm	0.0114 ppm	0.0522 ppm	2.6957 ppm	0.0116 ppm
Recovery Percentage 1	84.094 %	106.019 %	103.825 %	114.140 %	106.436 %	108.711 %	110.235 %
Concentration RSD	0.4 %	1.1 %	3.8 %	0.6 %	1.7 %	1.7 %	9.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1084 ppm	0.0109 ppm	0.0539 ppm	2.1643 ppm	0.0259 ppm	0.0104 ppm	0.0558 ppm
Concentration per Run 1	0.1086 ppm	0.0107 ppm	0.0535 ppm	2.1596 ppm	0.0258 ppm	0.0110 ppm	0.0542 ppm
Concentration per Run 2	0.1088 ppm	0.0112 ppm	0.0542 ppm	2.1674 ppm	0.0264 ppm	0.0092 ppm	0.0582 ppm
Concentration per Run 3	0.1078 ppm	0.0107 ppm	0.0540 ppm	2.1659 ppm	0.0255 ppm	0.0111 ppm	0.0550 ppm
Recovery Percentage 1	108.379 %	108.616 %	107.827 %	108.215 %	103.662 %	104.440 %	111.576 %
Concentration RSD	0.5 %	2.4 %	0.6 %	0.2 %	1.8 %	9.9 %	3.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0085 ppm	0.5408 ppm	0.0504 ppm	0.0102 ppm	0.0520 ppm	0.0183 ppm	0.0101 ppm
Concentration per Run 1	0.0105 ppm	0.5421 ppm	0.0513 ppm	0.0101 ppm	0.0520 ppm	0.0186 ppm	0.0100 ppm
Concentration per Run 2	0.0077 ppm	0.5391 ppm	0.0495 ppm	0.0102 ppm	0.0522 ppm	0.0191 ppm	0.0101 ppm
Concentration per Run 3	0.0074 ppm	0.5412 ppm	0.0504 ppm	0.0102 ppm	0.0520 ppm	0.0173 ppm	0.0102 ppm
Recovery Percentage 1	85.133 %	108.165 %	100.859 %	101.937 %	104.068 %	91.612 %	100.993 %
Concentration RSD	20.3 %	0.3 %	1.7 %	0.7 %	0.2 %	5.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	86.5115 %	100.5718 %	90.7160 %	97.9025 %	105.7661 %	98.4967 %
Concentration per Run 1	0.0053 ppm	85.7018 %	100.7421 %	90.7972 %	97.5731 %	105.9519 %	98.9534 %
Concentration per Run 2	0.0055 ppm	86.6439 %	100.9522 %	90.4695 %	97.8981 %	106.2618 %	98.0717 %
Concentration per Run 3	0.0054 ppm	87.1888 %	100.0210 %	90.8814 %	98.2362 %	105.0847 %	98.4649 %
Recovery Percentage 1	107.791 %						
Concentration RSD	2.4 %	0.9 %	0.5 %	0.2 %	0.3 %	0.6 %	0.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: Blank TAA Trace6
Analysis started at: 6/17/2024 1:44:46 PM
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.7 %	0.5 %	0.2 %	0.1 %	-0.6 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.6 %	0.2 %	0.2 %	0.0 %	-2.5 %	0.1 %	-3.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.3 %	-0.3 %	0.0 %	-0.1 %	-0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.3 %	-1.4 %	-0.1 %	-0.1 %	0.5 %	-0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.1 %	0.0 %	0.0 %	-0.7 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: ICAL
Analysis started at: 6/17/2024 1:51:26 PM
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0021 ppm	26.6945 ppm	1.0013 ppm	1.0018 ppm	1.0668 ppm	1.0678 ppm	10.6825 ppm
Concentration per Run 2	1.0020 ppm	24.1887 ppm	0.9990 ppm	1.0001 ppm	0.9683 ppm	0.9678 ppm	9.7057 ppm
Concentration per Run 3	0.9959 ppm	24.1168 ppm	0.9997 ppm	0.9981 ppm	0.9649 ppm	0.9644 ppm	9.6119 ppm
Concentration RSD	0.4 %	5.9 %	0.1 %	0.2 %	5.8 %	5.9 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9993 ppm	1.0001 ppm	0.9988 ppm	1.0002 ppm	26.6933 ppm	37.2766 ppm	9.9894 ppm
Concentration per Run 2	1.0011 ppm	1.0005 ppm	1.0035 ppm	1.0000 ppm	24.2033 ppm	33.8913 ppm	10.0412 ppm
Concentration per Run 3	0.9996 ppm	0.9994 ppm	0.9977 ppm	0.9998 ppm	24.1034 ppm	33.8321 ppm	9.9695 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.0 %	5.9 %	5.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0660 ppm	0.9970 ppm	26.6454 ppm	1.0003 ppm	0.9993 ppm	1.0009 ppm	0.9996 ppm
Concentration per Run 2	0.9690 ppm	1.0026 ppm	24.1965 ppm	1.0007 ppm	1.0011 ppm	1.0008 ppm	1.0030 ppm
Concentration per Run 3	0.9650 ppm	1.0004 ppm	24.1582 ppm	0.9990 ppm	0.9996 ppm	0.9984 ppm	0.9974 ppm
Concentration RSD	5.7 %	0.3 %	5.7 %	0.1 %	0.1 %	0.1 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0152 ppm	1.0010 ppm	1.0669 ppm	0.9989 ppm	1.0016 ppm	0.9993 ppm	0.9995 ppm
Concentration per Run 2	10.0115 ppm	1.0008 ppm	0.9681 ppm	1.0035 ppm	1.0010 ppm	1.0022 ppm	1.0003 ppm
Concentration per Run 3	9.9732 ppm	0.9982 ppm	0.9650 ppm	0.9976 ppm	0.9974 ppm	0.9984 ppm	1.0003 ppm
Concentration RSD	0.2 %	0.2 %	5.8 %	0.3 %	0.2 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.0197 %	94.0714 %	94.6654 %	112.9044 %	89.7308 %	97.6023 %	1.0000 ppm
Concentration per Run 1	92.3896 %	94.1098 %	94.6541 %	107.6940 %	89.5834 %	97.5534 %	1.0640 ppm
Concentration per Run 2	100.8139 %	94.0363 %	94.5977 %	114.5134 %	89.6035 %	97.6218 %	0.9693 ppm
Concentration per Run 3	100.8556 %	94.0682 %	94.7446 %	116.5058 %	90.0055 %	97.6318 %	0.9667 ppm
Concentration RSD	5.0 %	0.0 %	0.1 %	4.1 %	0.3 %	0.0 %	5.5 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: ICV
Analysis started at: 6/17/2024 1:57:42 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4713 ppm	0.4859 ppm	0.4887 ppm	0.4737 ppm	0.4889 ppm	0.4973 ppm	0.4829 ppm
Concentration per Run 1	0.4722 ppm	0.5150 ppm	0.4870 ppm	0.4730 ppm	0.5154 ppm	0.5248 ppm	0.5097 ppm
Concentration per Run 2	0.4709 ppm	0.4717 ppm	0.4914 ppm	0.4743 ppm	0.4758 ppm	0.4843 ppm	0.4711 ppm
Concentration per Run 3	0.4707 ppm	0.4711 ppm	0.4878 ppm	0.4738 ppm	0.4756 ppm	0.4830 ppm	0.4680 ppm
Recovery Percentage 1	94.251 %	97.189 %	97.744 %	94.736 %	97.789 %	99.467 %	96.585 %
Concentration RSD	0.2 %	5.2 %	0.5 %	0.1 %	4.7 %	4.8 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4719 ppm	0.4833 ppm	0.4906 ppm	0.4808 ppm	0.5030 ppm	5.1349 ppm	0.4949 ppm
Concentration per Run 1	0.4724 ppm	0.4835 ppm	0.4916 ppm	0.4817 ppm	0.5299 ppm	5.3869 ppm	0.4956 ppm
Concentration per Run 2	0.4718 ppm	0.4831 ppm	0.4897 ppm	0.4815 ppm	0.4890 ppm	5.0203 ppm	0.4948 ppm
Concentration per Run 3	0.4713 ppm	0.4834 ppm	0.4904 ppm	0.4792 ppm	0.4902 ppm	4.9976 ppm	0.4943 ppm
Recovery Percentage 1	94.371 %	96.663 %	98.114 %	96.152 %	100.603 %	102.698 %	98.976 %
Concentration RSD	0.1 %	0.0 %	0.2 %	0.3 %	4.6 %	4.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4878 ppm	0.4685 ppm	9.7695 ppm	0.4842 ppm	0.4870 ppm	0.4746 ppm	0.4694 ppm
Concentration per Run 1	0.5134 ppm	0.4670 ppm	10.2891 ppm	0.4849 ppm	0.4871 ppm	0.4748 ppm	0.4686 ppm
Concentration per Run 2	0.4757 ppm	0.4687 ppm	9.5250 ppm	0.4840 ppm	0.4871 ppm	0.4741 ppm	0.4716 ppm
Concentration per Run 3	0.4742 ppm	0.4699 ppm	9.4944 ppm	0.4836 ppm	0.4868 ppm	0.4749 ppm	0.4679 ppm
Recovery Percentage 1	97.550 %	93.706 %	97.695 %	96.835 %	97.399 %	94.924 %	93.873 %
Concentration RSD	4.6 %	0.3 %	4.6 %	0.1 %	0.0 %	0.1 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9373 ppm	0.4935 ppm	0.4833 ppm	0.4980 ppm	0.4965 ppm	0.4863 ppm	0.4785 ppm
Concentration per Run 1	4.9357 ppm	0.4940 ppm	0.5091 ppm	0.4982 ppm	0.4957 ppm	0.4876 ppm	0.4791 ppm
Concentration per Run 2	4.9374 ppm	0.4936 ppm	0.4706 ppm	0.4980 ppm	0.4972 ppm	0.4855 ppm	0.4795 ppm
Concentration per Run 3	4.9390 ppm	0.4929 ppm	0.4702 ppm	0.4978 ppm	0.4965 ppm	0.4857 ppm	0.4769 ppm
Recovery Percentage 1	94.045 %	98.697 %	96.656 %	99.598 %	99.292 %	97.257 %	95.700 %
Concentration RSD	0.0 %	0.1 %	4.6 %	0.0 %	0.2 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9950 %	97.0006 %	97.3590 %	112.0785 %	96.8639 %	100.6373 %	0.4706 ppm
Concentration per Run 1	94.8136 %	96.9855 %	97.4388 %	105.5852 %	96.7933 %	100.4771 %	0.4947 ppm
Concentration per Run 2	102.3918 %	97.1581 %	97.2989 %	113.8327 %	96.9577 %	100.7695 %	0.4570 ppm
Concentration per Run 3	102.7795 %	96.8583 %	97.3394 %	116.8176 %	96.8407 %	100.6654 %	0.4599 ppm
Recovery Percentage 1							94.112 %
Concentration RSD	4.5 %	0.2 %	0.1 %	5.2 %	0.1 %	0.1 %	4.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: ICB
Analysis started at: 6/17/2024 2:04:01 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0018 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 1	-0.0002 ppm	-0.0017 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0060 ppm
Concentration per Run 2	-0.0003 ppm	-0.0021 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	-0.0015 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0035 ppm
Recovery Percentage 1	-3.494 %	0.000 %	12.188 %	1.220 %	0.053 %	0.020 %	-0.001 %
Concentration RSD	22.1 %	17.4 %	100.0 %	57.3 %	491.1 %	2,569.0 %	71.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0204 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm	0.0286 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0207 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0118 ppm	-0.0008 ppm
Recovery Percentage 1	-0.429 %	0.010 %	-1.026 %	-0.835 %	0.000 %	0.815 %	0.000 %
Concentration RSD	94.6 %	688.0 %	197.3 %	157.0 %	173.8 %	41.1 %	135.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0113 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0120 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0089 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0129 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm
Recovery Percentage 1	0.406 %	1.231 %	0.564 %	0.383 %	2.181 %	-0.461 %	2.459 %
Concentration RSD	152.0 %	6.8 %	18.7 %	61.2 %	119.6 %	133.5 %	347.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0010 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0011 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0014 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-0.204 %	1.417 %	-0.211 %	1.471 %	3.595 %	0.719 %	2.354 %
Concentration RSD	43.1 %	5.9 %	177.3 %	96.5 %	70.8 %	253.6 %	7.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.5196 %	98.4133 %	98.5272 %	103.2942 %	100.9160 %	99.7088 %	0.0001 ppm
Concentration per Run 1	95.8739 %	98.5174 %	98.4928 %	95.7615 %	100.6211 %	99.5206 %	-0.0004 ppm
Concentration per Run 2	103.1759 %	98.2847 %	98.3432 %	105.2581 %	100.8604 %	99.5966 %	0.0008 ppm
Concentration per Run 3	102.5088 %	98.4379 %	98.7455 %	108.8630 %	101.2665 %	100.0093 %	0.0001 ppm
Recovery Percentage 1							1.435 %
Concentration RSD	4.0 %	0.1 %	0.2 %	6.6 %	0.3 %	0.3 %	422.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: ICV
Analysis started at: 6/17/2024 2:10:44 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4714 ppm	0.4933 ppm	0.4950 ppm	0.4799 ppm	0.4970 ppm	0.5068 ppm	0.4937 ppm
Concentration per Run 1	0.4732 ppm	0.5265 ppm	0.4937 ppm	0.4810 ppm	0.5277 ppm	0.5385 ppm	0.5229 ppm
Concentration per Run 2	0.4721 ppm	0.4768 ppm	0.4970 ppm	0.4804 ppm	0.4818 ppm	0.4912 ppm	0.4822 ppm
Concentration per Run 3	0.4688 ppm	0.4767 ppm	0.4942 ppm	0.4783 ppm	0.4816 ppm	0.4906 ppm	0.4761 ppm
Recovery Percentage 1	94.272 %	98.668 %	98.992 %	95.986 %	99.400 %	101.354 %	98.743 %
Concentration RSD	0.5 %	5.8 %	0.4 %	0.3 %	5.3 %	5.4 %	5.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4750 ppm	0.4884 ppm	0.4997 ppm	0.4865 ppm	0.5155 ppm	5.2215 ppm	0.5041 ppm
Concentration per Run 1	0.4773 ppm	0.4899 ppm	0.4987 ppm	0.4867 ppm	0.5464 ppm	5.5420 ppm	0.5017 ppm
Concentration per Run 2	0.4758 ppm	0.4890 ppm	0.4997 ppm	0.4863 ppm	0.5001 ppm	5.0666 ppm	0.5052 ppm
Concentration per Run 3	0.4717 ppm	0.4862 ppm	0.5006 ppm	0.4866 ppm	0.5001 ppm	5.0560 ppm	0.5053 ppm
Recovery Percentage 1	94.990 %	97.673 %	99.932 %	97.309 %	103.100 %	104.430 %	100.814 %
Concentration RSD	0.6 %	0.4 %	0.2 %	0.0 %	5.2 %	5.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4929 ppm	0.4718 ppm	9.8228 ppm	0.4883 ppm	0.4902 ppm	0.4785 ppm	0.4719 ppm
Concentration per Run 1	0.5233 ppm	0.4711 ppm	10.4053 ppm	0.4899 ppm	0.4922 ppm	0.4785 ppm	0.4733 ppm
Concentration per Run 2	0.4774 ppm	0.4741 ppm	9.5302 ppm	0.4897 ppm	0.4912 ppm	0.4804 ppm	0.4737 ppm
Concentration per Run 3	0.4779 ppm	0.4700 ppm	9.5329 ppm	0.4853 ppm	0.4871 ppm	0.4767 ppm	0.4688 ppm
Recovery Percentage 1	98.577 %	94.351 %	98.228 %	97.664 %	98.037 %	95.706 %	94.388 %
Concentration RSD	5.4 %	0.5 %	5.1 %	0.5 %	0.5 %	0.4 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3755 ppm	0.4988 ppm	0.5009 ppm	0.5060 ppm	0.5012 ppm	0.4918 ppm	0.4835 ppm
Concentration per Run 1	5.3817 ppm	0.4999 ppm	0.5314 ppm	0.5054 ppm	0.5031 ppm	0.4907 ppm	0.4863 ppm
Concentration per Run 2	5.3997 ppm	0.5009 ppm	0.4853 ppm	0.5061 ppm	0.5036 ppm	0.4916 ppm	0.4841 ppm
Concentration per Run 3	5.3450 ppm	0.4958 ppm	0.4861 ppm	0.5064 ppm	0.4969 ppm	0.4930 ppm	0.4801 ppm
Recovery Percentage 1	102.390 %	99.767 %	100.187 %	101.193 %	100.237 %	98.351 %	96.697 %
Concentration RSD	0.5 %	0.5 %	5.3 %	0.1 %	0.7 %	0.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0947 %	96.6338 %	97.1378 %	112.0200 %	96.8907 %	100.4755 %	0.4915 ppm
Concentration per Run 1	94.2626 %	96.9089 %	97.2070 %	104.9444 %	96.7363 %	100.8001 %	0.5201 ppm
Concentration per Run 2	102.9552 %	96.7110 %	96.8091 %	114.2776 %	96.5871 %	100.4918 %	0.4782 ppm
Concentration per Run 3	103.0664 %	96.2813 %	97.3973 %	116.8380 %	97.3486 %	100.1346 %	0.4761 ppm
Recovery Percentage 1							98.298 %
Concentration RSD	5.0 %	0.3 %	0.3 %	5.6 %	0.4 %	0.3 %	5.0 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: ICB
Analysis started at: 6/17/2024 2:17:02 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0012 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	-0.0003 ppm	0.0002 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0032 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Recovery Percentage 1	-2.121 %	0.000 %	17.472 %	0.631 %	0.025 %	-0.273 %	0.000 %
Concentration RSD	100.4 %	138.6 %	31.5 %	25.5 %	3,412.8 %	258.6 %	35.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0198 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0008 ppm	0.0424 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0020 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0191 ppm	-0.0003 ppm
Recovery Percentage 1	-0.015 %	-0.089 %	-1.402 %	-1.209 %	0.000 %	0.794 %	0.000 %
Concentration RSD	3,445.4 %	164.0 %	141.4 %	132.1 %	449.3 %	112.1 %	169.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0049 ppm	0.0001 ppm	0.0004 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0062 ppm	0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0005 ppm	0.0037 ppm	0.0001 ppm	0.0012 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0050 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0010 ppm
Recovery Percentage 1	1.162 %	0.979 %	0.246 %	0.555 %	4.095 %	1.629 %	-3.092 %
Concentration RSD	111.7 %	6.4 %	25.3 %	85.6 %	159.1 %	41.1 %	181.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0014 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0013 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-0.279 %	1.908 %	-0.105 %	0.543 %	2.622 %	0.346 %	1.693 %
Concentration RSD	10.7 %	17.5 %	161.0 %	244.3 %	33.9 %	145.2 %	23.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6519 %	98.0795 %	98.1432 %	102.5129 %	100.9415 %	99.7697 %	-0.0010 ppm
Concentration per Run 1	95.3832 %	98.0642 %	97.8166 %	94.5103 %	100.4262 %	99.6719 %	-0.0035 ppm
Concentration per Run 2	100.7585 %	97.9887 %	98.4712 %	103.9301 %	101.3404 %	99.6330 %	0.0004 ppm
Concentration per Run 3	102.8141 %	98.1856 %	98.1418 %	109.0983 %	101.0578 %	100.0043 %	0.0002 ppm
Recovery Percentage 1							-9.595 %
Concentration RSD	3.9 %	0.1 %	0.3 %	7.2 %	0.5 %	0.2 %	231.6 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: LLOQ RL Check
Analysis started at: 6/17/2024 2:23:46 PM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0066 ppm	0.1095 ppm	0.0057 ppm	0.0287 ppm	**0.0130 ppm**	0.0052 ppm	0.1158 ppm
Concentration per Run 1	0.0067 ppm	0.1130 ppm	0.0056 ppm	0.0288 ppm	0.0137 ppm	0.0054 ppm	0.1245 ppm
Concentration per Run 2	0.0068 ppm	0.1097 ppm	0.0061 ppm	0.0287 ppm	0.0127 ppm	0.0051 ppm	0.1146 ppm
Concentration per Run 3	0.0062 ppm	0.1059 ppm	0.0054 ppm	0.0286 ppm	0.0125 ppm	0.0050 ppm	0.1082 ppm
Recovery Percentage 1	94.384 %	109.529 %	113.896 %	95.602 %	129.788 %	103.349 %	115.769 %
Concentration RSD	4.7 %	3.2 %	6.4 %	0.4 %	**5.1 %**	4.4 %	7.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0039 ppm	0.0199 ppm	0.0107 ppm	0.0110 ppm	**0.0811 ppm**	2.7066 ppm	0.1107 ppm
Concentration per Run 1	0.0039 ppm	0.0200 ppm	0.0106 ppm	0.0109 ppm	0.0836 ppm	2.8178 ppm	0.1109 ppm
Concentration per Run 2	0.0039 ppm	0.0199 ppm	0.0108 ppm	0.0110 ppm	0.0801 ppm	2.6527 ppm	0.1102 ppm
Concentration per Run 3	0.0039 ppm	0.0199 ppm	0.0106 ppm	0.0112 ppm	0.0795 ppm	2.6492 ppm	0.1109 ppm
Recovery Percentage 1	96.689 %	99.598 %	106.717 %	110.314 %	162.181 %	108.264 %	110.659 %
Concentration RSD	0.2 %	0.2 %	0.7 %	1.4 %	**2.8 %**	3.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0108 ppm	0.0474 ppm	2.0991 ppm	0.0282 ppm	0.0099 ppm	0.0483 ppm	0.0101 ppm
Concentration per Run 1	0.0114 ppm	0.0472 ppm	2.2019 ppm	0.0282 ppm	0.0098 ppm	0.0491 ppm	0.0103 ppm
Concentration per Run 2	0.0106 ppm	0.0473 ppm	2.0513 ppm	0.0280 ppm	0.0101 ppm	0.0475 ppm	0.0095 ppm
Concentration per Run 3	0.0104 ppm	0.0475 ppm	2.0441 ppm	0.0282 ppm	0.0100 ppm	0.0483 ppm	0.0105 ppm
Recovery Percentage 1	107.900 %	94.706 %	104.956 %	112.635 %	99.384 %	96.596 %	100.895 %
Concentration RSD	5.3 %	0.4 %	4.2 %	0.5 %	1.5 %	1.7 %	5.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5036 ppm	0.0499 ppm	0.0101 ppm	0.0528 ppm	**0.0209 ppm**	0.0102 ppm	**0.0445 ppm**
Concentration per Run 1	0.5030 ppm	0.0500 ppm	0.0106 ppm	0.0528 ppm	0.0213 ppm	0.0102 ppm	0.0446 ppm
Concentration per Run 2	0.5037 ppm	0.0498 ppm	0.0098 ppm	0.0531 ppm	0.0201 ppm	0.0101 ppm	0.0446 ppm
Concentration per Run 3	0.5040 ppm	0.0500 ppm	0.0099 ppm	0.0525 ppm	0.0212 ppm	0.0103 ppm	0.0444 ppm
Recovery Percentage 1	100.714 %	99.841 %	101.081 %	105.592 %	104.401 %	101.952 %	890.507 %
Concentration RSD	0.1 %	0.3 %	4.4 %	0.5 %	3.0 %	1.1 %	**0.3 %**

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0214 %	98.1743 %	98.2643 %	104.6671 %	101.1097 %	101.6633 %	0.0094 ppm
Concentration per Run 1	95.9166 %	98.3407 %	98.2458 %	97.6228 %	101.2021 %	101.4769 %	0.0087 ppm
Concentration per Run 2	102.1473 %	98.0289 %	98.3196 %	106.4421 %	101.2568 %	101.6242 %	0.0107 ppm
Concentration per Run 3	102.0001 %	98.1532 %	98.2275 %	109.9363 %	100.8701 %	101.8889 %	0.0087 ppm
Recovery Percentage 1							93.807 %
Concentration RSD	3.6 %	0.2 %	0.0 %	6.1 %	0.2 %	0.2 %	12.6 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: ICSA
Analysis started at: 6/17/2024 2:30:20 PM
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	492.0300 ppm	-0.0095 ppm	-0.0009 ppm	0.0020 ppm	-0.0001 ppm	447.8279 ppm
Concentration per Run 1	-0.0006 ppm	497.2806 ppm	-0.0099 ppm	-0.0013 ppm	0.0021 ppm	-0.0002 ppm	453.8816 ppm
Concentration per Run 2	-0.0005 ppm	488.6389 ppm	-0.0061 ppm	-0.0010 ppm	0.0020 ppm	-0.0001 ppm	444.5880 ppm
Concentration per Run 3	-0.0003 ppm	490.1704 ppm	-0.0125 ppm	-0.0003 ppm	0.0019 ppm	-0.0001 ppm	445.0142 ppm
Recovery Percentage 1	-7.111 %	98.406 %	-189.535 %	-2.915 %	20.172 %	-2.920 %	89.566 %
Concentration RSD	30.3 %	0.9 %	34.2 %	54.3 %	3.3 %	32.0 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0054 ppm	0.0006 ppm	-0.0002 ppm	0.0016 ppm	178.2522 ppm	0.0802 ppm	481.6312 ppm
Concentration per Run 1	-0.0056 ppm	0.0004 ppm	-0.0004 ppm	0.0018 ppm	182.1357 ppm	0.0766 ppm	481.1479 ppm
Concentration per Run 2	-0.0053 ppm	0.0007 ppm	-0.0002 ppm	0.0016 ppm	176.1943 ppm	0.0705 ppm	482.1844 ppm
Concentration per Run 3	-0.0055 ppm	0.0005 ppm	0.0001 ppm	0.0014 ppm	176.4267 ppm	0.0935 ppm	481.5612 ppm
Recovery Percentage 1	-136.113 %	2.785 %	-1.655 %	16.205 %	89.126 %	3.208 %	96.326 %
Concentration RSD	2.2 %	29.4 %	143.0 %	10.4 %	1.9 %	14.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0022 ppm	-0.0015 ppm	0.0564 ppm	-0.0012 ppm	-0.0011 ppm	0.0037 ppm	0.0010 ppm
Concentration per Run 1	0.0023 ppm	-0.0016 ppm	0.0501 ppm	-0.0013 ppm	-0.0006 ppm	0.0034 ppm	0.0018 ppm
Concentration per Run 2	0.0021 ppm	-0.0017 ppm	0.0583 ppm	-0.0013 ppm	-0.0018 ppm	0.0042 ppm	0.0010 ppm
Concentration per Run 3	0.0021 ppm	-0.0012 ppm	0.0607 ppm	-0.0011 ppm	-0.0008 ppm	0.0036 ppm	0.0001 ppm
Recovery Percentage 1	21.837 %	-2.939 %	2.818 %	-4.951 %	-10.689 %	7.480 %	9.814 %
Concentration RSD	5.5 %	17.9 %	9.9 %	7.5 %	57.6 %	11.4 %	91.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0044 ppm	0.0009 ppm	0.0044 ppm	0.0036 ppm	-0.0050 ppm	-0.0010 ppm	0.0005 ppm
Concentration per Run 1	0.0073 ppm	0.0004 ppm	0.0043 ppm	0.0040 ppm	-0.0057 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0044 ppm	0.0005 ppm	0.0044 ppm	0.0033 ppm	-0.0064 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 3	0.0015 ppm	0.0018 ppm	0.0045 ppm	0.0033 ppm	-0.0029 ppm	-0.0011 ppm	0.0007 ppm
Recovery Percentage 1	0.877 %	1.786 %	43.753 %	35.544 %	-24.861 %	-9.687 %	9.877 %
Concentration RSD	65.2 %	88.6 %	1.8 %	11.3 %	37.3 %	22.4 %	33.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.5867 %	80.2412 %	80.6981 %	107.4446 %	76.1717 %	83.9588 %	0.0085 ppm
Concentration per Run 1	93.6696 %	80.4245 %	80.8093 %	104.4526 %	76.3943 %	84.1177 %	0.0050 ppm
Concentration per Run 2	93.8957 %	80.1729 %	80.6137 %	109.0199 %	76.0249 %	84.0050 %	0.0105 ppm
Concentration per Run 3	93.1949 %	80.1261 %	80.6712 %	108.8614 %	76.0959 %	83.7538 %	0.0100 ppm
Recovery Percentage 1							84.970 %
Concentration RSD	0.4 %	0.2 %	0.1 %	2.4 %	0.3 %	0.2 %	35.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: SIC Cr Mn V Ti (Si Contamination)
Analysis started at: 6/17/2024 2:55:46 PM
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0012 ppm	0.0081 ppm	-0.0080 ppm	0.0021 ppm	0.0005 ppm	-0.0023 ppm	0.0267 ppm
Concentration per Run 1	-0.0010 ppm	0.0054 ppm	-0.0074 ppm	0.0021 ppm	0.0005 ppm	-0.0023 ppm	0.0286 ppm
Concentration per Run 2	-0.0011 ppm	0.0106 ppm	-0.0086 ppm	0.0023 ppm	0.0005 ppm	-0.0023 ppm	0.0256 ppm
Concentration per Run 3	-0.0015 ppm	0.0081 ppm	-0.0080 ppm	0.0019 ppm	0.0005 ppm	-0.0022 ppm	0.0259 ppm
Recovery Percentage 1	-17.647 %	0.002 %	-159.742 %	6.992 %	4.544 %	-45.251 %	0.005 %
Concentration RSD	21.3 %	32.4 %	7.4 %	7.8 %	0.7 %	2.2 %	6.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0037 ppm	-0.0132 ppm	20.4567 ppm	-0.0109 ppm	0.0147 ppm	0.0094 ppm	-0.0150 ppm
Concentration per Run 1	-0.0037 ppm	-0.0130 ppm	20.4615 ppm	-0.0109 ppm	0.0145 ppm	0.0221 ppm	-0.0152 ppm
Concentration per Run 2	-0.0037 ppm	-0.0131 ppm	20.4796 ppm	-0.0109 ppm	0.0143 ppm	0.0117 ppm	-0.0139 ppm
Concentration per Run 3	-0.0037 ppm	-0.0133 ppm	20.4291 ppm	-0.0109 ppm	0.0153 ppm	-0.0056 ppm	-0.0160 ppm
Recovery Percentage 1	-92.954 %	-65.790 %	204,567.253 %	-109.152 %	0.007 %	0.376 %	-0.003 %
Concentration RSD	0.2 %	1.2 %	0.1 %	0.2 %	3.9 %	148.8 %	7.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	19.6731 ppm	-0.0031 ppm	0.0162 ppm	0.0005 ppm	-0.0063 ppm	-0.0060 ppm	-0.0016 ppm
Concentration per Run 1	20.1130 ppm	-0.0031 ppm	0.0126 ppm	0.0004 ppm	-0.0062 ppm	-0.0050 ppm	-0.0018 ppm
Concentration per Run 2	19.4664 ppm	-0.0031 ppm	0.0188 ppm	0.0005 ppm	-0.0064 ppm	-0.0073 ppm	-0.0008 ppm
Concentration per Run 3	19.4397 ppm	-0.0031 ppm	0.0172 ppm	0.0005 ppm	-0.0062 ppm	-0.0058 ppm	-0.0022 ppm
Recovery Percentage 1	196,730.561 %	-6.186 %	0.809 %	1.844 %	-62.547 %	-12.044 %	-15.866 %
Concentration RSD	1.9 %	1.2 %	19.8 %	14.8 %	1.8 %	19.5 %	46.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.6215 ppm	-0.0038 ppm	0.0006 ppm	19.9771 ppm	-0.0383 ppm	10.0765 ppm	0.0007 ppm
Concentration per Run 1	-0.6170 ppm	-0.0040 ppm	0.0006 ppm	19.9853 ppm	-0.0382 ppm	10.0758 ppm	0.0005 ppm
Concentration per Run 2	-0.6239 ppm	-0.0035 ppm	0.0007 ppm	19.9559 ppm	-0.0379 ppm	10.0897 ppm	0.0008 ppm
Concentration per Run 3	-0.6237 ppm	-0.0037 ppm	0.0006 ppm	19.9900 ppm	-0.0389 ppm	10.0640 ppm	0.0008 ppm
Recovery Percentage 1	-124.306 %	-7.513 %	6.130 %	199,770.617 %	-191.718 %	100,765.053 %	13.691 %
Concentration RSD	0.6 %	6.3 %	6.5 %	0.1 %	1.3 %	0.1 %	28.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.4482 %	97.0433 %	97.6668 %	116.7976 %	97.8103 %	101.3492 %	-0.0034 ppm
Concentration per Run 1	98.9222 %	97.2049 %	98.0024 %	112.5611 %	98.1704 %	101.3735 %	-0.0008 ppm
Concentration per Run 2	101.4596 %	96.8913 %	97.5330 %	118.7557 %	97.6105 %	101.3060 %	-0.0043 ppm
Concentration per Run 3	100.9626 %	97.0336 %	97.4651 %	119.0761 %	97.6500 %	101.3680 %	-0.0053 ppm
Recovery Percentage 1							-34.351 %
Concentration RSD	1.3 %	0.2 %	0.3 %	3.1 %	0.3 %	0.0 %	69.2 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: LDR Check
Analysis started at: 6/17/2024 3:02:59 PM
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0678 ppm	23.3088 ppm	20.3565 ppm	18.7885 ppm	4.9511 ppm	0.0270 ppm
Concentration per Run 1	0.0007 ppm	0.0555 ppm	23.3080 ppm	20.3222 ppm	18.8473 ppm	4.9751 ppm	0.0240 ppm
Concentration per Run 2	0.0006 ppm	0.0728 ppm	23.2953 ppm	20.3372 ppm	18.7921 ppm	4.9749 ppm	0.0301 ppm
Concentration per Run 3	0.0006 ppm	0.0752 ppm	23.3232 ppm	20.4102 ppm	18.7261 ppm	4.9034 ppm	0.0269 ppm
Recovery Percentage 1	0.000 %	0.000 %	116.544 %	101.783 %	93.943 %	99.022 %	0.000 %
Concentration RSD	9.3 %	15.9 %	0.1 %	0.2 %	0.3 %	0.8 %	11.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	5.1406 ppm	5.2036 ppm	0.0022 ppm	20.5360 ppm	0.0670 ppm	478.2703 ppm	-0.0241 ppm
Concentration per Run 1	5.1386 ppm	5.1981 ppm	0.0023 ppm	20.6139 ppm	0.0663 ppm	488.1580 ppm	-0.0233 ppm
Concentration per Run 2	5.1338 ppm	5.1978 ppm	0.0019 ppm	20.4612 ppm	0.0678 ppm	478.1279 ppm	-0.0243 ppm
Concentration per Run 3	5.1494 ppm	5.2149 ppm	0.0025 ppm	20.5330 ppm	0.0669 ppm	468.5251 ppm	-0.0248 ppm
Recovery Percentage 1	102.812 %	104.072 %	0.000 %	102.680 %	0.000 %	95.654 %	0.000 %
Concentration RSD	0.2 %	0.2 %	14.9 %	0.4 %	1.1 %	2.1 %	3.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	5.2368 ppm	389.6298 ppm	9.9440 ppm	48.8403 ppm	5.3544 ppm	5.2205 ppm
Concentration per Run 1	0.0008 ppm	5.2201 ppm	391.2986 ppm	9.9313 ppm	48.7933 ppm	5.3363 ppm	5.1991 ppm
Concentration per Run 2	0.0009 ppm	5.2332 ppm	395.0679 ppm	9.9326 ppm	48.7787 ppm	5.3546 ppm	5.2155 ppm
Concentration per Run 3	0.0008 ppm	5.2571 ppm	382.5229 ppm	9.9680 ppm	48.9489 ppm	5.3724 ppm	5.2468 ppm
Recovery Percentage 1	0.000 %	104.736 %	77.926 %	99.440 %	97.681 %	107.089 %	104.409 %
Concentration RSD	7.8 %	0.4 %	1.7 %	0.2 %	0.2 %	0.3 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	22.9249 ppm	7.6810 ppm	4.7318 ppm	-0.0003 ppm	4.5677 ppm	-0.0175 ppm	20.7142 ppm
Concentration per Run 1	22.8722 ppm	7.6805 ppm	4.6709 ppm	0.0001 ppm	4.5645 ppm	-0.0174 ppm	20.7182 ppm
Concentration per Run 2	22.9040 ppm	7.6692 ppm	4.7728 ppm	-0.0004 ppm	4.5636 ppm	-0.0174 ppm	20.6834 ppm
Concentration per Run 3	22.9984 ppm	7.6934 ppm	4.7516 ppm	-0.0005 ppm	4.5750 ppm	-0.0176 ppm	20.7409 ppm
Recovery Percentage 1	114.624 %	76.810 %	94.635 %	0.000 %	91.354 %	0.000 %	103.571 %
Concentration RSD	0.3 %	0.2 %	1.1 %	133.6 %	0.1 %	0.6 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.4360 %	80.9664 %	78.1791 %	112.7414 %	76.9806 %	85.3008 %	18.6328 ppm
Concentration per Run 1	97.1118 %	81.1347 %	78.2155 %	112.5853 %	77.1216 %	85.3177 %	18.5974 ppm
Concentration per Run 2	95.8763 %	80.8746 %	78.2827 %	112.8305 %	77.1060 %	85.2811 %	18.7045 ppm
Concentration per Run 3	96.3199 %	80.8898 %	78.0390 %	112.8082 %	76.7143 %	85.3036 %	18.5965 ppm
Recovery Percentage 1							93.164 %
Concentration RSD	0.6 %	0.2 %	0.2 %	0.1 %	0.3 %	0.0 %	0.3 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: LLOQ RL 005 ZN
Analysis started at: 6/17/2024 3:20:15 PM
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0044 ppm	0.0051 ppm	0.0060 ppm	0.0081 ppm	0.0047 ppm	0.0048 ppm	0.0033 ppm
Concentration per Run 1	0.0045 ppm	0.0069 ppm	0.0056 ppm	0.0083 ppm	0.0049 ppm	0.0050 ppm	0.0061 ppm
Concentration per Run 2	0.0046 ppm	0.0043 ppm	0.0060 ppm	0.0080 ppm	0.0045 ppm	0.0047 ppm	0.0014 ppm
Concentration per Run 3	0.0041 ppm	0.0041 ppm	0.0066 ppm	0.0079 ppm	0.0046 ppm	0.0047 ppm	0.0023 ppm
Recovery Percentage 1	88.319 %	101.755 %	120.465 %	161.763 %	93.642 %	95.957 %	0.000 %
Concentration RSD	5.7 %	31.5 %	8.4 %	2.1 %	4.9 %	4.1 %	74.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0044 ppm	0.0046 ppm	0.0049 ppm	0.0049 ppm	0.0079 ppm	0.2943 ppm	0.0052 ppm
Concentration per Run 1	0.0045 ppm	0.0046 ppm	0.0048 ppm	0.0049 ppm	0.0085 ppm	0.3103 ppm	0.0057 ppm
Concentration per Run 2	0.0044 ppm	0.0047 ppm	0.0050 ppm	0.0049 ppm	0.0082 ppm	0.2910 ppm	0.0046 ppm
Concentration per Run 3	0.0044 ppm	0.0047 ppm	0.0000 ppm	0.0000 ppm	0.0071 ppm	0.2817 ppm	0.0000 ppm
Recovery Percentage 1	88.711 %	92.869 %	97.802 %	98.017 %	158.809 %	0.000 %	0.000 %
Concentration RSD	0.6 %	1.7 %	2.4 %	0.5 %	9.0 %	4.9 %	15.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0047 ppm	0.0047 ppm	0.1683 ppm	0.0048 ppm	0.0055 ppm	0.0055 ppm	0.0040 ppm
Concentration per Run 1	0.0050 ppm	0.0046 ppm	0.1739 ppm	0.0049 ppm	0.0055 ppm	0.0059 ppm	0.0031 ppm
Concentration per Run 2	0.0046 ppm	0.0048 ppm	0.1643 ppm	0.0050 ppm	0.0052 ppm	0.0054 ppm	0.0048 ppm
Concentration per Run 3	0.0044 ppm	0.0046 ppm	0.1665 ppm	0.0046 ppm	0.0057 ppm	0.0051 ppm	0.0041 ppm
Recovery Percentage 1	93.868 %	93.489 %	0.000 %	96.667 %	109.377 %	109.635 %	79.432 %
Concentration RSD	6.7 %	3.1 %	3.0 %	3.7 %	3.9 %	8.2 %	21.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0514 ppm	0.0052 ppm	0.0048 ppm	0.0050 ppm	0.0048 ppm	0.0047 ppm	0.0058 ppm
Concentration per Run 1	0.0517 ppm	0.0050 ppm	0.0049 ppm	0.0051 ppm	0.0050 ppm	0.0046 ppm	0.0058 ppm
Concentration per Run 2	0.0511 ppm	0.0054 ppm	0.0047 ppm	0.0048 ppm	0.0044 ppm	0.0049 ppm	0.0058 ppm
Concentration per Run 3	0.0515 ppm	0.0053 ppm	0.0047 ppm	0.0000 ppm	0.0051 ppm	0.0000 ppm	0.0057 ppm
Recovery Percentage 1	1,028.836 %	104.610 %	95.182 %	99.548 %	96.918 %	94.830 %	115.239 %
Concentration RSD	0.5 %	4.1 %	3.0 %	4.3 %	7.8 %	4.7 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6333 %	100.7375 %	98.9141 %	101.4150 %	101.6521 %	100.3034 %	0.0061 ppm
Concentration per Run 1	96.6325 %	98.6730 %	99.2108 %	94.0159 %	101.0706 %	99.8630 %	0.0060 ppm
Concentration per Run 2	102.6758 %	99.0364 %	98.8328 %	103.0275 %	101.7622 %	100.7438 %	0.0056 ppm
Concentration per Run 3	102.5914 %	104.5030 %	98.6986 %	107.2015 %	102.1234 %	0.0000 %	0.0066 ppm
Recovery Percentage 1							121.672 %
Concentration RSD	3.4 %	3.2 %	0.3 %	6.6 %	0.5 %	0.6 %	8.6 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: LLOQ RL 0.01 BA
Analysis started at: 6/17/2024 3:26:56 PM
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0090 ppm	0.2440 ppm	0.0116 ppm	0.0119 ppm	0.0096 ppm	0.0100 ppm	0.0931 ppm
Concentration per Run 1	0.0090 ppm	0.2554 ppm	0.0119 ppm	0.0117 ppm	0.0102 ppm	0.0106 ppm	0.0960 ppm
Concentration per Run 2	0.0091 ppm	0.2383 ppm	0.0108 ppm	0.0120 ppm	0.0093 ppm	0.0098 ppm	0.0927 ppm
Concentration per Run 3	0.0088 ppm	0.2384 ppm	0.0123 ppm	0.0120 ppm	0.0094 ppm	0.0097 ppm	0.0906 ppm
Recovery Percentage 1	0.000 %	0.000 %	116.442 %	118.953 %	96.177 %	0.000 %	0.000 %
Concentration RSD	1.3 %	4.0 %	6.6 %	1.2 %	5.1 %	5.1 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0093 ppm	0.0096 ppm	0.0104 ppm	0.0103 ppm	0.2516 ppm	0.4923 ppm	0.1071 ppm
Concentration per Run 1	0.0093 ppm	0.0096 ppm	0.0104 ppm	0.0105 ppm	0.2655 ppm	0.5242 ppm	0.1079 ppm
Concentration per Run 2	0.0093 ppm	0.0097 ppm	0.0105 ppm	0.0102 ppm	0.2453 ppm	0.4871 ppm	0.1062 ppm
Concentration per Run 3	0.0092 ppm	0.0096 ppm	0.0104 ppm	0.0101 ppm	0.2442 ppm	0.4656 ppm	0.1072 ppm
Recovery Percentage 1	0.000 %	96.304 %	104.386 %	102.758 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.2 %	0.5 %	0.9 %	1.9 %	4.8 %	6.0 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0103 ppm	0.0093 ppm	0.2929 ppm	0.0097 ppm	0.0102 ppm	0.0104 ppm	0.0095 ppm
Concentration per Run 1	0.0109 ppm	0.0093 ppm	0.3094 ppm	0.0099 ppm	0.0101 ppm	0.0104 ppm	0.0091 ppm
Concentration per Run 2	0.0097 ppm	0.0092 ppm	0.2827 ppm	0.0096 ppm	0.0102 ppm	0.0107 ppm	0.0098 ppm
Concentration per Run 3	0.0101 ppm	0.0094 ppm	0.2865 ppm	0.0095 ppm	0.0104 ppm	0.0100 ppm	0.0097 ppm
Recovery Percentage 1	102.546 %	93.060 %	0.000 %	96.974 %	102.356 %	0.000 %	95.415 %
Concentration RSD	6.1 %	1.2 %	4.9 %	2.0 %	1.6 %	3.5 %	3.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0892 ppm	0.0099 ppm	0.0097 ppm	0.0103 ppm	0.0105 ppm	0.0099 ppm	0.0095 ppm
Concentration per Run 1	0.0889 ppm	0.0102 ppm	0.0102 ppm	0.0101 ppm	0.0106 ppm	0.0098 ppm	0.0095 ppm
Concentration per Run 2	0.0895 ppm	0.0097 ppm	0.0094 ppm	0.0103 ppm	0.0105 ppm	0.0100 ppm	0.0095 ppm
Concentration per Run 3	0.0890 ppm	0.0097 ppm	0.0094 ppm	0.0105 ppm	0.0104 ppm	0.0100 ppm	0.0094 ppm
Recovery Percentage 1	0.000 %	98.757 %	96.781 %	102.821 %	105.083 %	99.268 %	94.786 %
Concentration RSD	0.4 %	2.7 %	5.1 %	1.7 %	1.3 %	0.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.5791 %	97.6374 %	97.5694 %	102.6885 %	101.7134 %	100.3187 %	**0.0124 ppm**
Concentration per Run 1	93.2711 %	97.8048 %	97.6129 %	94.1202 %	101.5446 %	100.2043 %	0.0119 ppm
Concentration per Run 2	101.0490 %	97.7398 %	97.5147 %	104.8359 %	101.6116 %	100.5169 %	0.0140 ppm
Concentration per Run 3	101.4172 %	97.3676 %	97.5805 %	109.1094 %	101.9840 %	100.2349 %	0.0114 ppm
Recovery Percentage 1							124.320 %
Concentration RSD	4.7 %	0.2 %	0.1 %	7.5 %	0.2 %	0.2 %	**11.0 %**

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: LLOQ RL 0.05 FE
Analysis started at: 6/17/2024 3:33:32 PM
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0437 ppm	0.0444 ppm	0.0481 ppm	0.0455 ppm	0.0463 ppm	0.0480 ppm	0.0471 ppm
Concentration per Run 1	0.0438 ppm	0.0496 ppm	0.0488 ppm	0.0459 ppm	0.0495 ppm	0.0514 ppm	0.0484 ppm
Concentration per Run 2	0.0435 ppm	0.0426 ppm	0.0476 ppm	0.0454 ppm	0.0435 ppm	0.0451 ppm	0.0456 ppm
Concentration per Run 3	0.0438 ppm	0.0410 ppm	0.0479 ppm	0.0452 ppm	0.0457 ppm	0.0474 ppm	0.0474 ppm
Recovery Percentage 1	0.000 %	88.800 %	0.000 %	0.000 %	0.000 %	0.000 %	94.269 %
Concentration RSD	0.4 %	10.2 %	1.3 %	0.7 %	6.5 %	6.6 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0441 ppm	0.0460 ppm	0.0497 ppm	0.0482 ppm	0.0511 ppm	0.5810 ppm	0.0527 ppm
Concentration per Run 1	0.0443 ppm	0.0461 ppm	0.0501 ppm	0.0483 ppm	0.0546 ppm	0.6152 ppm	0.0524 ppm
Concentration per Run 2	0.0441 ppm	0.0460 ppm	0.0496 ppm	0.0482 ppm	0.0484 ppm	0.5438 ppm	0.0518 ppm
Concentration per Run 3	0.0440 ppm	0.0460 ppm	0.0493 ppm	0.0481 ppm	0.0502 ppm	0.5841 ppm	0.0538 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	102.188 %	23.242 %	105.372 %
Concentration RSD	0.4 %	0.1 %	0.8 %	0.3 %	6.3 %	6.2 %	2.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0462 ppm	0.0431 ppm	0.9703 ppm	0.0460 ppm	0.0469 ppm	0.0436 ppm	0.0424 ppm
Concentration per Run 1	0.0494 ppm	0.0431 ppm	1.0371 ppm	0.0461 ppm	0.0474 ppm	0.0435 ppm	0.0424 ppm
Concentration per Run 2	0.0437 ppm	0.0432 ppm	0.9148 ppm	0.0461 ppm	0.0470 ppm	0.0435 ppm	0.0421 ppm
Concentration per Run 3	0.0456 ppm	0.0430 ppm	0.9590 ppm	0.0459 ppm	0.0464 ppm	0.0440 ppm	0.0426 ppm
Recovery Percentage 1	0.000 %	0.000 %	97.028 %	0.000 %	0.000 %	87.289 %	0.000 %
Concentration RSD	6.3 %	0.2 %	6.4 %	0.2 %	1.1 %	0.6 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4882 ppm	0.0472 ppm	0.0478 ppm	0.0497 ppm	0.0485 ppm	0.0471 ppm	0.0458 ppm
Concentration per Run 1	0.4902 ppm	0.0471 ppm	0.0511 ppm	0.0500 ppm	0.0495 ppm	0.0474 ppm	0.0461 ppm
Concentration per Run 2	0.4870 ppm	0.0471 ppm	0.0450 ppm	0.0495 ppm	0.0485 ppm	0.0471 ppm	0.0457 ppm
Concentration per Run 3	0.4875 ppm	0.0474 ppm	0.0473 ppm	0.0495 ppm	0.0477 ppm	0.0469 ppm	0.0457 ppm
Recovery Percentage 1	97.646 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	91.667 %
Concentration RSD	0.3 %	0.4 %	6.5 %	0.6 %	1.8 %	0.6 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.8074 %	98.2690 %	98.9295 %	103.9702 %	103.0181 %	101.4778 %	0.0457 ppm
Concentration per Run 1	95.6329 %	98.0092 %	98.9104 %	94.0208 %	102.6855 %	100.8974 %	0.0482 ppm
Concentration per Run 2	107.2430 %	98.2020 %	98.8530 %	110.3667 %	103.0759 %	101.4971 %	0.0433 ppm
Concentration per Run 3	102.5462 %	98.5958 %	99.0250 %	107.5230 %	103.2930 %	102.0389 %	0.0456 ppm
Recovery Percentage 1							0.000 %
Concentration RSD	5.7 %	0.3 %	0.1 %	8.4 %	0.3 %	0.6 %	5.3 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: xIEC 10 PPM V,SB-,Zn+
Analysis started at: 6/17/2024 3:40:02 PM
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0012 ppm	-0.0003 ppm	0.0017 ppm	0.0005 ppm	0.0005 ppm	0.0205 ppm
Concentration per Run 1	0.0004 ppm	0.0012 ppm	-0.0003 ppm	0.0014 ppm	0.0005 ppm	0.0005 ppm	0.0211 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0017 ppm	0.0005 ppm	0.0005 ppm	0.0224 ppm
Concentration per Run 3	0.0003 ppm	0.0012 ppm	-0.0004 ppm	0.0020 ppm	0.0005 ppm	0.0004 ppm	0.0180 ppm
Recovery Percentage 1	3.961 %	0.000 %	-5.014 %	5.753 %	4.879 %	9.110 %	0.004 %
Concentration RSD	44.8 %	8.5 %	66.3 %	17.3 %	2.5 %	7.6 %	11.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0014 ppm	-0.0007 ppm	0.0077 ppm	0.0593 ppm	0.0039 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0014 ppm	-0.0006 ppm	0.0109 ppm	0.0700 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0013 ppm	-0.0009 ppm	0.0054 ppm	0.0713 ppm	0.0047 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0014 ppm	-0.0007 ppm	0.0068 ppm	0.0366 ppm	0.0038 ppm
Recovery Percentage 1	-0.379 %	-0.086 %	13.982 %	-7.096 %	0.004 %	2.372 %	0.001 %
Concentration RSD	97.9 %	53.0 %	3.6 %	17.5 %	37.2 %	33.2 %	20.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0081 ppm	-0.0026 ppm	0.0403 ppm	0.0002 ppm	-0.0003 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	-0.0080 ppm	-0.0026 ppm	0.0382 ppm	0.0003 ppm	-0.0003 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	-0.0081 ppm	-0.0026 ppm	0.0393 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 3	-0.0082 ppm	-0.0025 ppm	0.0435 ppm	0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0005 ppm
Recovery Percentage 1	-81.105 %	-5.113 %	2.017 %	0.854 %	-2.508 %	1.491 %	3.280 %
Concentration RSD	0.8 %	1.9 %	7.0 %	30.1 %	138.2 %	43.4 %	105.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0028 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0411 ppm	9.5835 ppm	0.0031 ppm
Concentration per Run 1	0.0024 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	-0.0408 ppm	9.5789 ppm	0.0030 ppm
Concentration per Run 2	0.0030 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0414 ppm	9.6138 ppm	0.0031 ppm
Concentration per Run 3	0.0029 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0410 ppm	9.5577 ppm	0.0031 ppm
Recovery Percentage 1	0.553 %	0.483 %	1.049 %	2.202 %	-205.339 %	95,834.700 %	61.179 %
Concentration RSD	11.7 %	90.0 %	63.1 %	90.0 %	0.7 %	0.3 %	2.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.0468 %	99.4219 %	99.3316 %	104.4106 %	103.1596 %	102.3029 %	0.0011 ppm
Concentration per Run 1	102.6215 %	99.4433 %	99.5876 %	103.6269 %	103.1913 %	101.9735 %	0.0006 ppm
Concentration per Run 2	101.5292 %	99.5908 %	99.1507 %	102.1469 %	102.9144 %	102.3937 %	0.0019 ppm
Concentration per Run 3	101.9895 %	99.2315 %	99.2564 %	107.4580 %	103.3732 %	102.5416 %	0.0007 ppm
Recovery Percentage 1							10.599 %
Concentration RSD	0.5 %	0.2 %	0.2 %	2.6 %	0.2 %	0.3 %	68.1 %

LabBook: WG1935287_06172024T6.imexp

Sample: SIC IEC 20 Cr SB-, ZN+
Analysis started at: 6/17/2024 3:50:40 PM
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0017 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	-0.0035 ppm	-0.0012 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0017 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	-0.0022 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	0.282 %	0.000 %	-34.224 %	2.882 %	0.955 %	0.095 %	0.000 %
Concentration RSD	544.2 %	594.3 %	30.0 %	25.7 %	27.7 %	194.7 %	77.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0035 ppm	-0.0027 ppm	19.4106 ppm	-0.0001 ppm	0.0027 ppm	0.0388 ppm	0.0003 ppm
Concentration per Run 1	-0.0035 ppm	-0.0027 ppm	19.4667 ppm	-0.0001 ppm	0.0033 ppm	0.0267 ppm	0.0004 ppm
Concentration per Run 2	-0.0034 ppm	-0.0026 ppm	19.2949 ppm	0.0000 ppm	0.0032 ppm	0.0499 ppm	-0.0005 ppm
Concentration per Run 3	-0.0035 ppm	-0.0026 ppm	19.4703 ppm	-0.0002 ppm	0.0017 ppm	0.0398 ppm	0.0010 ppm
Recovery Percentage 1	-86.494 %	-13.250 %	194,106.377 %	-0.917 %	0.001 %	1.552 %	0.000 %
Concentration RSD	1.3 %	3.1 %	0.5 %	129.6 %	33.9 %	29.9 %	245.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0214 ppm	0.0002 ppm	-0.0047 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0249 ppm	0.0002 ppm	-0.0044 ppm	-0.0006 ppm	-0.0020 ppm
Concentration per Run 2	0.0005 ppm	0.0003 ppm	0.0183 ppm	0.0001 ppm	-0.0047 ppm	0.0008 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0209 ppm	0.0002 ppm	-0.0050 ppm	-0.0002 ppm	-0.0015 ppm
Recovery Percentage 1	3.746 %	0.363 %	1.068 %	0.627 %	-47.026 %	-0.016 %	-14.615 %
Concentration RSD	58.5 %	79.6 %	15.6 %	57.8 %	5.6 %	8,857.2 %	37.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm	0.0032 ppm	0.0000 ppm
Concentration per Run 1	-0.1055 ppm	-0.0007 ppm	-0.0001 ppm	0.0008 ppm	0.0007 ppm	0.0029 ppm	-0.0001 ppm
Concentration per Run 2	0.1035 ppm	-0.0005 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0033 ppm	-0.0002 ppm
Concentration per Run 3	0.0019 ppm	-0.0007 ppm	0.0000 ppm	0.0008 ppm	0.0010 ppm	0.0035 ppm	0.0003 ppm
Recovery Percentage 1	-0.007 %	-1.300 %	-0.180 %	8.202 %	3.580 %	32.400 %	-0.030 %
Concentration RSD	291,263.1 %	21.0 %	265.1 %	7.0 %	45.8 %	8.7 %	18,349.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7740 %	100.1741 %	100.4811 %	112.4495 %	102.1391 %	102.8615 %	-0.0032 ppm
Concentration per Run 1	99.2229 %	100.2582 %	100.5993 %	105.4968 %	101.6409 %	102.4800 %	-0.0034 ppm
Concentration per Run 2	103.1983 %	99.9232 %	100.3996 %	114.7825 %	102.7777 %	102.7594 %	-0.0018 ppm
Concentration per Run 3	102.9009 %	100.3410 %	100.4445 %	117.0693 %	101.9988 %	103.3451 %	-0.0042 ppm
Recovery Percentage 1							-31.579 %
Concentration RSD	2.2 %	0.2 %	0.1 %	5.5 %	0.6 %	0.4 %	39.0 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: xSIC IEC 20 Ti ZN+
Analysis started at: 6/17/2024 4:00:52 PM
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0018 ppm	0.0005 ppm	-0.0010 ppm	0.0024 ppm	0.0000 ppm	-0.0026 ppm	0.0051 ppm
Concentration per Run 1	-0.0018 ppm	0.0008 ppm	-0.0016 ppm	0.0025 ppm	-0.0001 ppm	-0.0028 ppm	0.0080 ppm
Concentration per Run 2	-0.0017 ppm	0.0002 ppm	-0.0012 ppm	0.0026 ppm	0.0000 ppm	-0.0025 ppm	0.0032 ppm
Concentration per Run 3	-0.0019 ppm	0.0005 ppm	-0.0002 ppm	0.0022 ppm	0.0001 ppm	-0.0024 ppm	0.0041 ppm
Recovery Percentage 1	-25.412 %	0.000 %	-20.077 %	8.138 %	-0.382 %	-51.937 %	0.001 %
Concentration RSD	5.6 %	60.2 %	73.7 %	7.3 %	221.8 %	7.2 %	50.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0081 ppm	-0.0009 ppm	-0.0079 ppm	0.0014 ppm	0.0336 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0082 ppm	-0.0007 ppm	-0.0078 ppm	0.0019 ppm	0.0229 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0080 ppm	-0.0010 ppm	-0.0079 ppm	0.0016 ppm	0.0440 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0080 ppm	-0.0010 ppm	-0.0080 ppm	0.0006 ppm	0.0337 ppm	-0.0025 ppm
Recovery Percentage 1	-0.040 %	-40.261 %	-9.143 %	-78.656 %	0.001 %	1.342 %	0.000 %
Concentration RSD	885.4 %	1.1 %	20.7 %	1.0 %	51.2 %	31.4 %	238.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0182 ppm	0.0001 ppm	-0.0002 ppm	-0.0014 ppm	-0.0019 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0146 ppm	0.0002 ppm	-0.0004 ppm	-0.0016 ppm	-0.0011 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	0.0186 ppm	0.0002 ppm	0.0001 ppm	-0.0014 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0212 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	-0.0027 ppm
Recovery Percentage 1	1.373 %	-0.497 %	0.908 %	0.599 %	-1.537 %	-2.796 %	-19.090 %
Concentration RSD	65.8 %	30.8 %	18.3 %	31.9 %	190.5 %	16.7 %	41.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1234 ppm	-0.0015 ppm	0.0002 ppm	**18.0654 ppm**	0.0068 ppm	-0.0073 ppm	-0.0006 ppm
Concentration per Run 1	0.1293 ppm	-0.0015 ppm	0.0001 ppm	18.0838 ppm	0.0065 ppm	-0.0074 ppm	-0.0007 ppm
Concentration per Run 2	0.1224 ppm	-0.0017 ppm	0.0002 ppm	18.0929 ppm	0.0072 ppm	-0.0073 ppm	-0.0006 ppm
Concentration per Run 3	0.1185 ppm	-0.0013 ppm	0.0002 ppm	18.0194 ppm	0.0067 ppm	-0.0073 ppm	-0.0006 ppm
Recovery Percentage 1	24.683 %	-2.991 %	1.630 %	180,653.801 %	33.906 %	-73.208 %	-12.957 %
Concentration RSD	4.4 %	12.7 %	49.2 %	**0.2 %**	5.3 %	1.2 %	7.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3337 %	99.3697 %	100.0586 %	131.3231 %	100.6584 %	103.6182 %	-0.0005 ppm
Concentration per Run 1	94.9338 %	99.4619 %	100.1756 %	136.2786 %	100.4914 %	103.8289 %	-0.0005 ppm
Concentration per Run 2	101.1896 %	99.1292 %	99.9912 %	130.6411 %	100.8044 %	103.4068 %	-0.0005 ppm
Concentration per Run 3	101.8777 %	99.5179 %	100.0088 %	127.0496 %	100.6793 %	103.6190 %	-0.0006 ppm
Recovery Percentage 1							-5.391 %
Concentration RSD	3.9 %	0.2 %	0.1 %	3.5 %	0.2 %	0.2 %	15.2 %

LabBook: WG1935287_06172024T6.imexp

Sample: xLDR 10 SN
Analysis started at: 6/17/2024 4:16:06 PM
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0112 ppm	0.0006 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0097 ppm	0.0013 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0146 ppm	0.0009 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0092 ppm	-0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration RSD	193.1 %	26.9 %	141.1 %	23.1 %	44.9 %	31.2 %	103.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0024 ppm	0.0109 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0024 ppm	0.0179 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0029 ppm	0.0104 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0019 ppm	0.0045 ppm	0.0004 ppm
Concentration RSD	160.7 %	157.8 %	94.9 %	14.4 %	20.3 %	61.6 %	128.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0109 ppm	0.0001 ppm	0.0001 ppm	-0.0123 ppm	-0.0005 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	0.0144 ppm	0.0000 ppm	0.0002 ppm	-0.0109 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0049 ppm	0.0002 ppm	0.0000 ppm	-0.0130 ppm	-0.0013 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0134 ppm	0.0002 ppm	0.0001 ppm	-0.0129 ppm	-0.0004 ppm
Concentration RSD	49.5 %	42.1 %	47.7 %	96.8 %	153.8 %	9.6 %	176.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0230 ppm	8.8912 ppm	0.0002 ppm	0.0024 ppm	0.0005 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 1	0.0230 ppm	8.8872 ppm	0.0002 ppm	0.0024 ppm	0.0007 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	0.0229 ppm	8.8925 ppm	0.0002 ppm	0.0023 ppm	0.0006 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 3	0.0231 ppm	8.8939 ppm	0.0002 ppm	0.0024 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration RSD	0.5 %	0.0 %	7.8 %	2.0 %	40.4 %	255.5 %	4.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3059 %	100.9074 %	100.3998 %	108.4133 %	103.7750 %	104.2930 %	0.0005 ppm
Concentration per Run 1	96.4866 %	101.1023 %	100.7096 %	100.5513 %	104.0135 %	104.2543 %	0.0006 ppm
Concentration per Run 2	103.9694 %	101.1258 %	100.0751 %	110.5900 %	103.5603 %	104.5043 %	0.0007 ppm
Concentration per Run 3	103.4618 %	100.4941 %	100.4146 %	114.0986 %	103.7514 %	104.1203 %	0.0003 ppm
Concentration RSD	4.1 %	0.4 %	0.3 %	6.5 %	0.2 %	0.2 %	36.0 %

LabBook: WG1935287_06172024T6.imexp

Sample: LDR 20 AS
Analysis started at: 6/17/2024 4:22:46 PM
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0008 ppm	18.3039 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	-0.0004 ppm	0.0027 ppm	18.3078 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	-0.0020 ppm	18.2967 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0018 ppm	18.3071 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration RSD	128.1 %	294.0 %	0.0 %	39.1 %	60.5 %	631.6 %	376.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0036 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0065 ppm	0.0030 ppm	0.0017 ppm
Concentration per Run 1	-0.0037 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0020 ppm	0.0004 ppm
Concentration per Run 2	-0.0036 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0150 ppm	0.0133 ppm	0.0027 ppm
Concentration per Run 3	-0.0036 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0020 ppm	-0.0062 ppm	0.0021 ppm
Concentration RSD	0.5 %	78.8 %	200.8 %	38.4 %	112.7 %	326.0 %	68.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0160 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0182 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0143 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	-0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0154 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm
Concentration RSD	155.8 %	16.7 %	12.4 %	29.4 %	108.9 %	34.6 %	67.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0018 ppm	0.0050 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0021 ppm	0.0056 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.0018 ppm	0.0050 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0016 ppm	0.0044 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0008 ppm
Concentration RSD	13.7 %	12.3 %	373.0 %	230.1 %	81.5 %	464.7 %	7.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3115 %	100.6284 %	100.5876 %	102.8007 %	103.8116 %	103.1497 %	-0.0007 ppm
Concentration per Run 1	96.2880 %	100.5981 %	100.5994 %	93.6096 %	103.4156 %	102.8346 %	-0.0007 ppm
Concentration per Run 2	103.4211 %	100.6680 %	100.5498 %	104.7417 %	103.8203 %	103.1912 %	-0.0010 ppm
Concentration per Run 3	104.2255 %	100.6192 %	100.6136 %	110.0508 %	104.1989 %	103.4233 %	-0.0002 ppm
Concentration RSD	4.3 %	0.0 %	0.0 %	8.2 %	0.4 %	0.3 %	60.2 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: xLDR 20 Si
Analysis started at: 6/17/2024 4:29:28 PM
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0059 ppm	-0.0084 ppm	0.0035 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0065 ppm	-0.0090 ppm	0.0036 ppm	0.0003 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0087 ppm	-0.0079 ppm	0.0035 ppm	0.0001 ppm	0.0004 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0025 ppm	-0.0083 ppm	0.0033 ppm	0.0001 ppm	0.0003 ppm	-0.0017 ppm
Concentration RSD	193.1 %	53.2 %	6.7 %	4.6 %	59.6 %	15.7 %	258.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	-0.0065 ppm	-0.0001 ppm	-0.0002 ppm	0.0034 ppm	0.0106 ppm	0.0021 ppm
Concentration per Run 1	0.0008 ppm	-0.0066 ppm	-0.0001 ppm	-0.0001 ppm	0.0032 ppm	0.0284 ppm	0.0019 ppm
Concentration per Run 2	0.0008 ppm	-0.0064 ppm	0.0001 ppm	-0.0002 ppm	0.0041 ppm	0.0055 ppm	0.0014 ppm
Concentration per Run 3	0.0008 ppm	-0.0065 ppm	-0.0003 ppm	-0.0003 ppm	0.0031 ppm	-0.0020 ppm	0.0029 ppm
Concentration RSD	0.6 %	1.3 %	183.1 %	63.6 %	15.8 %	149.5 %	37.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0135 ppm	0.0007 ppm	0.0223 ppm	0.0110 ppm	0.0045 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0149 ppm	0.0007 ppm	0.0221 ppm	0.0103 ppm	0.0042 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	0.0131 ppm	0.0005 ppm	0.0220 ppm	0.0113 ppm	0.0051 ppm
Concentration per Run 3	0.0003 ppm	-0.0002 ppm	0.0126 ppm	0.0009 ppm	0.0227 ppm	0.0113 ppm	0.0042 ppm
Concentration RSD	87.3 %	28.1 %	8.6 %	28.9 %	1.8 %	5.3 %	11.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	180.6931 ppm	0.0023 ppm	0.0000 ppm	0.0046 ppm	-0.0013 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 1	180.6840 ppm	0.0025 ppm	0.0000 ppm	0.0044 ppm	-0.0009 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	180.5965 ppm	0.0024 ppm	0.0000 ppm	0.0048 ppm	-0.0015 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 3	180.7988 ppm	0.0021 ppm	0.0001 ppm	0.0046 ppm	-0.0015 ppm	-0.0001 ppm	0.0008 ppm
Concentration RSD	0.1 %	8.0 %	242.4 %	4.4 %	25.8 %	200.7 %	5.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	106.4870 %	99.7644 %	99.7377 %	122.6186 %	96.4358 %	102.8883 %	-0.0007 ppm
Concentration per Run 1	97.6343 %	99.8013 %	99.7156 %	111.8846 %	96.4526 %	102.9192 %	-0.0015 ppm
Concentration per Run 2	103.9256 %	99.7688 %	99.9205 %	119.3041 %	96.7190 %	102.9010 %	0.0006 ppm
Concentration per Run 3	117.9011 %	99.7230 %	99.5770 %	136.6671 %	96.1359 %	102.8448 %	-0.0012 ppm
Concentration RSD	9.7 %	0.0 %	0.2 %	10.4 %	0.3 %	0.0 %	163.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: LDR 20 SI
Analysis started at: 6/17/2024 4:38:17 PM
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0018 ppm	-0.0002 ppm	0.0035 ppm	0.0001 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0006 ppm	0.0035 ppm	0.0001 ppm	0.0000 ppm	0.0123 ppm
Concentration per Run 2	-0.0001 ppm	0.0016 ppm	-0.0004 ppm	0.0036 ppm	0.0001 ppm	0.0000 ppm	0.0147 ppm
Concentration per Run 3	-0.0001 ppm	0.0029 ppm	-0.0007 ppm	0.0034 ppm	0.0001 ppm	-0.0001 ppm	0.0096 ppm
Concentration RSD	162.6 %	58.0 %	420.4 %	3.2 %	30.1 %	147.7 %	20.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0036 ppm	0.0316 ppm	0.0027 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	-0.0003 ppm	0.0000 ppm	0.0030 ppm	0.0479 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0039 ppm	0.0229 ppm	0.0025 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0039 ppm	0.0241 ppm	0.0031 ppm
Concentration RSD	7.5 %	19.7 %	58.6 %	169.3 %	14.6 %	44.5 %	12.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0176 ppm	0.0003 ppm	-0.0036 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	-0.0001 ppm	0.0169 ppm	0.0005 ppm	-0.0037 ppm	0.0011 ppm	-0.0004 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	0.0149 ppm	0.0002 ppm	-0.0038 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0209 ppm	0.0001 ppm	-0.0034 ppm	0.0008 ppm	-0.0006 ppm
Concentration RSD	37.8 %	95.6 %	17.4 %	85.7 %	5.5 %	14.3 %	203.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	18.4082 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	18.3878 ppm	0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 2	18.4088 ppm	0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0017 ppm
Concentration per Run 3	18.4279 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0018 ppm
Concentration RSD	0.1 %	32.0 %	69.1 %	41.2 %	64.8 %	606.9 %	4.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1697 %	101.7947 %	101.5456 %	116.3082 %	104.3301 %	105.8213 %	-0.0002 ppm
Concentration per Run 1	96.3765 %	101.7459 %	101.9320 %	110.2344 %	104.5527 %	105.7731 %	-0.0007 ppm
Concentration per Run 2	103.3029 %	101.9720 %	101.4308 %	117.9963 %	104.4211 %	106.0106 %	-0.0001 ppm
Concentration per Run 3	103.8298 %	101.6662 %	101.2739 %	120.6939 %	104.0165 %	105.6801 %	0.0004 ppm
Concentration RSD	4.1 %	0.2 %	0.3 %	4.7 %	0.3 %	0.2 %	351.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: xLDR 400 NA
Analysis started at: 6/17/2024 4:44:56 PM
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0496 ppm	0.0019 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0162 ppm
Concentration per Run 1	-0.0004 ppm	0.0490 ppm	0.0025 ppm	0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0164 ppm
Concentration per Run 2	-0.0004 ppm	0.0464 ppm	0.0012 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0127 ppm
Concentration per Run 3	-0.0006 ppm	0.0534 ppm	0.0022 ppm	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0195 ppm
Concentration RSD	18.7 %	7.2 %	35.9 %	25.3 %	19.5 %	35.9 %	20.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.0009 ppm	0.0243 ppm	5.3421 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0010 ppm	0.0244 ppm	4.5303 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0014 ppm	0.0008 ppm	0.0244 ppm	5.4301 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0009 ppm	0.0240 ppm	6.0658 ppm	0.0017 ppm
Concentration RSD	891.3 %	33.0 %	8.1 %	8.1 %	0.8 %	14.4 %	82.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	0.0015 ppm	1,418.1078 ppm	0.0005 ppm	-0.0004 ppm	-0.0013 ppm	0.0006 ppm
Concentration per Run 1	0.0009 ppm	0.0016 ppm	1,482.6509 ppm	0.0008 ppm	-0.0007 ppm	-0.0004 ppm	0.0028 ppm
Concentration per Run 2	0.0008 ppm	0.0013 ppm	1,383.0670 ppm	0.0006 ppm	0.0000 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	0.0015 ppm	1,388.6057 ppm	0.0003 ppm	-0.0004 ppm	-0.0022 ppm	-0.0006 ppm
Concentration RSD	3.0 %	9.3 %	3.9 %	46.2 %	102.5 %	72.8 %	291.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0195 ppm	0.0011 ppm	0.0006 ppm	0.0000 ppm	-0.0014 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.0205 ppm	0.0013 ppm	0.0006 ppm	-0.0001 ppm	-0.0021 ppm	0.0004 ppm	0.0011 ppm
Concentration per Run 2	0.0192 ppm	0.0009 ppm	0.0006 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	0.0189 ppm	0.0010 ppm	0.0006 ppm	-0.0001 ppm	-0.0018 ppm	0.0001 ppm	0.0012 ppm
Concentration RSD	4.4 %	22.4 %	0.3 %	188.8 %	66.3 %	81.5 %	6.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	91.7316 %	70.3017 %	74.6423 %	92.1015 %	64.3490 %	72.2476 %	0.0067 ppm
Concentration per Run 1	90.0164 %	70.3420 %	74.5883 %	84.4692 %	64.2211 %	71.9826 %	0.0066 ppm
Concentration per Run 2	92.8811 %	70.4292 %	74.7190 %	93.6794 %	64.4267 %	72.3292 %	0.0066 ppm
Concentration per Run 3	92.2973 %	70.1339 %	74.6197 %	98.1558 %	64.3992 %	72.4309 %	0.0069 ppm
Concentration RSD	1.7 %	0.2 %	0.1 %	7.6 %	0.2 %	0.3 %	2.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: xLDR 400 NA
Analysis started at: 6/17/2024 4:54:15 PM
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	-0.0003 ppm	0.0015 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	-0.0006 ppm	-0.0021 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	-0.0002 ppm	0.0010 ppm	0.0024 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	-0.0005 ppm	0.0004 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration RSD	44.7 %	639.2 %	56.3 %	113.4 %	27.5 %	159.7 %	16.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0022 ppm	0.7788 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0025 ppm	0.7444 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm	0.7802 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0027 ppm	0.8119 ppm	0.0023 ppm
Concentration RSD	1,265.0 %	656.7 %	39.6 %	16.9 %	30.7 %	4.3 %	74.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	333.2344 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	343.4066 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	327.4329 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	328.8636 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm
Concentration RSD	37.8 %	175.7 %	2.7 %	23.0 %	132.9 %	172.6 %	65.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0053 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.0055 ppm	0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 2	0.0051 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 3	0.0053 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm
Concentration RSD	4.2 %	64.3 %	148.9 %	226.7 %	20.2 %	98.7 %	5.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4724 %	87.7376 %	90.4550 %	101.6833 %	83.7156 %	90.3741 %	0.0033 ppm
Concentration per Run 1	97.7228 %	87.6654 %	90.6030 %	92.9428 %	83.2279 %	90.0314 %	0.0031 ppm
Concentration per Run 2	100.6138 %	87.7264 %	90.4413 %	103.7987 %	83.9749 %	90.4615 %	0.0030 ppm
Concentration per Run 3	100.0805 %	87.8210 %	90.3206 %	108.3085 %	83.9441 %	90.6295 %	0.0037 ppm
Concentration RSD	1.5 %	0.1 %	0.2 %	7.8 %	0.5 %	0.3 %	11.8 %

LabBook: WG1935287_06172024T6.imexp

Sample: IEC Li+, LDR 500 CA
Analysis started at: 6/17/2024 5:01:03 PM
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0240 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	-0.0002 ppm	466.0659 ppm
Concentration per Run 1	-0.0008 ppm	0.0240 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0002 ppm	490.2972 ppm
Concentration per Run 2	-0.0003 ppm	0.0238 ppm	0.0006 ppm	0.0000 ppm	0.0011 ppm	-0.0002 ppm	453.9986 ppm
Concentration per Run 3	-0.0008 ppm	0.0242 ppm	-0.0011 ppm	0.0003 ppm	0.0011 ppm	-0.0002 ppm	453.9018 ppm
Recovery Percentage 1	-8.828 %	0.005 %	-4.763 %	0.355 %	11.080 %	-3.786 %	93.213 %
Concentration RSD	42.6 %	0.7 %	361.1 %	158.2 %	3.5 %	5.4 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0046 ppm	0.3514 ppm	0.0031 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	0.0045 ppm	0.3701 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0048 ppm	0.3420 ppm	0.0040 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0045 ppm	0.3420 ppm	0.0035 ppm
Recovery Percentage 1	3.385 %	1.184 %	3.916 %	5.056 %	0.002 %	14.055 %	0.001 %
Concentration RSD	9.4 %	30.0 %	41.2 %	4.3 %	3.5 %	4.6 %	35.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0004 ppm	0.8289 ppm	0.0002 ppm	0.0027 ppm	0.0020 ppm	0.0014 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	0.8694 ppm	0.0001 ppm	0.0021 ppm	0.0025 ppm	0.0012 ppm
Concentration per Run 2	0.0007 ppm	0.0004 ppm	0.8151 ppm	0.0003 ppm	0.0031 ppm	0.0014 ppm	0.0022 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	0.8021 ppm	0.0003 ppm	0.0030 ppm	0.0021 ppm	0.0008 ppm
Recovery Percentage 1	4.785 %	0.736 %	41.443 %	0.996 %	26.995 %	3.983 %	14.238 %
Concentration RSD	36.9 %	16.6 %	4.3 %	58.9 %	19.9 %	29.7 %	50.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0068 ppm	0.0002 ppm	0.0041 ppm	0.0026 ppm	-0.0001 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 1	0.0069 ppm	0.0000 ppm	0.0043 ppm	0.0026 ppm	0.0004 ppm	0.0003 ppm	0.0013 ppm
Concentration per Run 2	0.0069 ppm	0.0000 ppm	0.0040 ppm	0.0027 ppm	-0.0011 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 3	0.0066 ppm	0.0005 ppm	0.0040 ppm	0.0024 ppm	0.0004 ppm	0.0003 ppm	0.0013 ppm
Recovery Percentage 1	1.359 %	0.318 %	41.143 %	25.671 %	-0.357 %	2.992 %	24.772 %
Concentration RSD	3.1 %	165.9 %	4.1 %	6.6 %	1,195.1 %	7.5 %	5.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.1123 %	87.0984 %	87.3195 %	98.6113 %	88.2953 %	89.0032 %	0.0000 ppm
Concentration per Run 1	92.8641 %	87.1736 %	87.0779 %	90.4156 %	87.7985 %	88.8498 %	-0.0022 ppm
Concentration per Run 2	97.7968 %	87.1261 %	87.2566 %	100.4475 %	88.1559 %	89.0774 %	0.0016 ppm
Concentration per Run 3	97.6761 %	86.9956 %	87.6240 %	104.9708 %	88.9316 %	89.0825 %	0.0007 ppm
Recovery Percentage 1							0.085 %
Concentration RSD	2.9 %	0.1 %	0.3 %	7.6 %	0.7 %	0.1 %	23,406.9 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 5:15:32 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4574 ppm	0.4882 ppm	0.4818 ppm	0.4655 ppm	0.4886 ppm	0.5101 ppm	0.4895 ppm
Concentration per Run 1	0.4576 ppm	0.5212 ppm	0.4810 ppm	0.4670 ppm	0.5202 ppm	0.5437 ppm	0.5208 ppm
Concentration per Run 2	0.4576 ppm	0.4742 ppm	0.4817 ppm	0.4647 ppm	0.4742 ppm	0.4946 ppm	0.4759 ppm
Concentration per Run 3	0.4571 ppm	0.4691 ppm	0.4828 ppm	0.4650 ppm	0.4713 ppm	0.4921 ppm	0.4720 ppm
Recovery Percentage 1	91.490 %	97.635 %	96.368 %	93.110 %	97.715 %	102.028 %	97.908 %
Concentration RSD	0.1 %	5.9 %	0.2 %	0.3 %	5.6 %	5.7 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4618 ppm	0.4727 ppm	0.4917 ppm	0.4791 ppm	0.5061 ppm	5.3452 ppm	0.4970 ppm
Concentration per Run 1	0.4633 ppm	0.4735 ppm	0.4925 ppm	0.4787 ppm	0.5396 ppm	5.6740 ppm	0.4957 ppm
Concentration per Run 2	0.4612 ppm	0.4726 ppm	0.4913 ppm	0.4778 ppm	0.4885 ppm	5.1973 ppm	0.5017 ppm
Concentration per Run 3	0.4609 ppm	0.4721 ppm	0.4913 ppm	0.4808 ppm	0.4903 ppm	5.1642 ppm	0.4935 ppm
Recovery Percentage 1	92.360 %	94.546 %	98.342 %	95.819 %	101.230 %	106.904 %	99.390 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.3 %	5.7 %	5.3 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4828 ppm	0.4584 ppm	10.1787 ppm	0.4754 ppm	0.4799 ppm	0.4689 ppm	0.4610 ppm
Concentration per Run 1	0.5141 ppm	0.4585 ppm	10.8190 ppm	0.4763 ppm	0.4812 ppm	0.4692 ppm	0.4610 ppm
Concentration per Run 2	0.4701 ppm	0.4580 ppm	9.8789 ppm	0.4756 ppm	0.4792 ppm	0.4680 ppm	0.4612 ppm
Concentration per Run 3	0.4642 ppm	0.4587 ppm	9.8382 ppm	0.4743 ppm	0.4793 ppm	0.4695 ppm	0.4608 ppm
Recovery Percentage 1	96.563 %	91.679 %	101.787 %	95.077 %	95.977 %	93.785 %	92.207 %
Concentration RSD	5.6 %	0.1 %	5.5 %	0.2 %	0.2 %	0.2 %	0.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2518 ppm	0.4874 ppm	0.4976 ppm	0.4930 ppm	0.4886 ppm	0.4744 ppm	0.4682 ppm
Concentration per Run 1	5.2674 ppm	0.4894 ppm	0.5302 ppm	0.4927 ppm	0.4885 ppm	0.4741 ppm	0.4696 ppm
Concentration per Run 2	5.2504 ppm	0.4867 ppm	0.4824 ppm	0.4931 ppm	0.4886 ppm	0.4745 ppm	0.4680 ppm
Concentration per Run 3	5.2376 ppm	0.4861 ppm	0.4801 ppm	0.4931 ppm	0.4887 ppm	0.4744 ppm	0.4670 ppm
Recovery Percentage 1	100.034 %	97.473 %	99.516 %	98.595 %	97.720 %	94.873 %	93.646 %
Concentration RSD	0.3 %	0.4 %	5.7 %	0.0 %	0.0 %	0.0 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9681 %	98.0221 %	98.9639 %	111.5751 %	98.6714 %	102.1826 %	0.4813 ppm
Concentration per Run 1	92.4614 %	98.0450 %	98.9289 %	104.6680 %	98.4682 %	102.1715 %	0.5115 ppm
Concentration per Run 2	100.8205 %	98.0989 %	99.0096 %	114.0230 %	98.6802 %	102.1521 %	0.4673 ppm
Concentration per Run 3	100.6226 %	97.9223 %	98.9533 %	116.0344 %	98.8658 %	102.2240 %	0.4652 ppm
Recovery Percentage 1							96.263 %
Concentration RSD	4.9 %	0.1 %	0.0 %	5.4 %	0.2 %	0.0 %	5.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 5:21:50 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0006 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 1	-0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0045 ppm
Concentration per Run 2	0.0000 ppm	-0.0019 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0037 ppm
Recovery Percentage 1	-1.841 %	0.000 %	10.671 %	0.997 %	0.410 %	0.292 %	0.000 %
Concentration RSD	80.1 %	284.6 %	95.1 %	72.3 %	82.0 %	183.8 %	120.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.1212 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.1228 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.1165 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.1243 ppm	0.0009 ppm
Recovery Percentage 1	-0.085 %	-0.271 %	-1.471 %	-0.463 %	0.000 %	4.848 %	0.000 %
Concentration RSD	693.0 %	43.9 %	89.4 %	171.8 %	106.5 %	3.4 %	241.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.2533 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	-0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.2596 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0015 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.2452 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	-0.0012 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.2552 ppm	0.0002 ppm	0.0006 ppm	0.0006 ppm	-0.0016 ppm
Recovery Percentage 1	1.868 %	0.426 %	12.667 %	0.816 %	3.373 %	1.139 %	-14.071 %
Concentration RSD	26.2 %	10.2 %	2.9 %	13.0 %	97.6 %	10.5 %	15.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	0.015 %	1.401 %	-0.190 %	0.809 %	1.160 %	-0.326 %	2.661 %
Concentration RSD	751.7 %	8.2 %	468.1 %	144.9 %	148.4 %	232.8 %	37.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.3443 %	99.1013 %	98.9957 %	99.6538 %	102.1382 %	100.8105 %	-0.0001 ppm
Concentration per Run 1	92.7967 %	99.1900 %	98.8252 %	90.2378 %	101.3085 %	100.5812 %	-0.0015 ppm
Concentration per Run 2	101.0993 %	99.0161 %	98.8456 %	101.6944 %	101.8705 %	100.7301 %	0.0011 ppm
Concentration per Run 3	101.1369 %	99.0978 %	99.3163 %	107.0291 %	103.2356 %	101.1201 %	0.0000 ppm
Recovery Percentage 1							-1.414 %
Concentration RSD	4.9 %	0.1 %	0.3 %	8.6 %	1.0 %	0.3 %	917.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: LDR 100 PPM NA
Analysis started at: 6/17/2024 5:33:22 PM
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0021 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0032 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	-0.0003 ppm	0.0022 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	-0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0029 ppm
Concentration RSD	41.4 %	49.8 %	16.3 %	47.9 %	52.6 %	142.6 %	3,203.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0019 ppm	0.1006 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0018 ppm	0.1127 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0020 ppm	0.0906 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0018 ppm	0.0987 ppm	0.0002 ppm
Concentration RSD	618.0 %	152.5 %	103.1 %	60.8 %	6.1 %	11.1 %	255.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	93.3585 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	97.7885 ppm	0.0003 ppm	-0.0002 ppm	0.0004 ppm	-0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	91.1031 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	91.1840 ppm	0.0003 ppm	0.0001 ppm	0.0012 ppm	0.0009 ppm
Concentration RSD	108.5 %	385.2 %	4.1 %	24.5 %	305.9 %	50.9 %	4,881.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0017 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 1	0.0017 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	0.0018 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm	0.0000 ppm	0.0013 ppm
Concentration RSD	10.3 %	81.2 %	19.6 %	352.7 %	75.2 %	85.9 %	3.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7773 %	94.5967 %	96.5043 %	100.4164 %	93.6854 %	97.1391 %	0.0002 ppm
Concentration per Run 1	94.4443 %	94.4612 %	96.6395 %	91.9930 %	93.5251 %	96.7280 %	0.0001 ppm
Concentration per Run 2	101.1305 %	94.7802 %	96.5090 %	102.5180 %	93.6826 %	97.2612 %	0.0007 ppm
Concentration per Run 3	100.7570 %	94.5488 %	96.3645 %	106.7381 %	93.8487 %	97.4280 %	-0.0003 ppm
Concentration RSD	3.8 %	0.2 %	0.1 %	7.6 %	0.2 %	0.4 %	287.9 %

LabBook: WG1935287_06172024T6.imexp

Sample: LDR 200 FE
Analysis started at: 6/17/2024 5:40:03 PM
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0028 ppm	-0.0002 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0021 ppm	-0.0007 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	-0.0002 ppm	0.0040 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	-0.0002 ppm	0.0024 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	-0.0026 ppm
Concentration RSD	164.6 %	34.7 %	219.8 %	12.9 %	20.1 %	66.5 %	673.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0024 ppm	0.0000 ppm	-0.0007 ppm	-0.0023 ppm	183.5992 ppm	0.0894 ppm	-0.0007 ppm
Concentration per Run 1	-0.0026 ppm	0.0000 ppm	-0.0007 ppm	-0.0018 ppm	193.5951 ppm	0.0826 ppm	-0.0024 ppm
Concentration per Run 2	-0.0023 ppm	0.0000 ppm	-0.0006 ppm	-0.0024 ppm	179.1752 ppm	0.0917 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	0.0001 ppm	-0.0009 ppm	-0.0029 ppm	178.0275 ppm	0.0940 ppm	0.0001 ppm
Concentration RSD	8.7 %	165.3 %	23.6 %	23.3 %	4.7 %	6.7 %	191.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	-0.0020 ppm	0.2073 ppm	-0.0037 ppm	0.0008 ppm	-0.0024 ppm	0.0027 ppm
Concentration per Run 1	0.0003 ppm	-0.0019 ppm	0.2090 ppm	-0.0037 ppm	0.0004 ppm	-0.0021 ppm	0.0030 ppm
Concentration per Run 2	0.0002 ppm	-0.0019 ppm	0.2076 ppm	-0.0035 ppm	0.0011 ppm	-0.0022 ppm	0.0041 ppm
Concentration per Run 3	0.0005 ppm	-0.0020 ppm	0.2053 ppm	-0.0038 ppm	0.0009 ppm	-0.0028 ppm	0.0009 ppm
Concentration RSD	45.6 %	3.5 %	0.9 %	2.9 %	47.4 %	17.5 %	60.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0015 ppm	0.0015 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0011 ppm	0.0016 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0018 ppm	0.0013 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0015 ppm	0.0015 ppm	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	24.1 %	10.3 %	54.8 %	25.8 %	14.4 %	36.2 %	87.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0090 %	97.5655 %	97.1004 %	115.3661 %	94.5926 %	101.9083 %	0.0007 ppm
Concentration per Run 1	98.8006 %	97.5896 %	97.3491 %	110.3725 %	94.7250 %	101.9402 %	0.0006 ppm
Concentration per Run 2	102.4931 %	97.5316 %	96.9983 %	117.2593 %	94.4127 %	101.8512 %	0.0000 ppm
Concentration per Run 3	101.7332 %	97.5754 %	96.9539 %	118.4665 %	94.6400 %	101.9336 %	0.0015 ppm
Concentration RSD	1.9 %	0.0 %	0.2 %	3.8 %	0.2 %	0.0 %	110.7 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 5:46:49 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4544 ppm	0.4792 ppm	0.4792 ppm	0.4622 ppm	0.4841 ppm	0.5025 ppm	0.4801 ppm
Concentration per Run 1	0.4554 ppm	0.5103 ppm	0.4791 ppm	0.4629 ppm	0.5149 ppm	0.5362 ppm	0.5160 ppm
Concentration per Run 2	0.4542 ppm	0.4661 ppm	0.4789 ppm	0.4616 ppm	0.4693 ppm	0.4864 ppm	0.4653 ppm
Concentration per Run 3	0.4535 ppm	0.4613 ppm	0.4796 ppm	0.4622 ppm	0.4680 ppm	0.4849 ppm	0.4592 ppm
Recovery Percentage 1	90.872 %	95.847 %	95.842 %	92.449 %	96.820 %	100.501 %	96.028 %
Concentration RSD	0.2 %	5.6 %	0.1 %	0.1 %	5.5 %	5.8 %	6.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4571 ppm	0.4694 ppm	0.4869 ppm	0.4746 ppm	0.5022 ppm	5.1930 ppm	0.4943 ppm
Concentration per Run 1	0.4588 ppm	0.4703 ppm	0.4889 ppm	0.4752 ppm	0.5361 ppm	5.5154 ppm	0.4951 ppm
Concentration per Run 2	0.4563 ppm	0.4687 ppm	0.4853 ppm	0.4746 ppm	0.4869 ppm	5.0265 ppm	0.4946 ppm
Concentration per Run 3	0.4561 ppm	0.4692 ppm	0.4865 ppm	0.4741 ppm	0.4837 ppm	5.0372 ppm	0.4931 ppm
Recovery Percentage 1	91.415 %	93.881 %	97.385 %	94.927 %	100.445 %	103.860 %	98.856 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.1 %	5.9 %	5.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4759 ppm	0.4534 ppm	9.8209 ppm	0.4707 ppm	0.4750 ppm	0.4634 ppm	0.4562 ppm
Concentration per Run 1	0.5064 ppm	0.4531 ppm	10.4355 ppm	0.4721 ppm	0.4766 ppm	0.4643 ppm	0.4579 ppm
Concentration per Run 2	0.4613 ppm	0.4526 ppm	9.5291 ppm	0.4696 ppm	0.4731 ppm	0.4629 ppm	0.4554 ppm
Concentration per Run 3	0.4601 ppm	0.4544 ppm	9.4982 ppm	0.4703 ppm	0.4754 ppm	0.4629 ppm	0.4553 ppm
Recovery Percentage 1	95.187 %	90.675 %	98.209 %	94.132 %	95.003 %	92.674 %	91.236 %
Concentration RSD	5.5 %	0.2 %	5.4 %	0.3 %	0.4 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1913 ppm	0.4825 ppm	0.4919 ppm	0.4897 ppm	0.4840 ppm	0.4716 ppm	0.4637 ppm
Concentration per Run 1	5.1985 ppm	0.4841 ppm	0.5233 ppm	0.4902 ppm	0.4845 ppm	0.4723 ppm	0.4658 ppm
Concentration per Run 2	5.1871 ppm	0.4822 ppm	0.4772 ppm	0.4898 ppm	0.4838 ppm	0.4711 ppm	0.4628 ppm
Concentration per Run 3	5.1883 ppm	0.4811 ppm	0.4750 ppm	0.4892 ppm	0.4837 ppm	0.4714 ppm	0.4624 ppm
Recovery Percentage 1	98.882 %	96.494 %	98.372 %	97.949 %	96.798 %	94.323 %	92.734 %
Concentration RSD	0.1 %	0.3 %	5.5 %	0.1 %	0.1 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4773 %	98.6156 %	99.1672 %	112.6916 %	99.2721 %	102.7175 %	0.4763 ppm
Concentration per Run 1	93.6455 %	98.4755 %	99.3130 %	105.6049 %	99.1492 %	102.5384 %	0.5062 ppm
Concentration per Run 2	102.2065 %	98.8304 %	99.2434 %	114.5623 %	99.4090 %	102.8958 %	0.4636 ppm
Concentration per Run 3	102.5801 %	98.5410 %	98.9451 %	117.9074 %	99.2583 %	102.7184 %	0.4592 ppm
Recovery Percentage 1							95.262 %
Concentration RSD	5.1 %	0.2 %	0.2 %	5.6 %	0.1 %	0.2 %	5.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 5:53:07 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0018 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 1	-0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0037 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0068 ppm
Recovery Percentage 1	-1.663 %	0.000 %	0.081 %	0.596 %	0.826 %	0.517 %	-0.001 %
Concentration RSD	70.5 %	91.5 %	9,794.0 %	8.6 %	49.0 %	27.6 %	135.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0645 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0728 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0485 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0722 ppm	0.0010 ppm
Recovery Percentage 1	0.051 %	0.125 %	-1.732 %	-1.041 %	0.000 %	2.580 %	0.000 %
Concentration RSD	919.4 %	334.0 %	70.5 %	132.0 %	15.3 %	21.5 %	1,607.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0003 ppm	0.1243 ppm	0.0004 ppm	0.0005 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.1271 ppm	0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.1273 ppm	0.0005 ppm	0.0005 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.1186 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0005 ppm
Recovery Percentage 1	0.906 %	0.602 %	6.217 %	1.484 %	5.240 %	0.536 %	6.239 %
Concentration RSD	100.9 %	27.5 %	4.0 %	36.2 %	9.0 %	46.0 %	96.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0010 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0010 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-0.201 %	1.167 %	-0.357 %	0.767 %	2.227 %	-0.706 %	3.372 %
Concentration RSD	21.3 %	11.4 %	131.8 %	91.8 %	67.8 %	47.9 %	59.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6071 %	100.1612 %	100.2181 %	99.9805 %	102.7717 %	101.5701 %	0.0003 ppm
Concentration per Run 1	94.7408 %	100.4034 %	100.1043 %	91.4909 %	102.4869 %	101.3719 %	-0.0002 ppm
Concentration per Run 2	101.9768 %	100.0447 %	100.2207 %	101.9173 %	102.7350 %	101.4650 %	0.0015 ppm
Concentration per Run 3	102.1035 %	100.0354 %	100.3293 %	106.5332 %	103.0931 %	101.8734 %	-0.0003 ppm
Recovery Percentage 1							3.453 %
Concentration RSD	4.2 %	0.2 %	0.1 %	7.7 %	0.3 %	0.3 %	280.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935023-1 WG1935023
Analysis started at: 6/17/2024 6:02:32 PM
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	-0.0002 ppm	-0.0021 ppm	0.0010 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 3	0.0000 ppm	0.0025 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm
Concentration RSD	116.8 %	9,337.1 %	38.4 %	95.5 %	65.2 %	254.5 %	135.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0048 ppm	0.0269 ppm	0.0034 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0050 ppm	0.0305 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0044 ppm	0.0135 ppm	0.0037 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0051 ppm	0.0366 ppm	0.0045 ppm
Concentration RSD	30.0 %	1,181.7 %	77.1 %	38.3 %	7.3 %	44.5 %	41.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0799 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0831 ppm	0.0002 ppm	0.0006 ppm	0.0004 ppm	-0.0007 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	0.0770 ppm	0.0003 ppm	0.0000 ppm	-0.0008 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0795 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0005 ppm
Concentration RSD	38.6 %	82.7 %	3.8 %	34.6 %	112.0 %	13,818.8 %	198.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	-0.0001 ppm	0.0009 ppm
Concentration RSD	44.5 %	95.6 %	46.1 %	81.2 %	20.4 %	182.9 %	5.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.5669 %	102.4874 %	102.2572 %	95.6382 %	104.0806 %	100.2112 %	-0.0006 ppm
Concentration per Run 1	98.2314 %	102.4013 %	102.3019 %	87.2477 %	103.4322 %	99.5716 %	-0.0001 ppm
Concentration per Run 2	104.9283 %	102.5384 %	102.1615 %	97.9494 %	104.1149 %	100.4552 %	-0.0011 ppm
Concentration per Run 3	104.5409 %	102.5225 %	102.3083 %	101.7175 %	104.6948 %	100.6069 %	-0.0006 ppm
Concentration RSD	3.7 %	0.1 %	0.1 %	7.8 %	0.6 %	0.6 %	87.3 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935023-2 WG1935023
Analysis started at: 6/17/2024 6:09:12 PM
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0466 ppm	1.8986 ppm	0.1193 ppm	0.9093 ppm	1.8966 ppm	0.0490 ppm	9.6559 ppm
Concentration per Run 1	0.0464 ppm	2.0349 ppm	0.1186 ppm	0.9127 ppm	2.0318 ppm	0.0526 ppm	10.3386 ppm
Concentration per Run 2	0.0468 ppm	1.8352 ppm	0.1196 ppm	0.9060 ppm	1.8344 ppm	0.0473 ppm	9.3487 ppm
Concentration per Run 3	0.0466 ppm	1.8257 ppm	0.1198 ppm	0.9091 ppm	1.8237 ppm	0.0470 ppm	9.2803 ppm
Concentration RSD	0.5 %	6.2 %	0.6 %	0.4 %	6.2 %	6.4 %	6.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0496 ppm	0.4562 ppm	0.1938 ppm	0.2435 ppm	0.9659 ppm	10.2021 ppm	9.8491 ppm
Concentration per Run 1	0.0497 ppm	0.4570 ppm	0.1939 ppm	0.2447 ppm	1.0348 ppm	10.9139 ppm	9.8548 ppm
Concentration per Run 2	0.0496 ppm	0.4552 ppm	0.1936 ppm	0.2432 ppm	0.9326 ppm	9.8716 ppm	9.8484 ppm
Concentration per Run 3	0.0496 ppm	0.4563 ppm	0.1940 ppm	0.2426 ppm	0.9302 ppm	9.8208 ppm	9.8441 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.4 %	6.2 %	6.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4726 ppm	0.8964 ppm	9.9977 ppm	0.4610 ppm	0.5132 ppm	0.4617 ppm	0.1105 ppm
Concentration per Run 1	0.5073 ppm	0.8924 ppm	10.6840 ppm	0.4617 ppm	0.5145 ppm	0.4619 ppm	0.1127 ppm
Concentration per Run 2	0.4561 ppm	0.8936 ppm	9.6887 ppm	0.4601 ppm	0.5121 ppm	0.4617 ppm	0.1090 ppm
Concentration per Run 3	0.4546 ppm	0.9030 ppm	9.6204 ppm	0.4613 ppm	0.5129 ppm	0.4615 ppm	0.1099 ppm
Concentration RSD	6.3 %	0.6 %	6.0 %	0.2 %	0.2 %	0.0 %	1.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9240 ppm	0.9338 ppm	0.9358 ppm	0.9844 ppm	0.1164 ppm	0.4695 ppm	0.4592 ppm
Concentration per Run 1	0.9274 ppm	0.9360 ppm	1.0021 ppm	0.9865 ppm	0.1174 ppm	0.4706 ppm	0.4605 ppm
Concentration per Run 2	0.9220 ppm	0.9308 ppm	0.9055 ppm	0.9832 ppm	0.1158 ppm	0.4692 ppm	0.4579 ppm
Concentration per Run 3	0.9227 ppm	0.9346 ppm	0.8996 ppm	0.9834 ppm	0.1158 ppm	0.4686 ppm	0.4592 ppm
Concentration RSD	0.3 %	0.3 %	6.2 %	0.2 %	0.8 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4803 %	98.0631 %	98.4154 %	101.0469 %	97.6272 %	101.2974 %	0.0002 ppm
Concentration per Run 1	93.3750 %	98.1371 %	98.4100 %	92.0332 %	97.4180 %	101.0154 %	-0.0009 ppm
Concentration per Run 2	102.3834 %	98.1852 %	98.6014 %	103.1725 %	97.9256 %	101.5667 %	0.0007 ppm
Concentration per Run 3	102.6823 %	97.8671 %	98.2348 %	107.9349 %	97.5380 %	101.3100 %	0.0008 ppm
Concentration RSD	5.3 %	0.2 %	0.2 %	8.1 %	0.3 %	0.3 %	472.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2433687-02 WG1935023
Analysis started at: 6/17/2024 6:15:32 PM
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0465 ppm	0.0165 ppm	0.0505 ppm	0.0297 ppm	0.0000 ppm	96.9127 ppm
Concentration per Run 1	0.0000 ppm	0.0440 ppm	0.0172 ppm	0.0504 ppm	0.0316 ppm	0.0000 ppm	103.3296 ppm
Concentration per Run 2	-0.0003 ppm	0.0463 ppm	0.0160 ppm	0.0501 ppm	0.0287 ppm	0.0000 ppm	93.8558 ppm
Concentration per Run 3	-0.0002 ppm	0.0492 ppm	0.0163 ppm	0.0509 ppm	0.0287 ppm	-0.0001 ppm	93.5525 ppm
Concentration RSD	69.2 %	5.6 %	3.8 %	0.9 %	5.6 %	73.8 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0013 ppm	0.0054 ppm	0.0006 ppm	0.0001 ppm	89.0550 ppm	23.8282 ppm	11.6298 ppm
Concentration per Run 1	-0.0013 ppm	0.0053 ppm	0.0005 ppm	0.0003 ppm	94.8874 ppm	25.3209 ppm	11.6131 ppm
Concentration per Run 2	-0.0013 ppm	0.0054 ppm	0.0007 ppm	-0.0001 ppm	86.2504 ppm	23.1122 ppm	11.6115 ppm
Concentration per Run 3	-0.0013 ppm	0.0055 ppm	0.0007 ppm	0.0002 ppm	86.0272 ppm	23.0514 ppm	11.6648 ppm
Concentration RSD	2.2 %	1.5 %	14.3 %	142.0 %	5.7 %	5.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.0628 ppm	0.0006 ppm	18.3440 ppm	-0.0015 ppm	-0.0019 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	2.2008 ppm	0.0007 ppm	19.5102 ppm	-0.0015 ppm	-0.0021 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	1.9969 ppm	0.0005 ppm	17.7805 ppm	-0.0018 ppm	-0.0020 ppm	0.0001 ppm	-0.0014 ppm
Concentration per Run 3	1.9908 ppm	0.0005 ppm	17.7414 ppm	-0.0012 ppm	-0.0015 ppm	-0.0005 ppm	0.0006 ppm
Concentration RSD	5.8 %	15.3 %	5.5 %	19.5 %	19.2 %	291.3 %	802.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.7694 ppm	0.0009 ppm	0.2521 ppm	0.0055 ppm	-0.0002 ppm	0.0055 ppm	0.0008 ppm
Concentration per Run 1	11.7680 ppm	0.0010 ppm	0.2685 ppm	0.0053 ppm	-0.0002 ppm	0.0057 ppm	0.0007 ppm
Concentration per Run 2	11.7507 ppm	0.0010 ppm	0.2440 ppm	0.0054 ppm	-0.0003 ppm	0.0053 ppm	0.0008 ppm
Concentration per Run 3	11.7896 ppm	0.0007 ppm	0.2436 ppm	0.0057 ppm	0.0000 ppm	0.0054 ppm	0.0008 ppm
Concentration RSD	0.2 %	18.2 %	5.7 %	3.6 %	95.2 %	3.2 %	9.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3006 %	93.6819 %	92.5310 %	110.8708 %	90.1852 %	97.5403 %	0.0007 ppm
Concentration per Run 1	93.5045 %	93.8253 %	92.6243 %	103.0784 %	90.2612 %	97.6557 %	-0.0005 ppm
Concentration per Run 2	101.8845 %	93.7723 %	92.4307 %	112.8676 %	90.2782 %	97.5768 %	0.0015 ppm
Concentration per Run 3	102.5128 %	93.4481 %	92.5380 %	116.6665 %	90.0161 %	97.3884 %	0.0011 ppm
Concentration RSD	5.1 %	0.2 %	0.1 %	6.3 %	0.2 %	0.1 %	153.2 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935023-3 WG1935023
Analysis started at: 6/17/2024 6:22:02 PM
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0482 ppm	1.9322 ppm	0.1387 ppm	1.0039 ppm	1.9137 ppm	0.0487 ppm	107.4361 ppm
Concentration per Run 1	0.0482 ppm	2.1023 ppm	0.1384 ppm	1.0045 ppm	2.0815 ppm	0.0530 ppm	117.2360 ppm
Concentration per Run 2	0.0480 ppm	1.8557 ppm	0.1391 ppm	1.0033 ppm	1.8331 ppm	0.0467 ppm	102.9473 ppm
Concentration per Run 3	0.0484 ppm	1.8386 ppm	0.1387 ppm	1.0040 ppm	1.8266 ppm	0.0464 ppm	102.1250 ppm
Concentration RSD	0.4 %	7.6 %	0.3 %	0.1 %	7.6 %	7.7 %	7.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0475 ppm	0.4555 ppm	0.1846 ppm	0.2427 ppm	90.8074 ppm	34.4036 ppm	20.8858 ppm
Concentration per Run 1	0.0474 ppm	0.4549 ppm	0.1840 ppm	0.2440 ppm	98.9072 ppm	37.3697 ppm	20.8552 ppm
Concentration per Run 2	0.0477 ppm	0.4564 ppm	0.1852 ppm	0.2420 ppm	86.9863 ppm	32.9937 ppm	20.9220 ppm
Concentration per Run 3	0.0475 ppm	0.4551 ppm	0.1845 ppm	0.2421 ppm	86.5288 ppm	32.8475 ppm	20.8801 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.5 %	7.7 %	7.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.5408 ppm	0.9271 ppm	28.8104 ppm	0.4507 ppm	0.4992 ppm	0.4868 ppm	0.1194 ppm
Concentration per Run 1	2.7680 ppm	0.9202 ppm	31.2957 ppm	0.4501 ppm	0.4972 ppm	0.4859 ppm	0.1195 ppm
Concentration per Run 2	2.4367 ppm	0.9291 ppm	27.6088 ppm	0.4513 ppm	0.4998 ppm	0.4878 ppm	0.1187 ppm
Concentration per Run 3	2.4177 ppm	0.9319 ppm	27.5267 ppm	0.4508 ppm	0.5006 ppm	0.4866 ppm	0.1199 ppm
Concentration RSD	7.8 %	0.7 %	7.5 %	0.1 %	0.4 %	0.2 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.7811 ppm	0.9282 ppm	1.1999 ppm	0.9731 ppm	0.1105 ppm	0.4603 ppm	0.4491 ppm
Concentration per Run 1	12.7791 ppm	0.9246 ppm	1.3056 ppm	0.9746 ppm	0.1109 ppm	0.4600 ppm	0.4468 ppm
Concentration per Run 2	12.7870 ppm	0.9298 ppm	1.1489 ppm	0.9726 ppm	0.1104 ppm	0.4611 ppm	0.4508 ppm
Concentration per Run 3	12.7773 ppm	0.9303 ppm	1.1453 ppm	0.9721 ppm	0.1103 ppm	0.4599 ppm	0.4499 ppm
Concentration RSD	0.0 %	0.3 %	7.6 %	0.1 %	0.3 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.6618 %	93.0659 %	91.8109 %	112.4101 %	88.5115 %	97.2894 %	0.0022 ppm
Concentration per Run 1	90.3311 %	92.9687 %	91.8114 %	105.1277 %	88.5505 %	97.1579 %	0.0031 ppm
Concentration per Run 2	101.1726 %	93.0949 %	91.6432 %	114.8096 %	88.4253 %	97.2411 %	0.0014 ppm
Concentration per Run 3	101.4816 %	93.1342 %	91.9780 %	117.2932 %	88.5587 %	97.4691 %	0.0021 ppm
Concentration RSD	6.5 %	0.1 %	0.2 %	5.7 %	0.1 %	0.2 %	39.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935023-4 WG1935023
Analysis started at: 6/17/2024 6:28:21 PM
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0477 ppm	0.0168 ppm	0.0504 ppm	0.0296 ppm	0.0000 ppm	96.3917 ppm
Concentration per Run 1	0.0000 ppm	0.0519 ppm	0.0174 ppm	0.0507 ppm	0.0313 ppm	0.0000 ppm	101.9672 ppm
Concentration per Run 2	0.0001 ppm	0.0467 ppm	0.0153 ppm	0.0505 ppm	0.0289 ppm	0.0000 ppm	94.0019 ppm
Concentration per Run 3	-0.0003 ppm	0.0445 ppm	0.0177 ppm	0.0499 ppm	0.0287 ppm	0.0000 ppm	93.2059 ppm
Concentration RSD	362.4 %	8.0 %	7.9 %	0.9 %	4.8 %	88.4 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0013 ppm	0.0053 ppm	0.0005 ppm	0.0000 ppm	88.4921 ppm	23.6150 ppm	11.6237 ppm
Concentration per Run 1	-0.0013 ppm	0.0054 ppm	0.0004 ppm	-0.0001 ppm	93.5118 ppm	24.9182 ppm	11.6336 ppm
Concentration per Run 2	-0.0013 ppm	0.0052 ppm	0.0005 ppm	0.0000 ppm	86.2589 ppm	23.0289 ppm	11.6234 ppm
Concentration per Run 3	-0.0013 ppm	0.0054 ppm	0.0007 ppm	0.0001 ppm	85.7057 ppm	22.8980 ppm	11.6142 ppm
Concentration RSD	1.8 %	2.0 %	27.6 %	526.8 %	4.9 %	4.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.0489 ppm	0.0004 ppm	18.3085 ppm	-0.0018 ppm	-0.0019 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	2.1665 ppm	0.0004 ppm	19.3129 ppm	-0.0018 ppm	-0.0020 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	1.9975 ppm	0.0004 ppm	17.8485 ppm	-0.0017 ppm	-0.0019 ppm	0.0002 ppm	-0.0013 ppm
Concentration per Run 3	1.9827 ppm	0.0004 ppm	17.7642 ppm	-0.0020 ppm	-0.0019 ppm	-0.0002 ppm	0.0015 ppm
Concentration RSD	5.0 %	12.1 %	4.8 %	7.6 %	4.1 %	414.5 %	472.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.6748 ppm	0.0012 ppm	0.2511 ppm	0.0054 ppm	0.0002 ppm	0.0053 ppm	0.0007 ppm
Concentration per Run 1	11.7290 ppm	0.0009 ppm	0.2652 ppm	0.0057 ppm	0.0004 ppm	0.0054 ppm	0.0006 ppm
Concentration per Run 2	11.6586 ppm	0.0011 ppm	0.2445 ppm	0.0053 ppm	0.0000 ppm	0.0053 ppm	0.0007 ppm
Concentration per Run 3	11.6367 ppm	0.0014 ppm	0.2434 ppm	0.0053 ppm	0.0004 ppm	0.0053 ppm	0.0006 ppm
Concentration RSD	0.4 %	19.5 %	4.9 %	4.2 %	100.4 %	1.5 %	6.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.8726 %	93.9170 %	92.4535 %	112.1237 %	90.4232 %	97.9150 %	0.0017 ppm
Concentration per Run 1	95.0151 %	93.9824 %	92.5608 %	105.2141 %	90.1353 %	97.8966 %	0.0025 ppm
Concentration per Run 2	101.7469 %	93.9547 %	92.3579 %	113.7338 %	90.5572 %	97.9428 %	0.0010 ppm
Concentration per Run 3	102.8558 %	93.8139 %	92.4419 %	117.4233 %	90.5771 %	97.9057 %	0.0017 ppm
Concentration RSD	4.2 %	0.1 %	0.1 %	5.6 %	0.3 %	0.0 %	45.8 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935023-5 WG1935023
Analysis started at: 6/17/2024 6:34:52 PM
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0475 ppm	1.8720 ppm	0.1383 ppm	0.9919 ppm	1.8497 ppm	0.0472 ppm	102.6245 ppm
Concentration per Run 1	0.0470 ppm	1.9907 ppm	0.1381 ppm	0.9861 ppm	1.9626 ppm	0.0504 ppm	109.4634 ppm
Concentration per Run 2	0.0474 ppm	1.8209 ppm	0.1385 ppm	0.9966 ppm	1.7962 ppm	0.0458 ppm	99.5983 ppm
Concentration per Run 3	0.0480 ppm	1.8045 ppm	0.1382 ppm	0.9929 ppm	1.7901 ppm	0.0454 ppm	98.8118 ppm
Concentration RSD	1.0 %	5.5 %	0.2 %	0.5 %	5.3 %	5.9 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0471 ppm	0.4519 ppm	0.1830 ppm	0.2406 ppm	87.0850 ppm	33.0560 ppm	20.4697 ppm
Concentration per Run 1	0.0468 ppm	0.4496 ppm	0.1820 ppm	0.2403 ppm	92.7718 ppm	35.0288 ppm	20.4173 ppm
Concentration per Run 2	0.0472 ppm	0.4533 ppm	0.1839 ppm	0.2404 ppm	84.5061 ppm	32.1986 ppm	20.5224 ppm
Concentration per Run 3	0.0472 ppm	0.4526 ppm	0.1831 ppm	0.2410 ppm	83.9772 ppm	31.9406 ppm	20.4694 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %	0.2 %	5.7 %	5.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.4284 ppm	0.9086 ppm	27.5511 ppm	0.4472 ppm	0.4930 ppm	0.4619 ppm	0.1169 ppm
Concentration per Run 1	2.5888 ppm	0.8963 ppm	29.2224 ppm	0.4447 ppm	0.4903 ppm	0.4563 ppm	0.1172 ppm
Concentration per Run 2	2.3565 ppm	0.9127 ppm	26.7603 ppm	0.4489 ppm	0.4943 ppm	0.4656 ppm	0.1171 ppm
Concentration per Run 3	2.3399 ppm	0.9168 ppm	26.6705 ppm	0.4479 ppm	0.4944 ppm	0.4638 ppm	0.1164 ppm
Concentration RSD	5.7 %	1.2 %	5.3 %	0.5 %	0.5 %	1.1 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.3579 ppm	0.9208 ppm	1.1555 ppm	0.9622 ppm	0.1106 ppm	0.4551 ppm	0.4459 ppm
Concentration per Run 1	12.2767 ppm	0.9147 ppm	1.2268 ppm	0.9591 ppm	0.1087 ppm	0.4541 ppm	0.4436 ppm
Concentration per Run 2	12.3991 ppm	0.9257 ppm	1.1228 ppm	0.9631 ppm	0.1113 ppm	0.4555 ppm	0.4470 ppm
Concentration per Run 3	12.3980 ppm	0.9220 ppm	1.1169 ppm	0.9644 ppm	0.1118 ppm	0.4558 ppm	0.4469 ppm
Concentration RSD	0.6 %	0.6 %	5.3 %	0.3 %	1.5 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.2564 %	92.8520 %	91.6427 %	112.8111 %	88.8891 %	97.2008 %	0.0024 ppm
Concentration per Run 1	93.5139 %	93.1356 %	92.0785 %	105.5763 %	89.3378 %	97.3469 %	0.0027 ppm
Concentration per Run 2	102.0710 %	92.4063 %	91.2550 %	115.3580 %	88.6274 %	96.9493 %	0.0019 ppm
Concentration per Run 3	102.1843 %	93.0141 %	91.5946 %	117.4992 %	88.7020 %	97.3061 %	0.0024 ppm
Concentration RSD	5.0 %	0.4 %	0.5 %	5.6 %	0.4 %	0.2 %	17.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935023-6d5 WG1935023
Analysis started at: 6/17/2024 6:41:11 PM
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0096 ppm	0.0036 ppm	0.0102 ppm	0.0058 ppm	0.0000 ppm	18.9606 ppm
Concentration per Run 1	0.0000 ppm	0.0134 ppm	0.0031 ppm	0.0104 ppm	0.0062 ppm	0.0000 ppm	20.2548 ppm
Concentration per Run 2	0.0000 ppm	0.0083 ppm	0.0037 ppm	0.0102 ppm	0.0057 ppm	0.0000 ppm	18.3780 ppm
Concentration per Run 3	0.0000 ppm	0.0072 ppm	0.0040 ppm	0.0101 ppm	0.0057 ppm	0.0000 ppm	18.2491 ppm
Concentration RSD	64.3 %	34.7 %	13.0 %	1.5 %	4.5 %	378.8 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0002 ppm	0.0010 ppm	0.0000 ppm	-0.0002 ppm	17.6253 ppm	4.6698 ppm	2.3915 ppm
Concentration per Run 1	-0.0002 ppm	0.0010 ppm	0.0001 ppm	-0.0002 ppm	18.8003 ppm	4.9807 ppm	2.4022 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	-0.0001 ppm	-0.0003 ppm	17.0602 ppm	4.5152 ppm	2.3896 ppm
Concentration per Run 3	-0.0003 ppm	0.0010 ppm	0.0002 ppm	-0.0003 ppm	17.0156 ppm	4.5135 ppm	2.3827 ppm
Concentration RSD	17.2 %	5.3 %	394.6 %	19.5 %	5.8 %	5.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4119 ppm	0.0007 ppm	3.6236 ppm	-0.0005 ppm	0.0001 ppm	0.0014 ppm	-0.0013 ppm
Concentration per Run 1	0.4394 ppm	0.0008 ppm	3.8504 ppm	-0.0005 ppm	0.0000 ppm	0.0024 ppm	-0.0019 ppm
Concentration per Run 2	0.3988 ppm	0.0007 ppm	3.5118 ppm	-0.0004 ppm	0.0000 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 3	0.3976 ppm	0.0006 ppm	3.5086 ppm	-0.0006 ppm	0.0002 ppm	0.0012 ppm	-0.0007 ppm
Concentration RSD	5.8 %	13.5 %	5.4 %	13.1 %	169.8 %	70.7 %	42.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1641 ppm	0.0017 ppm	0.0497 ppm	0.0011 ppm	0.0005 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	2.1659 ppm	0.0021 ppm	0.0529 ppm	0.0010 ppm	0.0002 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 2	2.1681 ppm	0.0016 ppm	0.0481 ppm	0.0011 ppm	0.0004 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 3	2.1585 ppm	0.0014 ppm	0.0483 ppm	0.0012 ppm	0.0007 ppm	0.0011 ppm	0.0008 ppm
Concentration RSD	0.2 %	18.8 %	5.4 %	5.7 %	58.5 %	2.4 %	3.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9158 %	98.3215 %	98.2187 %	104.6339 %	99.0921 %	101.3251 %	0.0008 ppm
Concentration per Run 1	95.2676 %	98.3367 %	98.3097 %	95.7118 %	98.8812 %	101.0996 %	0.0022 ppm
Concentration per Run 2	103.4822 %	98.4317 %	98.3324 %	106.4617 %	99.0742 %	101.4029 %	0.0000 ppm
Concentration per Run 3	103.9975 %	98.1962 %	98.0141 %	111.7281 %	99.3208 %	101.4728 %	0.0001 ppm
Concentration RSD	4.9 %	0.1 %	0.2 %	7.8 %	0.2 %	0.2 %	155.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-01 WG1935023
Analysis started at: 6/17/2024 6:47:48 PM
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0182 ppm	0.0042 ppm	0.0078 ppm	0.0650 ppm	0.0001 ppm	3.0316 ppm
Concentration per Run 1	-0.0004 ppm	0.0173 ppm	0.0045 ppm	0.0077 ppm	0.0665 ppm	0.0001 ppm	3.1232 ppm
Concentration per Run 2	-0.0002 ppm	0.0180 ppm	0.0032 ppm	0.0081 ppm	0.0644 ppm	0.0001 ppm	2.9962 ppm
Concentration per Run 3	-0.0002 ppm	0.0192 ppm	0.0050 ppm	0.0077 ppm	0.0642 ppm	0.0000 ppm	2.9753 ppm
Concentration RSD	43.1 %	5.4 %	21.3 %	3.1 %	2.0 %	19.0 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0012 ppm	0.0002 ppm	0.0022 ppm	5.0626 ppm	2.0528 ppm	0.4539 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0000 ppm	0.0020 ppm	5.1685 ppm	2.0980 ppm	0.4565 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	0.0002 ppm	0.0021 ppm	5.0115 ppm	2.0185 ppm	0.4543 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0004 ppm	0.0024 ppm	5.0079 ppm	2.0419 ppm	0.4509 ppm
Concentration RSD	74.1 %	8.9 %	120.2 %	8.8 %	1.8 %	2.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1167 ppm	0.0002 ppm	160.2237 ppm	0.0010 ppm	-0.0013 ppm	0.0007 ppm	0.0009 ppm
Concentration per Run 1	0.1202 ppm	0.0002 ppm	166.9781 ppm	0.0008 ppm	-0.0012 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 2	0.1149 ppm	0.0001 ppm	158.1767 ppm	0.0009 ppm	-0.0014 ppm	0.0013 ppm	0.0013 ppm
Concentration per Run 3	0.1149 ppm	0.0002 ppm	155.5164 ppm	0.0012 ppm	-0.0012 ppm	0.0001 ppm	0.0022 ppm
Concentration RSD	2.6 %	23.9 %	3.7 %	22.3 %	9.2 %	83.4 %	167.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.4653 ppm	-0.0003 ppm	0.0874 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	0.0049 ppm
Concentration per Run 1	6.4756 ppm	-0.0002 ppm	0.0892 ppm	0.0001 ppm	0.0008 ppm	0.0005 ppm	0.0049 ppm
Concentration per Run 2	6.4820 ppm	-0.0001 ppm	0.0865 ppm	0.0006 ppm	0.0005 ppm	0.0005 ppm	0.0049 ppm
Concentration per Run 3	6.4383 ppm	-0.0007 ppm	0.0864 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0048 ppm
Concentration RSD	0.4 %	88.7 %	1.8 %	77.5 %	77.6 %	9.0 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9306 %	92.6043 %	94.1401 %	100.5814 %	90.2387 %	94.9982 %	0.0008 ppm
Concentration per Run 1	98.6087 %	92.4877 %	94.2780 %	92.2670 %	90.0791 %	94.5256 %	0.0012 ppm
Concentration per Run 2	102.1757 %	92.5705 %	94.0093 %	102.5651 %	90.0001 %	95.0883 %	0.0008 ppm
Concentration per Run 3	102.0075 %	92.7548 %	94.1331 %	106.9120 %	90.6369 %	95.3809 %	0.0003 ppm
Concentration RSD	2.0 %	0.1 %	0.1 %	7.5 %	0.4 %	0.5 %	59.3 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-02 WG1935023
Analysis started at: 6/17/2024 6:54:33 PM
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0880 ppm	0.0002 ppm	0.0292 ppm	0.1029 ppm	0.0002 ppm	8.2164 ppm
Concentration per Run 1	-0.0002 ppm	0.0944 ppm	-0.0003 ppm	0.0294 ppm	0.1129 ppm	0.0002 ppm	9.0280 ppm
Concentration per Run 2	-0.0001 ppm	0.0863 ppm	0.0010 ppm	0.0290 ppm	0.0981 ppm	0.0002 ppm	7.8508 ppm
Concentration per Run 3	-0.0001 ppm	0.0834 ppm	-0.0001 ppm	0.0293 ppm	0.0977 ppm	0.0002 ppm	7.7704 ppm
Concentration RSD	56.3 %	6.5 %	355.7 %	0.7 %	8.4 %	8.6 %	8.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0081 ppm	0.0004 ppm	0.0042 ppm	1.5516 ppm	3.0982 ppm	1.9048 ppm
Concentration per Run 1	0.0001 ppm	0.0081 ppm	0.0004 ppm	0.0042 ppm	1.6992 ppm	3.4011 ppm	1.9122 ppm
Concentration per Run 2	0.0002 ppm	0.0082 ppm	0.0005 ppm	0.0042 ppm	1.4815 ppm	2.9560 ppm	1.9139 ppm
Concentration per Run 3	0.0001 ppm	0.0081 ppm	0.0004 ppm	0.0042 ppm	1.4740 ppm	2.9376 ppm	1.8884 ppm
Concentration RSD	10.8 %	0.7 %	16.4 %	0.5 %	8.2 %	8.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7662 ppm	-0.0001 ppm	39.6798 ppm	0.0015 ppm	-0.0006 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.8408 ppm	0.0000 ppm	43.4975 ppm	0.0016 ppm	-0.0009 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 2	0.7326 ppm	-0.0002 ppm	37.8902 ppm	0.0015 ppm	-0.0004 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.7253 ppm	0.0000 ppm	37.6517 ppm	0.0014 ppm	-0.0004 ppm	0.0006 ppm	-0.0006 ppm
Concentration RSD	8.4 %	144.6 %	8.3 %	6.9 %	48.4 %	19.6 %	56.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.2743 ppm	-0.0005 ppm	0.0801 ppm	0.0004 ppm	0.0009 ppm	0.0012 ppm	0.0056 ppm
Concentration per Run 1	4.2926 ppm	-0.0004 ppm	0.0878 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0057 ppm
Concentration per Run 2	4.2662 ppm	-0.0005 ppm	0.0765 ppm	0.0002 ppm	0.0016 ppm	0.0011 ppm	0.0056 ppm
Concentration per Run 3	4.2640 ppm	-0.0007 ppm	0.0759 ppm	0.0010 ppm	0.0008 ppm	0.0012 ppm	0.0056 ppm
Concentration RSD	0.4 %	28.4 %	8.4 %	112.5 %	74.7 %	6.3 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6264 %	97.3712 %	98.0408 %	96.2626 %	97.1595 %	98.4273 %	0.0014 ppm
Concentration per Run 1	91.2377 %	97.6698 %	98.0544 %	86.6368 %	96.7631 %	97.9637 %	0.0011 ppm
Concentration per Run 2	103.5704 %	97.1612 %	97.9426 %	98.5120 %	97.3348 %	98.3413 %	0.0018 ppm
Concentration per Run 3	104.0711 %	97.2827 %	98.1256 %	103.6390 %	97.3805 %	98.9769 %	0.0012 ppm
Concentration RSD	7.3 %	0.3 %	0.1 %	9.1 %	0.4 %	0.5 %	26.9 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-03 WG1935023
Analysis started at: 6/17/2024 7:01:10 PM
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0183 ppm	0.0074 ppm	0.0415 ppm	0.0562 ppm	0.0000 ppm	18.8998 ppm
Concentration per Run 1	-0.0006 ppm	0.0155 ppm	0.0072 ppm	0.0415 ppm	0.0574 ppm	0.0000 ppm	19.4198 ppm
Concentration per Run 2	-0.0004 ppm	0.0189 ppm	0.0071 ppm	0.0413 ppm	0.0554 ppm	0.0000 ppm	18.6453 ppm
Concentration per Run 3	-0.0004 ppm	0.0203 ppm	0.0078 ppm	0.0416 ppm	0.0557 ppm	0.0000 ppm	18.6344 ppm
Concentration RSD	28.0 %	13.6 %	5.3 %	0.3 %	1.9 %	132.8 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0004 ppm	0.0055 ppm	0.0006 ppm	0.0034 ppm	28.8962 ppm	4.5954 ppm	2.2966 ppm
Concentration per Run 1	-0.0004 ppm	0.0055 ppm	0.0007 ppm	0.0034 ppm	29.5380 ppm	4.6707 ppm	2.2880 ppm
Concentration per Run 2	-0.0004 ppm	0.0055 ppm	0.0007 ppm	0.0036 ppm	28.5491 ppm	4.5524 ppm	2.3099 ppm
Concentration per Run 3	-0.0004 ppm	0.0054 ppm	0.0006 ppm	0.0033 ppm	28.6015 ppm	4.5631 ppm	2.2920 ppm
Concentration RSD	2.5 %	1.5 %	10.4 %	3.2 %	1.9 %	1.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.9436 ppm	0.0005 ppm	105.1730 ppm	0.0000 ppm	-0.0011 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.9678 ppm	0.0005 ppm	107.3569 ppm	0.0001 ppm	-0.0012 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.9301 ppm	0.0005 ppm	103.5219 ppm	0.0001 ppm	-0.0009 ppm	0.0004 ppm	-0.0007 ppm
Concentration per Run 3	0.9330 ppm	0.0005 ppm	104.6403 ppm	0.0000 ppm	-0.0013 ppm	-0.0004 ppm	0.0005 ppm
Concentration RSD	2.2 %	5.0 %	1.9 %	143.1 %	17.7 %	956.8 %	565.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.3042 ppm	-0.0003 ppm	0.1243 ppm	0.0008 ppm	0.0006 ppm	0.0021 ppm	0.0052 ppm
Concentration per Run 1	7.3163 ppm	0.0000 ppm	0.1270 ppm	0.0010 ppm	0.0004 ppm	0.0021 ppm	0.0053 ppm
Concentration per Run 2	7.3098 ppm	-0.0003 ppm	0.1227 ppm	0.0005 ppm	0.0007 ppm	0.0019 ppm	0.0052 ppm
Concentration per Run 3	7.2865 ppm	-0.0006 ppm	0.1231 ppm	0.0009 ppm	0.0008 ppm	0.0022 ppm	0.0052 ppm
Concentration RSD	0.2 %	96.8 %	1.9 %	31.9 %	35.9 %	6.1 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7692 %	94.2596 %	94.9935 %	108.9570 %	92.0430 %	97.7125 %	0.0013 ppm
Concentration per Run 1	99.8572 %	94.2152 %	95.2156 %	101.7865 %	91.9320 %	97.5036 %	0.0025 ppm
Concentration per Run 2	102.9551 %	94.2445 %	94.8814 %	110.8297 %	91.9574 %	97.6511 %	-0.0001 ppm
Concentration per Run 3	102.4952 %	94.3190 %	94.8834 %	114.2548 %	92.2396 %	97.9827 %	0.0015 ppm
Concentration RSD	1.6 %	0.1 %	0.2 %	5.9 %	0.2 %	0.3 %	102.9 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 7:07:56 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4526 ppm	0.4766 ppm	0.4782 ppm	0.4595 ppm	0.4825 ppm	0.4990 ppm	0.4774 ppm
Concentration per Run 1	0.4534 ppm	0.5109 ppm	0.4792 ppm	0.4614 ppm	0.5142 ppm	0.5333 ppm	0.5116 ppm
Concentration per Run 2	0.4533 ppm	0.4634 ppm	0.4770 ppm	0.4590 ppm	0.4692 ppm	0.4839 ppm	0.4620 ppm
Concentration per Run 3	0.4511 ppm	0.4556 ppm	0.4785 ppm	0.4581 ppm	0.4639 ppm	0.4798 ppm	0.4587 ppm
Recovery Percentage 1	90.514 %	95.324 %	95.650 %	91.902 %	96.495 %	99.802 %	95.487 %
Concentration RSD	0.3 %	6.3 %	0.2 %	0.4 %	5.7 %	6.0 %	6.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4567 ppm	0.4677 ppm	0.4863 ppm	0.4714 ppm	0.4964 ppm	5.2171 ppm	0.4901 ppm
Concentration per Run 1	0.4560 ppm	0.4674 ppm	0.4875 ppm	0.4717 ppm	0.5291 ppm	5.5430 ppm	0.4927 ppm
Concentration per Run 2	0.4572 ppm	0.4679 ppm	0.4860 ppm	0.4718 ppm	0.4834 ppm	5.0656 ppm	0.4885 ppm
Concentration per Run 3	0.4568 ppm	0.4679 ppm	0.4852 ppm	0.4709 ppm	0.4767 ppm	5.0426 ppm	0.4890 ppm
Recovery Percentage 1	91.332 %	93.543 %	97.250 %	94.289 %	99.279 %	104.341 %	98.017 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	5.7 %	5.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4715 ppm	0.4505 ppm	9.7446 ppm	0.4688 ppm	0.4733 ppm	0.4608 ppm	0.4521 ppm
Concentration per Run 1	0.5037 ppm	0.4503 ppm	10.3691 ppm	0.4686 ppm	0.4722 ppm	0.4604 ppm	0.4525 ppm
Concentration per Run 2	0.4569 ppm	0.4507 ppm	9.4652 ppm	0.4692 ppm	0.4737 ppm	0.4598 ppm	0.4521 ppm
Concentration per Run 3	0.4539 ppm	0.4507 ppm	9.3996 ppm	0.4688 ppm	0.4739 ppm	0.4621 ppm	0.4516 ppm
Recovery Percentage 1	94.300 %	90.109 %	97.446 %	93.770 %	94.653 %	92.160 %	90.412 %
Concentration RSD	5.9 %	0.1 %	5.6 %	0.1 %	0.2 %	0.3 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1496 ppm	0.4811 ppm	0.4900 ppm	0.4895 ppm	0.4804 ppm	0.4710 ppm	0.4644 ppm
Concentration per Run 1	5.1584 ppm	0.4811 ppm	0.5226 ppm	0.4908 ppm	0.4808 ppm	0.4717 ppm	0.4634 ppm
Concentration per Run 2	5.1519 ppm	0.4807 ppm	0.4758 ppm	0.4886 ppm	0.4798 ppm	0.4709 ppm	0.4648 ppm
Concentration per Run 3	5.1386 ppm	0.4816 ppm	0.4715 ppm	0.4891 ppm	0.4805 ppm	0.4703 ppm	0.4651 ppm
Recovery Percentage 1	98.088 %	96.228 %	97.992 %	97.901 %	96.075 %	94.199 %	92.889 %
Concentration RSD	0.2 %	0.1 %	5.8 %	0.2 %	0.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7025 %	99.2654 %	99.9309 %	111.5411 %	100.0703 %	103.4272 %	0.4761 ppm
Concentration per Run 1	93.6098 %	99.2612 %	99.8504 %	104.1947 %	100.0477 %	103.4697 %	0.5084 ppm
Concentration per Run 2	102.5089 %	99.2274 %	99.7799 %	113.6549 %	99.9173 %	103.4315 %	0.4617 ppm
Concentration per Run 3	102.9889 %	99.3076 %	100.1622 %	116.7738 %	100.2459 %	103.3802 %	0.4583 ppm
Recovery Percentage 1							95.224 %
Concentration RSD	5.3 %	0.0 %	0.2 %	5.9 %	0.2 %	0.0 %	5.9 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 7:14:15 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0023 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0053 ppm
Concentration per Run 1	-0.0002 ppm	-0.0015 ppm	0.0014 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0026 ppm
Concentration per Run 2	-0.0001 ppm	-0.0024 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0080 ppm
Concentration per Run 3	-0.0003 ppm	-0.0032 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0055 ppm
Recovery Percentage 1	-2.824 %	0.000 %	12.054 %	0.720 %	0.890 %	0.388 %	-0.001 %
Concentration RSD	56.9 %	36.0 %	111.4 %	79.8 %	47.4 %	141.0 %	50.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0012 ppm	0.0766 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0615 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0024 ppm	0.0708 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm	0.0974 ppm	0.0006 ppm
Recovery Percentage 1	0.413 %	0.365 %	-0.696 %	-1.050 %	0.001 %	3.062 %	0.000 %
Concentration RSD	52.0 %	93.4 %	48.5 %	130.0 %	82.9 %	24.3 %	117.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0980 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.1008 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0921 ppm	0.0003 ppm	0.0004 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 3	0.0004 ppm	0.0003 ppm	0.1010 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	-0.0017 ppm
Recovery Percentage 1	1.679 %	0.656 %	4.899 %	1.576 %	1.332 %	0.969 %	-4.881 %
Concentration RSD	149.3 %	24.9 %	5.2 %	29.5 %	215.3 %	55.5 %	245.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0011 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0015 ppm	0.0007 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	-0.0009 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0010 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	-0.228 %	1.445 %	0.090 %	-1.151 %	1.683 %	-0.115 %	6.065 %
Concentration RSD	29.3 %	9.8 %	565.9 %	49.3 %	217.3 %	473.6 %	6.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3843 %	101.3904 %	102.0979 %	100.2161 %	104.0457 %	102.3252 %	0.0013 ppm
Concentration per Run 1	95.0171 %	101.6444 %	102.1836 %	91.5357 %	103.9835 %	102.1286 %	0.0009 ppm
Concentration per Run 2	103.3890 %	101.2495 %	102.1393 %	102.4417 %	104.1414 %	102.3362 %	0.0016 ppm
Concentration per Run 3	102.7469 %	101.2773 %	101.9708 %	106.6709 %	104.0120 %	102.5109 %	0.0015 ppm
Recovery Percentage 1							13.378 %
Concentration RSD	4.6 %	0.2 %	0.1 %	7.8 %	0.1 %	0.2 %	28.8 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-03 WG1935023
Analysis started at: 6/17/2024 7:25:10 PM
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0157 ppm	0.0001 ppm	0.0755 ppm	0.0040 ppm	0.0000 ppm	72.8066 ppm
Concentration per Run 1	-0.0004 ppm	0.0206 ppm	-0.0005 ppm	0.0753 ppm	0.0043 ppm	0.0000 ppm	77.3617 ppm
Concentration per Run 2	-0.0004 ppm	0.0108 ppm	0.0007 ppm	0.0758 ppm	0.0040 ppm	0.0000 ppm	70.8424 ppm
Concentration per Run 3	-0.0007 ppm	0.0159 ppm	0.0002 ppm	0.0753 ppm	0.0038 ppm	0.0000 ppm	70.2155 ppm
Concentration RSD	41.0 %	31.1 %	466.8 %	0.3 %	5.4 %	479.7 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0028 ppm	0.0111 ppm	4.3498 ppm	21.1562 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0028 ppm	0.0113 ppm	4.5847 ppm	21.2880 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0028 ppm	0.0117 ppm	4.2350 ppm	21.0962 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0028 ppm	0.0102 ppm	4.2296 ppm	21.0844 ppm
Concentration RSD	32.0 %	4,223.0 %	27.8 %	1.0 %	6.7 %	4.7 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0047 ppm	0.0001 ppm	88.6148 ppm	0.0019 ppm	-0.0014 ppm	0.0009 ppm	-0.0006 ppm
Concentration per Run 1	0.0049 ppm	0.0000 ppm	93.7290 ppm	0.0017 ppm	-0.0011 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 2	0.0046 ppm	0.0002 ppm	86.2006 ppm	0.0019 ppm	-0.0012 ppm	0.0015 ppm	-0.0010 ppm
Concentration per Run 3	0.0045 ppm	0.0001 ppm	85.9146 ppm	0.0021 ppm	-0.0020 ppm	0.0007 ppm	-0.0006 ppm
Concentration RSD	5.2 %	123.3 %	5.0 %	10.7 %	34.9 %	49.0 %	70.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.0127 ppm	-0.0007 ppm	0.4964 ppm	0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0021 ppm
Concentration per Run 1	8.0440 ppm	-0.0003 ppm	0.5249 ppm	0.0010 ppm	0.0000 ppm	0.0002 ppm	0.0021 ppm
Concentration per Run 2	8.0112 ppm	-0.0009 ppm	0.4826 ppm	0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0020 ppm
Concentration per Run 3	7.9828 ppm	-0.0009 ppm	0.4815 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration RSD	0.4 %	49.7 %	5.0 %	5.9 %	56.5 %	136.2 %	2.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7586 %	95.0842 %	95.9272 %	96.2958 %	91.0724 %	95.1094 %	-0.0013 ppm
Concentration per Run 1	94.1961 %	94.9586 %	96.1090 %	87.7329 %	90.8192 %	94.4621 %	-0.0022 ppm
Concentration per Run 2	102.0824 %	95.1123 %	95.9379 %	97.7954 %	91.0454 %	95.1740 %	0.0004 ppm
Concentration per Run 3	102.9973 %	95.1818 %	95.7347 %	103.3592 %	91.3526 %	95.6919 %	-0.0021 ppm
Concentration RSD	4.9 %	0.1 %	0.2 %	8.2 %	0.3 %	0.6 %	115.5 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-04 WG1935023
Analysis started at: 6/17/2024 7:31:47 PM
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0196 ppm	0.0026 ppm	0.0042 ppm	0.0291 ppm	-0.0001 ppm	108.6583 ppm
Concentration per Run 1	-0.0005 ppm	0.0219 ppm	0.0016 ppm	0.0042 ppm	0.0308 ppm	-0.0001 ppm	115.5173 ppm
Concentration per Run 2	-0.0005 ppm	0.0200 ppm	0.0035 ppm	0.0042 ppm	0.0282 ppm	-0.0001 ppm	105.6644 ppm
Concentration per Run 3	-0.0002 ppm	0.0169 ppm	0.0026 ppm	0.0043 ppm	0.0282 ppm	-0.0001 ppm	104.7933 ppm
Concentration RSD	51.7 %	13.0 %	36.5 %	2.0 %	5.1 %	12.8 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0022 ppm	0.0585 ppm	2.5467 ppm	21.6540 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0022 ppm	0.0613 ppm	2.7018 ppm	21.7678 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0568 ppm	2.4798 ppm	21.6422 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0022 ppm	0.0573 ppm	2.4585 ppm	21.5519 ppm
Concentration RSD	32.0 %	131.1 %	57.6 %	2.1 %	4.2 %	5.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.9324 ppm	0.0010 ppm	18.3512 ppm	0.0012 ppm	-0.0013 ppm	0.0008 ppm	-0.0006 ppm
Concentration per Run 1	0.9892 ppm	0.0009 ppm	19.4390 ppm	0.0013 ppm	-0.0014 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.9082 ppm	0.0011 ppm	17.8477 ppm	0.0012 ppm	-0.0013 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 3	0.8996 ppm	0.0009 ppm	17.7669 ppm	0.0011 ppm	-0.0010 ppm	0.0014 ppm	-0.0002 ppm
Concentration RSD	5.3 %	11.5 %	5.1 %	9.3 %	15.5 %	74.7 %	48.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.3277 ppm	-0.0006 ppm	0.4490 ppm	0.0013 ppm	0.0001 ppm	0.0017 ppm	0.0015 ppm
Concentration per Run 1	8.3728 ppm	-0.0008 ppm	0.4764 ppm	0.0011 ppm	0.0008 ppm	0.0017 ppm	0.0015 ppm
Concentration per Run 2	8.3150 ppm	-0.0006 ppm	0.4355 ppm	0.0012 ppm	-0.0003 ppm	0.0017 ppm	0.0015 ppm
Concentration per Run 3	8.2952 ppm	-0.0003 ppm	0.4350 ppm	0.0016 ppm	-0.0002 ppm	0.0016 ppm	0.0016 ppm
Concentration RSD	0.5 %	54.2 %	5.3 %	19.1 %	572.1 %	2.1 %	4.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1084 %	96.3318 %	96.2330 %	96.1199 %	93.0941 %	96.2554 %	-0.0024 ppm
Concentration per Run 1	94.5937 %	96.4001 %	96.3674 %	87.6646 %	92.7272 %	95.6589 %	-0.0017 ppm
Concentration per Run 2	102.4162 %	96.2412 %	96.0964 %	97.6124 %	93.1246 %	96.2743 %	-0.0026 ppm
Concentration per Run 3	103.3154 %	96.3541 %	96.2352 %	103.0828 %	93.4305 %	96.8329 %	-0.0031 ppm
Concentration RSD	4.8 %	0.1 %	0.1 %	8.1 %	0.4 %	0.6 %	29.6 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-05 WG1935023
Analysis started at: 6/17/2024 7:38:24 PM
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0115 ppm	0.0002 ppm	0.0217 ppm	0.0435 ppm	0.0000 ppm	21.2491 ppm
Concentration per Run 1	0.0000 ppm	0.0123 ppm	-0.0004 ppm	0.0216 ppm	0.0460 ppm	0.0000 ppm	22.6379 ppm
Concentration per Run 2	-0.0003 ppm	0.0116 ppm	0.0007 ppm	0.0218 ppm	0.0424 ppm	0.0000 ppm	20.6103 ppm
Concentration per Run 3	0.0000 ppm	0.0105 ppm	0.0003 ppm	0.0219 ppm	0.0421 ppm	0.0000 ppm	20.4991 ppm
Concentration RSD	169.5 %	8.0 %	268.4 %	0.7 %	5.1 %	113.1 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0022 ppm	0.0007 ppm	0.0023 ppm	11.3848 ppm	2.2412 ppm	2.3326 ppm
Concentration per Run 1	-0.0001 ppm	0.0021 ppm	0.0006 ppm	0.0025 ppm	12.0466 ppm	2.3913 ppm	2.3411 ppm
Concentration per Run 2	-0.0001 ppm	0.0022 ppm	0.0008 ppm	0.0023 ppm	11.0786 ppm	2.1693 ppm	2.3310 ppm
Concentration per Run 3	-0.0001 ppm	0.0023 ppm	0.0008 ppm	0.0022 ppm	11.0291 ppm	2.1630 ppm	2.3256 ppm
Concentration RSD	8.5 %	3.9 %	13.5 %	5.7 %	5.0 %	5.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.1317 ppm	-0.0001 ppm	2.6253 ppm	0.0008 ppm	-0.0006 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	3.3298 ppm	-0.0001 ppm	2.7771 ppm	0.0007 ppm	-0.0008 ppm	0.0006 ppm	-0.0008 ppm
Concentration per Run 2	3.0383 ppm	0.0000 ppm	2.5585 ppm	0.0010 ppm	-0.0002 ppm	0.0008 ppm	0.0010 ppm
Concentration per Run 3	3.0271 ppm	-0.0001 ppm	2.5402 ppm	0.0008 ppm	-0.0007 ppm	-0.0001 ppm	0.0001 ppm
Concentration RSD	5.5 %	95.4 %	5.0 %	15.0 %	51.2 %	101.7 %	977.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0407 ppm	-0.0006 ppm	0.0872 ppm	0.0004 ppm	0.0006 ppm	0.0045 ppm	0.0045 ppm
Concentration per Run 1	4.0502 ppm	-0.0004 ppm	0.0924 ppm	0.0003 ppm	0.0004 ppm	0.0047 ppm	0.0046 ppm
Concentration per Run 2	4.0287 ppm	-0.0006 ppm	0.0847 ppm	0.0004 ppm	0.0007 ppm	0.0046 ppm	0.0045 ppm
Concentration per Run 3	4.0432 ppm	-0.0006 ppm	0.0844 ppm	0.0005 ppm	0.0005 ppm	0.0043 ppm	0.0045 ppm
Concentration RSD	0.3 %	24.4 %	5.2 %	14.9 %	29.2 %	4.6 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.1711 %	101.6936 %	101.7582 %	101.9961 %	100.9965 %	102.6886 %	-0.0006 ppm
Concentration per Run 1	96.9050 %	101.8994 %	101.9928 %	92.9313 %	100.8250 %	102.4626 %	-0.0004 ppm
Concentration per Run 2	104.8806 %	101.6420 %	101.7948 %	104.1553 %	101.2087 %	102.6548 %	-0.0018 ppm
Concentration per Run 3	104.7276 %	101.5394 %	101.4870 %	108.9015 %	100.9558 %	102.9484 %	0.0004 ppm
Concentration RSD	4.5 %	0.2 %	0.3 %	8.0 %	0.2 %	0.2 %	195.8 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-06 WG1935023
Analysis started at: 6/17/2024 7:44:59 PM
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0134 ppm	-0.0002 ppm	0.0175 ppm	0.0713 ppm	0.0000 ppm	8.5464 ppm
Concentration per Run 1	-0.0004 ppm	0.0153 ppm	-0.0002 ppm	0.0175 ppm	0.0756 ppm	0.0000 ppm	9.1180 ppm
Concentration per Run 2	-0.0001 ppm	0.0140 ppm	0.0000 ppm	0.0174 ppm	0.0691 ppm	0.0000 ppm	8.2945 ppm
Concentration per Run 3	-0.0001 ppm	0.0109 ppm	-0.0002 ppm	0.0176 ppm	0.0693 ppm	0.0000 ppm	8.2265 ppm
Concentration RSD	103.2 %	16.9 %	62.3 %	0.5 %	5.2 %	62.3 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0023 ppm	5.8777 ppm	1.4321 ppm	1.1504 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm	6.2236 ppm	1.5322 ppm	1.1585 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0023 ppm	5.7118 ppm	1.3848 ppm	1.1528 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0022 ppm	5.6976 ppm	1.3793 ppm	1.1399 ppm
Concentration RSD	43.6 %	29.0 %	271.9 %	3.7 %	5.1 %	6.1 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2181 ppm	-0.0001 ppm	42.0216 ppm	0.0004 ppm	-0.0006 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	0.2320 ppm	0.0000 ppm	44.5997 ppm	0.0004 ppm	-0.0007 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 2	0.2120 ppm	-0.0002 ppm	40.7573 ppm	0.0004 ppm	-0.0003 ppm	0.0008 ppm	-0.0008 ppm
Concentration per Run 3	0.2103 ppm	-0.0001 ppm	40.7078 ppm	0.0004 ppm	-0.0008 ppm	0.0006 ppm	0.0010 ppm
Concentration RSD	5.5 %	115.5 %	5.3 %	3.7 %	41.1 %	160.1 %	584.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8180 ppm	-0.0006 ppm	0.0472 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0018 ppm
Concentration per Run 1	4.8263 ppm	-0.0006 ppm	0.0500 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0018 ppm
Concentration per Run 2	4.8120 ppm	-0.0005 ppm	0.0459 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0018 ppm
Concentration per Run 3	4.8157 ppm	-0.0006 ppm	0.0458 ppm	0.0004 ppm	0.0006 ppm	0.0004 ppm	0.0018 ppm
Concentration RSD	0.2 %	12.6 %	5.1 %	56.8 %	23.1 %	4.1 %	2.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3281 %	99.5962 %	100.1616 %	99.5082 %	97.6099 %	100.5641 %	0.0004 ppm
Concentration per Run 1	95.4630 %	99.6100 %	100.4559 %	90.0325 %	97.5130 %	100.2006 %	0.0000 ppm
Concentration per Run 2	104.1728 %	99.4897 %	100.1014 %	101.6161 %	97.6919 %	100.4227 %	0.0007 ppm
Concentration per Run 3	104.3486 %	99.6889 %	99.9276 %	106.8761 %	97.6247 %	101.0692 %	0.0006 ppm
Concentration RSD	5.0 %	0.1 %	0.3 %	8.7 %	0.1 %	0.4 %	91.1 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-07 WG1935023
Analysis started at: 6/17/2024 7:51:34 PM
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0085 ppm	0.0011 ppm	0.1135 ppm	0.9885 ppm	0.0000 ppm	61.5777 ppm
Concentration per Run 1	-0.0002 ppm	0.0106 ppm	0.0009 ppm	0.1134 ppm	1.0418 ppm	0.0000 ppm	64.8578 ppm
Concentration per Run 2	0.0002 ppm	0.0071 ppm	0.0018 ppm	0.1132 ppm	0.9635 ppm	0.0000 ppm	60.0269 ppm
Concentration per Run 3	-0.0004 ppm	0.0078 ppm	0.0006 ppm	0.1139 ppm	0.9604 ppm	0.0000 ppm	59.8486 ppm
Concentration RSD	198.0 %	21.5 %	59.1 %	0.3 %	4.7 %	64.1 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	35.7635 ppm	7.5176 ppm	5.9835 ppm
Concentration per Run 1	-0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	37.6099 ppm	7.9147 ppm	5.9865 ppm
Concentration per Run 2	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	34.8944 ppm	7.3344 ppm	5.9879 ppm
Concentration per Run 3	-0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0012 ppm	34.7862 ppm	7.3036 ppm	5.9760 ppm
Concentration RSD	5.3 %	16.0 %	55.5 %	3.6 %	4.5 %	4.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4748 ppm	-0.0003 ppm	90.9548 ppm	0.0001 ppm	-0.0017 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.5004 ppm	-0.0004 ppm	95.7383 ppm	0.0002 ppm	-0.0016 ppm	0.0002 ppm	0.0019 ppm
Concentration per Run 2	0.4621 ppm	-0.0002 ppm	88.6544 ppm	0.0000 ppm	-0.0014 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 3	0.4618 ppm	-0.0002 ppm	88.4718 ppm	0.0002 ppm	-0.0019 ppm	0.0001 ppm	-0.0003 ppm
Concentration RSD	4.7 %	33.0 %	4.6 %	87.9 %	15.5 %	481.0 %	477.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.8863 ppm	0.0000 ppm	0.3156 ppm	0.0007 ppm	0.0003 ppm	0.0008 ppm	0.0023 ppm
Concentration per Run 1	8.8794 ppm	-0.0001 ppm	0.3326 ppm	0.0006 ppm	0.0000 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run 2	8.9018 ppm	0.0002 ppm	0.3076 ppm	0.0008 ppm	0.0014 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run 3	8.8777 ppm	-0.0002 ppm	0.3067 ppm	0.0006 ppm	-0.0005 ppm	0.0009 ppm	0.0023 ppm
Concentration RSD	0.2 %	2,344.8 %	4.7 %	12.2 %	305.9 %	10.1 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7690 %	95.9539 %	96.5281 %	107.3281 %	91.6850 %	98.2850 %	0.0007 ppm
Concentration per Run 1	95.6635 %	95.7943 %	96.8653 %	99.3487 %	91.8012 %	98.0601 %	0.0015 ppm
Concentration per Run 2	101.8475 %	96.0828 %	96.5213 %	109.3466 %	91.4960 %	98.2676 %	-0.0005 ppm
Concentration per Run 3	101.7960 %	95.9846 %	96.1977 %	113.2891 %	91.7578 %	98.5274 %	0.0010 ppm
Concentration RSD	3.6 %	0.2 %	0.3 %	6.7 %	0.2 %	0.2 %	149.5 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 7:58:08 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4588 ppm	0.4825 ppm	0.4605 ppm	0.4501 ppm	0.4864 ppm	0.4972 ppm	0.4899 ppm
Concentration per Run 1	0.4564 ppm	0.5191 ppm	0.4596 ppm	0.4479 ppm	0.5227 ppm	0.5341 ppm	0.5322 ppm
Concentration per Run 2	0.4603 ppm	0.4628 ppm	0.4609 ppm	0.4516 ppm	0.4683 ppm	0.4784 ppm	0.4677 ppm
Concentration per Run 3	0.4597 ppm	0.4655 ppm	0.4609 ppm	0.4507 ppm	0.4683 ppm	0.4790 ppm	0.4698 ppm
Recovery Percentage 1	91.762 %	96.500 %	92.097 %	90.014 %	97.287 %	99.436 %	97.983 %
Concentration RSD	0.5 %	6.6 %	0.2 %	0.4 %	6.4 %	6.4 %	7.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4583 ppm	0.4598 ppm	0.4743 ppm	0.4655 ppm	0.4988 ppm	5.1072 ppm	0.4885 ppm
Concentration per Run 1	0.4569 ppm	0.4578 ppm	0.4749 ppm	0.4670 ppm	0.5360 ppm	5.4806 ppm	0.4878 ppm
Concentration per Run 2	0.4589 ppm	0.4605 ppm	0.4737 ppm	0.4645 ppm	0.4818 ppm	4.9332 ppm	0.4884 ppm
Concentration per Run 3	0.4589 ppm	0.4612 ppm	0.4743 ppm	0.4650 ppm	0.4786 ppm	4.9077 ppm	0.4893 ppm
Recovery Percentage 1	91.652 %	91.966 %	94.856 %	93.099 %	99.756 %	102.143 %	97.697 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.3 %	6.5 %	6.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4839 ppm	0.4562 ppm	9.8824 ppm	0.4698 ppm	0.4797 ppm	0.4674 ppm	0.4620 ppm
Concentration per Run 1	0.5193 ppm	0.4540 ppm	10.5988 ppm	0.4685 ppm	0.4777 ppm	0.4656 ppm	0.4595 ppm
Concentration per Run 2	0.4671 ppm	0.4568 ppm	9.5245 ppm	0.4705 ppm	0.4814 ppm	0.4686 ppm	0.4660 ppm
Concentration per Run 3	0.4654 ppm	0.4580 ppm	9.5239 ppm	0.4705 ppm	0.4799 ppm	0.4680 ppm	0.4605 ppm
Recovery Percentage 1	96.788 %	91.248 %	98.824 %	93.962 %	95.931 %	93.481 %	92.402 %
Concentration RSD	6.3 %	0.5 %	6.3 %	0.3 %	0.4 %	0.3 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2312 ppm	0.4792 ppm	0.4878 ppm	0.4717 ppm	0.4816 ppm	0.4675 ppm	0.4572 ppm
Concentration per Run 1	5.2079 ppm	0.4775 ppm	0.5237 ppm	0.4730 ppm	0.4807 ppm	0.4676 ppm	0.4553 ppm
Concentration per Run 2	5.2433 ppm	0.4806 ppm	0.4702 ppm	0.4706 ppm	0.4822 ppm	0.4670 ppm	0.4576 ppm
Concentration per Run 3	5.2424 ppm	0.4795 ppm	0.4696 ppm	0.4715 ppm	0.4819 ppm	0.4678 ppm	0.4586 ppm
Recovery Percentage 1	99.642 %	95.841 %	97.565 %	94.346 %	96.318 %	93.492 %	91.434 %
Concentration RSD	0.4 %	0.3 %	6.4 %	0.3 %	0.2 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4348 %	101.9830 %	103.3045 %	112.2042 %	101.1053 %	105.0609 %	0.4876 ppm
Concentration per Run 1	92.7267 %	102.0618 %	103.5983 %	104.4005 %	101.5612 %	104.8845 %	0.5213 ppm
Concentration per Run 2	102.8182 %	102.1622 %	103.0596 %	113.9756 %	100.8634 %	105.2879 %	0.4692 ppm
Concentration per Run 3	102.7595 %	101.7251 %	103.2557 %	118.2367 %	100.8914 %	105.0102 %	0.4723 ppm
Recovery Percentage 1							97.520 %
Concentration RSD	5.8 %	0.2 %	0.3 %	6.3 %	0.4 %	0.2 %	6.0 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 8:04:27 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	-0.0028 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0009 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0039 ppm
Recovery Percentage 1	-2.085 %	0.000 %	10.866 %	0.090 %	0.040 %	0.476 %	0.000 %
Concentration RSD	60.8 %	381.4 %	148.4 %	639.8 %	89.2 %	64.4 %	123.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0458 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0595 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0325 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm	0.0452 ppm	-0.0004 ppm
Recovery Percentage 1	-0.306 %	0.361 %	-0.592 %	0.461 %	0.001 %	1.830 %	0.000 %
Concentration RSD	130.7 %	13.9 %	331.3 %	176.6 %	82.2 %	29.5 %	130.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0827 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0847 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0816 ppm	0.0004 ppm	-0.0002 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0820 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0017 ppm
Recovery Percentage 1	0.837 %	0.479 %	4.137 %	1.467 %	1.271 %	-0.112 %	8.004 %
Concentration RSD	266.3 %	26.1 %	2.1 %	27.9 %	264.8 %	383.6 %	120.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0014 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0011 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0014 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-0.280 %	0.979 %	-0.147 %	2.213 %	-0.186 %	-1.198 %	5.619 %
Concentration RSD	21.8 %	57.9 %	291.4 %	30.2 %	1,024.6 %	31.2 %	12.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3093 %	104.2255 %	105.4683 %	103.1955 %	105.9973 %	104.1665 %	0.0006 ppm
Concentration per Run 1	97.4743 %	104.2582 %	104.8457 %	95.5830 %	104.7143 %	103.8936 %	0.0003 ppm
Concentration per Run 2	102.8869 %	104.1836 %	104.8831 %	104.3744 %	104.7821 %	104.1224 %	0.0010 ppm
Concentration per Run 3	103.5666 %	104.2348 %	106.6761 %	109.6292 %	108.4954 %	104.4835 %	0.0005 ppm
Recovery Percentage 1							6.330 %
Concentration RSD	3.3 %	0.0 %	1.0 %	6.9 %	2.0 %	0.3 %	55.3 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-04 WG1935023
Analysis started at: 6/17/2024 8:15:18 PM
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0053 ppm	0.0004 ppm	0.0057 ppm	0.0020 ppm	0.0000 ppm	4.3269 ppm
Concentration per Run 1	-0.0001 ppm	0.0021 ppm	0.0002 ppm	0.0057 ppm	0.0021 ppm	0.0000 ppm	4.5755 ppm
Concentration per Run 2	-0.0001 ppm	0.0058 ppm	0.0008 ppm	0.0057 ppm	0.0019 ppm	0.0000 ppm	4.2025 ppm
Concentration per Run 3	-0.0001 ppm	0.0079 ppm	0.0002 ppm	0.0058 ppm	0.0019 ppm	0.0001 ppm	4.2026 ppm
Concentration RSD	28.0 %	55.2 %	82.9 %	1.1 %	4.4 %	192.1 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0032 ppm	0.0073 ppm	0.8876 ppm	0.9662 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0031 ppm	0.0074 ppm	0.9381 ppm	0.9607 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0033 ppm	0.0074 ppm	0.8654 ppm	0.9698 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0031 ppm	0.0072 ppm	0.8594 ppm	0.9682 ppm
Concentration RSD	33.5 %	24.2 %	26.1 %	2.8 %	2.1 %	4.9 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0212 ppm	-0.0001 ppm	4.2751 ppm	0.0007 ppm	-0.0013 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	0.0223 ppm	-0.0001 ppm	4.4930 ppm	0.0008 ppm	-0.0017 ppm	0.0006 ppm	-0.0012 ppm
Concentration per Run 2	0.0207 ppm	0.0000 ppm	4.1773 ppm	0.0007 ppm	-0.0013 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0204 ppm	-0.0001 ppm	4.1550 ppm	0.0007 ppm	-0.0010 ppm	0.0001 ppm	-0.0003 ppm
Concentration RSD	4.9 %	127.7 %	4.4 %	4.0 %	26.7 %	71.1 %	353.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.6638 ppm	-0.0005 ppm	0.0343 ppm	0.0004 ppm	0.0008 ppm	0.0002 ppm	0.0033 ppm
Concentration per Run 1	8.6542 ppm	-0.0006 ppm	0.0361 ppm	0.0005 ppm	0.0012 ppm	0.0002 ppm	0.0032 ppm
Concentration per Run 2	8.6683 ppm	-0.0003 ppm	0.0335 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 3	8.6688 ppm	-0.0006 ppm	0.0332 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0034 ppm
Concentration RSD	0.1 %	36.4 %	4.7 %	24.9 %	43.8 %	45.0 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1793 %	103.7869 %	104.2794 %	126.1029 %	106.2698 %	109.5143 %	0.0015 ppm
Concentration per Run 1	95.8193 %	103.8883 %	104.1404 %	122.1402 %	106.3410 %	109.9400 %	0.0005 ppm
Concentration per Run 2	104.0091 %	103.8227 %	104.4742 %	128.3142 %	106.3394 %	109.5770 %	0.0016 ppm
Concentration per Run 3	103.7097 %	103.6497 %	104.2235 %	127.8542 %	106.1292 %	109.0260 %	0.0023 ppm
Concentration RSD	4.6 %	0.1 %	0.2 %	2.7 %	0.1 %	0.4 %	61.2 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-05 WG1935023
Analysis started at: 6/17/2024 8:21:52 PM
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0049 ppm	0.0009 ppm	0.0070 ppm	0.0016 ppm	0.0000 ppm	5.0554 ppm
Concentration per Run 1	-0.0003 ppm	0.0075 ppm	0.0006 ppm	0.0074 ppm	0.0018 ppm	0.0000 ppm	5.6185 ppm
Concentration per Run 2	0.0000 ppm	0.0033 ppm	0.0013 ppm	0.0068 ppm	0.0015 ppm	0.0000 ppm	4.9231 ppm
Concentration per Run 3	-0.0003 ppm	0.0039 ppm	0.0009 ppm	0.0068 ppm	0.0014 ppm	0.0000 ppm	4.6247 ppm
Concentration RSD	74.8 %	46.4 %	38.9 %	5.0 %	14.7 %	201.7 %	10.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0032 ppm	0.0950 ppm	0.5961 ppm	1.0578 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0033 ppm	0.1049 ppm	0.6582 ppm	1.0629 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0031 ppm	0.0930 ppm	0.5817 ppm	1.0584 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm	0.0871 ppm	0.5486 ppm	1.0523 ppm
Concentration RSD	14.1 %	54.6 %	76.4 %	4.4 %	9.5 %	9.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1673 ppm	-0.0002 ppm	5.1166 ppm	0.0007 ppm	-0.0015 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.1866 ppm	-0.0003 ppm	5.6531 ppm	0.0008 ppm	-0.0015 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.1624 ppm	-0.0002 ppm	4.9920 ppm	0.0007 ppm	-0.0016 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.1528 ppm	-0.0001 ppm	4.7049 ppm	0.0006 ppm	-0.0014 ppm	-0.0002 ppm	-0.0017 ppm
Concentration RSD	10.4 %	51.4 %	9.5 %	14.1 %	6.2 %	247.0 %	276.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.7323 ppm	-0.0006 ppm	0.0389 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run 1	8.9250 ppm	-0.0009 ppm	0.0432 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run 2	8.6612 ppm	-0.0003 ppm	0.0378 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0036 ppm
Concentration per Run 3	8.6105 ppm	-0.0006 ppm	0.0358 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0035 ppm
Concentration RSD	1.9 %	51.4 %	9.8 %	9.4 %	255.6 %	42.4 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.0276 %	103.7493 %	103.1987 %	99.5368 %	101.1952 %	103.1067 %	0.0000 ppm
Concentration per Run 1	92.0521 %	103.7540 %	102.3776 %	87.9429 %	99.1845 %	102.3669 %	-0.0007 ppm
Concentration per Run 2	104.0162 %	103.6582 %	103.7109 %	99.8510 %	102.0320 %	103.1778 %	0.0009 ppm
Concentration per Run 3	110.0146 %	103.8356 %	103.5075 %	110.8164 %	102.3690 %	103.7754 %	-0.0001 ppm
Concentration RSD	9.0 %	0.1 %	0.7 %	11.5 %	1.7 %	0.7 %	24,496.0 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-06 WG1935023
Analysis started at: 6/17/2024 8:28:28 PM
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0088 ppm	0.0002 ppm	0.0139 ppm	0.0021 ppm	0.0000 ppm	3.9028 ppm
Concentration per Run 1	-0.0001 ppm	0.0110 ppm	0.0006 ppm	0.0139 ppm	0.0022 ppm	0.0000 ppm	4.1125 ppm
Concentration per Run 2	-0.0005 ppm	0.0069 ppm	0.0003 ppm	0.0140 ppm	0.0020 ppm	0.0000 ppm	3.8100 ppm
Concentration per Run 3	-0.0001 ppm	0.0086 ppm	-0.0003 ppm	0.0137 ppm	0.0020 ppm	0.0000 ppm	3.7860 ppm
Concentration RSD	102.4 %	23.3 %	237.7 %	0.8 %	6.1 %	135.1 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0034 ppm	0.0194 ppm	0.8534 ppm	0.6798 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0035 ppm	0.0195 ppm	0.9140 ppm	0.6831 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0034 ppm	0.0196 ppm	0.8145 ppm	0.6769 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0035 ppm	0.0191 ppm	0.8316 ppm	0.6795 ppm
Concentration RSD	72.2 %	59.0 %	13.2 %	1.7 %	1.5 %	6.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0024 ppm	-0.0001 ppm	14.3768 ppm	0.0007 ppm	-0.0009 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0026 ppm	-0.0001 ppm	15.1064 ppm	0.0007 ppm	-0.0005 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 2	0.0023 ppm	-0.0001 ppm	14.0398 ppm	0.0007 ppm	-0.0012 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0022 ppm	-0.0001 ppm	13.9843 ppm	0.0007 ppm	-0.0009 ppm	-0.0003 ppm	-0.0006 ppm
Concentration RSD	9.6 %	36.1 %	4.4 %	4.4 %	39.1 %	39.4 %	121.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7347 ppm	-0.0004 ppm	0.0332 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	5.7713 ppm	-0.0006 ppm	0.0349 ppm	0.0002 ppm	0.0012 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 2	5.7401 ppm	-0.0001 ppm	0.0323 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 3	5.6928 ppm	-0.0004 ppm	0.0324 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0037 ppm
Concentration RSD	0.7 %	59.5 %	4.5 %	23.3 %	38.9 %	93.2 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7972 %	103.0972 %	103.1084 %	97.8954 %	101.1592 %	101.9654 %	-0.0009 ppm
Concentration per Run 1	96.8885 %	103.0329 %	103.4145 %	89.2804 %	100.5861 %	101.2590 %	-0.0005 ppm
Concentration per Run 2	103.8516 %	103.2317 %	102.8817 %	99.2797 %	101.0137 %	102.1359 %	-0.0018 ppm
Concentration per Run 3	104.6514 %	103.0269 %	103.0289 %	105.1262 %	101.8778 %	102.5012 %	-0.0004 ppm
Concentration RSD	4.2 %	0.1 %	0.3 %	8.2 %	0.7 %	0.6 %	88.7 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-07 WG1935023
Analysis started at: 6/17/2024 8:35:04 PM
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0070 ppm	0.0304 ppm	0.0570 ppm	0.0433 ppm	0.0000 ppm	23.4510 ppm
Concentration per Run 1	0.0000 ppm	0.0083 ppm	0.0306 ppm	0.0573 ppm	0.0443 ppm	0.0000 ppm	24.0513 ppm
Concentration per Run 2	0.0000 ppm	0.0070 ppm	0.0315 ppm	0.0571 ppm	0.0429 ppm	0.0000 ppm	23.1971 ppm
Concentration per Run 3	-0.0003 ppm	0.0056 ppm	0.0292 ppm	0.0567 ppm	0.0428 ppm	0.0000 ppm	23.1045 ppm
Concentration RSD	149.0 %	19.2 %	3.9 %	0.5 %	1.9 %	62.8 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0004 ppm	0.0076 ppm	0.0008 ppm	0.0031 ppm	35.3296 ppm	6.9692 ppm	3.8084 ppm
Concentration per Run 1	-0.0004 ppm	0.0075 ppm	0.0008 ppm	0.0032 ppm	36.1362 ppm	7.1071 ppm	3.8220 ppm
Concentration per Run 2	-0.0004 ppm	0.0076 ppm	0.0008 ppm	0.0030 ppm	34.9679 ppm	6.9292 ppm	3.8053 ppm
Concentration per Run 3	-0.0004 ppm	0.0076 ppm	0.0009 ppm	0.0033 ppm	34.8847 ppm	6.8714 ppm	3.7979 ppm
Concentration RSD	3.4 %	0.5 %	6.6 %	5.2 %	2.0 %	1.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.9982 ppm	0.0025 ppm	98.0001 ppm	-0.0001 ppm	-0.0017 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 1	4.0960 ppm	0.0025 ppm	101.0021 ppm	-0.0001 ppm	-0.0016 ppm	-0.0018 ppm	0.0006 ppm
Concentration per Run 2	3.9553 ppm	0.0025 ppm	95.6821 ppm	-0.0001 ppm	-0.0017 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 3	3.9433 ppm	0.0025 ppm	97.3161 ppm	-0.0001 ppm	-0.0018 ppm	-0.0009 ppm	-0.0006 ppm
Concentration RSD	2.1 %	0.8 %	2.8 %	18.1 %	4.6 %	87.5 %	721.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.4402 ppm	-0.0004 ppm	0.2283 ppm	0.0007 ppm	0.0003 ppm	0.0060 ppm	0.0041 ppm
Concentration per Run 1	9.4660 ppm	-0.0005 ppm	0.2336 ppm	0.0008 ppm	0.0005 ppm	0.0061 ppm	0.0042 ppm
Concentration per Run 2	9.4353 ppm	-0.0006 ppm	0.2261 ppm	0.0006 ppm	0.0001 ppm	0.0060 ppm	0.0041 ppm
Concentration per Run 3	9.4193 ppm	-0.0001 ppm	0.2253 ppm	0.0007 ppm	0.0005 ppm	0.0060 ppm	0.0042 ppm
Concentration RSD	0.3 %	65.9 %	2.0 %	11.1 %	66.8 %	0.8 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.2898 %	96.8117 %	97.6353 %	110.1016 %	92.1689 %	99.0535 %	0.0000 ppm
Concentration per Run 1	100.5704 %	96.8110 %	97.7150 %	103.1382 %	92.0188 %	98.8020 %	0.0013 ppm
Concentration per Run 2	103.1116 %	96.8603 %	97.3736 %	112.1212 %	92.0404 %	99.2001 %	-0.0002 ppm
Concentration per Run 3	103.1873 %	96.7639 %	97.8173 %	115.0452 %	92.4473 %	99.1583 %	-0.0011 ppm
Concentration RSD	1.5 %	0.0 %	0.2 %	5.6 %	0.3 %	0.2 %	5,260.2 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-08 WG1935023
Analysis started at: 6/17/2024 8:41:42 PM
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0058 ppm	0.0304 ppm	0.0562 ppm	0.0446 ppm	0.0000 ppm	24.3962 ppm
Concentration per Run 1	0.0001 ppm	0.0059 ppm	0.0305 ppm	0.0566 ppm	0.0470 ppm	0.0000 ppm	25.9027 ppm
Concentration per Run 2	0.0000 ppm	0.0079 ppm	0.0304 ppm	0.0559 ppm	0.0434 ppm	0.0000 ppm	23.7385 ppm
Concentration per Run 3	0.0001 ppm	0.0035 ppm	0.0303 ppm	0.0560 ppm	0.0432 ppm	0.0000 ppm	23.5473 ppm
Concentration RSD	65.0 %	37.7 %	0.3 %	0.7 %	4.8 %	2,705.6 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0004 ppm	0.0076 ppm	0.0005 ppm	0.0000 ppm	36.8303 ppm	6.9753 ppm	3.8697 ppm
Concentration per Run 1	-0.0004 ppm	0.0076 ppm	0.0005 ppm	0.0001 ppm	38.9437 ppm	7.3361 ppm	3.8815 ppm
Concentration per Run 2	-0.0004 ppm	0.0076 ppm	0.0006 ppm	0.0001 ppm	35.8689 ppm	6.8207 ppm	3.8639 ppm
Concentration per Run 3	-0.0004 ppm	0.0074 ppm	0.0005 ppm	-0.0001 ppm	35.6782 ppm	6.7690 ppm	3.8637 ppm
Concentration RSD	2.1 %	1.6 %	17.3 %	383.4 %	5.0 %	4.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.1763 ppm	0.0024 ppm	98.8229 ppm	-0.0005 ppm	-0.0018 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 1	4.4282 ppm	0.0023 ppm	104.5192 ppm	-0.0004 ppm	-0.0016 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	4.0655 ppm	0.0025 ppm	96.6274 ppm	-0.0005 ppm	-0.0018 ppm	-0.0007 ppm	0.0022 ppm
Concentration per Run 3	4.0351 ppm	0.0023 ppm	95.3221 ppm	-0.0006 ppm	-0.0018 ppm	0.0003 ppm	-0.0011 ppm
Concentration RSD	5.2 %	4.2 %	5.0 %	18.4 %	5.3 %	182.6 %	542.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.1969 ppm	-0.0002 ppm	0.2346 ppm	0.0006 ppm	0.0004 ppm	0.0061 ppm	0.0035 ppm
Concentration per Run 1	9.2199 ppm	-0.0001 ppm	0.2476 ppm	0.0006 ppm	0.0001 ppm	0.0061 ppm	0.0035 ppm
Concentration per Run 2	9.1977 ppm	-0.0004 ppm	0.2286 ppm	0.0005 ppm	0.0005 ppm	0.0061 ppm	0.0035 ppm
Concentration per Run 3	9.1730 ppm	-0.0002 ppm	0.2274 ppm	0.0008 ppm	0.0007 ppm	0.0061 ppm	0.0036 ppm
Concentration RSD	0.3 %	77.9 %	4.8 %	22.5 %	76.1 %	0.3 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1217 %	96.7448 %	97.6786 %	107.4730 %	92.2875 %	98.9906 %	0.0009 ppm
Concentration per Run 1	95.0397 %	96.7389 %	97.7559 %	98.1324 %	92.0220 %	98.5487 %	0.0005 ppm
Concentration per Run 2	102.3663 %	96.5535 %	97.6969 %	109.4226 %	92.2984 %	99.0438 %	0.0003 ppm
Concentration per Run 3	102.9591 %	96.9420 %	97.5829 %	114.8642 %	92.5420 %	99.3792 %	0.0020 ppm
Concentration RSD	4.4 %	0.2 %	0.1 %	7.9 %	0.3 %	0.4 %	103.0 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-09 WG1935023
Analysis started at: 6/17/2024 8:48:17 PM
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0611 ppm	0.0011 ppm	0.0062 ppm	0.0016 ppm	0.0001 ppm	0.7779 ppm
Concentration per Run 1	0.0002 ppm	0.0589 ppm	0.0013 ppm	0.0062 ppm	0.0016 ppm	0.0001 ppm	0.7871 ppm
Concentration per Run 2	-0.0002 ppm	0.0624 ppm	0.0013 ppm	0.0064 ppm	0.0014 ppm	0.0000 ppm	0.7210 ppm
Concentration per Run 3	0.0000 ppm	0.0619 ppm	0.0008 ppm	0.0061 ppm	0.0017 ppm	0.0000 ppm	0.8256 ppm
Concentration RSD	1,004.9 %	3.1 %	24.2 %	2.2 %	9.8 %	70.3 %	6.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0040 ppm	0.3068 ppm	1.0562 ppm	0.2073 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0041 ppm	0.3096 ppm	1.0656 ppm	0.2076 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0040 ppm	0.2846 ppm	0.9891 ppm	0.2084 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0040 ppm	0.3260 ppm	1.1138 ppm	0.2058 ppm
Concentration RSD	47.3 %	110.2 %	35.6 %	1.2 %	6.8 %	6.0 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0113 ppm	0.0000 ppm	8.5719 ppm	0.0006 ppm	-0.0003 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 1	0.0114 ppm	0.0000 ppm	8.6572 ppm	0.0005 ppm	-0.0006 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.0105 ppm	0.0001 ppm	7.9892 ppm	0.0005 ppm	-0.0004 ppm	-0.0003 ppm	-0.0012 ppm
Concentration per Run 3	0.0120 ppm	0.0000 ppm	9.0693 ppm	0.0007 ppm	0.0000 ppm	-0.0010 ppm	0.0004 ppm
Concentration RSD	6.7 %	462.5 %	6.4 %	17.1 %	101.6 %	64.9 %	186.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1491 ppm	-0.0007 ppm	0.0080 ppm	0.0012 ppm	0.0005 ppm	0.0003 ppm	0.0041 ppm
Concentration per Run 1	3.1657 ppm	-0.0006 ppm	0.0081 ppm	0.0011 ppm	0.0008 ppm	0.0004 ppm	0.0040 ppm
Concentration per Run 2	3.1443 ppm	-0.0009 ppm	0.0074 ppm	0.0012 ppm	0.0000 ppm	0.0003 ppm	0.0040 ppm
Concentration per Run 3	3.1373 ppm	-0.0007 ppm	0.0084 ppm	0.0012 ppm	0.0007 ppm	0.0003 ppm	0.0041 ppm
Concentration RSD	0.5 %	21.1 %	6.1 %	3.5 %	89.2 %	16.7 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6911 %	104.1293 %	104.2054 %	100.6762 %	103.1797 %	103.0068 %	0.0005 ppm
Concentration per Run 1	99.7859 %	103.9506 %	104.1436 %	95.3528 %	102.6472 %	102.0431 %	0.0001 ppm
Concentration per Run 2	107.2152 %	104.1955 %	104.0804 %	105.8993 %	103.3432 %	103.1559 %	0.0002 ppm
Concentration per Run 3	95.0721 %	104.2420 %	104.3921 %	100.7764 %	103.5486 %	103.8213 %	0.0013 ppm
Concentration RSD	6.1 %	0.2 %	0.2 %	5.2 %	0.5 %	0.9 %	118.8 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-10 WG1935023
Analysis started at: 6/17/2024 8:54:54 PM
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0444 ppm	0.0000 ppm	0.0085 ppm	0.0053 ppm	0.0000 ppm	2.0584 ppm
Concentration per Run 1	-0.0002 ppm	0.0476 ppm	0.0002 ppm	0.0083 ppm	0.0057 ppm	0.0000 ppm	2.1946 ppm
Concentration per Run 2	0.0004 ppm	0.0413 ppm	0.0000 ppm	0.0086 ppm	0.0051 ppm	0.0000 ppm	1.9976 ppm
Concentration per Run 3	-0.0003 ppm	0.0443 ppm	-0.0001 ppm	0.0085 ppm	0.0050 ppm	0.0000 ppm	1.9829 ppm
Concentration RSD	805.4 %	7.0 %	437.4 %	2.2 %	7.2 %	46.4 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0038 ppm	0.4787 ppm	1.1376 ppm	0.4265 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0038 ppm	0.5075 ppm	1.2200 ppm	0.4285 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0038 ppm	0.4665 ppm	1.0985 ppm	0.4274 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0037 ppm	0.4622 ppm	1.0944 ppm	0.4235 ppm
Concentration RSD	208.4 %	155.3 %	81.2 %	1.3 %	5.2 %	6.3 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0394 ppm	0.0000 ppm	13.5239 ppm	0.0007 ppm	-0.0003 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 1	0.0419 ppm	0.0000 ppm	14.3648 ppm	0.0006 ppm	-0.0004 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 2	0.0382 ppm	-0.0001 ppm	13.1754 ppm	0.0006 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0380 ppm	0.0002 ppm	13.0315 ppm	0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	5.6 %	640.6 %	5.4 %	23.0 %	9.6 %	205.6 %	113.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.3253 ppm	-0.0005 ppm	0.0168 ppm	0.0009 ppm	0.0011 ppm	0.0003 ppm	0.0051 ppm
Concentration per Run 1	3.2833 ppm	-0.0004 ppm	0.0178 ppm	0.0009 ppm	0.0012 ppm	0.0003 ppm	0.0051 ppm
Concentration per Run 2	3.3628 ppm	-0.0008 ppm	0.0164 ppm	0.0007 ppm	0.0008 ppm	0.0004 ppm	0.0052 ppm
Concentration per Run 3	3.3299 ppm	-0.0004 ppm	0.0163 ppm	0.0010 ppm	0.0013 ppm	0.0002 ppm	0.0051 ppm
Concentration RSD	1.2 %	45.9 %	5.1 %	20.3 %	28.1 %	37.6 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.8950 %	103.5914 %	103.7458 %	99.3756 %	102.1699 %	102.5015 %	0.0009 ppm
Concentration per Run 1	96.9546 %	103.7279 %	104.4917 %	90.7200 %	103.3896 %	101.8592 %	0.0012 ppm
Concentration per Run 2	105.4637 %	103.7896 %	103.2522 %	101.2976 %	100.9408 %	102.6995 %	0.0010 ppm
Concentration per Run 3	106.2666 %	103.2566 %	103.4935 %	106.1093 %	102.1793 %	102.9457 %	0.0005 ppm
Concentration RSD	5.0 %	0.3 %	0.6 %	7.9 %	1.2 %	0.6 %	38.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433268-11 WG1935023
Analysis started at: 6/17/2024 9:01:31 PM
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0365 ppm	0.0012 ppm	0.0091 ppm	0.0054 ppm	0.0000 ppm	2.1593 ppm
Concentration per Run 1	-0.0004 ppm	0.0373 ppm	0.0012 ppm	0.0093 ppm	0.0057 ppm	0.0000 ppm	2.2601 ppm
Concentration per Run 2	-0.0001 ppm	0.0390 ppm	0.0012 ppm	0.0088 ppm	0.0052 ppm	0.0000 ppm	2.1146 ppm
Concentration per Run 3	0.0000 ppm	0.0332 ppm	0.0012 ppm	0.0092 ppm	0.0052 ppm	0.0000 ppm	2.1033 ppm
Concentration RSD	128.3 %	8.2 %	1.7 %	2.8 %	5.2 %	27.5 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0043 ppm	0.3461 ppm	1.1196 ppm	0.4311 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0043 ppm	0.3595 ppm	1.1855 ppm	0.4340 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0043 ppm	0.3404 ppm	1.0854 ppm	0.4315 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0042 ppm	0.3384 ppm	1.0877 ppm	0.4279 ppm
Concentration RSD	329.1 %	92.0 %	32.1 %	2.1 %	3.4 %	5.1 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0338 ppm	0.0000 ppm	14.7611 ppm	0.0007 ppm	-0.0005 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 1	0.0355 ppm	0.0000 ppm	15.4334 ppm	0.0009 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0330 ppm	-0.0002 ppm	14.4491 ppm	0.0006 ppm	-0.0006 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0328 ppm	0.0000 ppm	14.4007 ppm	0.0007 ppm	-0.0004 ppm	0.0013 ppm	-0.0011 ppm
Concentration RSD	4.4 %	256.0 %	3.9 %	18.7 %	19.1 %	132.4 %	146.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4814 ppm	-0.0006 ppm	0.0174 ppm	0.0010 ppm	0.0010 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 1	3.4936 ppm	-0.0008 ppm	0.0182 ppm	0.0010 ppm	0.0011 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 2	3.4778 ppm	-0.0002 ppm	0.0171 ppm	0.0011 ppm	0.0008 ppm	0.0002 ppm	0.0040 ppm
Concentration per Run 3	3.4728 ppm	-0.0007 ppm	0.0170 ppm	0.0009 ppm	0.0012 ppm	0.0001 ppm	0.0041 ppm
Concentration RSD	0.3 %	57.2 %	3.8 %	9.7 %	19.0 %	70.7 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.4574 %	103.7005 %	103.7389 %	102.0083 %	101.7059 %	102.7218 %	0.0009 ppm
Concentration per Run 1	99.0867 %	103.7332 %	104.0405 %	94.4908 %	101.3672 %	102.2052 %	0.0001 ppm
Concentration per Run 2	105.2363 %	103.8362 %	103.8272 %	103.4699 %	101.8540 %	102.8949 %	0.0015 ppm
Concentration per Run 3	106.0491 %	103.5321 %	103.3490 %	108.0643 %	101.8966 %	103.0652 %	0.0011 ppm
Concentration RSD	3.7 %	0.1 %	0.3 %	6.8 %	0.3 %	0.4 %	85.0 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-01 WG1935023
Analysis started at: 6/17/2024 9:08:08 PM
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0475 ppm	0.0002 ppm	0.0037 ppm	0.0141 ppm	0.0000 ppm	1.8174 ppm
Concentration per Run 1	-0.0002 ppm	0.0482 ppm	0.0005 ppm	0.0037 ppm	0.0150 ppm	0.0000 ppm	1.9289 ppm
Concentration per Run 2	-0.0002 ppm	0.0473 ppm	0.0005 ppm	0.0035 ppm	0.0137 ppm	0.0000 ppm	1.7654 ppm
Concentration per Run 3	-0.0002 ppm	0.0470 ppm	-0.0005 ppm	0.0038 ppm	0.0135 ppm	0.0000 ppm	1.7577 ppm
Concentration RSD	12.8 %	1.3 %	326.0 %	4.5 %	5.6 %	51.9 %	5.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0155 ppm	0.0001 ppm	0.0023 ppm	0.0102 ppm	0.2387 ppm	0.5049 ppm
Concentration per Run 1	0.0000 ppm	0.0155 ppm	0.0002 ppm	0.0022 ppm	0.0100 ppm	0.2651 ppm	0.5077 ppm
Concentration per Run 2	0.0000 ppm	0.0154 ppm	-0.0001 ppm	0.0022 ppm	0.0103 ppm	0.2380 ppm	0.5040 ppm
Concentration per Run 3	0.0000 ppm	0.0155 ppm	0.0002 ppm	0.0025 ppm	0.0103 ppm	0.2130 ppm	0.5032 ppm
Concentration RSD	134.1 %	0.5 %	140.6 %	6.6 %	1.5 %	10.9 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0162 ppm	0.0000 ppm	36.0067 ppm	0.0014 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0174 ppm	0.0000 ppm	38.1501 ppm	0.0013 ppm	-0.0010 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 2	0.0157 ppm	0.0001 ppm	34.9518 ppm	0.0015 ppm	-0.0005 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0155 ppm	-0.0001 ppm	34.9182 ppm	0.0014 ppm	-0.0007 ppm	0.0004 ppm	0.0007 ppm
Concentration RSD	6.3 %	758.5 %	5.2 %	9.8 %	33.7 %	186.6 %	369.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.6291 ppm	-0.0006 ppm	0.0102 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 1	4.6474 ppm	-0.0005 ppm	0.0108 ppm	0.0003 ppm	0.0003 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 2	4.6288 ppm	-0.0006 ppm	0.0098 ppm	0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 3	4.6112 ppm	-0.0007 ppm	0.0099 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0025 ppm
Concentration RSD	0.4 %	12.2 %	5.4 %	32.1 %	74.8 %	38.4 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.8695 %	102.4713 %	103.2020 %	98.3874 %	99.2643 %	101.2304 %	-0.0001 ppm
Concentration per Run 1	96.2565 %	102.5403 %	103.4370 %	89.5907 %	99.0071 %	100.5324 %	0.0007 ppm
Concentration per Run 2	104.5420 %	102.4374 %	103.1408 %	100.1557 %	99.2088 %	101.3154 %	-0.0022 ppm
Concentration per Run 3	104.8100 %	102.4363 %	103.0282 %	105.4157 %	99.5768 %	101.8433 %	0.0012 ppm
Concentration RSD	4.8 %	0.1 %	0.2 %	8.2 %	0.3 %	0.7 %	2,575.1 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2433401-02 WG1935023
Analysis started at: 6/17/2024 9:14:44 PM
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0198 ppm	0.0002 ppm	0.1285 ppm	0.4687 ppm	0.0000 ppm	48.4867 ppm
Concentration per Run 1	-0.0003 ppm	0.0225 ppm	0.0010 ppm	0.1298 ppm	0.4967 ppm	0.0000 ppm	51.4454 ppm
Concentration per Run 2	0.0002 ppm	0.0169 ppm	0.0000 ppm	0.1276 ppm	0.4548 ppm	0.0000 ppm	47.2188 ppm
Concentration per Run 3	-0.0001 ppm	0.0199 ppm	-0.0003 ppm	0.1280 ppm	0.4545 ppm	0.0000 ppm	46.7960 ppm
Concentration RSD	287.6 %	14.3 %	325.7 %	0.9 %	5.2 %	16.8 %	5.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0004 ppm	0.0006 ppm	0.0008 ppm	0.0018 ppm	42.6067 ppm	12.2380 ppm	9.4558 ppm
Concentration per Run 1	-0.0005 ppm	0.0006 ppm	0.0008 ppm	0.0018 ppm	45.1003 ppm	12.9463 ppm	9.4390 ppm
Concentration per Run 2	-0.0004 ppm	0.0006 ppm	0.0009 ppm	0.0017 ppm	41.4430 ppm	11.8916 ppm	9.4732 ppm
Concentration per Run 3	-0.0005 ppm	0.0006 ppm	0.0008 ppm	0.0017 ppm	41.2768 ppm	11.8762 ppm	9.4552 ppm
Concentration RSD	7.1 %	4.0 %	9.6 %	4.6 %	5.1 %	5.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6776 ppm	-0.0002 ppm	22.3763 ppm	-0.0007 ppm	-0.0014 ppm	-0.0008 ppm	0.0018 ppm
Concentration per Run 1	1.7798 ppm	-0.0001 ppm	23.6394 ppm	-0.0009 ppm	-0.0015 ppm	-0.0008 ppm	0.0014 ppm
Concentration per Run 2	1.6302 ppm	-0.0002 ppm	21.7688 ppm	-0.0007 ppm	-0.0014 ppm	-0.0004 ppm	0.0027 ppm
Concentration per Run 3	1.6228 ppm	-0.0002 ppm	21.7207 ppm	-0.0006 ppm	-0.0013 ppm	-0.0012 ppm	0.0014 ppm
Concentration RSD	5.3 %	23.7 %	4.9 %	17.1 %	7.9 %	45.5 %	41.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.2968 ppm	-0.0001 ppm	0.2436 ppm	0.0014 ppm	-0.0001 ppm	0.0040 ppm	0.0144 ppm
Concentration per Run 1	8.3698 ppm	-0.0003 ppm	0.2578 ppm	0.0015 ppm	-0.0001 ppm	0.0040 ppm	0.0145 ppm
Concentration per Run 2	8.2674 ppm	0.0002 ppm	0.2364 ppm	0.0013 ppm	-0.0004 ppm	0.0039 ppm	0.0143 ppm
Concentration per Run 3	8.2533 ppm	-0.0001 ppm	0.2366 ppm	0.0014 ppm	0.0003 ppm	0.0040 ppm	0.0142 ppm
Concentration RSD	0.8 %	433.3 %	5.0 %	6.7 %	448.7 %	2.4 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4248 %	100.0397 %	100.1429 %	109.1718 %	95.8195 %	101.5165 %	-0.0019 ppm
Concentration per Run 1	96.5225 %	100.2355 %	99.9481 %	100.8337 %	95.0930 %	101.4522 %	-0.0012 ppm
Concentration per Run 2	103.6578 %	100.0801 %	100.7456 %	110.9738 %	96.1593 %	101.6341 %	-0.0020 ppm
Concentration per Run 3	104.0942 %	99.8033 %	99.7350 %	115.7079 %	96.2063 %	101.4630 %	-0.0026 ppm
Concentration RSD	4.2 %	0.2 %	0.5 %	7.0 %	0.7 %	0.1 %	37.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 9:21:20 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4660 ppm	0.4843 ppm	0.4550 ppm	0.4495 ppm	0.4843 ppm	0.4905 ppm	0.4893 ppm
Concentration per Run 1	0.4678 ppm	0.5196 ppm	0.4549 ppm	0.4512 ppm	0.5143 ppm	0.5219 ppm	0.5210 ppm
Concentration per Run 2	0.4657 ppm	0.4664 ppm	0.4539 ppm	0.4488 ppm	0.4691 ppm	0.4753 ppm	0.4732 ppm
Concentration per Run 3	0.4644 ppm	0.4669 ppm	0.4561 ppm	0.4487 ppm	0.4695 ppm	0.4741 ppm	0.4737 ppm
Recovery Percentage 1	93.194 %	96.866 %	90.995 %	89.910 %	96.864 %	98.090 %	97.860 %
Concentration RSD	0.4 %	6.3 %	0.2 %	0.3 %	5.4 %	5.6 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4636 ppm	0.4621 ppm	0.4692 ppm	0.4639 ppm	0.4917 ppm	5.0099 ppm	0.4828 ppm
Concentration per Run 1	0.4658 ppm	0.4637 ppm	0.4692 ppm	0.4650 ppm	0.5220 ppm	5.3122 ppm	0.4811 ppm
Concentration per Run 2	0.4627 ppm	0.4614 ppm	0.4687 ppm	0.4636 ppm	0.4772 ppm	4.8900 ppm	0.4852 ppm
Concentration per Run 3	0.4623 ppm	0.4612 ppm	0.4697 ppm	0.4631 ppm	0.4757 ppm	4.8274 ppm	0.4822 ppm
Recovery Percentage 1	92.721 %	92.421 %	93.832 %	92.776 %	98.332 %	100.198 %	96.566 %
Concentration RSD	0.4 %	0.3 %	0.1 %	0.2 %	5.4 %	5.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4838 ppm	0.4604 ppm	9.7975 ppm	0.4730 ppm	0.4845 ppm	0.4714 ppm	0.4659 ppm
Concentration per Run 1	0.5165 ppm	0.4610 ppm	10.3928 ppm	0.4745 ppm	0.4861 ppm	0.4725 ppm	0.4695 ppm
Concentration per Run 2	0.4693 ppm	0.4600 ppm	9.4981 ppm	0.4726 ppm	0.4835 ppm	0.4708 ppm	0.4632 ppm
Concentration per Run 3	0.4655 ppm	0.4603 ppm	9.5016 ppm	0.4718 ppm	0.4839 ppm	0.4710 ppm	0.4650 ppm
Recovery Percentage 1	96.754 %	92.081 %	97.975 %	94.595 %	96.899 %	94.289 %	93.182 %
Concentration RSD	5.9 %	0.1 %	5.3 %	0.3 %	0.3 %	0.2 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2707 ppm	0.4805 ppm	0.4826 ppm	0.4667 ppm	0.4847 ppm	0.4701 ppm	0.4603 ppm
Concentration per Run 1	5.2906 ppm	0.4829 ppm	0.5125 ppm	0.4671 ppm	0.4865 ppm	0.4702 ppm	0.4629 ppm
Concentration per Run 2	5.2632 ppm	0.4796 ppm	0.4674 ppm	0.4665 ppm	0.4840 ppm	0.4697 ppm	0.4591 ppm
Concentration per Run 3	5.2583 ppm	0.4790 ppm	0.4678 ppm	0.4664 ppm	0.4836 ppm	0.4703 ppm	0.4589 ppm
Recovery Percentage 1	100.394 %	96.103 %	96.512 %	93.338 %	96.940 %	94.011 %	92.055 %
Concentration RSD	0.3 %	0.4 %	5.4 %	0.1 %	0.3 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.4732 %	103.0727 %	104.2141 %	113.7843 %	100.8783 %	105.4162 %	0.4891 ppm
Concentration per Run 1	95.0314 %	102.9539 %	104.2417 %	107.1017 %	100.4859 %	105.2633 %	0.5178 ppm
Concentration per Run 2	102.9987 %	103.2491 %	104.0902 %	115.2167 %	100.9869 %	105.5432 %	0.4736 ppm
Concentration per Run 3	103.3897 %	103.0150 %	104.3104 %	119.0346 %	101.1623 %	105.4422 %	0.4761 ppm
Recovery Percentage 1							97.826 %
Concentration RSD	4.7 %	0.2 %	0.1 %	5.4 %	0.3 %	0.1 %	5.1 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 9:27:38 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0059 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0055 ppm
Concentration per Run 2	-0.0002 ppm	-0.0017 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0043 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0077 ppm
Recovery Percentage 1	-0.839 %	0.000 %	23.473 %	0.136 %	0.619 %	0.294 %	-0.001 %
Concentration RSD	288.5 %	230.9 %	57.9 %	362.5 %	125.0 %	155.7 %	29.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0420 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0382 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0017 ppm	0.0352 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0527 ppm	-0.0018 ppm
Recovery Percentage 1	0.446 %	0.136 %	-1.054 %	0.606 %	0.000 %	1.680 %	0.000 %
Concentration RSD	64.4 %	90.4 %	160.2 %	152.5 %	77.9 %	22.3 %	315.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0661 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0688 ppm	0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0610 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0685 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm
Recovery Percentage 1	-0.219 %	0.455 %	3.306 %	1.008 %	2.466 %	0.919 %	8.848 %
Concentration RSD	386.0 %	38.2 %	6.7 %	39.0 %	89.0 %	41.2 %	61.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0009 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0010 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	-0.0012 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-0.184 %	0.974 %	-0.625 %	1.724 %	3.527 %	-0.656 %	5.866 %
Concentration RSD	33.5 %	62.4 %	56.5 %	65.7 %	43.4 %	145.1 %	10.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0873 %	105.3904 %	106.2134 %	103.6118 %	105.1069 %	104.9252 %	0.0002 ppm
Concentration per Run 1	96.7074 %	105.3780 %	106.0982 %	96.3313 %	104.7991 %	104.6684 %	0.0010 ppm
Concentration per Run 2	103.2791 %	105.2711 %	106.3041 %	105.4724 %	105.3312 %	104.8854 %	0.0003 ppm
Concentration per Run 3	103.2755 %	105.5222 %	106.2380 %	109.0317 %	105.1904 %	105.2217 %	-0.0007 ppm
Recovery Percentage 1							1.896 %
Concentration RSD	3.8 %	0.1 %	0.1 %	6.3 %	0.3 %	0.3 %	448.6 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935321-1 WG1935321
Analysis started at: 6/17/2024 9:53:14 PM
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0024 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 2	0.0000 ppm	0.0046 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 3	-0.0003 ppm	0.0019 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0074 ppm
Concentration RSD	480.9 %	88.7 %	1,757.3 %	69.4 %	79.7 %	121.8 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0026 ppm	0.0202 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0024 ppm	0.0108 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0029 ppm	0.0337 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0024 ppm	0.0161 ppm	0.0025 ppm
Concentration RSD	299.5 %	362.9 %	54.6 %	45.7 %	11.7 %	59.3 %	26.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0000 ppm	0.0535 ppm	0.0001 ppm	0.0003 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 1	0.0008 ppm	0.0000 ppm	0.0541 ppm	0.0002 ppm	0.0005 ppm	-0.0011 ppm	-0.0014 ppm
Concentration per Run 2	0.0011 ppm	-0.0001 ppm	0.0517 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	0.0010 ppm	0.0000 ppm	0.0547 ppm	0.0002 ppm	0.0004 ppm	-0.0016 ppm	0.0005 ppm
Concentration RSD	12.6 %	177.0 %	2.9 %	67.3 %	55.3 %	92.3 %	274.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0045 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0047 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.0044 ppm	-0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0044 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0004 ppm
Concentration RSD	3.6 %	15.7 %	192.2 %	110.5 %	40.1 %	21.5 %	12.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6673 %	106.9616 %	107.5456 %	128.8403 %	106.0152 %	110.0273 %	-0.0004 ppm
Concentration per Run 1	94.8028 %	107.0483 %	107.5117 %	126.2032 %	106.4257 %	110.4320 %	-0.0016 ppm
Concentration per Run 2	101.8873 %	107.0155 %	107.4820 %	130.5747 %	105.7705 %	110.0364 %	0.0000 ppm
Concentration per Run 3	102.3117 %	106.8210 %	107.6430 %	129.7428 %	105.8494 %	109.6136 %	0.0003 ppm
Concentration RSD	4.2 %	0.1 %	0.1 %	1.8 %	0.3 %	0.4 %	237.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935321-2 WG1935321
Analysis started at: 6/17/2024 9:59:55 PM
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0488 ppm	1.9640 ppm	0.1113 ppm	0.8786 ppm	1.9501 ppm	0.0485 ppm	10.0879 ppm
Concentration per Run 1	0.0488 ppm	2.1034 ppm	0.1116 ppm	0.8804 ppm	2.0865 ppm	0.0519 ppm	10.8325 ppm
Concentration per Run 2	0.0486 ppm	1.8978 ppm	0.1117 ppm	0.8787 ppm	1.8852 ppm	0.0470 ppm	9.7293 ppm
Concentration per Run 3	0.0490 ppm	1.8910 ppm	0.1105 ppm	0.8766 ppm	1.8787 ppm	0.0467 ppm	9.7018 ppm
Concentration RSD	0.3 %	6.1 %	0.6 %	0.2 %	6.1 %	6.0 %	6.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0513 ppm	0.4530 ppm	0.1864 ppm	0.2405 ppm	0.9741 ppm	9.8376 ppm	9.6741 ppm
Concentration per Run 1	0.0515 ppm	0.4547 ppm	0.1866 ppm	0.2410 ppm	1.0416 ppm	10.5396 ppm	9.6951 ppm
Concentration per Run 2	0.0513 ppm	0.4522 ppm	0.1863 ppm	0.2402 ppm	0.9406 ppm	9.5121 ppm	9.6715 ppm
Concentration per Run 3	0.0511 ppm	0.4520 ppm	0.1862 ppm	0.2401 ppm	0.9402 ppm	9.4612 ppm	9.6555 ppm
Concentration RSD	0.4 %	0.3 %	0.1 %	0.2 %	6.0 %	6.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4993 ppm	0.9253 ppm	10.2162 ppm	0.4724 ppm	0.5316 ppm	0.4833 ppm	0.1160 ppm
Concentration per Run 1	0.5357 ppm	0.9205 ppm	10.9224 ppm	0.4738 ppm	0.5341 ppm	0.4823 ppm	0.1161 ppm
Concentration per Run 2	0.4826 ppm	0.9251 ppm	9.8762 ppm	0.4721 ppm	0.5314 ppm	0.4836 ppm	0.1158 ppm
Concentration per Run 3	0.4796 ppm	0.9301 ppm	9.8499 ppm	0.4713 ppm	0.5293 ppm	0.4839 ppm	0.1162 ppm
Concentration RSD	6.3 %	0.5 %	6.0 %	0.3 %	0.5 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9905 ppm	0.9363 ppm	0.9259 ppm	0.9201 ppm	0.1178 ppm	0.4739 ppm	0.4576 ppm
Concentration per Run 1	0.9931 ppm	0.9383 ppm	0.9911 ppm	0.9226 ppm	0.1182 ppm	0.4750 ppm	0.4588 ppm
Concentration per Run 2	0.9904 ppm	0.9357 ppm	0.8949 ppm	0.9191 ppm	0.1173 ppm	0.4734 ppm	0.4588 ppm
Concentration per Run 3	0.9880 ppm	0.9347 ppm	0.8918 ppm	0.9186 ppm	0.1180 ppm	0.4734 ppm	0.4553 ppm
Concentration RSD	0.3 %	0.2 %	6.1 %	0.2 %	0.4 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9607 %	103.6244 %	104.1379 %	103.5663 %	98.4516 %	104.0856 %	-0.0013 ppm
Concentration per Run 1	93.6341 %	103.6977 %	104.2932 %	94.4550 %	98.0905 %	103.7502 %	-0.0010 ppm
Concentration per Run 2	102.9936 %	103.6717 %	104.1050 %	105.4433 %	98.5532 %	104.1945 %	-0.0024 ppm
Concentration per Run 3	103.2546 %	103.5039 %	104.0154 %	110.8006 %	98.7112 %	104.3120 %	-0.0005 ppm
Concentration RSD	5.5 %	0.1 %	0.1 %	8.0 %	0.3 %	0.3 %	78.6 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935321-3 WG1935321
Analysis started at: 6/17/2024 10:06:15 PM
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0486 ppm	1.9407 ppm	0.1093 ppm	0.8719 ppm	1.9223 ppm	0.0476 ppm	9.9965 ppm
Concentration per Run 1	0.0484 ppm	2.0823 ppm	0.1087 ppm	0.8701 ppm	2.0565 ppm	0.0509 ppm	10.7088 ppm
Concentration per Run 2	0.0484 ppm	1.8723 ppm	0.1100 ppm	0.8728 ppm	1.8602 ppm	0.0460 ppm	9.6519 ppm
Concentration per Run 3	0.0490 ppm	1.8676 ppm	0.1093 ppm	0.8727 ppm	1.8503 ppm	0.0459 ppm	9.6288 ppm
Concentration RSD	0.7 %	6.3 %	0.6 %	0.2 %	6.1 %	6.0 %	6.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0510 ppm	0.4506 ppm	0.1835 ppm	0.2380 ppm	0.9578 ppm	9.6572 ppm	9.5603 ppm
Concentration per Run 1	0.0511 ppm	0.4508 ppm	0.1838 ppm	0.2386 ppm	1.0233 ppm	10.2883 ppm	9.5945 ppm
Concentration per Run 2	0.0509 ppm	0.4505 ppm	0.1835 ppm	0.2383 ppm	0.9251 ppm	9.3328 ppm	9.5641 ppm
Concentration per Run 3	0.0509 ppm	0.4505 ppm	0.1833 ppm	0.2370 ppm	0.9249 ppm	9.3504 ppm	9.5222 ppm
Concentration RSD	0.3 %	0.0 %	0.2 %	0.4 %	5.9 %	5.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4916 ppm	0.9201 ppm	10.0071 ppm	0.4706 ppm	0.5275 ppm	0.4845 ppm	0.1151 ppm
Concentration per Run 1	0.5273 ppm	0.9150 ppm	10.6907 ppm	0.4708 ppm	0.5285 ppm	0.4842 ppm	0.1158 ppm
Concentration per Run 2	0.4745 ppm	0.9207 ppm	9.6769 ppm	0.4709 ppm	0.5265 ppm	0.4850 ppm	0.1146 ppm
Concentration per Run 3	0.4732 ppm	0.9247 ppm	9.6537 ppm	0.4700 ppm	0.5273 ppm	0.4842 ppm	0.1149 ppm
Concentration RSD	6.3 %	0.5 %	5.9 %	0.1 %	0.2 %	0.1 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9861 ppm	0.9286 ppm	0.9079 ppm	0.9071 ppm	**0.1175 ppm**	0.4704 ppm	0.4550 ppm
Concentration per Run 1	0.9881 ppm	0.9299 ppm	0.9717 ppm	0.9104 ppm	0.1179 ppm	0.4716 ppm	0.4562 ppm
Concentration per Run 2	0.9860 ppm	0.9285 ppm	0.8787 ppm	0.9060 ppm	0.1169 ppm	0.4707 ppm	0.4548 ppm
Concentration per Run 3	0.9843 ppm	0.9272 ppm	0.8734 ppm	0.9049 ppm	0.1176 ppm	0.4690 ppm	0.4540 ppm
Concentration RSD	0.2 %	0.1 %	6.1 %	0.3 %	0.5 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8833 %	104.1717 %	104.8022 %	103.4897 %	98.6182 %	104.5610 %	-0.0007 ppm
Concentration per Run 1	94.8156 %	104.1403 %	104.9932 %	94.6640 %	98.6219 %	104.1831 %	-0.0008 ppm
Concentration per Run 2	104.0353 %	104.0768 %	104.7800 %	105.6148 %	98.5235 %	104.4458 %	-0.0010 ppm
Concentration per Run 3	103.7991 %	104.2980 %	104.6335 %	110.1902 %	98.7092 %	105.0542 %	-0.0004 ppm
Concentration RSD	5.2 %	0.1 %	0.2 %	7.7 %	0.1 %	0.4 %	41.8 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2432803-01 WG1935321
Analysis started at: 6/17/2024 10:12:36 PM
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0095 ppm	0.0002 ppm	0.0246 ppm	0.0129 ppm	0.0000 ppm	12.4205 ppm
Concentration per Run 1	0.0000 ppm	0.0076 ppm	-0.0003 ppm	0.0245 ppm	0.0138 ppm	0.0000 ppm	13.2854 ppm
Concentration per Run 2	0.0000 ppm	0.0081 ppm	0.0009 ppm	0.0248 ppm	0.0126 ppm	0.0000 ppm	12.0362 ppm
Concentration per Run 3	0.0000 ppm	0.0127 ppm	0.0000 ppm	0.0246 ppm	0.0124 ppm	0.0000 ppm	11.9399 ppm
Concentration RSD	394.0 %	29.5 %	294.6 %	0.6 %	5.7 %	88.4 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0109 ppm	2.1868 ppm	3.2136 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0125 ppm	2.3302 ppm	3.2323 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0098 ppm	2.1143 ppm	3.2163 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0104 ppm	2.1158 ppm	3.1922 ppm
Concentration RSD	17.9 %	41.7 %	61.8 %	15.3 %	12.9 %	5.7 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0016 ppm	30.9151 ppm	0.0003 ppm	-0.0003 ppm	0.0009 ppm	0.0012 ppm
Concentration per Run 1	0.0010 ppm	0.0018 ppm	32.9331 ppm	0.0003 ppm	-0.0006 ppm	0.0014 ppm	0.0016 ppm
Concentration per Run 2	0.0007 ppm	0.0015 ppm	30.0037 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0014 ppm	29.8087 ppm	0.0003 ppm	-0.0003 ppm	0.0012 ppm	0.0020 ppm
Concentration RSD	15.9 %	11.6 %	5.7 %	10.5 %	72.0 %	75.9 %	96.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.4792 ppm	0.0002 ppm	0.0814 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	4.4887 ppm	0.0003 ppm	0.0867 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm	0.0023 ppm
Concentration per Run 2	4.4833 ppm	0.0003 ppm	0.0791 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	4.4655 ppm	0.0001 ppm	0.0785 ppm	0.0009 ppm	0.0004 ppm	-0.0001 ppm	0.0024 ppm
Concentration RSD	0.3 %	34.2 %	5.6 %	12.0 %	177.1 %	201.1 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3844 %	103.4962 %	104.2381 %	100.0381 %	97.9967 %	102.5897 %	-0.0015 ppm
Concentration per Run 1	95.3414 %	103.3523 %	104.6853 %	90.6146 %	97.8886 %	101.9306 %	-0.0007 ppm
Concentration per Run 2	104.0998 %	103.4571 %	104.0732 %	101.8457 %	97.8449 %	102.6181 %	-0.0019 ppm
Concentration per Run 3	104.7119 %	103.6791 %	103.9559 %	107.6541 %	98.2565 %	103.2204 %	-0.0018 ppm
Concentration RSD	5.2 %	0.2 %	0.4 %	8.7 %	0.2 %	0.6 %	44.7 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2432803-02 WG1935321
Analysis started at: 6/17/2024 10:19:14 PM
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0920 ppm	0.0006 ppm	0.0387 ppm	0.0348 ppm	0.0001 ppm	19.7890 ppm
Concentration per Run 1	0.0000 ppm	0.0978 ppm	0.0011 ppm	0.0390 ppm	0.0370 ppm	0.0001 ppm	21.0241 ppm
Concentration per Run 2	-0.0001 ppm	0.0904 ppm	0.0004 ppm	0.0386 ppm	0.0339 ppm	0.0001 ppm	19.2390 ppm
Concentration per Run 3	-0.0003 ppm	0.0879 ppm	0.0003 ppm	0.0385 ppm	0.0336 ppm	0.0001 ppm	19.1038 ppm
Concentration RSD	75.3 %	5.6 %	75.0 %	0.8 %	5.4 %	18.5 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0109 ppm	0.0512 ppm	3.1091 ppm	4.5862 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0109 ppm	0.0538 ppm	3.2953 ppm	4.6104 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0109 ppm	0.0502 ppm	3.0294 ppm	4.5826 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0108 ppm	0.0495 ppm	3.0025 ppm	4.5655 ppm
Concentration RSD	5.9 %	21.9 %	15.7 %	0.7 %	4.5 %	5.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0327 ppm	0.0007 ppm	17.0762 ppm	0.0061 ppm	-0.0014 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.0348 ppm	0.0008 ppm	18.0979 ppm	0.0061 ppm	-0.0012 ppm	0.0019 ppm	0.0005 ppm
Concentration per Run 2	0.0317 ppm	0.0007 ppm	16.6095 ppm	0.0062 ppm	-0.0014 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	0.0316 ppm	0.0006 ppm	16.5213 ppm	0.0060 ppm	-0.0015 ppm	0.0002 ppm	0.0009 ppm
Concentration RSD	5.5 %	11.9 %	5.2 %	1.7 %	8.1 %	147.7 %	333.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.2788 ppm	-0.0002 ppm	0.1018 ppm	0.0019 ppm	-0.0001 ppm	0.0004 ppm	0.0096 ppm
Concentration per Run 1	8.3144 ppm	-0.0003 ppm	0.1081 ppm	0.0018 ppm	0.0010 ppm	0.0004 ppm	0.0097 ppm
Concentration per Run 2	8.2553 ppm	-0.0002 ppm	0.0987 ppm	0.0018 ppm	-0.0007 ppm	0.0003 ppm	0.0096 ppm
Concentration per Run 3	8.2667 ppm	-0.0001 ppm	0.0984 ppm	0.0020 ppm	-0.0006 ppm	0.0003 ppm	0.0095 ppm
Concentration RSD	0.4 %	62.3 %	5.4 %	7.5 %	868.2 %	21.5 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.9172 %	105.1966 %	105.4317 %	100.8311 %	98.4165 %	103.2496 %	-0.0010 ppm
Concentration per Run 1	97.3803 %	105.1313 %	105.4690 %	91.8708 %	98.1137 %	102.7045 %	-0.0026 ppm
Concentration per Run 2	105.4527 %	105.2285 %	105.4982 %	102.5626 %	98.5243 %	103.3001 %	-0.0005 ppm
Concentration per Run 3	105.9186 %	105.2299 %	105.3279 %	108.0600 %	98.6116 %	103.7441 %	0.0001 ppm
Concentration RSD	4.7 %	0.1 %	0.1 %	8.2 %	0.3 %	0.5 %	143.6 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 10:25:52 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4773 ppm	0.4879 ppm	0.4422 ppm	0.4445 ppm	0.4888 ppm	0.4884 ppm	0.4982 ppm
Concentration per Run 1	0.4778 ppm	0.5221 ppm	0.4423 ppm	0.4449 ppm	0.5205 ppm	0.5210 ppm	0.5302 ppm
Concentration per Run 2	0.4756 ppm	0.4682 ppm	0.4433 ppm	0.4439 ppm	0.4743 ppm	0.4735 ppm	0.4825 ppm
Concentration per Run 3	0.4785 ppm	0.4734 ppm	0.4409 ppm	0.4446 ppm	0.4716 ppm	0.4706 ppm	0.4819 ppm
Recovery Percentage 1	95.457 %	97.582 %	88.439 %	88.896 %	97.757 %	97.671 %	99.639 %
Concentration RSD	0.3 %	6.1 %	0.3 %	0.1 %	5.6 %	5.8 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4690 ppm	0.4593 ppm	0.4590 ppm	0.4603 ppm	0.4912 ppm	4.9499 ppm	0.4829 ppm
Concentration per Run 1	0.4684 ppm	0.4587 ppm	0.4583 ppm	0.4626 ppm	0.5236 ppm	5.2289 ppm	0.4825 ppm
Concentration per Run 2	0.4693 ppm	0.4591 ppm	0.4589 ppm	0.4585 ppm	0.4777 ppm	4.8120 ppm	0.4836 ppm
Concentration per Run 3	0.4693 ppm	0.4600 ppm	0.4596 ppm	0.4597 ppm	0.4725 ppm	4.8087 ppm	0.4825 ppm
Recovery Percentage 1	93.801 %	91.854 %	91.791 %	92.051 %	98.248 %	98.997 %	96.578 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.5 %	5.7 %	4.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4924 ppm	0.4702 ppm	9.8829 ppm	0.4778 ppm	0.4939 ppm	0.4825 ppm	0.4790 ppm
Concentration per Run 1	0.5255 ppm	0.4679 ppm	10.4929 ppm	0.4767 ppm	0.4937 ppm	0.4812 ppm	0.4781 ppm
Concentration per Run 2	0.4786 ppm	0.4706 ppm	9.6062 ppm	0.4781 ppm	0.4940 ppm	0.4823 ppm	0.4787 ppm
Concentration per Run 3	0.4730 ppm	0.4721 ppm	9.5496 ppm	0.4785 ppm	0.4939 ppm	0.4840 ppm	0.4801 ppm
Recovery Percentage 1	98.472 %	94.038 %	98.829 %	95.553 %	98.776 %	96.503 %	95.795 %
Concentration RSD	5.9 %	0.4 %	5.4 %	0.2 %	0.0 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3918 ppm	0.4836 ppm	0.4819 ppm	0.4540 ppm	0.4874 ppm	0.4697 ppm	0.4582 ppm
Concentration per Run 1	5.3862 ppm	0.4839 ppm	0.5137 ppm	0.4545 ppm	0.4872 ppm	0.4693 ppm	0.4575 ppm
Concentration per Run 2	5.3883 ppm	0.4832 ppm	0.4674 ppm	0.4530 ppm	0.4858 ppm	0.4696 ppm	0.4583 ppm
Concentration per Run 3	5.4008 ppm	0.4838 ppm	0.4647 ppm	0.4545 ppm	0.4893 ppm	0.4700 ppm	0.4590 ppm
Recovery Percentage 1	102.700 %	96.725 %	96.386 %	90.800 %	97.488 %	93.931 %	91.650 %
Concentration RSD	0.1 %	0.1 %	5.7 %	0.2 %	0.4 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3041 %	104.8145 %	106.3363 %	114.4181 %	100.5769 %	106.1832 %	0.5012 ppm
Concentration per Run 1	94.7325 %	105.0986 %	106.2450 %	107.6621 %	100.7063 %	106.2966 %	0.5322 ppm
Concentration per Run 2	102.3258 %	104.7776 %	106.5338 %	115.4398 %	100.6861 %	106.1781 %	0.4861 ppm
Concentration per Run 3	103.8540 %	104.5674 %	106.2300 %	120.1524 %	100.3383 %	106.0748 %	0.4852 ppm
Recovery Percentage 1							100.235 %
Concentration RSD	4.9 %	0.3 %	0.2 %	5.5 %	0.2 %	0.1 %	5.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 10:32:10 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0014 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0038 ppm
Concentration per Run 1	-0.0003 ppm	-0.0010 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0053 ppm
Concentration per Run 2	-0.0001 ppm	-0.0035 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0049 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0013 ppm
Recovery Percentage 1	-1.250 %	0.000 %	13.514 %	1.460 %	0.384 %	0.609 %	-0.001 %
Concentration RSD	191.1 %	132.9 %	10.4 %	14.7 %	184.6 %	85.9 %	57.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0282 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm	0.0290 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0226 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0331 ppm	0.0011 ppm
Recovery Percentage 1	0.123 %	0.367 %	-0.512 %	0.854 %	0.001 %	1.130 %	0.000 %
Concentration RSD	81.2 %	91.0 %	242.1 %	113.8 %	61.1 %	18.9 %	36,128.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0493 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0522 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0469 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0490 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	0.480 %	0.722 %	2.467 %	1.378 %	2.059 %	0.920 %	-1.544 %
Concentration RSD	423.7 %	40.1 %	5.4 %	31.6 %	79.3 %	74.5 %	472.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0013 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0012 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	-0.0013 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0013 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-0.253 %	1.445 %	-0.269 %	1.974 %	2.889 %	-0.734 %	5.389 %
Concentration RSD	5.7 %	7.3 %	203.1 %	99.6 %	67.3 %	161.7 %	11.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1167 %	106.8848 %	107.5249 %	104.7260 %	103.9612 %	105.2993 %	0.0011 ppm
Concentration per Run 1	96.3959 %	106.8459 %	107.6454 %	96.8708 %	103.5421 %	104.8082 %	0.0020 ppm
Concentration per Run 2	103.1682 %	106.8137 %	107.3341 %	106.1212 %	103.8804 %	105.3938 %	0.0008 ppm
Concentration per Run 3	103.7859 %	106.9948 %	107.5951 %	111.1861 %	104.4610 %	105.6958 %	0.0004 ppm
Recovery Percentage 1							11.012 %
Concentration RSD	4.1 %	0.1 %	0.2 %	6.9 %	0.4 %	0.4 %	73.8 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 10:38:53 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4756 ppm	0.4868 ppm	0.4426 ppm	0.4443 ppm	0.4872 ppm	0.4890 ppm	0.5010 ppm
Concentration per Run 1	0.4745 ppm	0.5207 ppm	0.4427 ppm	0.4443 ppm	0.5186 ppm	0.5208 ppm	0.5311 ppm
Concentration per Run 2	0.4769 ppm	0.4693 ppm	0.4427 ppm	0.4457 ppm	0.4725 ppm	0.4744 ppm	0.4864 ppm
Concentration per Run 3	0.4754 ppm	0.4703 ppm	0.4426 ppm	0.4430 ppm	0.4705 ppm	0.4718 ppm	0.4855 ppm
Recovery Percentage 1	95.117 %	97.357 %	88.530 %	88.867 %	97.441 %	97.803 %	100.199 %
Concentration RSD	0.3 %	6.0 %	0.0 %	0.3 %	5.6 %	5.6 %	5.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4672 ppm	0.4583 ppm	0.4613 ppm	0.4592 ppm	0.4926 ppm	4.9205 ppm	0.4854 ppm
Concentration per Run 1	0.4676 ppm	0.4589 ppm	0.4628 ppm	0.4587 ppm	0.5236 ppm	5.1911 ppm	0.4884 ppm
Concentration per Run 2	0.4669 ppm	0.4581 ppm	0.4599 ppm	0.4597 ppm	0.4784 ppm	4.7968 ppm	0.4852 ppm
Concentration per Run 3	0.4671 ppm	0.4580 ppm	0.4612 ppm	0.4593 ppm	0.4759 ppm	4.7736 ppm	0.4826 ppm
Recovery Percentage 1	93.444 %	91.664 %	92.260 %	91.848 %	98.525 %	98.410 %	97.080 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	5.4 %	4.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4930 ppm	0.4678 ppm	10.0230 ppm	0.4762 ppm	0.4916 ppm	0.4796 ppm	0.4750 ppm
Concentration per Run 1	0.5238 ppm	0.4668 ppm	10.6297 ppm	0.4767 ppm	0.4919 ppm	0.4790 ppm	0.4755 ppm
Concentration per Run 2	0.4784 ppm	0.4685 ppm	9.7280 ppm	0.4759 ppm	0.4915 ppm	0.4813 ppm	0.4748 ppm
Concentration per Run 3	0.4767 ppm	0.4681 ppm	9.7112 ppm	0.4759 ppm	0.4914 ppm	0.4784 ppm	0.4747 ppm
Recovery Percentage 1	98.593 %	93.553 %	100.230 %	95.237 %	98.313 %	95.915 %	95.002 %
Concentration RSD	5.4 %	0.2 %	5.2 %	0.1 %	0.1 %	0.3 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9660 ppm	0.4811 ppm	0.4730 ppm	0.4540 ppm	0.4866 ppm	0.4693 ppm	0.4577 ppm
Concentration per Run 1	4.9688 ppm	0.4810 ppm	0.5036 ppm	0.4545 ppm	0.4857 ppm	0.4695 ppm	0.4577 ppm
Concentration per Run 2	4.9750 ppm	0.4815 ppm	0.4588 ppm	0.4528 ppm	0.4892 ppm	0.4693 ppm	0.4573 ppm
Concentration per Run 3	4.9543 ppm	0.4808 ppm	0.4565 ppm	0.4546 ppm	0.4848 ppm	0.4690 ppm	0.4581 ppm
Recovery Percentage 1	94.591 %	96.216 %	94.592 %	90.795 %	97.313 %	93.856 %	91.547 %
Concentration RSD	0.2 %	0.1 %	5.6 %	0.2 %	0.5 %	0.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9462 %	104.6696 %	105.9434 %	114.3090 %	100.7859 %	106.0536 %	0.4822 ppm
Concentration per Run 1	94.5926 %	104.4402 %	105.8297 %	107.7827 %	100.7354 %	105.8632 %	0.5118 ppm
Concentration per Run 2	102.5509 %	104.8265 %	105.8933 %	116.1069 %	100.7265 %	106.1585 %	0.4672 ppm
Concentration per Run 3	102.6952 %	104.7422 %	106.1073 %	119.0375 %	100.8958 %	106.1391 %	0.4676 ppm
Recovery Percentage 1							96.436 %
Concentration RSD	4.6 %	0.2 %	0.1 %	5.1 %	0.1 %	0.2 %	5.3 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 10:45:11 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0045 ppm
Concentration per Run 1	-0.0002 ppm	-0.0027 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0047 ppm
Concentration per Run 2	0.0000 ppm	0.0033 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0040 ppm
Concentration per Run 3	-0.0001 ppm	-0.0030 ppm	-0.0003 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0047 ppm
Recovery Percentage 1	-0.929 %	0.000 %	1.836 %	1.036 %	-0.173 %	0.563 %	-0.001 %
Concentration RSD	145.0 %	435.3 %	328.7 %	43.8 %	700.6 %	88.2 %	8.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0129 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0175 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0040 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0018 ppm	0.0172 ppm	0.0021 ppm
Recovery Percentage 1	0.061 %	0.081 %	0.881 %	1.964 %	0.001 %	0.515 %	0.000 %
Concentration RSD	287.8 %	225.2 %	154.5 %	13.5 %	6.4 %	60.0 %	400.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0420 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0441 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0413 ppm	0.0003 ppm	0.0003 ppm	-0.0002 ppm	-0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0407 ppm	0.0003 ppm	0.0003 ppm	-0.0003 ppm	-0.0015 ppm
Recovery Percentage 1	-0.254 %	0.719 %	2.102 %	0.928 %	0.758 %	-0.062 %	-11.134 %
Concentration RSD	250.6 %	16.8 %	4.3 %	25.4 %	450.0 %	1,059.3 %	156.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0013 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0009 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0015 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	-0.253 %	1.196 %	-0.007 %	1.687 %	2.728 %	-1.132 %	4.847 %
Concentration RSD	24.4 %	72.8 %	5,019.0 %	114.0 %	98.6 %	83.5 %	32.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6122 %	106.8323 %	107.7002 %	102.7241 %	104.0863 %	105.2517 %	0.0001 ppm
Concentration per Run 1	94.9904 %	106.9879 %	107.6253 %	93.8547 %	103.8737 %	105.0682 %	0.0008 ppm
Concentration per Run 2	103.3703 %	106.7589 %	107.7082 %	104.6912 %	104.1332 %	105.2031 %	-0.0010 ppm
Concentration per Run 3	103.4758 %	106.7503 %	107.7671 %	109.6263 %	104.2520 %	105.4838 %	0.0004 ppm
Recovery Percentage 1							0.761 %
Concentration RSD	4.8 %	0.1 %	0.1 %	7.9 %	0.2 %	0.2 %	1,212.2 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935316-2 WG1935316
Analysis started at: 6/17/2024 10:59:26 PM
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0487 ppm	1.9787 ppm	0.1081 ppm	0.8534 ppm	1.9585 ppm	0.0484 ppm	10.2183 ppm
Concentration per Run 1	0.0485 ppm	2.1084 ppm	0.1081 ppm	0.8488 ppm	2.0863 ppm	0.0516 ppm	10.8689 ppm
Concentration per Run 2	0.0488 ppm	1.9252 ppm	0.1077 ppm	0.8551 ppm	1.9028 ppm	0.0470 ppm	9.9376 ppm
Concentration per Run 3	0.0487 ppm	1.9025 ppm	0.1084 ppm	0.8564 ppm	1.8865 ppm	0.0467 ppm	9.8482 ppm
Concentration RSD	0.3 %	5.7 %	0.3 %	0.5 %	5.7 %	5.7 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0506 ppm	0.4407 ppm	0.1763 ppm	0.2287 ppm	0.9751 ppm	9.7965 ppm	9.2811 ppm
Concentration per Run 1	0.0504 ppm	0.4384 ppm	0.1757 ppm	0.2282 ppm	1.0351 ppm	10.3928 ppm	9.2341 ppm
Concentration per Run 2	0.0506 ppm	0.4416 ppm	0.1766 ppm	0.2288 ppm	0.9470 ppm	9.5331 ppm	9.3171 ppm
Concentration per Run 3	0.0507 ppm	0.4422 ppm	0.1767 ppm	0.2291 ppm	0.9431 ppm	9.4635 ppm	9.2921 ppm
Concentration RSD	0.3 %	0.5 %	0.3 %	0.2 %	5.3 %	5.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5037 ppm	0.9151 ppm	10.3516 ppm	0.4662 ppm	0.5280 ppm	0.4825 ppm	0.1175 ppm
Concentration per Run 1	0.5361 ppm	0.9028 ppm	11.0216 ppm	0.4638 ppm	0.5259 ppm	0.4785 ppm	0.1172 ppm
Concentration per Run 2	0.4894 ppm	0.9177 ppm	10.0551 ppm	0.4672 ppm	0.5275 ppm	0.4834 ppm	0.1161 ppm
Concentration per Run 3	0.4855 ppm	0.9248 ppm	9.9781 ppm	0.4675 ppm	0.5304 ppm	0.4856 ppm	0.1193 ppm
Concentration RSD	5.6 %	1.2 %	5.6 %	0.4 %	0.4 %	0.8 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9882 ppm	0.9188 ppm	0.9257 ppm	0.8598 ppm	0.1169 ppm	0.4518 ppm	0.4463 ppm
Concentration per Run 1	0.9838 ppm	0.9156 ppm	0.9867 ppm	0.8574 ppm	0.1164 ppm	0.4495 ppm	0.4442 ppm
Concentration per Run 2	0.9883 ppm	0.9179 ppm	0.8991 ppm	0.8610 ppm	0.1178 ppm	0.4530 ppm	0.4474 ppm
Concentration per Run 3	0.9925 ppm	0.9228 ppm	0.8914 ppm	0.8611 ppm	0.1166 ppm	0.4527 ppm	0.4472 ppm
Concentration RSD	0.4 %	0.4 %	5.7 %	0.2 %	0.6 %	0.4 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.3998 %	104.0026 %	105.5451 %	135.0750 %	99.5407 %	108.3220 %	-0.0012 ppm
Concentration per Run 1	92.7360 %	104.1824 %	105.5661 %	134.1214 %	100.1415 %	108.8189 %	-0.0010 ppm
Concentration per Run 2	100.9756 %	103.9286 %	105.5122 %	136.2690 %	99.3884 %	108.2604 %	-0.0014 ppm
Concentration per Run 3	101.4878 %	103.8970 %	105.5571 %	134.8346 %	99.0922 %	107.8866 %	-0.0013 ppm
Concentration RSD	5.0 %	0.2 %	0.0 %	0.8 %	0.5 %	0.4 %	20.3 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1935316-3 WG1935316
Analysis started at: 6/17/2024 11:05:46 PM
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0492 ppm	1.9421 ppm	0.1072 ppm	0.8621 ppm	1.9169 ppm	0.0476 ppm	10.0349 ppm
Concentration per Run 1	0.0493 ppm	2.0721 ppm	0.1078 ppm	0.8627 ppm	2.0362 ppm	0.0505 ppm	10.7125 ppm
Concentration per Run 2	0.0490 ppm	1.8882 ppm	0.1076 ppm	0.8627 ppm	1.8594 ppm	0.0462 ppm	9.7479 ppm
Concentration per Run 3	0.0493 ppm	1.8659 ppm	0.1063 ppm	0.8608 ppm	1.8551 ppm	0.0460 ppm	9.6443 ppm
Concentration RSD	0.3 %	5.8 %	0.8 %	0.1 %	5.4 %	5.4 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0510 ppm	0.4452 ppm	0.1816 ppm	0.2371 ppm	0.9537 ppm	9.5840 ppm	9.5530 ppm
Concentration per Run 1	0.0512 ppm	0.4462 ppm	0.1828 ppm	0.2381 ppm	1.0116 ppm	10.1837 ppm	9.6138 ppm
Concentration per Run 2	0.0510 ppm	0.4456 ppm	0.1808 ppm	0.2365 ppm	0.9290 ppm	9.3199 ppm	9.5258 ppm
Concentration per Run 3	0.0509 ppm	0.4439 ppm	0.1812 ppm	0.2368 ppm	0.9206 ppm	9.2484 ppm	9.5194 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %	0.4 %	5.3 %	5.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4959 ppm	0.9261 ppm	10.1171 ppm	0.4701 ppm	0.5314 ppm	0.4888 ppm	0.1172 ppm
Concentration per Run 1	0.5279 ppm	0.9224 ppm	10.7388 ppm	0.4712 ppm	0.5335 ppm	0.4885 ppm	0.1193 ppm
Concentration per Run 2	0.4830 ppm	0.9263 ppm	9.8241 ppm	0.4702 ppm	0.5313 ppm	0.4891 ppm	0.1143 ppm
Concentration per Run 3	0.4769 ppm	0.9297 ppm	9.7884 ppm	0.4689 ppm	0.5294 ppm	0.4889 ppm	0.1179 ppm
Concentration RSD	5.6 %	0.4 %	5.3 %	0.2 %	0.4 %	0.1 %	2.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9938 ppm	0.9271 ppm	0.9042 ppm	0.8895 ppm	0.1184 ppm	0.4679 ppm	0.4494 ppm
Concentration per Run 1	0.9952 ppm	0.9296 ppm	0.9605 ppm	0.8930 ppm	0.1193 ppm	0.4706 ppm	0.4507 ppm
Concentration per Run 2	0.9949 ppm	0.9268 ppm	0.8771 ppm	0.8872 ppm	0.1180 ppm	0.4668 ppm	0.4491 ppm
Concentration per Run 3	0.9913 ppm	0.9248 ppm	0.8749 ppm	0.8884 ppm	0.1180 ppm	0.4663 ppm	0.4484 ppm
Concentration RSD	0.2 %	0.3 %	5.4 %	0.3 %	0.7 %	0.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1520 %	105.0727 %	105.8932 %	105.2796 %	98.2941 %	104.7066 %	-0.0015 ppm
Concentration per Run 1	94.0345 %	105.0981 %	106.1183 %	96.5822 %	98.2573 %	104.4346 %	-0.0015 ppm
Concentration per Run 2	102.5174 %	105.1308 %	105.7263 %	106.3929 %	98.1509 %	104.7312 %	-0.0014 ppm
Concentration per Run 3	103.9040 %	104.9892 %	105.8349 %	112.8639 %	98.4741 %	104.9540 %	-0.0015 ppm
Concentration RSD	5.3 %	0.1 %	0.2 %	7.8 %	0.2 %	0.2 %	6.0 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/17/2024 11:12:08 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4838 ppm	0.4900 ppm	0.4373 ppm	0.4443 ppm	0.4902 ppm	0.4892 ppm	0.5068 ppm
Concentration per Run 1	0.4852 ppm	0.5217 ppm	0.4377 ppm	0.4462 ppm	0.5242 ppm	0.5243 ppm	0.5460 ppm
Concentration per Run 2	0.4832 ppm	0.4766 ppm	0.4388 ppm	0.4442 ppm	0.4746 ppm	0.4731 ppm	0.4888 ppm
Concentration per Run 3	0.4831 ppm	0.4718 ppm	0.4354 ppm	0.4425 ppm	0.4718 ppm	0.4702 ppm	0.4856 ppm
Recovery Percentage 1	96.768 %	98.007 %	87.456 %	88.864 %	98.041 %	97.836 %	101.363 %
Concentration RSD	0.2 %	5.6 %	0.4 %	0.4 %	6.0 %	6.2 %	6.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4696 ppm	0.4575 ppm	0.4538 ppm	0.4588 ppm	0.4918 ppm	4.9093 ppm	0.4791 ppm
Concentration per Run 1	0.4707 ppm	0.4591 ppm	0.4552 ppm	0.4587 ppm	0.5270 ppm	5.2276 ppm	0.4813 ppm
Concentration per Run 2	0.4692 ppm	0.4569 ppm	0.4539 ppm	0.4599 ppm	0.4748 ppm	4.7563 ppm	0.4797 ppm
Concentration per Run 3	0.4690 ppm	0.4567 ppm	0.4524 ppm	0.4577 ppm	0.4736 ppm	4.7440 ppm	0.4764 ppm
Recovery Percentage 1	93.928 %	91.507 %	90.764 %	91.753 %	98.359 %	98.186 %	95.825 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.2 %	6.2 %	5.6 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4982 ppm	0.4744 ppm	10.0984 ppm	0.4793 ppm	0.4978 ppm	0.4889 ppm	0.4822 ppm
Concentration per Run 1	0.5340 ppm	0.4755 ppm	10.7852 ppm	0.4804 ppm	0.4988 ppm	0.4906 ppm	0.4837 ppm
Concentration per Run 2	0.4822 ppm	0.4735 ppm	9.7853 ppm	0.4788 ppm	0.4968 ppm	0.4883 ppm	0.4817 ppm
Concentration per Run 3	0.4783 ppm	0.4741 ppm	9.7246 ppm	0.4788 ppm	0.4977 ppm	0.4879 ppm	0.4812 ppm
Recovery Percentage 1	99.634 %	94.873 %	100.984 %	95.870 %	99.558 %	97.783 %	96.440 %
Concentration RSD	6.2 %	0.2 %	5.9 %	0.2 %	0.2 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0449 ppm	0.4832 ppm	0.4738 ppm	0.4460 ppm	0.4889 ppm	0.4675 ppm	0.4556 ppm
Concentration per Run 1	5.0659 ppm	0.4846 ppm	0.5068 ppm	0.4472 ppm	0.4902 ppm	0.4685 ppm	0.4562 ppm
Concentration per Run 2	5.0319 ppm	0.4828 ppm	0.4584 ppm	0.4466 ppm	0.4878 ppm	0.4676 ppm	0.4558 ppm
Concentration per Run 3	5.0367 ppm	0.4822 ppm	0.4561 ppm	0.4444 ppm	0.4886 ppm	0.4663 ppm	0.4547 ppm
Recovery Percentage 1	96.093 %	96.643 %	94.752 %	89.206 %	97.774 %	93.498 %	91.112 %
Concentration RSD	0.4 %	0.3 %	6.1 %	0.3 %	0.2 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3685 %	105.7315 %	106.8374 %	114.2300 %	100.1251 %	106.7063 %	0.4911 ppm
Concentration per Run 1	93.7557 %	105.4657 %	106.7634 %	107.5658 %	99.7793 %	106.4456 %	0.5220 ppm
Concentration per Run 2	101.7710 %	105.7545 %	106.7145 %	115.4842 %	100.3188 %	106.6459 %	0.4776 ppm
Concentration per Run 3	102.5789 %	105.9742 %	107.0345 %	119.6401 %	100.2771 %	107.0273 %	0.4735 ppm
Recovery Percentage 1							98.211 %
Concentration RSD	4.9 %	0.2 %	0.2 %	5.4 %	0.3 %	0.3 %	5.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/17/2024 11:18:27 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0015 ppm	0.0012 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 1	0.0000 ppm	0.0017 ppm	0.0018 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	-0.0003 ppm	0.0070 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0062 ppm
Concentration per Run 3	-0.0002 ppm	-0.0043 ppm	0.0014 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0026 ppm
Recovery Percentage 1	-2.364 %	0.000 %	23.390 %	2.666 %	0.682 %	0.421 %	-0.001 %
Concentration RSD	78.6 %	387.6 %	68.9 %	21.6 %	79.0 %	58.7 %	129.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0219 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0014 ppm	0.0222 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0015 ppm	0.0142 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm	0.0293 ppm	-0.0009 ppm
Recovery Percentage 1	0.225 %	0.041 %	-1.145 %	0.848 %	0.001 %	0.875 %	0.000 %
Concentration RSD	194.2 %	1,122.2 %	122.1 %	120.6 %	9.1 %	34.6 %	217.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0372 ppm	0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0382 ppm	0.0003 ppm	0.0006 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0383 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0350 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	0.0006 ppm
Recovery Percentage 1	0.766 %	1.331 %	1.859 %	1.033 %	1.675 %	0.742 %	1.388 %
Concentration RSD	119.9 %	25.7 %	5.1 %	17.2 %	224.2 %	208.5 %	400.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0013 ppm	0.0012 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0014 ppm	0.0012 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	-0.0017 ppm	0.0011 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0008 ppm	0.0012 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-0.260 %	2.367 %	-0.390 %	2.848 %	3.852 %	-0.769 %	5.484 %
Concentration RSD	35.3 %	3.7 %	29.4 %	34.3 %	51.9 %	103.5 %	7.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5476 %	107.8444 %	108.5618 %	105.2044 %	103.9557 %	105.7936 %	0.0014 ppm
Concentration per Run 1	97.4116 %	107.7751 %	108.6794 %	97.6359 %	103.8471 %	105.4717 %	0.0023 ppm
Concentration per Run 2	103.3101 %	108.0068 %	108.5372 %	106.5570 %	103.9560 %	105.9230 %	0.0010 ppm
Concentration per Run 3	103.9210 %	107.7512 %	108.4687 %	111.4202 %	104.0640 %	105.9861 %	0.0011 ppm
Recovery Percentage 1							14.499 %
Concentration RSD	3.5 %	0.1 %	0.1 %	6.6 %	0.1 %	0.3 %	50.2 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1934555-1 WG1934555
Analysis started at: 6/17/2024 11:26:20 PM
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0001 ppm	-0.0031 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0038 ppm
Concentration per Run 2	-0.0001 ppm	0.0025 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0035 ppm
Concentration per Run 3	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration RSD	161.7 %	1,123.2 %	124.6 %	2.8 %	319.2 %	47.1 %	623.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0025 ppm	-0.0024 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0023 ppm	0.0030 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0026 ppm	-0.0084 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0025 ppm	-0.0017 ppm	0.0000 ppm
Concentration RSD	121.3 %	309.6 %	39.5 %	19.5 %	4.8 %	241.7 %	235.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0263 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0268 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0247 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0272 ppm	0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0006 ppm
Concentration RSD	148.3 %	11.8 %	5.0 %	39.7 %	8,421.3 %	455.7 %	939.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0043 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.0043 ppm	-0.0007 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 2	0.0044 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 3	0.0044 ppm	-0.0007 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0009 ppm
Concentration RSD	1.3 %	1.6 %	113.7 %	35.5 %	106.9 %	155.5 %	4.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.7041 %	109.6497 %	109.6320 %	128.2090 %	105.8114 %	110.0728 %	-0.0004 ppm
Concentration per Run 1	97.8349 %	109.0904 %	109.7971 %	125.8115 %	106.4287 %	109.6508 %	-0.0021 ppm
Concentration per Run 2	104.9227 %	109.5872 %	109.6001 %	129.3432 %	105.5576 %	109.8997 %	0.0006 ppm
Concentration per Run 3	105.3547 %	110.2715 %	109.4988 %	129.4723 %	105.4479 %	110.6679 %	0.0003 ppm
Concentration RSD	4.1 %	0.5 %	0.1 %	1.6 %	0.5 %	0.5 %	349.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: XWG1934555-2 WG1934555
Analysis started at: 6/17/2024 11:36:02 PM
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0500 ppm	12,534.1636 ppm	0.1097 ppm	0.8771 ppm	12,193.8013 ppm	303.8008 ppm	66,125.0612 ppm
Concentration per Run 1	0.0502 ppm	132.1899 ppm	0.1105 ppm	0.8747 ppm	129.1666 ppm	3.1990 ppm	693.9259 ppm
Concentration per Run 2	0.0498 ppm	37,467.7948 ppm	0.1078 ppm	0.8771 ppm	36,449.7743 ppm	908.1428 ppm	197,668.3181 ppm
Concentration per Run 3	0.0499 ppm	2.5062 ppm	0.1107 ppm	0.8794 ppm	2.4630 ppm	0.0608 ppm	12.9395 ppm
Concentration RSD	0.4 %	172.3 %	1.5 %	0.3 %	172.3 %	172.3 %	172.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0521 ppm	0.4513 ppm	0.1823 ppm	0.2373 ppm	6,152.8199 ppm	62,085.5966 ppm	9.6727 ppm
Concentration per Run 1	0.0521 ppm	0.4503 ppm	0.1824 ppm	0.2381 ppm	64.6933 ppm	654.3164 ppm	9.6946 ppm
Concentration per Run 2	0.0521 ppm	0.4514 ppm	0.1820 ppm	0.2370 ppm	18,392.5315 ppm	185,590.2314 ppm	9.6520 ppm
Concentration per Run 3	0.0522 ppm	0.4522 ppm	0.1824 ppm	0.2370 ppm	1.2350 ppm	12.2420 ppm	9.6715 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %	172.3 %	172.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3,196.2283 ppm	0.9490 ppm	65,090.2515 ppm	0.4799 ppm	0.5383 ppm	0.4960 ppm	0.1203 ppm
Concentration per Run 1	33.7241 ppm	0.9421 ppm	687.2755 ppm	0.4785 ppm	0.5372 ppm	0.4947 ppm	0.1212 ppm
Concentration per Run 2	9,554.3255 ppm	0.9492 ppm	194,570.4187 ppm	0.4801 ppm	0.5381 ppm	0.4971 ppm	0.1203 ppm
Concentration per Run 3	0.6352 ppm	0.9556 ppm	13.0603 ppm	0.4811 ppm	0.5394 ppm	0.4961 ppm	0.1195 ppm
Concentration RSD	172.3 %	0.7 %	172.3 %	0.3 %	0.2 %	0.2 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0962 ppm	0.9523 ppm	5,772.6166 ppm	0.8878 ppm	0.1196 ppm	0.4666 ppm	0.4592 ppm
Concentration per Run 1	1.0966 ppm	0.9499 ppm	61.0941 ppm	0.8903 ppm	0.1199 ppm	0.4673 ppm	0.4576 ppm
Concentration per Run 2	1.0971 ppm	0.9518 ppm	17,255.5899 ppm	0.8859 ppm	0.1190 ppm	0.4651 ppm	0.4596 ppm
Concentration per Run 3	1.0949 ppm	0.9552 ppm	1.1657 ppm	0.8871 ppm	0.1201 ppm	0.4673 ppm	0.4603 ppm
Concentration RSD	0.1 %	0.3 %	172.3 %	0.3 %	0.5 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	27.7819 %	104.8576 %	106.3465 %	33.8404 %	99.1314 %	106.9908 %	-23.5420 ppm
Concentration per Run 1	1.6101 %	105.0923 %	106.3605 %	38.3685 %	99.0653 %	107.1734 %	-0.2110 ppm
Concentration per Run 2	0.0056 %	104.9009 %	106.4429 %	29.3124 %	99.3220 %	107.0402 %	-70.4125 ppm
Concentration per Run 3	81.7299 %	104.5797 %	106.2360 %	0.0000 %	99.0070 %	106.7589 %	-0.0026 ppm
Concentration RSD	168.2 %	0.2 %	0.1 %	18.9 %	0.2 %	0.2 %	172.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2432633-02 WG1934555
Analysis started at: 6/17/2024 11:42:21 PM
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0193 ppm	-0.0002 ppm	0.0077 ppm	0.0246 ppm	0.0000 ppm	15.5160 ppm
Concentration per Run 1	-0.0004 ppm	0.0194 ppm	-0.0002 ppm	0.0076 ppm	0.0254 ppm	0.0000 ppm	16.0323 ppm
Concentration per Run 2	-0.0004 ppm	0.0184 ppm	-0.0004 ppm	0.0077 ppm	0.0243 ppm	0.0000 ppm	15.3005 ppm
Concentration per Run 3	0.0000 ppm	0.0200 ppm	0.0000 ppm	0.0078 ppm	0.0242 ppm	0.0000 ppm	15.2153 ppm
Concentration RSD	90.6 %	4.0 %	112.8 %	1.5 %	2.7 %	1,212.2 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0005 ppm	2.9604 ppm	0.8211 ppm	5.3405 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0004 ppm	3.0431 ppm	0.8627 ppm	5.3581 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0007 ppm	2.9228 ppm	0.8093 ppm	5.3255 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	2.9153 ppm	0.7913 ppm	5.3380 ppm
Concentration RSD	56.1 %	26.7 %	58.7 %	34.3 %	2.4 %	4.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0473 ppm	0.0013 ppm	7.3560 ppm	0.0002 ppm	-0.0015 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 1	0.0488 ppm	0.0015 ppm	7.5846 ppm	0.0001 ppm	-0.0016 ppm	0.0013 ppm	-0.0005 ppm
Concentration per Run 2	0.0467 ppm	0.0013 ppm	7.2774 ppm	0.0002 ppm	-0.0015 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0465 ppm	0.0012 ppm	7.2060 ppm	0.0002 ppm	-0.0014 ppm	0.0011 ppm	0.0001 ppm
Concentration RSD	2.6 %	8.3 %	2.7 %	37.7 %	5.6 %	41.5 %	268.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.0746 ppm	0.0000 ppm	0.0748 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 1	9.0977 ppm	-0.0001 ppm	0.0771 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 2	9.0642 ppm	-0.0001 ppm	0.0738 ppm	0.0010 ppm	0.0005 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 3	9.0619 ppm	0.0001 ppm	0.0735 ppm	0.0012 ppm	0.0004 ppm	0.0002 ppm	0.0023 ppm
Concentration RSD	0.2 %	198.0 %	2.7 %	5.0 %	85.4 %	23.4 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.3817 %	106.8800 %	107.6317 %	111.8791 %	100.7709 %	106.2665 %	0.0003 ppm
Concentration per Run 1	99.5518 %	106.8712 %	107.7705 %	105.9433 %	100.5922 %	105.8854 %	0.0014 ppm
Concentration per Run 2	103.6520 %	107.1851 %	107.6130 %	113.4096 %	100.8406 %	106.6107 %	-0.0003 ppm
Concentration per Run 3	103.9412 %	106.5836 %	107.5118 %	116.2844 %	100.8799 %	106.3033 %	-0.0003 ppm
Concentration RSD	2.4 %	0.3 %	0.1 %	4.8 %	0.2 %	0.3 %	391.4 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2432633-03 WG1934555
Analysis started at: 6/17/2024 11:48:57 PM
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0097 ppm	0.0004 ppm	0.0152 ppm	0.0722 ppm	0.0000 ppm	82.6551 ppm
Concentration per Run 1	-0.0004 ppm	0.0071 ppm	0.0003 ppm	0.0151 ppm	0.0741 ppm	0.0000 ppm	85.0453 ppm
Concentration per Run 2	0.0001 ppm	0.0117 ppm	-0.0001 ppm	0.0152 ppm	0.0713 ppm	-0.0001 ppm	81.5579 ppm
Concentration per Run 3	-0.0005 ppm	0.0103 ppm	0.0011 ppm	0.0153 ppm	0.0712 ppm	0.0000 ppm	81.3620 ppm
Concentration RSD	117.7 %	24.3 %	133.8 %	0.6 %	2.3 %	134.9 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0019 ppm	0.0282 ppm	2.2479 ppm	11.0946 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0019 ppm	0.0290 ppm	2.3000 ppm	11.1266 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0020 ppm	0.0279 ppm	2.2364 ppm	11.0922 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0019 ppm	0.0276 ppm	2.2072 ppm	11.0649 ppm
Concentration RSD	10.2 %	8.8 %	27.3 %	1.8 %	2.5 %	2.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0005 ppm	2.6409 ppm	0.0006 ppm	-0.0004 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	0.0004 ppm	0.0006 ppm	2.6993 ppm	0.0003 ppm	-0.0007 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 2	0.0006 ppm	0.0005 ppm	2.6150 ppm	0.0007 ppm	-0.0003 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 3	0.0005 ppm	0.0005 ppm	2.6084 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0013 ppm
Concentration RSD	22.6 %	8.6 %	1.9 %	40.1 %	78.0 %	87.9 %	175.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3655 ppm	-0.0005 ppm	0.2462 ppm	0.0011 ppm	0.0002 ppm	0.0003 ppm	0.0021 ppm
Concentration per Run 1	5.3945 ppm	-0.0003 ppm	0.2529 ppm	0.0011 ppm	0.0004 ppm	0.0003 ppm	0.0022 ppm
Concentration per Run 2	5.3503 ppm	-0.0005 ppm	0.2426 ppm	0.0011 ppm	0.0004 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 3	5.3516 ppm	-0.0007 ppm	0.2433 ppm	0.0012 ppm	-0.0003 ppm	0.0002 ppm	0.0021 ppm
Concentration RSD	0.5 %	42.1 %	2.3 %	7.7 %	250.2 %	23.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.3727 %	103.6378 %	104.1179 %	106.9035 %	96.4914 %	101.1398 %	-0.0058 ppm
Concentration per Run 1	101.0902 %	103.8481 %	103.9391 %	101.5526 %	95.8941 %	100.7414 %	-0.0054 ppm
Concentration per Run 2	104.5019 %	103.6006 %	104.4219 %	107.8971 %	96.9032 %	101.2061 %	-0.0067 ppm
Concentration per Run 3	104.5259 %	103.4646 %	103.9928 %	111.2607 %	96.6768 %	101.4719 %	-0.0054 ppm
Concentration RSD	1.9 %	0.2 %	0.3 %	4.6 %	0.5 %	0.4 %	12.5 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: L2432633-04 WG1934555
Analysis started at: 6/17/2024 11:55:33 PM
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0021 ppm	0.0001 ppm	0.0165 ppm	0.0234 ppm	0.0000 ppm	10.6709 ppm
Concentration per Run 1	0.0001 ppm	0.0033 ppm	0.0001 ppm	0.0166 ppm	0.0239 ppm	0.0000 ppm	10.9219 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0012 ppm	0.0163 ppm	0.0231 ppm	0.0000 ppm	10.5395 ppm
Concentration per Run 3	-0.0003 ppm	0.0022 ppm	-0.0009 ppm	0.0165 ppm	0.0231 ppm	0.0000 ppm	10.5513 ppm
Concentration RSD	246.9 %	56.4 %	881.0 %	0.9 %	2.0 %	38.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0013 ppm	0.0046 ppm	0.9565 ppm	4.7846 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0013 ppm	0.0036 ppm	0.9825 ppm	4.8001 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0013 ppm	0.0049 ppm	0.9434 ppm	4.8031 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0010 ppm	0.0014 ppm	0.0054 ppm	0.9435 ppm	4.7506 ppm
Concentration RSD	9.6 %	102.6 %	19.3 %	5.8 %	20.2 %	2.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	12.8998 ppm	0.0004 ppm	-0.0009 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	13.1763 ppm	0.0005 ppm	-0.0009 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	12.7354 ppm	0.0004 ppm	-0.0007 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	12.7876 ppm	0.0005 ppm	-0.0012 ppm	-0.0013 ppm	-0.0007 ppm
Concentration RSD	39.9 %	2.0 %	1.9 %	11.4 %	28.8 %	143.7 %	215.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.2626 ppm	-0.0005 ppm	0.0490 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 1	7.3015 ppm	-0.0007 ppm	0.0500 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	7.2647 ppm	-0.0005 ppm	0.0482 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 3	7.2216 ppm	-0.0005 ppm	0.0486 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0023 ppm
Concentration RSD	0.6 %	23.4 %	1.9 %	33.6 %	202.1 %	18.6 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.7473 %	106.6999 %	107.7964 %	109.2522 %	101.3254 %	104.8926 %	0.0000 ppm
Concentration per Run 1	101.9815 %	106.8805 %	107.7160 %	104.0155 %	100.7891 %	104.6287 %	0.0015 ppm
Concentration per Run 2	104.9252 %	106.5471 %	107.6534 %	110.5143 %	101.1961 %	104.7377 %	-0.0016 ppm
Concentration per Run 3	104.3352 %	106.6721 %	108.0197 %	113.2269 %	101.9910 %	105.3113 %	-0.0001 ppm
Concentration RSD	1.5 %	0.2 %	0.2 %	4.3 %	0.6 %	0.3 %	3,294.4 %

LabBook: WG1935287_06172024T6.imexp

Sample: L2432633-01 WG1934555
Analysis started at: 6/18/2024 12:02:11 AM
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0117 ppm	0.0007 ppm	0.0145 ppm	0.0309 ppm	0.0000 ppm	34.4714 ppm
Concentration per Run 1	0.0000 ppm	0.0134 ppm	0.0008 ppm	0.0148 ppm	0.0317 ppm	0.0000 ppm	35.3240 ppm
Concentration per Run 2	0.0000 ppm	0.0124 ppm	0.0004 ppm	0.0145 ppm	0.0306 ppm	0.0000 ppm	34.0795 ppm
Concentration per Run 3	0.0000 ppm	0.0094 ppm	0.0009 ppm	0.0143 ppm	0.0304 ppm	0.0000 ppm	34.0107 ppm
Concentration RSD	112.9 %	17.9 %	35.3 %	1.8 %	2.2 %	604.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0021 ppm	0.0184 ppm	1.3048 ppm	10.0250 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0022 ppm	0.0191 ppm	1.3351 ppm	10.0873 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0020 ppm	0.0175 ppm	1.2965 ppm	10.0480 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0022 ppm	0.0186 ppm	1.2829 ppm	9.9397 ppm
Concentration RSD	63.8 %	97.4 %	21.5 %	6.6 %	4.5 %	2.1 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0014 ppm	0.0003 ppm	4.1039 ppm	0.0011 ppm	-0.0001 ppm	-0.0002 ppm	0.0018 ppm
Concentration per Run 1	0.0015 ppm	0.0004 ppm	4.1964 ppm	0.0009 ppm	-0.0002 ppm	-0.0004 ppm	0.0021 ppm
Concentration per Run 2	0.0013 ppm	0.0003 ppm	4.0584 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0014 ppm	0.0002 ppm	4.0570 ppm	0.0013 ppm	0.0000 ppm	-0.0002 ppm	0.0025 ppm
Concentration RSD	4.1 %	32.5 %	2.0 %	16.8 %	202.9 %	87.4 %	41.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8715 ppm	-0.0005 ppm	0.0706 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0053 ppm
Concentration per Run 1	2.8801 ppm	-0.0005 ppm	0.0724 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 2	2.8647 ppm	-0.0006 ppm	0.0698 ppm	0.0012 ppm	-0.0001 ppm	0.0001 ppm	0.0052 ppm
Concentration per Run 3	2.8698 ppm	-0.0004 ppm	0.0697 ppm	0.0010 ppm	0.0006 ppm	0.0001 ppm	0.0053 ppm
Concentration RSD	0.3 %	13.5 %	2.1 %	8.3 %	115.2 %	56.9 %	1.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.5763 %	105.9270 %	106.3162 %	110.4369 %	99.2040 %	104.8142 %	-0.0022 ppm
Concentration per Run 1	101.3465 %	105.9511 %	106.4112 %	104.8173 %	98.7766 %	104.5087 %	-0.0023 ppm
Concentration per Run 2	104.9736 %	105.7618 %	106.2506 %	111.9686 %	99.5542 %	104.6528 %	-0.0026 ppm
Concentration per Run 3	104.4088 %	106.0681 %	106.2867 %	114.5247 %	99.2813 %	105.2812 %	-0.0017 ppm
Concentration RSD	1.9 %	0.1 %	0.1 %	4.6 %	0.4 %	0.4 %	20.2 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1934555-3 WG1934555
Analysis started at: 6/18/2024 12:08:48 AM
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0511 ppm	1.9827 ppm	0.1112 ppm	0.9247 ppm	1.9686 ppm	0.0483 ppm	43.8474 ppm
Concentration per Run 1	0.0513 ppm	2.0538 ppm	0.1113 ppm	0.9264 ppm	2.0334 ppm	0.0500 ppm	45.3593 ppm
Concentration per Run 2	0.0508 ppm	1.9532 ppm	0.1117 ppm	0.9248 ppm	1.9397 ppm	0.0477 ppm	43.2793 ppm
Concentration per Run 3	0.0511 ppm	1.9410 ppm	0.1108 ppm	0.9229 ppm	1.9327 ppm	0.0473 ppm	42.9034 ppm
Concentration RSD	0.6 %	3.1 %	0.4 %	0.2 %	2.9 %	3.0 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0527 ppm	0.4579 ppm	0.1865 ppm	0.2457 ppm	0.9772 ppm	11.1108 ppm	19.5325 ppm
Concentration per Run 1	0.0527 ppm	0.4585 ppm	0.1865 ppm	0.2460 ppm	1.0054 ppm	11.4731 ppm	19.5160 ppm
Concentration per Run 2	0.0528 ppm	0.4578 ppm	0.1865 ppm	0.2455 ppm	0.9687 ppm	10.9606 ppm	19.5268 ppm
Concentration per Run 3	0.0527 ppm	0.4574 ppm	0.1864 ppm	0.2454 ppm	0.9575 ppm	10.8986 ppm	19.5546 ppm
Concentration RSD	0.1 %	0.1 %	0.0 %	0.1 %	2.6 %	2.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4974 ppm	0.9608 ppm	14.3516 ppm	0.4825 ppm	0.5371 ppm	0.5104 ppm	0.1255 ppm
Concentration per Run 1	0.5149 ppm	0.9539 ppm	14.8034 ppm	0.4832 ppm	0.5380 ppm	0.5107 ppm	0.1272 ppm
Concentration per Run 2	0.4909 ppm	0.9620 ppm	14.1578 ppm	0.4823 ppm	0.5367 ppm	0.5099 ppm	0.1243 ppm
Concentration per Run 3	0.4863 ppm	0.9666 ppm	14.0935 ppm	0.4819 ppm	0.5365 ppm	0.5106 ppm	0.1248 ppm
Concentration RSD	3.1 %	0.7 %	2.7 %	0.1 %	0.1 %	0.1 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.9996 ppm	0.9621 ppm	0.9882 ppm	0.9195 ppm	0.1201 ppm	0.4802 ppm	0.4681 ppm
Concentration per Run 1	4.0074 ppm	0.9615 ppm	1.0208 ppm	0.9204 ppm	0.1197 ppm	0.4810 ppm	0.4675 ppm
Concentration per Run 2	3.9968 ppm	0.9631 ppm	0.9737 ppm	0.9197 ppm	0.1201 ppm	0.4798 ppm	0.4690 ppm
Concentration per Run 3	3.9946 ppm	0.9617 ppm	0.9701 ppm	0.9185 ppm	0.1204 ppm	0.4796 ppm	0.4676 ppm
Concentration RSD	0.2 %	0.1 %	2.9 %	0.1 %	0.3 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.4988 %	104.1927 %	105.0259 %	112.1737 %	96.3042 %	104.3292 %	-0.0032 ppm
Concentration per Run 1	99.6121 %	104.1452 %	104.8175 %	105.9367 %	96.1207 %	104.1497 %	-0.0036 ppm
Concentration per Run 2	103.6596 %	104.1369 %	105.1870 %	113.3515 %	96.3923 %	104.2442 %	-0.0024 ppm
Concentration per Run 3	104.2247 %	104.2961 %	105.0731 %	117.2331 %	96.3997 %	104.5938 %	-0.0034 ppm
Concentration RSD	2.5 %	0.1 %	0.2 %	5.1 %	0.2 %	0.2 %	19.8 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1934555-4 WG1934555
Analysis started at: 6/18/2024 12:15:06 AM
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0091 ppm	-0.0005 ppm	0.0146 ppm	0.0306 ppm	0.0000 ppm	34.0338 ppm
Concentration per Run 1	-0.0002 ppm	0.0113 ppm	-0.0002 ppm	0.0145 ppm	0.0314 ppm	0.0000 ppm	34.9625 ppm
Concentration per Run 2	-0.0004 ppm	0.0093 ppm	-0.0006 ppm	0.0148 ppm	0.0302 ppm	0.0000 ppm	33.6268 ppm
Concentration per Run 3	-0.0002 ppm	0.0067 ppm	-0.0006 ppm	0.0145 ppm	0.0301 ppm	0.0000 ppm	33.5121 ppm
Concentration RSD	41.7 %	25.5 %	51.5 %	1.2 %	2.4 %	174.5 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0023 ppm	0.0193 ppm	1.3044 ppm	9.9079 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0024 ppm	0.0190 ppm	1.3273 ppm	9.9627 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0023 ppm	0.0198 ppm	1.2831 ppm	9.9153 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0022 ppm	0.0192 ppm	1.3028 ppm	9.8456 ppm
Concentration RSD	16.6 %	141.2 %	25.1 %	4.2 %	2.3 %	1.7 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0012 ppm	0.0016 ppm	4.0683 ppm	0.0012 ppm	0.0000 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 1	0.0013 ppm	0.0018 ppm	4.1819 ppm	0.0013 ppm	-0.0001 ppm	-0.0004 ppm	0.0018 ppm
Concentration per Run 2	0.0012 ppm	0.0015 ppm	4.0199 ppm	0.0012 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0013 ppm	0.0014 ppm	4.0031 ppm	0.0011 ppm	0.0003 ppm	-0.0004 ppm	0.0013 ppm
Concentration RSD	6.2 %	15.7 %	2.4 %	7.9 %	503.4 %	246.8 %	45.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8311 ppm	0.0002 ppm	0.0696 ppm	0.0010 ppm	-0.0002 ppm	0.0002 ppm	0.0040 ppm
Concentration per Run 1	2.8356 ppm	0.0003 ppm	0.0713 ppm	0.0009 ppm	-0.0006 ppm	0.0002 ppm	0.0040 ppm
Concentration per Run 2	2.8372 ppm	0.0003 ppm	0.0688 ppm	0.0011 ppm	0.0007 ppm	0.0002 ppm	0.0039 ppm
Concentration per Run 3	2.8204 ppm	-0.0001 ppm	0.0689 ppm	0.0010 ppm	-0.0008 ppm	0.0002 ppm	0.0039 ppm
Concentration RSD	0.3 %	122.1 %	2.0 %	12.5 %	320.9 %	7.3 %	1.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.8289 %	106.1006 %	106.8459 %	110.1319 %	99.4813 %	104.6115 %	-0.0034 ppm
Concentration per Run 1	101.5053 %	105.9353 %	106.8332 %	104.4908 %	99.3622 %	104.0537 %	-0.0029 ppm
Concentration per Run 2	104.8074 %	105.9585 %	106.7438 %	111.1151 %	99.2534 %	104.5198 %	-0.0038 ppm
Concentration per Run 3	105.1740 %	106.4081 %	106.9607 %	114.7899 %	99.8283 %	105.2611 %	-0.0036 ppm
Concentration RSD	1.9 %	0.3 %	0.1 %	4.7 %	0.3 %	0.6 %	13.0 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: WG1934555-5 WG1934555
Analysis started at: 6/18/2024 12:21:43 AM
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0478 ppm	1.7899 ppm	0.1064 ppm	0.8804 ppm	1.7952 ppm	0.0438 ppm	42.5946 ppm
Concentration per Run 1	0.0476 ppm	1.8165 ppm	0.1064 ppm	0.8827 ppm	1.8270 ppm	0.0447 ppm	43.6440 ppm
Concentration per Run 2	0.0477 ppm	1.7712 ppm	0.1063 ppm	0.8815 ppm	1.7725 ppm	0.0432 ppm	41.9976 ppm
Concentration per Run 3	0.0480 ppm	1.7820 ppm	0.1065 ppm	0.8769 ppm	1.7861 ppm	0.0435 ppm	42.1421 ppm
Concentration RSD	0.4 %	1.3 %	0.1 %	0.3 %	1.6 %	1.8 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0496 ppm	0.4290 ppm	0.1731 ppm	0.2274 ppm	0.8877 ppm	10.3026 ppm	18.8802 ppm
Concentration per Run 1	0.0496 ppm	0.4300 ppm	0.1727 ppm	0.2264 ppm	0.9013 ppm	10.4939 ppm	18.8671 ppm
Concentration per Run 2	0.0498 ppm	0.4300 ppm	0.1731 ppm	0.2271 ppm	0.8760 ppm	10.1715 ppm	18.8715 ppm
Concentration per Run 3	0.0495 ppm	0.4271 ppm	0.1734 ppm	0.2287 ppm	0.8859 ppm	10.2423 ppm	18.9018 ppm
Concentration RSD	0.3 %	0.4 %	0.2 %	0.5 %	1.4 %	1.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4518 ppm	0.9142 ppm	13.4829 ppm	0.4528 ppm	0.5247 ppm	0.4728 ppm	0.1191 ppm
Concentration per Run 1	0.4616 ppm	0.9071 ppm	13.7377 ppm	0.4535 ppm	0.5245 ppm	0.4704 ppm	0.1197 ppm
Concentration per Run 2	0.4453 ppm	0.9168 ppm	13.3073 ppm	0.4540 ppm	0.5258 ppm	0.4747 ppm	0.1188 ppm
Concentration per Run 3	0.4484 ppm	0.9187 ppm	13.4037 ppm	0.4510 ppm	0.5239 ppm	0.4734 ppm	0.1189 ppm
Concentration RSD	1.9 %	0.7 %	1.7 %	0.4 %	0.2 %	0.5 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.7633 ppm	0.9245 ppm	0.9173 ppm	0.8693 ppm	0.1154 ppm	0.4475 ppm	0.4398 ppm
Concentration per Run 1	3.7650 ppm	0.9244 ppm	0.9342 ppm	0.8651 ppm	0.1165 ppm	0.4453 ppm	0.4395 ppm
Concentration per Run 2	3.7674 ppm	0.9262 ppm	0.9057 ppm	0.8700 ppm	0.1145 ppm	0.4477 ppm	0.4414 ppm
Concentration per Run 3	3.7574 ppm	0.9229 ppm	0.9121 ppm	0.8730 ppm	0.1152 ppm	0.4494 ppm	0.4386 ppm
Concentration RSD	0.1 %	0.2 %	1.6 %	0.5 %	0.9 %	0.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.3247 %	104.8221 %	105.6630 %	115.5404 %	96.7661 %	104.9562 %	-0.0025 ppm
Concentration per Run 1	101.0430 %	105.0373 %	105.7488 %	110.5112 %	96.8026 %	104.9572 %	-0.0030 ppm
Concentration per Run 2	104.8641 %	104.9580 %	105.6634 %	117.2670 %	96.6688 %	105.0365 %	-0.0026 ppm
Concentration per Run 3	104.0670 %	104.4711 %	105.5768 %	118.8432 %	96.8270 %	104.8748 %	-0.0020 ppm
Concentration RSD	2.0 %	0.3 %	0.1 %	3.8 %	0.1 %	0.1 %	20.3 %

LabBook: WG1935287_06172024T6.imexp

Sample: WG1934555-6d5 WG1934555
Analysis started at: 6/18/2024 12:28:00 AM
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0035 ppm	0.0007 ppm	0.0035 ppm	0.0061 ppm	0.0000 ppm	6.8622 ppm
Concentration per Run 1	0.0001 ppm	0.0058 ppm	0.0002 ppm	0.0032 ppm	0.0061 ppm	0.0000 ppm	6.7813 ppm
Concentration per Run 2	-0.0002 ppm	0.0060 ppm	0.0015 ppm	0.0037 ppm	0.0062 ppm	0.0000 ppm	6.9770 ppm
Concentration per Run 3	-0.0001 ppm	-0.0013 ppm	0.0004 ppm	0.0036 ppm	0.0060 ppm	0.0000 ppm	6.8283 ppm
Concentration RSD	399.0 %	117.5 %	101.3 %	7.6 %	2.0 %	138.5 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0055 ppm	0.2589 ppm	2.0272 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0060 ppm	0.2528 ppm	2.0383 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0054 ppm	0.2522 ppm	2.0274 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0053 ppm	0.2717 ppm	2.0161 ppm
Concentration RSD	53.2 %	118.3 %	12.8 %	6.4 %	7.4 %	4.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0013 ppm	0.8412 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	0.0015 ppm	0.8321 ppm	0.0004 ppm	0.0000 ppm	0.0017 ppm	0.0026 ppm
Concentration per Run 2	0.0004 ppm	0.0012 ppm	0.8510 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0011 ppm	0.8405 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0013 ppm
Concentration RSD	52.5 %	15.5 %	1.1 %	46.5 %	419.3 %	59.3 %	69.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5530 ppm	0.0010 ppm	0.0139 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.5536 ppm	0.0008 ppm	0.0138 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	0.5538 ppm	0.0012 ppm	0.0141 ppm	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 3	0.5516 ppm	0.0010 ppm	0.0139 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm
Concentration RSD	0.2 %	15.3 %	0.9 %	48.9 %	256.2 %	88.4 %	3.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.0960 %	108.7458 %	109.5728 %	112.4975 %	104.4550 %	107.5073 %	-0.0008 ppm
Concentration per Run 1	104.9588 %	108.4678 %	109.6282 %	112.1776 %	104.2511 %	106.8255 %	-0.0006 ppm
Concentration per Run 2	102.7814 %	109.0803 %	109.5906 %	110.3858 %	104.4132 %	107.8614 %	-0.0021 ppm
Concentration per Run 3	104.5478 %	108.6893 %	109.4996 %	114.9291 %	104.7007 %	107.8348 %	0.0003 ppm
Concentration RSD	1.1 %	0.3 %	0.1 %	2.0 %	0.2 %	0.5 %	153.5 %

ICP DataTrace 6

6/18/2024 8:59:06 AM

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/18/2024 12:34:38 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4735 ppm	0.4744 ppm	0.4326 ppm	0.4367 ppm	0.4742 ppm	0.4753 ppm	0.4879 ppm
Concentration per Run 1	0.4735 ppm	0.4927 ppm	0.4325 ppm	0.4362 ppm	0.4924 ppm	0.4938 ppm	0.5054 ppm
Concentration per Run 2	0.4733 ppm	0.4620 ppm	0.4330 ppm	0.4369 ppm	0.4650 ppm	0.4660 ppm	0.4787 ppm
Concentration per Run 3	0.4739 ppm	0.4685 ppm	0.4323 ppm	0.4370 ppm	0.4650 ppm	0.4662 ppm	0.4796 ppm
Recovery Percentage 1	94.709 %	94.880 %	86.523 %	87.339 %	94.832 %	95.066 %	97.580 %
Concentration RSD	0.1 %	3.4 %	0.1 %	0.1 %	3.3 %	3.4 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4631 ppm	0.4516 ppm	0.4517 ppm	0.4515 ppm	0.4771 ppm	4.7699 ppm	0.4779 ppm
Concentration per Run 1	0.4619 ppm	0.4509 ppm	0.4525 ppm	0.4510 ppm	0.4960 ppm	4.9323 ppm	0.4803 ppm
Concentration per Run 2	0.4631 ppm	0.4512 ppm	0.4505 ppm	0.4518 ppm	0.4672 ppm	4.6816 ppm	0.4766 ppm
Concentration per Run 3	0.4643 ppm	0.4528 ppm	0.4523 ppm	0.4517 ppm	0.4680 ppm	4.6958 ppm	0.4769 ppm
Recovery Percentage 1	92.624 %	90.329 %	90.347 %	90.305 %	95.412 %	95.398 %	95.587 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	3.4 %	3.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4819 ppm	0.4641 ppm	9.7954 ppm	0.4716 ppm	0.4889 ppm	0.4775 ppm	0.4733 ppm
Concentration per Run 1	0.5006 ppm	0.4620 ppm	10.1550 ppm	0.4715 ppm	0.4877 ppm	0.4783 ppm	0.4744 ppm
Concentration per Run 2	0.4721 ppm	0.4645 ppm	9.6147 ppm	0.4718 ppm	0.4893 ppm	0.4780 ppm	0.4729 ppm
Concentration per Run 3	0.4729 ppm	0.4658 ppm	9.6165 ppm	0.4714 ppm	0.4897 ppm	0.4763 ppm	0.4725 ppm
Recovery Percentage 1	96.373 %	92.819 %	97.954 %	94.312 %	97.779 %	95.502 %	94.653 %
Concentration RSD	3.4 %	0.4 %	3.2 %	0.0 %	0.2 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9405 ppm	0.4758 ppm	0.4591 ppm	0.4421 ppm	0.4822 ppm	0.4611 ppm	0.4506 ppm
Concentration per Run 1	4.9387 ppm	0.4763 ppm	0.4770 ppm	0.4417 ppm	0.4812 ppm	0.4608 ppm	0.4492 ppm
Concentration per Run 2	4.9390 ppm	0.4749 ppm	0.4503 ppm	0.4423 ppm	0.4835 ppm	0.4608 ppm	0.4507 ppm
Concentration per Run 3	4.9437 ppm	0.4762 ppm	0.4499 ppm	0.4422 ppm	0.4818 ppm	0.4616 ppm	0.4518 ppm
Recovery Percentage 1	94.104 %	95.161 %	91.814 %	88.416 %	96.434 %	92.214 %	90.111 %
Concentration RSD	0.1 %	0.2 %	3.4 %	0.1 %	0.3 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.1661 %	106.6701 %	108.2704 %	121.9632 %	101.8822 %	107.9981 %	0.4739 ppm
Concentration per Run 1	98.8106 %	106.7899 %	108.3658 %	118.9872 %	102.0095 %	108.1578 %	0.4955 ppm
Concentration per Run 2	104.1085 %	106.5284 %	108.1399 %	123.2026 %	101.8862 %	107.8082 %	0.4634 ppm
Concentration per Run 3	103.5791 %	106.6919 %	108.3055 %	123.6998 %	101.7507 %	108.0284 %	0.4627 ppm
Recovery Percentage 1							94.775 %
Concentration RSD	2.9 %	0.1 %	0.1 %	2.1 %	0.1 %	0.2 %	4.0 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/18/2024 12:40:57 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0008 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0075 ppm
Concentration per Run 1	-0.0003 ppm	0.0010 ppm	0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0070 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0061 ppm
Concentration per Run 3	-0.0002 ppm	0.0008 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0093 ppm
Recovery Percentage 1	-2.167 %	0.000 %	14.178 %	1.418 %	0.763 %	0.092 %	-0.001 %
Concentration RSD	91.6 %	12.3 %	34.3 %	36.8 %	24.0 %	676.1 %	22.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm	0.0169 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0025 ppm	0.0150 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0269 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0087 ppm	-0.0004 ppm
Recovery Percentage 1	0.426 %	0.517 %	0.284 %	0.992 %	0.001 %	0.674 %	0.000 %
Concentration RSD	74.2 %	67.5 %	287.2 %	41.9 %	49.9 %	54.8 %	3,776.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0311 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0004 ppm	0.0005 ppm	0.0330 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0300 ppm	0.0002 ppm	0.0002 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	-0.0003 ppm	0.0004 ppm	0.0302 ppm	0.0003 ppm	0.0005 ppm	0.0010 ppm	-0.0002 ppm
Recovery Percentage 1	0.806 %	0.914 %	1.554 %	0.970 %	3.774 %	0.326 %	7.043 %
Concentration RSD	441.6 %	14.6 %	5.4 %	35.4 %	45.1 %	493.8 %	129.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0013 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 1	-0.0017 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 2	-0.0009 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0012 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-0.254 %	1.364 %	0.052 %	1.368 %	3.778 %	-1.865 %	5.560 %
Concentration RSD	29.9 %	34.0 %	432.2 %	61.1 %	59.8 %	41.3 %	19.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.3421 %	108.9266 %	110.4904 %	112.3898 %	106.0456 %	107.4599 %	-0.0001 ppm
Concentration per Run 1	99.1100 %	109.0791 %	111.5338 %	109.9066 %	107.2071 %	107.3009 %	-0.0005 ppm
Concentration per Run 2	103.1056 %	108.9338 %	110.0969 %	111.2364 %	105.3755 %	107.5289 %	0.0002 ppm
Concentration per Run 3	104.8108 %	108.7670 %	109.8405 %	116.0264 %	105.5542 %	107.5498 %	0.0001 ppm
Recovery Percentage 1							-1.048 %
Concentration RSD	2.9 %	0.1 %	0.8 %	2.9 %	1.0 %	0.1 %	349.2 %

LabBook: WG1935287_06172024T6.imexp

Sample: LLOQ RL Check
Analysis started at: 6/18/2024 12:47:40 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0064 ppm	0.1000 ppm	0.0057 ppm	0.0258 ppm	0.0096 ppm	0.0047 ppm	0.0925 ppm
Concentration per Run 1	0.0063 ppm	0.1029 ppm	0.0060 ppm	0.0258 ppm	0.0099 ppm	0.0048 ppm	0.0974 ppm
Concentration per Run 2	0.0065 ppm	0.0983 ppm	0.0057 ppm	0.0258 ppm	0.0095 ppm	0.0046 ppm	0.0906 ppm
Concentration per Run 3	0.0065 ppm	0.0988 ppm	0.0054 ppm	0.0259 ppm	0.0095 ppm	0.0046 ppm	0.0895 ppm
Recovery Percentage 1	92.142 %	100.018 %	114.111 %	86.140 %	96.255 %	93.605 %	92.492 %
Concentration RSD	2.0 %	2.5 %	5.4 %	0.3 %	2.5 %	2.0 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0037 ppm	0.0180 ppm	0.0092 ppm	0.0097 ppm	0.0521 ppm	2.4326 ppm	0.1012 ppm
Concentration per Run 1	0.0037 ppm	0.0180 ppm	0.0093 ppm	0.0098 ppm	0.0536 ppm	2.5174 ppm	0.1029 ppm
Concentration per Run 2	0.0037 ppm	0.0179 ppm	0.0091 ppm	0.0097 ppm	0.0525 ppm	2.3846 ppm	0.1010 ppm
Concentration per Run 3	0.0037 ppm	0.0180 ppm	0.0092 ppm	0.0097 ppm	0.0503 ppm	2.3957 ppm	0.0998 ppm
Recovery Percentage 1	93.030 %	89.788 %	91.887 %	97.308 %	104.221 %	97.304 %	101.226 %
Concentration RSD	0.1 %	0.5 %	1.1 %	0.6 %	3.2 %	3.0 %	1.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0103 ppm	0.0463 ppm	2.0470 ppm	0.0234 ppm	0.0101 ppm	0.0474 ppm	0.0102 ppm
Concentration per Run 1	0.0107 ppm	0.0465 ppm	2.1043 ppm	0.0233 ppm	0.0103 ppm	0.0474 ppm	0.0098 ppm
Concentration per Run 2	0.0103 ppm	0.0463 ppm	2.0109 ppm	0.0234 ppm	0.0101 ppm	0.0476 ppm	0.0094 ppm
Concentration per Run 3	0.0101 ppm	0.0462 ppm	2.0257 ppm	0.0234 ppm	0.0100 ppm	0.0471 ppm	0.0114 ppm
Recovery Percentage 1	103.455 %	92.655 %	102.349 %	93.443 %	101.481 %	94.765 %	101.916 %
Concentration RSD	2.7 %	0.3 %	2.5 %	0.3 %	1.6 %	0.5 %	10.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4961 ppm	0.0474 ppm	0.0091 ppm	0.0447 ppm	0.0198 ppm	0.0091 ppm	0.0051 ppm
Concentration per Run 1	0.4970 ppm	0.0474 ppm	0.0093 ppm	0.0447 ppm	0.0197 ppm	0.0093 ppm	0.0050 ppm
Concentration per Run 2	0.4956 ppm	0.0473 ppm	0.0089 ppm	0.0449 ppm	0.0194 ppm	0.0090 ppm	0.0052 ppm
Concentration per Run 3	0.4958 ppm	0.0474 ppm	0.0089 ppm	0.0444 ppm	0.0203 ppm	0.0092 ppm	0.0051 ppm
Recovery Percentage 1	99.221 %	94.759 %	90.728 %	89.335 %	98.994 %	91.453 %	101.804 %
Concentration RSD	0.2 %	0.1 %	2.5 %	0.6 %	2.4 %	1.6 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.3822 %	108.8475 %	109.8310 %	118.2089 %	105.5640 %	109.5856 %	0.0098 ppm
Concentration per Run 1	100.3543 %	108.7947 %	109.9450 %	113.4313 %	105.5752 %	109.4758 %	0.0102 ppm
Concentration per Run 2	105.0284 %	108.7708 %	109.9780 %	119.5850 %	105.5933 %	109.5181 %	0.0107 ppm
Concentration per Run 3	104.7639 %	108.9771 %	109.5699 %	121.6105 %	105.5235 %	109.7628 %	0.0087 ppm
Recovery Percentage 1							98.458 %
Concentration RSD	2.5 %	0.1 %	0.2 %	3.6 %	0.0 %	0.1 %	10.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCV
Analysis started at: 6/18/2024 12:54:16 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4715 ppm	0.4732 ppm	0.4313 ppm	0.4347 ppm	0.4728 ppm	0.4706 ppm	0.4844 ppm
Concentration per Run 1	0.4726 ppm	0.4852 ppm	0.4309 ppm	0.4344 ppm	0.4897 ppm	0.4871 ppm	0.4998 ppm
Concentration per Run 2	0.4717 ppm	0.4658 ppm	0.4312 ppm	0.4356 ppm	0.4645 ppm	0.4620 ppm	0.4773 ppm
Concentration per Run 3	0.4700 ppm	0.4688 ppm	0.4319 ppm	0.4341 ppm	0.4642 ppm	0.4626 ppm	0.4761 ppm
Recovery Percentage 1	94.291 %	94.649 %	86.268 %	86.936 %	94.558 %	94.120 %	96.884 %
Concentration RSD	0.3 %	2.2 %	0.1 %	0.2 %	3.1 %	3.0 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4625 ppm	0.4503 ppm	0.4501 ppm	0.4497 ppm	0.4742 ppm	4.7413 ppm	0.4752 ppm
Concentration per Run 1	0.4628 ppm	0.4501 ppm	0.4498 ppm	0.4504 ppm	0.4875 ppm	4.8876 ppm	0.4742 ppm
Concentration per Run 2	0.4625 ppm	0.4509 ppm	0.4506 ppm	0.4503 ppm	0.4669 ppm	4.6517 ppm	0.4796 ppm
Concentration per Run 3	0.4621 ppm	0.4500 ppm	0.4500 ppm	0.4483 ppm	0.4681 ppm	4.6845 ppm	0.4717 ppm
Recovery Percentage 1	92.494 %	90.064 %	90.027 %	89.930 %	94.836 %	94.825 %	95.036 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.3 %	2.4 %	2.7 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4793 ppm	0.4624 ppm	9.6892 ppm	0.4699 ppm	0.4885 ppm	0.4754 ppm	0.4709 ppm
Concentration per Run 1	0.4964 ppm	0.4611 ppm	10.0206 ppm	0.4693 ppm	0.4876 ppm	0.4762 ppm	0.4719 ppm
Concentration per Run 2	0.4700 ppm	0.4631 ppm	9.5084 ppm	0.4704 ppm	0.4892 ppm	0.4750 ppm	0.4702 ppm
Concentration per Run 3	0.4714 ppm	0.4629 ppm	9.5386 ppm	0.4699 ppm	0.4886 ppm	0.4750 ppm	0.4707 ppm
Recovery Percentage 1	95.852 %	92.475 %	96.892 %	93.981 %	97.693 %	95.079 %	94.185 %
Concentration RSD	3.1 %	0.2 %	3.0 %	0.1 %	0.2 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9170 ppm	0.4742 ppm	0.4560 ppm	0.4420 ppm	0.4805 ppm	0.4607 ppm	0.4507 ppm
Concentration per Run 1	4.9141 ppm	0.4741 ppm	0.4726 ppm	0.4422 ppm	0.4797 ppm	0.4612 ppm	0.4512 ppm
Concentration per Run 2	4.9239 ppm	0.4740 ppm	0.4476 ppm	0.4420 ppm	0.4810 ppm	0.4606 ppm	0.4504 ppm
Concentration per Run 3	4.9128 ppm	0.4744 ppm	0.4477 ppm	0.4417 ppm	0.4808 ppm	0.4603 ppm	0.4506 ppm
Recovery Percentage 1	93.656 %	94.842 %	91.192 %	88.397 %	96.094 %	92.146 %	90.147 %
Concentration RSD	0.1 %	0.0 %	3.2 %	0.1 %	0.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.6849 %	107.0435 %	108.7602 %	121.5762 %	102.4235 %	108.2761 %	0.4715 ppm
Concentration per Run 1	99.7410 %	107.1126 %	108.8040 %	118.8486 %	102.4600 %	108.2589 %	0.4853 ppm
Concentration per Run 2	104.6745 %	106.8715 %	108.6589 %	122.9745 %	102.2217 %	108.1549 %	0.4642 ppm
Concentration per Run 3	103.6392 %	107.1463 %	108.8178 %	122.9055 %	102.5888 %	108.4144 %	0.4652 ppm
Recovery Percentage 1							94.309 %
Concentration RSD	2.5 %	0.1 %	0.1 %	1.9 %	0.2 %	0.1 %	2.5 %

LabBook: WG1935287_06172024T6.imexp

Sample: CCB
Analysis started at: 6/18/2024 1:00:34 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0018 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 1	0.0000 ppm	-0.0032 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0023 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0080 ppm
Recovery Percentage 1	0.295 %	0.000 %	3.014 %	0.651 %	-0.188 %	0.647 %	-0.001 %
Concentration RSD	83.8 %	98.8 %	635.4 %	54.9 %	289.8 %	88.4 %	120.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0125 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0016 ppm	0.0126 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0022 ppm	0.0079 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0169 ppm	-0.0016 ppm
Recovery Percentage 1	0.304 %	0.665 %	-0.441 %	1.272 %	0.001 %	0.499 %	0.000 %
Concentration RSD	158.9 %	41.5 %	74.6 %	144.0 %	15.6 %	35.8 %	3,059.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0243 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	0.0276 ppm	0.0002 ppm	0.0008 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0238 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0214 ppm	0.0002 ppm	-0.0002 ppm	0.0007 ppm	0.0002 ppm
Recovery Percentage 1	0.855 %	0.727 %	1.214 %	0.592 %	2.380 %	0.251 %	7.611 %
Concentration RSD	83.6 %	39.0 %	12.9 %	70.1 %	232.0 %	407.3 %	111.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0014 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0011 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0020 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-0.282 %	1.311 %	-0.018 %	1.067 %	5.034 %	-0.573 %	5.598 %
Concentration RSD	35.1 %	23.7 %	1,911.0 %	62.3 %	24.6 %	30.0 %	12.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.9575 %	108.9266 %	110.2362 %	112.2165 %	106.2988 %	107.6175 %	0.0012 ppm
Concentration per Run 1	100.8431 %	109.0792 %	110.3137 %	107.4861 %	106.1514 %	107.5410 %	0.0017 ppm
Concentration per Run 2	103.9616 %	108.9206 %	110.2068 %	113.1061 %	106.2266 %	107.6531 %	0.0015 ppm
Concentration per Run 3	104.0680 %	108.7801 %	110.1882 %	116.0572 %	106.5183 %	107.6586 %	0.0004 ppm
Recovery Percentage 1							11.843 %
Concentration RSD	1.8 %	0.1 %	0.1 %	3.9 %	0.2 %	0.1 %	59.9 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Blank JMF Trace8
Analysis started at: 6/18/2024 4:36:47 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.5 %	-0.8 %	-1.3 %	0.1 %	0.3 %	-0.4 %	-0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.9 %	0.1 %	-0.2 %	0.0 %	-0.1 %	0.2 %	-1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.2 %	0.1 %	1.3 %	0.3 %	0.3 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.1 %	0.4 %	0.4 %	-0.2 %	-0.3 %	-0.4 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	3.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICAL
Analysis started at: 6/18/2024 4:40:46 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9998 ppm	24.9599 ppm	0.9921 ppm	0.9872 ppm	0.9969 ppm	0.9986 ppm	9.9818 ppm
Concentration per Run 2	0.9976 ppm	24.9894 ppm	1.0055 ppm	1.0044 ppm	1.0011 ppm	1.0001 ppm	10.0075 ppm
Concentration per Run 3	1.0027 ppm	25.0507 ppm	1.0024 ppm	1.0084 ppm	1.0020 ppm	1.0014 ppm	10.0107 ppm
Concentration RSD	0.3 %	0.2 %	0.7 %	1.1 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9960 ppm	0.9919 ppm	0.9972 ppm	0.9947 ppm	24.9644 ppm	34.9455 ppm	0.9986 ppm
Concentration per Run 2	1.0004 ppm	1.0022 ppm	1.0024 ppm	0.9994 ppm	25.0462 ppm	35.0567 ppm	1.0012 ppm
Concentration per Run 3	1.0036 ppm	1.0059 ppm	1.0004 ppm	1.0059 ppm	24.9893 ppm	34.9978 ppm	1.0002 ppm
Concentration RSD	0.4 %	0.7 %	0.3 %	0.6 %	0.2 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9784 ppm	0.9983 ppm	0.9789 ppm	24.9271 ppm	0.9903 ppm	0.9923 ppm	0.9848 ppm
Concentration per Run 2	9.9990 ppm	1.0005 ppm	0.9998 ppm	24.9989 ppm	1.0039 ppm	1.0018 ppm	1.0026 ppm
Concentration per Run 3	10.0226 ppm	1.0013 ppm	1.0213 ppm	25.0740 ppm	1.0057 ppm	1.0058 ppm	1.0126 ppm
Concentration RSD	0.2 %	0.2 %	2.1 %	0.3 %	0.8 %	0.7 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9897 ppm	9.9329 ppm	0.9881 ppm	0.9990 ppm	0.9926 ppm	0.9930 ppm	0.9982 ppm
Concentration per Run 2	1.0052 ppm	10.0016 ppm	1.0043 ppm	1.0008 ppm	1.0024 ppm	1.0029 ppm	1.0020 ppm
Concentration per Run 3	1.0051 ppm	10.0655 ppm	1.0076 ppm	1.0002 ppm	1.0050 ppm	1.0041 ppm	0.9998 ppm
Concentration RSD	0.9 %	0.7 %	1.0 %	0.1 %	0.7 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	98.8997 %	102.3810 %	97.2580 %	94.2288 %	98.9095 %	95.9595 %
Concentration per Run 1	0.9898 ppm	98.9978 %	102.8766 %	97.7374 %	93.9212 %	99.6456 %	96.1673 %
Concentration per Run 2	1.0036 ppm	98.9253 %	102.1141 %	97.5505 %	94.2655 %	98.5902 %	96.3729 %
Concentration per Run 3	1.0066 ppm	98.7762 %	102.1522 %	96.4863 %	94.4996 %	98.4927 %	95.3383 %
Concentration RSD	0.9 %	0.1 %	0.4 %	0.7 %	0.3 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICV
Analysis started at: 6/18/2024 4:44:41 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5090 ppm	0.4987 ppm	0.4918 ppm	0.5036 ppm	0.5058 ppm	0.5153 ppm	0.4992 ppm
Concentration per Run 1	0.5051 ppm	0.5031 ppm	0.4876 ppm	0.5009 ppm	0.5050 ppm	0.5132 ppm	0.5025 ppm
Concentration per Run 2	0.5097 ppm	0.4983 ppm	0.4923 ppm	0.5026 ppm	0.5071 ppm	0.5181 ppm	0.4951 ppm
Concentration per Run 3	0.5120 ppm	0.4947 ppm	0.4956 ppm	0.5074 ppm	0.5054 ppm	0.5145 ppm	0.5000 ppm
Recovery Percentage 1	101.794 %	99.737 %	98.366 %	100.728 %	101.163 %	103.051 %	99.837 %
Concentration RSD	0.7 %	0.8 %	0.8 %	0.7 %	0.2 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5145 ppm	0.5178 ppm	0.5036 ppm	0.4972 ppm	0.5165 ppm	5.2610 ppm	0.6339 ppm
Concentration per Run 1	0.5130 ppm	0.5181 ppm	0.5006 ppm	0.4988 ppm	0.5153 ppm	5.2726 ppm	0.6352 ppm
Concentration per Run 2	0.5152 ppm	0.5185 ppm	0.5038 ppm	0.4955 ppm	0.5170 ppm	5.2562 ppm	0.6349 ppm
Concentration per Run 3	0.5155 ppm	0.5168 ppm	0.5064 ppm	0.4972 ppm	0.5171 ppm	5.2544 ppm	0.6315 ppm
Recovery Percentage 1	102.910 %	103.561 %	100.719 %	99.430 %	103.295 %	105.221 %	126.773 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.2 %	0.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5008 ppm	0.5021 ppm	0.5124 ppm	10.2808 ppm	0.5221 ppm	0.5045 ppm	0.5060 ppm
Concentration per Run 1	0.4987 ppm	0.5039 ppm	0.5031 ppm	10.3030 ppm	0.5176 ppm	0.5036 ppm	0.4980 ppm
Concentration per Run 2	0.5011 ppm	0.5009 ppm	0.5133 ppm	10.2672 ppm	0.5223 ppm	0.5048 ppm	0.5088 ppm
Concentration per Run 3	0.5027 ppm	0.5016 ppm	0.5210 ppm	10.2721 ppm	0.5263 ppm	0.5052 ppm	0.5112 ppm
Recovery Percentage 1	100.159 %	100.430 %	102.488 %	102.808 %	104.414 %	100.909 %	101.201 %
Concentration RSD	0.4 %	0.3 %	1.8 %	0.2 %	0.8 %	0.2 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5000 ppm	5.6619 ppm	0.5177 ppm	0.4958 ppm	0.5137 ppm	0.5014 ppm	0.5018 ppm
Concentration per Run 1	0.4969 ppm	5.6452 ppm	0.5134 ppm	0.4934 ppm	0.5112 ppm	0.4999 ppm	0.4995 ppm
Concentration per Run 2	0.4964 ppm	5.6561 ppm	0.5179 ppm	0.4980 ppm	0.5144 ppm	0.5018 ppm	0.5027 ppm
Concentration per Run 3	0.5066 ppm	5.6843 ppm	0.5219 ppm	0.4961 ppm	0.5155 ppm	0.5026 ppm	0.5031 ppm
Recovery Percentage 1	99.994 %	107.845 %	103.542 %	99.164 %	102.744 %	100.285 %	100.352 %
Concentration RSD	1.2 %	0.4 %	0.8 %	0.5 %	0.4 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5209 ppm	98.1478 %	102.9878 %	98.2732 %	95.7351 %	100.3985 %	96.8538 %
Concentration per Run 1	0.5168 ppm	97.9251 %	101.9532 %	98.0347 %	95.7010 %	99.4869 %	96.5290 %
Concentration per Run 2	0.5205 ppm	98.1238 %	103.6313 %	98.5020 %	95.6286 %	100.9423 %	97.2459 %
Concentration per Run 3	0.5254 ppm	98.3945 %	103.3790 %	98.2830 %	95.8758 %	100.7664 %	96.7864 %
Recovery Percentage 1	104.180 %						
Concentration RSD	0.8 %	0.2 %	0.9 %	0.2 %	0.1 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICB
Analysis started at: 6/18/2024 4:48:38 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0016 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0025 ppm	-0.0008 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 3	0.0004 ppm	-0.0072 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0029 ppm
Recovery Percentage 1	2.976 %	-1.601 %	-13.272 %	-0.481 %	1.326 %	2.796 %	-1.945 %
Concentration RSD	100.4 %	315.3 %	81.3 %	466.4 %	100.9 %	17.4 %	58.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0088 ppm	-0.0137 ppm	0.0020 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	-0.0005 ppm	0.0003 ppm	0.0093 ppm	0.0047 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0093 ppm	-0.0284 ppm	0.0037 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0078 ppm	-0.0173 ppm	0.0007 ppm
Recovery Percentage 1	-0.021 %	-0.737 %	-2.369 %	3.413 %	17.609 %	-0.547 %	20.490 %
Concentration RSD	7,832.3 %	228.6 %	159.1 %	12.1 %	10.1 %	123.2 %	75.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0003 ppm	-0.0004 ppm	0.0036 ppm	0.0004 ppm	-0.0005 ppm	-0.0018 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm	-0.0016 ppm	-0.0020 ppm
Concentration per Run 2	-0.0022 ppm	0.0000 ppm	-0.0008 ppm	0.0095 ppm	0.0008 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	-0.0016 ppm	0.0004 ppm	-0.0005 ppm	0.0007 ppm	-0.0002 ppm	-0.0009 ppm	-0.0028 ppm
Recovery Percentage 1	-1.306 %	2.785 %	-0.724 %	0.178 %	1.794 %	-5.201 %	-3.515 %
Concentration RSD	80.3 %	87.3 %	155.9 %	144.3 %	117.0 %	256.0 %	69.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	-0.0003 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	-0.0032 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0009 ppm	0.0013 ppm	0.0014 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	1.039 %	0.045 %	1.969 %	0.240 %	-2.642 %	-4.591 %	0.816 %
Concentration RSD	654.5 %	409.0 %	32.4 %	91.5 %	56.5 %	215.9 %	149.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	92.2111 %	99.2978 %	95.5251 %	97.4423 %	101.5148 %	99.4479 %
Concentration per Run 1	0.0008 ppm	90.5049 %	99.0479 %	95.0656 %	96.6155 %	101.6312 %	99.5406 %
Concentration per Run 2	0.0011 ppm	92.7906 %	99.5318 %	95.4717 %	98.0280 %	101.6649 %	99.2132 %
Concentration per Run 3	0.0011 ppm	93.3377 %	99.3135 %	96.0382 %	97.6834 %	101.2483 %	99.5898 %
Recovery Percentage 1	20.211 %						
Concentration RSD	16.2 %	1.6 %	0.2 %	0.5 %	0.8 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICV
Analysis started at: 6/18/2024 4:52:35 AM
Rack 0
Vial 10
Comment Postion adjusted

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5221 ppm	0.5118 ppm	0.5038 ppm	0.5184 ppm	0.5212 ppm	0.5273 ppm	0.5116 ppm
Concentration per Run 1	0.5174 ppm	0.5165 ppm	0.5004 ppm	0.5110 ppm	0.5191 ppm	0.5250 ppm	0.5114 ppm
Concentration per Run 2	0.5241 ppm	0.5102 ppm	0.5084 ppm	0.5208 ppm	0.5243 ppm	0.5283 ppm	0.5109 ppm
Concentration per Run 3	0.5249 ppm	0.5088 ppm	0.5027 ppm	0.5233 ppm	0.5203 ppm	0.5287 ppm	0.5127 ppm
Recovery Percentage 1	104.429 %	102.367 %	100.766 %	103.674 %	104.244 %	105.463 %	102.325 %
Concentration RSD	0.8 %	0.8 %	0.8 %	1.3 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5274 ppm	0.5308 ppm	0.5154 ppm	0.5090 ppm	0.5332 ppm	5.4148 ppm	0.5147 ppm
Concentration per Run 1	0.5255 ppm	0.5289 ppm	0.5128 ppm	0.5067 ppm	0.5326 ppm	5.4371 ppm	0.5158 ppm
Concentration per Run 2	0.5279 ppm	0.5308 ppm	0.5166 ppm	0.5089 ppm	0.5333 ppm	5.4260 ppm	0.5151 ppm
Concentration per Run 3	0.5288 ppm	0.5328 ppm	0.5167 ppm	0.5114 ppm	0.5337 ppm	5.3813 ppm	0.5133 ppm
Recovery Percentage 1	105.474 %	106.161 %	103.076 %	101.798 %	106.637 %	108.296 %	102.947 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.5 %	0.1 %	0.5 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5138 ppm	0.5152 ppm	0.5230 ppm	10.5260 ppm	0.5370 ppm	0.5169 ppm	0.5205 ppm
Concentration per Run 1	0.5120 ppm	0.5145 ppm	0.5138 ppm	10.5387 ppm	0.5370 ppm	0.5174 ppm	0.5191 ppm
Concentration per Run 2	0.5159 ppm	0.5150 ppm	0.5246 ppm	10.4870 ppm	0.5388 ppm	0.5160 ppm	0.5175 ppm
Concentration per Run 3	0.5136 ppm	0.5162 ppm	0.5305 ppm	10.5524 ppm	0.5353 ppm	0.5173 ppm	0.5250 ppm
Recovery Percentage 1	102.770 %	103.048 %	104.598 %	105.260 %	107.404 %	103.383 %	104.107 %
Concentration RSD	0.4 %	0.2 %	1.6 %	0.3 %	0.3 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5097 ppm	5.4005 ppm	0.5448 ppm	0.5148 ppm	0.5247 ppm	0.5157 ppm	0.5137 ppm
Concentration per Run 1	0.5035 ppm	5.3652 ppm	0.5432 ppm	0.5131 ppm	0.5220 ppm	0.5157 ppm	0.5105 ppm
Concentration per Run 2	0.5126 ppm	5.4068 ppm	0.5457 ppm	0.5161 ppm	0.5260 ppm	0.5168 ppm	0.5153 ppm
Concentration per Run 3	0.5130 ppm	5.4294 ppm	0.5455 ppm	0.5153 ppm	0.5262 ppm	0.5145 ppm	0.5154 ppm
Recovery Percentage 1	101.940 %	102.866 %	108.961 %	102.969 %	104.948 %	103.137 %	102.750 %
Concentration RSD	1.1 %	0.6 %	0.3 %	0.3 %	0.5 %	0.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5372 ppm	97.8027 %	102.1765 %	97.7774 %	94.7126 %	99.6663 %	96.1595 %
Concentration per Run 1	0.5371 ppm	97.7867 %	101.8159 %	98.2049 %	94.5555 %	99.4397 %	96.0280 %
Concentration per Run 2	0.5386 ppm	98.1909 %	102.7660 %	97.6004 %	95.0521 %	100.0808 %	96.1896 %
Concentration per Run 3	0.5359 ppm	97.4304 %	101.9476 %	97.5268 %	94.5303 %	99.4784 %	96.2609 %
Recovery Percentage 1	107.446 %						
Concentration RSD	0.3 %	0.4 %	0.5 %	0.4 %	0.3 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICB
Analysis started at: 6/18/2024 4:56:35 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0028 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0038 ppm
Concentration per Run 1	-0.0003 ppm	-0.0010 ppm	-0.0022 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0052 ppm
Concentration per Run 2	0.0001 ppm	-0.0082 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0014 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0045 ppm
Recovery Percentage 1	-1.351 %	-2.754 %	-9.675 %	0.249 %	0.212 %	2.541 %	-3.811 %
Concentration RSD	187.5 %	174.7 %	610.5 %	1,014.0 %	168.8 %	31.9 %	48.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0093 ppm	-0.0180 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0098 ppm	-0.0243 ppm	-0.0015 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0102 ppm	0.0050 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0078 ppm	-0.0346 ppm	0.0002 ppm
Recovery Percentage 1	0.721 %	0.032 %	-1.219 %	2.891 %	18.568 %	-0.720 %	-0.442 %
Concentration RSD	447.2 %	2,304.8 %	182.8 %	18.2 %	14.1 %	114.1 %	3,088.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0001 ppm	-0.0007 ppm	-0.0057 ppm	0.0007 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0007 ppm	-0.0071 ppm	0.0009 ppm	-0.0005 ppm	0.0019 ppm
Concentration per Run 2	-0.0023 ppm	0.0001 ppm	-0.0005 ppm	-0.0070 ppm	0.0008 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	-0.0018 ppm	0.0000 ppm	-0.0008 ppm	-0.0030 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm
Recovery Percentage 1	-1.360 %	0.933 %	-1.419 %	-0.286 %	2.702 %	0.268 %	2.155 %
Concentration RSD	92.9 %	59.5 %	21.3 %	40.6 %	53.7 %	2,038.3 %	65.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0016 ppm	0.0005 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 3	-0.0004 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm
Recovery Percentage 1	2.735 %	0.138 %	0.364 %	0.208 %	-0.395 %	-1.072 %	-1.459 %
Concentration RSD	429.4 %	166.6 %	348.6 %	352.4 %	850.9 %	281.1 %	170.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	91.1466 %	98.3847 %	94.6791 %	96.5029 %	100.8776 %	98.9856 %
Concentration per Run 1	0.0008 ppm	90.6231 %	97.2682 %	93.9421 %	96.8517 %	99.9440 %	98.6329 %
Concentration per Run 2	0.0008 ppm	91.1242 %	99.1399 %	95.1779 %	96.4340 %	101.8641 %	99.5711 %
Concentration per Run 3	0.0007 ppm	91.6926 %	98.7462 %	94.9174 %	96.2229 %	100.8247 %	98.7527 %
Recovery Percentage 1	14.923 %						
Concentration RSD	9.3 %	0.6 %	1.0 %	0.7 %	0.3 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LLOQ
Analysis started at: 6/18/2024 5:34:20 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	0.1035 ppm	0.0050 ppm	0.0311 ppm	0.0107 ppm	0.0051 ppm	0.0991 ppm
Concentration per Run 1	0.0078 ppm	0.0970 ppm	0.0047 ppm	0.0328 ppm	0.0107 ppm	0.0051 ppm	0.0983 ppm
Concentration per Run 2	0.0075 ppm	0.1073 ppm	0.0043 ppm	0.0299 ppm	0.0108 ppm	0.0051 ppm	0.0996 ppm
Concentration per Run 3	0.0080 ppm	0.1062 ppm	0.0059 ppm	0.0307 ppm	0.0106 ppm	0.0051 ppm	0.0996 ppm
Recovery Percentage 1	110.637 %	103.485 %	99.902 %	103.746 %	107.005 %	101.956 %	99.148 %
Concentration RSD	3.0 %	5.4 %	16.5 %	4.7 %	0.6 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0207 ppm	0.0108 ppm	0.0107 ppm	0.0527 ppm	2.7973 ppm	**0.0125 ppm**
Concentration per Run 1	0.0042 ppm	0.0208 ppm	0.0107 ppm	0.0104 ppm	0.0535 ppm	2.7823 ppm	0.0121 ppm
Concentration per Run 2	0.0041 ppm	0.0206 ppm	0.0108 ppm	0.0109 ppm	0.0520 ppm	2.7680 ppm	0.0125 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0107 ppm	0.0109 ppm	0.0524 ppm	2.8415 ppm	0.0128 ppm
Recovery Percentage 1	83.866 %	103.714 %	107.586 %	107.006 %	105.302 %	111.891 %	124.771 %
Concentration RSD	1.3 %	0.5 %	0.7 %	2.7 %	1.5 %	1.4 %	**2.7 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1061 ppm	0.0109 ppm	0.0517 ppm	2.2278 ppm	0.0267 ppm	0.0109 ppm	0.0507 ppm
Concentration per Run 1	0.1062 ppm	0.0109 ppm	0.0512 ppm	2.2291 ppm	0.0270 ppm	0.0104 ppm	0.0484 ppm
Concentration per Run 2	0.1071 ppm	0.0108 ppm	0.0516 ppm	2.2313 ppm	0.0280 ppm	0.0115 ppm	0.0518 ppm
Concentration per Run 3	0.1050 ppm	0.0110 ppm	0.0522 ppm	2.2232 ppm	0.0251 ppm	0.0108 ppm	0.0517 ppm
Recovery Percentage 1	106.110 %	109.075 %	103.344 %	111.392 %	106.922 %	109.137 %	101.329 %
Concentration RSD	1.0 %	0.9 %	1.0 %	0.2 %	5.5 %	4.9 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0074 ppm**	0.5472 ppm	0.0549 ppm	0.0102 ppm	0.0525 ppm	0.0196 ppm	0.0101 ppm
Concentration per Run 1	0.0070 ppm	0.5445 ppm	0.0549 ppm	0.0102 ppm	0.0525 ppm	0.0191 ppm	0.0099 ppm
Concentration per Run 2	0.0074 ppm	0.5497 ppm	0.0552 ppm	0.0102 ppm	0.0526 ppm	0.0195 ppm	0.0100 ppm
Concentration per Run 3	0.0079 ppm	0.5474 ppm	0.0546 ppm	0.0103 ppm	0.0523 ppm	0.0202 ppm	0.0103 ppm
Recovery Percentage 1	74.395 %	109.437 %	109.852 %	102.168 %	104.978 %	98.157 %	100.611 %
Concentration RSD	**6.2 %**	0.5 %	0.5 %	0.5 %	0.3 %	2.8 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0057 ppm	98.9009 %	100.5405 %	99.4512 %	99.2358 %	98.8687 %	98.9622 %
Concentration per Run 1	0.0057 ppm	98.3028 %	100.4907 %	99.6090 %	99.2987 %	98.8874 %	99.5438 %
Concentration per Run 2	0.0060 ppm	98.7204 %	100.3490 %	99.3804 %	98.8931 %	98.4678 %	98.8041 %
Concentration per Run 3	0.0053 ppm	99.6796 %	100.7819 %	99.3642 %	99.5155 %	99.2510 %	98.5386 %
Recovery Percentage 1	113.225 %						
Concentration RSD	5.3 %	0.7 %	0.2 %	0.1 %	0.3 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICSA
Analysis started at: 6/18/2024 5:39:34 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	491.1323 ppm	-0.0007 ppm	0.0017 ppm	0.0021 ppm	0.0000 ppm	464.8571 ppm
Concentration per Run 1	0.0004 ppm	490.7738 ppm	-0.0028 ppm	-0.0002 ppm	0.0021 ppm	0.0000 ppm	464.1038 ppm
Concentration per Run 2	-0.0001 ppm	490.3928 ppm	0.0022 ppm	0.0024 ppm	0.0022 ppm	0.0000 ppm	464.8869 ppm
Concentration per Run 3	0.0005 ppm	492.2305 ppm	-0.0016 ppm	0.0028 ppm	0.0019 ppm	0.0000 ppm	465.5807 ppm
Recovery Percentage 1	4.158 %	491,132.346 %	-24.025 %	5.602 %	20.707 %	0.664 %	464,857.123 %
Concentration RSD	103.3 %	0.2 %	363.1 %	96.6 %	7.1 %	88.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0010 ppm	-0.0009 ppm	-0.0010 ppm	183.9834 ppm	-0.0046 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	-0.0019 ppm	-0.0008 ppm	-0.0005 ppm	183.1993 ppm	0.0023 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	-0.0005 ppm	-0.0009 ppm	-0.0011 ppm	184.4078 ppm	-0.0203 ppm	0.0006 ppm
Concentration per Run 3	-0.0005 ppm	-0.0007 ppm	-0.0010 ppm	-0.0013 ppm	184.3431 ppm	0.0042 ppm	0.0000 ppm
Recovery Percentage 1	-6.080 %	-5.158 %	-8.999 %	-9.596 %	367,966.802 %	-0.185 %	2.593 %
Concentration RSD	73.7 %	70.4 %	11.1 %	41.4 %	0.4 %	294.2 %	134.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	474.7364 ppm	0.0018 ppm	-0.0035 ppm	0.0210 ppm	-0.0003 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 1	472.0787 ppm	0.0019 ppm	-0.0032 ppm	0.0206 ppm	-0.0006 ppm	-0.0008 ppm	-0.0049 ppm
Concentration per Run 2	474.0769 ppm	0.0018 ppm	-0.0027 ppm	0.0162 ppm	-0.0009 ppm	0.0006 ppm	-0.0010 ppm
Concentration per Run 3	478.0536 ppm	0.0018 ppm	-0.0047 ppm	0.0261 ppm	0.0005 ppm	0.0023 ppm	0.0046 ppm
Recovery Percentage 1	474,736.388 %	18.110 %	-7.003 %	1.048 %	-1.340 %	6.978 %	-0.903 %
Concentration RSD	0.6 %	3.3 %	30.2 %	23.8 %	213.3 %	218.5 %	1,050.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0177 ppm	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0017 ppm	0.0006 ppm
Concentration per Run 1	-0.0016 ppm	0.0171 ppm	0.0003 ppm	0.0003 ppm	-0.0005 ppm	0.0032 ppm	0.0006 ppm
Concentration per Run 2	-0.0006 ppm	0.0163 ppm	-0.0006 ppm	0.0005 ppm	-0.0010 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	-0.0048 ppm	0.0198 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0018 ppm	0.0008 ppm
Recovery Percentage 1	-23.367 %	3.546 %	0.003 %	3.107 %	-6.001 %	8.724 %	6.284 %
Concentration RSD	94.2 %	10.3 %	42,658.9 %	42.2 %	53.2 %	81.5 %	35.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	90.7847 %	96.1784 %	82.7558 %	86.2868 %	93.9758 %	86.5529 %
Concentration per Run 1	0.0005 ppm	90.6900 %	96.8994 %	82.6943 %	86.0080 %	94.6728 %	86.3449 %
Concentration per Run 2	-0.0001 ppm	90.9283 %	95.8648 %	83.0810 %	86.4090 %	93.4496 %	86.8505 %
Concentration per Run 3	-0.0003 ppm	90.7358 %	95.7709 %	82.4920 %	86.4433 %	93.8049 %	86.4633 %
Recovery Percentage 1	0.307 %						
Concentration RSD	2,626.7 %	0.1 %	0.7 %	0.4 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LLOQ 0.01ppm
Analysis started at: 6/18/2024 6:05:59 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0110 ppm	-0.0030 ppm	0.0095 ppm	0.0109 ppm	0.0107 ppm	0.0104 ppm	0.0135 ppm
Concentration per Run 1	0.0110 ppm	0.0024 ppm	0.0077 ppm	0.0099 ppm	0.0108 ppm	0.0105 ppm	0.0124 ppm
Concentration per Run 2	0.0110 ppm	-0.0050 ppm	0.0109 ppm	0.0106 ppm	0.0106 ppm	0.0105 ppm	0.0122 ppm
Concentration per Run 3	0.0110 ppm	-0.0065 ppm	0.0098 ppm	0.0123 ppm	0.0107 ppm	0.0104 ppm	0.0160 ppm
Recovery Percentage 1	0.000 %	0.000 %	94.819 %	109.252 %	107.140 %	0.000 %	0.000 %
Concentration RSD	0.4 %	157.8 %	17.1 %	11.7 %	1.1 %	0.6 %	15.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0110 ppm	0.0107 ppm	0.0107 ppm	0.0105 ppm	0.0121 ppm	0.1259 ppm	0.0115 ppm
Concentration per Run 1	0.0110 ppm	0.0112 ppm	0.0108 ppm	0.0110 ppm	0.0098 ppm	0.1391 ppm	0.0129 ppm
Concentration per Run 2	0.0110 ppm	0.0101 ppm	0.0109 ppm	0.0103 ppm	0.0140 ppm	0.1383 ppm	0.0132 ppm
Concentration per Run 3	0.0109 ppm	0.0107 ppm	0.0104 ppm	0.0103 ppm	0.0127 ppm	0.1003 ppm	0.0083 ppm
Recovery Percentage 1	0.000 %	107.048 %	107.304 %	105.083 %	0.000 %	0.000 %	115.044 %
Concentration RSD	0.6 %	5.2 %	2.3 %	3.6 %	17.8 %	17.6 %	23.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0105 ppm	0.0106 ppm	0.0076 ppm	0.2342 ppm	0.0118 ppm	0.0115 ppm	0.0096 ppm
Concentration per Run 1	0.0101 ppm	0.0105 ppm	0.0076 ppm	0.2351 ppm	0.0117 ppm	0.0105 ppm	0.0088 ppm
Concentration per Run 2	0.0110 ppm	0.0106 ppm	0.0074 ppm	0.2333 ppm	0.0123 ppm	0.0122 ppm	0.0114 ppm
Concentration per Run 3	0.0104 ppm	0.0106 ppm	0.0079 ppm	0.2341 ppm	0.0115 ppm	0.0117 ppm	0.0086 ppm
Recovery Percentage 1	0.000 %	105.709 %	76.201 %	0.000 %	118.040 %	114.667 %	0.000 %
Concentration RSD	4.5 %	0.6 %	2.9 %	0.4 %	3.7 %	7.8 %	16.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0096 ppm	0.1132 ppm	0.0108 ppm	0.0108 ppm	0.0107 ppm	0.0107 ppm	0.0108 ppm
Concentration per Run 1	0.0090 ppm	0.1169 ppm	0.0099 ppm	0.0108 ppm	0.0109 ppm	0.0104 ppm	0.0108 ppm
Concentration per Run 2	0.0095 ppm	0.1109 ppm	0.0114 ppm	0.0108 ppm	0.0107 ppm	0.0112 ppm	0.0109 ppm
Concentration per Run 3	0.0102 ppm	0.1120 ppm	0.0111 ppm	0.0108 ppm	0.0104 ppm	0.0107 ppm	0.0109 ppm
Recovery Percentage 1	95.888 %	0.000 %	107.918 %	108.021 %	106.573 %	107.454 %	108.488 %
Concentration RSD	6.0 %	2.8 %	7.7 %	0.1 %	2.5 %	3.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0117 ppm	96.0598 %	98.8742 %	98.2961 %	102.2533 %	101.4049 %	101.9945 %
Concentration per Run 1	0.0121 ppm	95.0903 %	98.5100 %	98.0374 %	102.0679 %	101.4263 %	101.9805 %
Concentration per Run 2	0.0116 ppm	96.4168 %	99.6371 %	98.2650 %	102.4928 %	102.1878 %	101.8910 %
Concentration per Run 3	0.0115 ppm	96.6725 %	98.4755 %	98.5859 %	102.1992 %	100.6006 %	102.1122 %
Recovery Percentage 1	117.295 %						
Concentration RSD	2.8 %	0.9 %	0.7 %	0.3 %	0.2 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 500 Fe pass
Analysis started at: 6/18/2024 6:10:06 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0474 ppm	0.0003 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	-0.0005 ppm	0.0430 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0006 ppm	0.0519 ppm	0.0015 ppm	0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 3	-0.0005 ppm	0.0472 ppm	-0.0010 ppm	0.0037 ppm	0.0005 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	9.0 %	9.4 %	387.4 %	74.2 %	62.3 %	934.6 %	41.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0025 ppm	-0.0008 ppm	-0.0010 ppm	457.4613 ppm	-0.0429 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	-0.0031 ppm	-0.0022 ppm	-0.0010 ppm	456.6740 ppm	-0.0337 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	-0.0020 ppm	0.0022 ppm	-0.0015 ppm	457.1552 ppm	-0.0559 ppm	-0.0026 ppm
Concentration per Run 3	0.0000 ppm	-0.0024 ppm	-0.0023 ppm	-0.0005 ppm	458.5547 ppm	-0.0391 ppm	0.0007 ppm
Concentration RSD	209.8 %	21.8 %	335.2 %	51.5 %	0.2 %	27.0 %	799.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0037 ppm	0.0007 ppm	-0.0055 ppm	0.0071 ppm	-0.0007 ppm	0.0001 ppm	0.0106 ppm
Concentration per Run 1	0.0046 ppm	0.0007 ppm	-0.0057 ppm	0.0113 ppm	-0.0011 ppm	-0.0002 ppm	0.0113 ppm
Concentration per Run 2	0.0042 ppm	0.0008 ppm	-0.0052 ppm	0.0016 ppm	-0.0003 ppm	0.0002 ppm	0.0109 ppm
Concentration per Run 3	0.0023 ppm	0.0006 ppm	-0.0055 ppm	0.0083 ppm	-0.0009 ppm	0.0004 ppm	0.0096 ppm
Concentration RSD	32.9 %	7.8 %	3.9 %	70.1 %	56.6 %	216.8 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0026 ppm	0.0008 ppm	0.0004 ppm	-0.0004 ppm	-0.0009 ppm	0.0019 ppm
Concentration per Run 1	-0.0006 ppm	0.0022 ppm	0.0007 ppm	0.0004 ppm	-0.0005 ppm	-0.0023 ppm	0.0021 ppm
Concentration per Run 2	-0.0007 ppm	0.0038 ppm	0.0010 ppm	0.0004 ppm	-0.0005 ppm	-0.0004 ppm	0.0020 ppm
Concentration per Run 3	-0.0028 ppm	0.0019 ppm	0.0007 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0016 ppm
Concentration RSD	87.8 %	39.8 %	23.3 %	28.6 %	18.5 %	133.7 %	11.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	99.9493 %	102.8860 %	94.7900 %	95.9084 %	100.2994 %	97.6434 %
Concentration per Run 1	-0.0005 ppm	100.1166 %	102.8272 %	95.5784 %	95.6304 %	100.6209 %	97.9843 %
Concentration per Run 2	-0.0005 ppm	100.8498 %	103.1461 %	94.8650 %	96.8641 %	100.1633 %	97.8981 %
Concentration per Run 3	-0.0005 ppm	98.8816 %	102.6847 %	93.9267 %	95.2309 %	100.1139 %	97.0478 %
Concentration RSD	3.4 %	1.0 %	0.2 %	0.9 %	0.9 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 1000 Ca pass
Analysis started at: 6/18/2024 6:14:01 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0021 ppm	-0.0002 ppm	0.0004 ppm	0.0024 ppm	0.0000 ppm	981.0501 ppm
Concentration per Run 1	-0.0010 ppm	-0.0027 ppm	-0.0019 ppm	0.0027 ppm	0.0023 ppm	0.0000 ppm	982.8873 ppm
Concentration per Run 2	0.0007 ppm	-0.0018 ppm	0.0018 ppm	-0.0010 ppm	0.0025 ppm	-0.0001 ppm	977.5361 ppm
Concentration per Run 3	-0.0001 ppm	-0.0018 ppm	-0.0004 ppm	-0.0005 ppm	0.0025 ppm	0.0000 ppm	982.7270 ppm
Concentration RSD	550.9 %	25.0 %	1,085.7 %	527.0 %	4.5 %	270.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0010 ppm	0.0157 ppm	0.0314 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0013 ppm	0.0168 ppm	0.0378 ppm	0.0023 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0011 ppm	0.0144 ppm	0.0033 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0158 ppm	0.0530 ppm	-0.0003 ppm
Concentration RSD	40.3 %	64.2 %	25.0 %	47.6 %	7.9 %	81.2 %	3,684.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0026 ppm	0.0007 ppm	-0.0029 ppm	0.0158 ppm	0.0007 ppm	0.0017 ppm	-0.0036 ppm
Concentration per Run 1	0.0027 ppm	0.0006 ppm	-0.0024 ppm	0.0109 ppm	0.0008 ppm	0.0025 ppm	-0.0034 ppm
Concentration per Run 2	0.0030 ppm	0.0010 ppm	-0.0031 ppm	0.0222 ppm	0.0011 ppm	0.0013 ppm	-0.0014 ppm
Concentration per Run 3	0.0020 ppm	0.0006 ppm	-0.0031 ppm	0.0144 ppm	0.0001 ppm	0.0014 ppm	-0.0061 ppm
Concentration RSD	21.7 %	30.8 %	14.2 %	36.5 %	71.9 %	38.1 %	64.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	0.0148 ppm	-0.0009 ppm	-0.0001 ppm	-0.0012 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.0137 ppm	-0.0017 ppm	-0.0002 ppm	-0.0013 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0014 ppm	0.0195 ppm	0.0002 ppm	0.0000 ppm	-0.0011 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 3	0.0033 ppm	0.0114 ppm	-0.0013 ppm	-0.0001 ppm	-0.0011 ppm	-0.0019 ppm	0.0002 ppm
Concentration RSD	189.2 %	28.0 %	108.4 %	76.7 %	11.8 %	50.5 %	73.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	85.2980 %	94.8138 %	83.2474 %	89.6549 %	96.3053 %	89.5217 %
Concentration per Run 1	0.0022 ppm	84.3898 %	94.0975 %	82.3930 %	89.7293 %	95.6528 %	89.1440 %
Concentration per Run 2	0.0024 ppm	85.2934 %	95.5323 %	83.2452 %	89.5048 %	96.8876 %	89.5891 %
Concentration per Run 3	0.0024 ppm	86.2108 %	94.8117 %	84.1038 %	89.7306 %	96.3754 %	89.8320 %
Concentration RSD	4.7 %	1.1 %	0.8 %	1.0 %	0.1 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: SIC Multi
Analysis started at: 6/18/2024 6:28:11 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0016 ppm	0.0011 ppm	0.0024 ppm	0.0002 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 1	-0.0011 ppm	-0.0046 ppm	-0.0013 ppm	0.0028 ppm	0.0002 ppm	-0.0013 ppm	0.0038 ppm
Concentration per Run 2	-0.0003 ppm	0.0095 ppm	0.0017 ppm	0.0017 ppm	0.0003 ppm	-0.0013 ppm	-0.0033 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	0.0028 ppm	0.0029 ppm	0.0002 ppm	-0.0015 ppm	0.0034 ppm
Recovery Percentage 1	-9.737 %	1.585 %	35.979 %	8.124 %	2.232 %	-34.406 %	1.280 %
Concentration RSD	63.5 %	455.7 %	195.8 %	27.9 %	22.8 %	11.0 %	310.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	19.8533 ppm	-0.0014 ppm	0.0131 ppm	-0.0058 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	19.7991 ppm	-0.0014 ppm	0.0133 ppm	0.0034 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	19.8515 ppm	-0.0016 ppm	0.0118 ppm	-0.0253 ppm	-0.0007 ppm
Concentration per Run 3	0.0001 ppm	-0.0011 ppm	19.9093 ppm	-0.0013 ppm	0.0142 ppm	0.0046 ppm	0.0013 ppm
Recovery Percentage 1	0.158 %	-3.159 %	198,533.005 %	-14.357 %	26.232 %	-0.231 %	2.693 %
Concentration RSD	756.2 %	68.8 %	0.3 %	13.3 %	9.4 %	293.9 %	377.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0026 ppm	20.0992 ppm	-0.0021 ppm	0.0078 ppm	0.0004 ppm	-0.0032 ppm	-0.0012 ppm
Concentration per Run 1	-0.0033 ppm	20.0723 ppm	-0.0022 ppm	0.0130 ppm	0.0001 ppm	-0.0025 ppm	-0.0007 ppm
Concentration per Run 2	-0.0019 ppm	20.1142 ppm	-0.0020 ppm	0.0037 ppm	-0.0001 ppm	-0.0033 ppm	-0.0005 ppm
Concentration per Run 3	-0.0025 ppm	20.1110 ppm	-0.0021 ppm	0.0066 ppm	0.0011 ppm	-0.0038 ppm	-0.0026 ppm
Recovery Percentage 1	-2.604 %	200,991.795 %	-4.167 %	0.390 %	1.441 %	-31.990 %	-2.495 %
Concentration RSD	26.8 %	0.1 %	4.5 %	61.3 %	172.3 %	20.3 %	90.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	-0.0114 ppm	-0.0044 ppm	0.0005 ppm	19.5042 ppm	-0.0076 ppm	10.0204 ppm
Concentration per Run 1	-0.0018 ppm	-0.0292 ppm	-0.0038 ppm	0.0005 ppm	19.3916 ppm	-0.0082 ppm	9.9317 ppm
Concentration per Run 2	-0.0048 ppm	-0.0141 ppm	-0.0049 ppm	0.0005 ppm	19.5143 ppm	-0.0076 ppm	10.0347 ppm
Concentration per Run 3	-0.0046 ppm	0.0090 ppm	-0.0045 ppm	0.0006 ppm	19.6066 ppm	-0.0072 ppm	10.0948 ppm
Recovery Percentage 1	-37.573 %	-2.286 %	-8.772 %	5.353 %	195,041.693 %	-38.174 %	100,204.113 %
Concentration RSD	44.6 %	168.4 %	12.0 %	5.6 %	0.6 %	6.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	100.9181 %	105.1860 %	86.4704 %	97.6161 %	102.6872 %	99.5438 %
Concentration per Run 1	0.0003 ppm	101.5090 %	104.9401 %	86.4575 %	97.4725 %	102.4358 %	99.1911 %
Concentration per Run 2	0.0004 ppm	100.6074 %	104.8187 %	86.7382 %	97.5235 %	102.4733 %	100.0394 %
Concentration per Run 3	0.0003 ppm	100.6378 %	105.7992 %	86.2156 %	97.8521 %	103.1526 %	99.4009 %
Recovery Percentage 1	6.688 %						
Concentration RSD	24.9 %	0.5 %	0.5 %	0.3 %	0.2 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 40 Mn pass
Analysis started at: 6/18/2024 6:32:15 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0112 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0004 ppm	-0.0162 ppm	0.0014 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0059 ppm
Concentration per Run 2	-0.0010 ppm	-0.0009 ppm	-0.0020 ppm	0.0012 ppm	-0.0002 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run 3	-0.0009 ppm	-0.0166 ppm	0.0012 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0040 ppm
Concentration RSD	43.4 %	79.7 %	866.0 %	248.0 %	1,870.0 %	85.9 %	38.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0013 ppm	-0.0028 ppm	-0.0038 ppm	0.0429 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0013 ppm	-0.0029 ppm	-0.0034 ppm	0.0206 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0012 ppm	-0.0027 ppm	-0.0053 ppm	0.0491 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0013 ppm	-0.0029 ppm	-0.0028 ppm	0.0591 ppm	-0.0010 ppm
Concentration RSD	909.0 %	58.9 %	6.4 %	4.9 %	34.6 %	46.6 %	57.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0204 ppm	41.5234 ppm	-0.0026 ppm	0.0041 ppm	0.0006 ppm	0.0005 ppm	-0.0017 ppm
Concentration per Run 1	0.0212 ppm	41.5762 ppm	-0.0022 ppm	0.0054 ppm	0.0019 ppm	0.0020 ppm	-0.0061 ppm
Concentration per Run 2	0.0210 ppm	41.4797 ppm	-0.0028 ppm	0.0063 ppm	-0.0002 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 3	0.0190 ppm	41.5143 ppm	-0.0029 ppm	0.0006 ppm	0.0000 ppm	-0.0007 ppm	0.0023 ppm
Concentration RSD	6.0 %	0.1 %	14.7 %	74.2 %	208.0 %	267.2 %	240.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	0.0025 ppm	-0.0007 ppm	0.0001 ppm	0.0019 ppm	-0.0055 ppm	-0.0017 ppm
Concentration per Run 1	-0.0009 ppm	0.0023 ppm	-0.0006 ppm	0.0001 ppm	0.0022 ppm	-0.0052 ppm	-0.0013 ppm
Concentration per Run 2	-0.0052 ppm	0.0028 ppm	-0.0017 ppm	0.0001 ppm	0.0019 ppm	-0.0066 ppm	-0.0018 ppm
Concentration per Run 3	-0.0054 ppm	0.0024 ppm	0.0003 ppm	0.0002 ppm	0.0017 ppm	-0.0046 ppm	-0.0019 ppm
Concentration RSD	66.9 %	9.7 %	153.8 %	34.8 %	13.6 %	19.0 %	19.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.5020 %	100.5102 %	95.6981 %	98.0941 %	102.9178 %	99.9453 %
Concentration per Run 1	0.0006 ppm	91.5431 %	100.3927 %	95.6718 %	97.9131 %	102.9945 %	100.4391 %
Concentration per Run 2	0.0003 ppm	92.5530 %	100.9770 %	95.5932 %	97.8370 %	103.3753 %	99.8017 %
Concentration per Run 3	0.0007 ppm	93.4099 %	100.1610 %	95.8292 %	98.5322 %	102.3837 %	99.5949 %
Concentration RSD	36.7 %	1.0 %	0.4 %	0.1 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR Check
Analysis started at: 6/18/2024 6:36:12 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	0.0886 ppm	21.4039 ppm	19.1538 ppm	19.5148 ppm	4.9566 ppm	0.0131 ppm
Concentration per Run 1	0.0011 ppm	0.0892 ppm	21.3788 ppm	18.8846 ppm	19.4391 ppm	4.9503 ppm	0.0123 ppm
Concentration per Run 2	0.0020 ppm	0.0880 ppm	21.3332 ppm	19.2328 ppm	19.4784 ppm	4.9606 ppm	0.0139 ppm
Concentration per Run 3	0.0021 ppm	0.0886 ppm	21.4997 ppm	19.3441 ppm	19.6268 ppm	4.9589 ppm	0.0130 ppm
Recovery Percentage 1			107.019 %	95.769 %	97.574 %		0.000 %
Concentration RSD	30.3 %	0.7 %	0.4 %	1.3 %	0.5 %	0.1 %	6.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8497 ppm	4.8992 ppm	0.0006 ppm	19.5862 ppm	0.0328 ppm	502.0381 ppm	17.9876 ppm
Concentration per Run 1	4.7877 ppm	4.8311 ppm	0.0005 ppm	19.3567 ppm	0.0333 ppm	497.8509 ppm	17.8912 ppm
Concentration per Run 2	4.8644 ppm	4.9186 ppm	0.0011 ppm	19.6077 ppm	0.0353 ppm	500.3449 ppm	17.9296 ppm
Concentration per Run 3	4.8970 ppm	4.9479 ppm	0.0003 ppm	19.7941 ppm	0.0298 ppm	507.9186 ppm	18.1421 ppm
Recovery Percentage 1	96.994 %	97.984 %		97.931 %	0.000 %	100.408 %	89.938 %
Concentration RSD	1.2 %	1.2 %	67.4 %	1.1 %	8.4 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0043 ppm	0.0007 ppm	4.8447 ppm	413.6209 ppm	9.7421 ppm	50.6296 ppm	4.8708 ppm
Concentration per Run 1	-0.0059 ppm	0.0006 ppm	4.7068 ppm	413.8999 ppm	9.6559 ppm	50.5413 ppm	4.7504 ppm
Concentration per Run 2	-0.0037 ppm	0.0008 ppm	4.8567 ppm	413.1725 ppm	9.7538 ppm	50.6307 ppm	4.8977 ppm
Concentration per Run 3	-0.0033 ppm	0.0007 ppm	4.9706 ppm	413.7904 ppm	9.8166 ppm	50.7168 ppm	4.9644 ppm
Recovery Percentage 1		0.000 %	96.894 %	82.724 %	97.421 %	101.259 %	97.416 %
Concentration RSD	32.9 %	14.0 %	2.7 %	0.1 %	0.8 %	0.2 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.1514 ppm	21.6922 ppm	7.6349 ppm	4.8096 ppm	0.0074 ppm	4.9570 ppm	-0.0008 ppm
Concentration per Run 1	5.1522 ppm	21.2949 ppm	7.5649 ppm	4.7914 ppm	0.0073 ppm	4.9595 ppm	-0.0005 ppm
Concentration per Run 2	5.1415 ppm	21.7348 ppm	7.6425 ppm	4.8186 ppm	0.0073 ppm	4.9501 ppm	-0.0008 ppm
Concentration per Run 3	5.1605 ppm	22.0470 ppm	7.6975 ppm	4.8188 ppm	0.0077 ppm	4.9613 ppm	-0.0011 ppm
Recovery Percentage 1	103.028 %	108.461 %	76.349 %	96.192 %	0.000 %	99.140 %	0.000 %
Concentration RSD	0.2 %	1.7 %	0.9 %	0.3 %	2.7 %	0.1 %	35.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.9663 ppm	95.6114 %	101.0005 %	90.5607 %	90.4860 %	97.0793 %	88.8158 %
Concentration per Run 1	18.8207 ppm	96.3982 %	101.7567 %	90.8640 %	90.2768 %	98.1649 %	89.0046 %
Concentration per Run 2	18.9803 ppm	95.6316 %	101.4242 %	90.3555 %	90.7586 %	97.4144 %	88.7094 %
Concentration per Run 3	19.0978 ppm	94.8043 %	99.8207 %	90.4625 %	90.4227 %	95.6587 %	88.7335 %
Recovery Percentage 1	94.831 %						
Concentration RSD	0.7 %	0.8 %	1.0 %	0.3 %	0.3 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 500 Na
Analysis started at: 6/18/2024 6:40:10 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0022 ppm	0.0077 ppm	0.0097 ppm	0.0005 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 1	0.0003 ppm	-0.0089 ppm	0.0080 ppm	0.0098 ppm	0.0004 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 2	0.0003 ppm	-0.0099 ppm	0.0077 ppm	0.0105 ppm	0.0004 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 3	0.0005 ppm	0.0122 ppm	0.0074 ppm	0.0090 ppm	0.0006 ppm	0.0002 ppm	0.0082 ppm
Concentration RSD	28.1 %	569.8 %	4.3 %	7.6 %	15.9 %	41.7 %	51.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.7059 ppm	0.0031 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0008 ppm	-0.0007 ppm	0.7285 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.6979 ppm	0.0048 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0014 ppm	0.0015 ppm	0.6915 ppm	0.0025 ppm
Concentration RSD	77.6 %	132.1 %	1,048.9 %	53.0 %	883.8 %	2.8 %	50.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0217 ppm	477.3799 ppm	0.0009 ppm	0.0025 ppm	0.0154 ppm
Concentration per Run 1	0.0005 ppm	0.0002 ppm	0.0232 ppm	477.8939 ppm	0.0011 ppm	0.0024 ppm	0.0185 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0209 ppm	479.7157 ppm	0.0008 ppm	0.0020 ppm	0.0136 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0210 ppm	474.5302 ppm	0.0008 ppm	0.0030 ppm	0.0140 ppm
Concentration RSD	819.6 %	44.9 %	5.9 %	0.6 %	15.2 %	20.3 %	17.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.0047 ppm	0.0020 ppm	0.0003 ppm	-0.0003 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0058 ppm	0.0020 ppm	0.0004 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	0.0027 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0042 ppm	0.0013 ppm	0.0002 ppm	-0.0001 ppm	0.0019 ppm	0.0000 ppm
Concentration RSD	83.7 %	21.7 %	35.8 %	37.9 %	67.7 %	154.5 %	165.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	89.8414 %	98.2076 %	91.0338 %	93.3216 %	98.4943 %	94.6771 %
Concentration per Run 1	0.0013 ppm	89.0388 %	97.7798 %	90.7617 %	93.3236 %	98.3411 %	94.7061 %
Concentration per Run 2	0.0012 ppm	90.1021 %	97.8041 %	90.9475 %	93.5873 %	98.2109 %	94.8999 %
Concentration per Run 3	0.0014 ppm	90.3832 %	99.0391 %	91.3922 %	93.0539 %	98.9308 %	94.4253 %
Concentration RSD	6.7 %	0.8 %	0.7 %	0.4 %	0.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: IEC 20 Ti +Si -Tl
Analysis started at: 6/18/2024 6:44:07 AM
Rack 1
Vial 6
Comment LDR +/-10% As OK

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0093 ppm	0.0030 ppm	0.0041 ppm	0.0000 ppm	-0.0009 ppm	0.0037 ppm
Concentration per Run 1	-0.0003 ppm	-0.0211 ppm	0.0027 ppm	0.0038 ppm	0.0001 ppm	-0.0009 ppm	0.0018 ppm
Concentration per Run 2	-0.0004 ppm	-0.0046 ppm	0.0024 ppm	0.0033 ppm	-0.0001 ppm	-0.0011 ppm	0.0047 ppm
Concentration per Run 3	-0.0008 ppm	-0.0022 ppm	0.0040 ppm	0.0051 ppm	0.0001 ppm	-0.0009 ppm	0.0044 ppm
Recovery Percentage 1	-6.795 %	-9.273 %	100.813 %	13.547 %	0.379 %	-23.511 %	3.662 %
Concentration RSD	58.4 %	110.9 %	28.1 %	22.6 %	212.8 %	11.8 %	43.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0009 ppm	-0.0016 ppm	0.1281 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	-0.0011 ppm	-0.0027 ppm	0.1375 ppm	-0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0007 ppm	0.0005 ppm	0.1158 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0008 ppm	-0.0008 ppm	-0.0027 ppm	0.1311 ppm	0.0007 ppm
Recovery Percentage 1	-1.372 %	-0.779 %	8.107 %	-8.716 %	-3.292 %	5.125 %	5.358 %
Concentration RSD	62.1 %	189.9 %	18.0 %	23.6 %	112.3 %	8.7 %	367.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0123 ppm	0.0002 ppm	0.0009 ppm	0.1142 ppm	0.0002 ppm	-0.0021 ppm	0.0076 ppm
Concentration per Run 1	-0.0124 ppm	0.0003 ppm	0.0010 ppm	0.1195 ppm	0.0000 ppm	-0.0028 ppm	0.0069 ppm
Concentration per Run 2	-0.0110 ppm	0.0002 ppm	0.0013 ppm	0.1036 ppm	0.0000 ppm	-0.0016 ppm	0.0083 ppm
Concentration per Run 3	-0.0135 ppm	0.0001 ppm	0.0004 ppm	0.1197 ppm	0.0006 ppm	-0.0020 ppm	0.0075 ppm
Recovery Percentage 1	-12.286 %	2.012 %	1.758 %	5.712 %	0.842 %	-21.138 %	15.180 %
Concentration RSD	10.3 %	34.7 %	52.2 %	8.1 %	162.7 %	29.9 %	9.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0039 ppm	-0.0039 ppm	0.0001 ppm	19.4561 ppm	0.0007 ppm	0.0027 ppm
Concentration per Run 1	0.0007 ppm	-0.0171 ppm	-0.0053 ppm	0.0002 ppm	19.3328 ppm	-0.0006 ppm	0.0026 ppm
Concentration per Run 2	-0.0020 ppm	-0.0041 ppm	-0.0029 ppm	0.0001 ppm	19.4941 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 3	0.0012 ppm	0.0096 ppm	-0.0035 ppm	0.0001 ppm	19.5414 ppm	0.0021 ppm	0.0029 ppm
Recovery Percentage 1	-0.268 %	-0.772 %	-7.769 %	0.976 %	194,561.155 %	3.340 %	26.970 %
Concentration RSD	6,356.2 %	347.0 %	32.5 %	48.5 %	0.6 %	199.0 %	6.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	101.8378 %	106.5910 %	87.5938 %	98.9847 %	104.1861 %	100.5254 %
Concentration per Run 1	0.0004 ppm	101.9373 %	106.6534 %	87.8273 %	98.9354 %	104.0626 %	100.5795 %
Concentration per Run 2	0.0004 ppm	101.7834 %	107.0277 %	87.6054 %	98.9814 %	104.8564 %	100.5825 %
Concentration per Run 3	0.0003 ppm	101.7927 %	106.0920 %	87.3489 %	99.0372 %	103.6394 %	100.4142 %
Recovery Percentage 1	8.008 %						
Concentration RSD	16.5 %	0.1 %	0.4 %	0.3 %	0.1 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: IEC 10 V +TI
Analysis started at: 6/18/2024 6:58:34 AM
Rack 1
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0123 ppm
Concentration per Run 1	0.0006 ppm	0.0004 ppm	0.0009 ppm	-0.0004 ppm	0.0002 ppm	-0.0002 ppm	0.0168 ppm
Concentration per Run 2	0.0006 ppm	-0.0077 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0114 ppm
Concentration per Run 3	0.0007 ppm	0.0006 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0088 ppm
Recovery Percentage 1	8.745 %	-2.195 %	-3.217 %	-0.071 %	0.040 %	-4.857 %	12.334 %
Concentration RSD	13.0 %	215.3 %	978.3 %	1,346.1 %	3,321.1 %	17.3 %	33.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0049 ppm	0.0536 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0006 ppm	0.0003 ppm	0.0014 ppm	0.0067 ppm	0.0489 ppm	0.0020 ppm
Concentration per Run 2	-0.0002 ppm	-0.0005 ppm	0.0002 ppm	0.0006 ppm	0.0037 ppm	0.0593 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0043 ppm	0.0524 ppm	-0.0009 ppm
Recovery Percentage 1	-2.592 %	-2.411 %	1.732 %	8.012 %	9.780 %	2.142 %	5.030 %
Concentration RSD	14.8 %	28.8 %	46.4 %	66.2 %	32.9 %	9.9 %	284.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0003 ppm	-0.0029 ppm	0.0494 ppm	0.0000 ppm	-0.0008 ppm	0.0028 ppm
Concentration per Run 1	0.0047 ppm	0.0003 ppm	-0.0024 ppm	0.0478 ppm	-0.0001 ppm	-0.0010 ppm	0.0017 ppm
Concentration per Run 2	0.0015 ppm	0.0002 ppm	-0.0029 ppm	0.0547 ppm	0.0001 ppm	-0.0003 ppm	0.0065 ppm
Concentration per Run 3	0.0033 ppm	0.0004 ppm	-0.0033 ppm	0.0455 ppm	-0.0001 ppm	-0.0011 ppm	0.0003 ppm
Recovery Percentage 1	3.154 %	3.201 %	-5.764 %	2.468 %	-0.126 %	-7.774 %	5.691 %
Concentration RSD	51.2 %	33.0 %	15.3 %	9.7 %	321.1 %	58.5 %	114.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0010 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	**10.6101 ppm**
Concentration per Run 1	-0.0003 ppm	-0.0016 ppm	-0.0011 ppm	0.0001 ppm	0.0004 ppm	-0.0029 ppm	10.6390 ppm
Concentration per Run 2	-0.0004 ppm	-0.0021 ppm	0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	10.5778 ppm
Concentration per Run 3	-0.0015 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0039 ppm	10.6136 ppm
Recovery Percentage 1	-7.276 %	-0.205 %	-0.399 %	2.213 %	3.536 %	2.567 %	106,101.360 %
Concentration RSD	94.4 %	135.3 %	398.2 %	50.1 %	34.5 %	659.4 %	**0.3 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	104.1628 %	105.0534 %	104.9753 %	102.5214 %	102.5346 %	102.4674 %
Concentration per Run 1	0.0007 ppm	103.7752 %	104.6492 %	105.1638 %	102.2058 %	102.5946 %	102.6746 %
Concentration per Run 2	0.0008 ppm	104.4602 %	104.9475 %	104.9329 %	102.8371 %	102.2786 %	102.5442 %
Concentration per Run 3	0.0009 ppm	104.2530 %	105.5635 %	104.8291 %	102.5214 %	102.7306 %	102.1835 %
Recovery Percentage 1	15.573 %						
Concentration RSD	13.1 %	0.3 %	0.4 %	0.2 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 7:16:56 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5094 ppm	0.5005 ppm	0.4812 ppm	0.4962 ppm	0.5155 ppm	0.5204 ppm	0.5045 ppm
Concentration per Run 1	0.5076 ppm	0.4972 ppm	0.4780 ppm	0.4966 ppm	0.5165 ppm	0.5201 ppm	0.5042 ppm
Concentration per Run 2	0.5090 ppm	0.5036 ppm	0.4800 ppm	0.4954 ppm	0.5149 ppm	0.5195 ppm	0.5013 ppm
Concentration per Run 3	0.5114 ppm	0.5006 ppm	0.4857 ppm	0.4967 ppm	0.5150 ppm	0.5217 ppm	0.5079 ppm
Recovery Percentage 1	101.871 %	100.094 %	96.245 %	99.245 %	103.098 %	104.085 %	100.891 %
Concentration RSD	0.4 %	0.6 %	0.8 %	0.1 %	0.2 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5108 ppm	0.5157 ppm	0.5085 ppm	0.5005 ppm	0.5252 ppm	5.2704 ppm	0.4938 ppm
Concentration per Run 1	0.5094 ppm	0.5161 ppm	0.5068 ppm	0.5000 ppm	0.5237 ppm	5.3132 ppm	0.5012 ppm
Concentration per Run 2	0.5118 ppm	0.5156 ppm	0.5085 ppm	0.5014 ppm	0.5248 ppm	5.2469 ppm	0.4878 ppm
Concentration per Run 3	0.5113 ppm	0.5154 ppm	0.5102 ppm	0.4999 ppm	0.5271 ppm	5.2512 ppm	0.4925 ppm
Recovery Percentage 1	102.165 %	103.137 %	101.699 %	100.091 %	105.040 %	105.409 %	98.766 %
Concentration RSD	0.3 %	0.1 %	0.3 %	0.2 %	0.3 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4984 ppm	0.5081 ppm	0.5124 ppm	10.5095 ppm	0.5176 ppm	0.5096 ppm	0.4972 ppm
Concentration per Run 1	0.4969 ppm	0.5086 ppm	0.5059 ppm	10.5089 ppm	0.5163 ppm	0.5119 ppm	0.4974 ppm
Concentration per Run 2	0.4995 ppm	0.5061 ppm	0.5140 ppm	10.5317 ppm	0.5191 ppm	0.5095 ppm	0.4962 ppm
Concentration per Run 3	0.4988 ppm	0.5098 ppm	0.5173 ppm	10.4880 ppm	0.5174 ppm	0.5074 ppm	0.4981 ppm
Recovery Percentage 1	99.684 %	101.628 %	102.480 %	105.095 %	103.517 %	101.916 %	99.447 %
Concentration RSD	0.3 %	0.4 %	1.1 %	0.2 %	0.3 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4884 ppm	5.2326 ppm	0.5307 ppm	0.5130 ppm	0.5173 ppm	0.5111 ppm	0.5076 ppm
Concentration per Run 1	0.4865 ppm	5.2235 ppm	0.5314 ppm	0.5116 ppm	0.5157 ppm	0.5125 ppm	0.5063 ppm
Concentration per Run 2	0.4900 ppm	5.2303 ppm	0.5318 ppm	0.5127 ppm	0.5179 ppm	0.5104 ppm	0.5087 ppm
Concentration per Run 3	0.4887 ppm	5.2441 ppm	0.5288 ppm	0.5148 ppm	0.5183 ppm	0.5105 ppm	0.5078 ppm
Recovery Percentage 1	97.683 %	99.669 %	106.135 %	102.605 %	103.459 %	102.228 %	101.519 %
Concentration RSD	0.4 %	0.2 %	0.3 %	0.3 %	0.3 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5127 ppm	103.8054 %	103.4147 %	102.3289 %	101.1480 %	100.6509 %	100.4735 %
Concentration per Run 1	0.5107 ppm	104.2969 %	103.4180 %	102.5530 %	101.7644 %	100.9420 %	100.7146 %
Concentration per Run 2	0.5155 ppm	103.2497 %	103.2085 %	102.2191 %	100.7258 %	100.1623 %	100.4111 %
Concentration per Run 3	0.5118 ppm	103.8696 %	103.6175 %	102.2145 %	100.9537 %	100.8485 %	100.2949 %
Recovery Percentage 1	102.539 %						
Concentration RSD	0.5 %	0.5 %	0.2 %	0.2 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 7:21:06 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0032 ppm	0.0014 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 1	0.0004 ppm	0.0025 ppm	0.0020 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0013 ppm
Concentration per Run 2	0.0009 ppm	-0.0045 ppm	0.0022 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm	-0.0046 ppm
Concentration per Run 3	0.0003 ppm	-0.0076 ppm	-0.0001 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	-0.0046 ppm
Recovery Percentage 1	7.574 %	-3.190 %	46.513 %	2.035 %	-0.286 %	2.079 %	-3.492 %
Concentration RSD	67.2 %	162.3 %	90.9 %	278.1 %	813.4 %	28.1 %	55.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0100 ppm	0.0378 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0083 ppm	0.0179 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0004 ppm	0.0106 ppm	0.0545 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0110 ppm	0.0410 ppm	0.0018 ppm
Recovery Percentage 1	1.491 %	-0.257 %	-2.332 %	2.052 %	19.979 %	1.512 %	7.974 %
Concentration RSD	59.7 %	1,187.5 %	100.1 %	118.6 %	14.3 %	48.9 %	179.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0003 ppm	-0.0010 ppm	0.0170 ppm	0.0011 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 1	-0.0007 ppm	0.0005 ppm	-0.0011 ppm	0.0222 ppm	0.0013 ppm	0.0011 ppm	0.0042 ppm
Concentration per Run 2	-0.0021 ppm	0.0003 ppm	-0.0009 ppm	0.0086 ppm	0.0011 ppm	-0.0012 ppm	-0.0041 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	-0.0010 ppm	0.0202 ppm	0.0008 ppm	-0.0007 ppm	-0.0015 ppm
Recovery Percentage 1	-1.378 %	2.879 %	-1.971 %	0.849 %	4.352 %	-2.640 %	-0.966 %
Concentration RSD	50.0 %	72.7 %	8.3 %	43.1 %	26.5 %	463.1 %	877.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0020 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0019 ppm	0.0009 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0014 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0016 ppm	0.0035 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Recovery Percentage 1	0.020 %	0.393 %	0.166 %	2.185 %	0.157 %	-0.730 %	-2.178 %
Concentration RSD	91,001.4 %	69.8 %	831.7 %	58.5 %	751.2 %	267.1 %	24.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	91.6420 %	98.4568 %	94.8726 %	97.7282 %	100.8591 %	98.7904 %
Concentration per Run 1	0.0011 ppm	90.8199 %	98.5252 %	94.4953 %	97.7681 %	101.4592 %	98.7368 %
Concentration per Run 2	0.0009 ppm	91.6844 %	98.3781 %	94.8417 %	97.7333 %	100.4953 %	98.7198 %
Concentration per Run 3	0.0009 ppm	92.4215 %	98.4673 %	95.2808 %	97.6831 %	100.6228 %	98.9146 %
Recovery Percentage 1	19.497 %						
Concentration RSD	10.3 %	0.9 %	0.1 %	0.4 %	0.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-1 WG1935256
Analysis started at: 6/18/2024 7:39:31 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0087 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 1	-0.0002 ppm	-0.0105 ppm	0.0005 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0125 ppm
Concentration per Run 2	0.0006 ppm	-0.0114 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 3	0.0001 ppm	-0.0041 ppm	-0.0008 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0114 ppm
Recovery Percentage 1	2.408 %	-8.661 %	4.148 %	-0.054 %	1.283 %	-0.526 %	11.719 %
Concentration RSD	247.6 %	45.9 %	663.4 %	4,968.8 %	76.6 %	59.3 %	5.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0926 ppm	0.0042 ppm	0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0004 ppm	-0.0002 ppm	0.0916 ppm	0.0074 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0004 ppm	0.0926 ppm	-0.0050 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0935 ppm	0.0103 ppm	0.0023 ppm
Recovery Percentage 1	-1.667 %	0.173 %	5.664 %	-2.044 %	185.200 %	0.169 %	12.461 %
Concentration RSD	25.0 %	1,597.1 %	44.6 %	109.0 %	1.0 %	191.7 %	72.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0036 ppm	0.0008 ppm	-0.0026 ppm	0.0259 ppm	0.0006 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 1	0.0030 ppm	0.0009 ppm	-0.0030 ppm	0.0276 ppm	0.0004 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0040 ppm	0.0008 ppm	-0.0028 ppm	0.0229 ppm	0.0002 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.0037 ppm	0.0006 ppm	-0.0022 ppm	0.0271 ppm	0.0012 ppm	-0.0007 ppm	-0.0017 ppm
Recovery Percentage 1	3.604 %	7.625 %	-5.271 %	1.293 %	2.335 %	-2.973 %	-0.942 %
Concentration RSD	14.4 %	16.6 %	16.5 %	10.0 %	90.9 %	161.4 %	297.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0037 ppm	-0.0010 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0027 ppm	0.0011 ppm	-0.0005 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 2	-0.0029 ppm	0.0044 ppm	-0.0012 ppm	0.0003 ppm	-0.0004 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 3	0.0016 ppm	0.0058 ppm	-0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-13.362 %	0.749 %	-1.971 %	2.633 %	-2.131 %	-1.872 %	-1.387 %
Concentration RSD	189.1 %	64.5 %	43.8 %	35.3 %	99.6 %	208.0 %	82.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0020 ppm	100.4075 %	102.7287 %	102.3613 %	101.9860 %	103.0200 %	102.9366 %
Concentration per Run 1	0.0020 ppm	98.4489 %	102.2837 %	102.4163 %	100.2166 %	102.9411 %	103.0854 %
Concentration per Run 2	0.0021 ppm	101.3011 %	102.9925 %	102.2085 %	102.8869 %	103.5217 %	103.0776 %
Concentration per Run 3	0.0019 ppm	101.4725 %	102.9101 %	102.4592 %	102.8546 %	102.5973 %	102.6467 %
Recovery Percentage 1	40.036 %						
Concentration RSD	4.1 %	1.7 %	0.4 %	0.1 %	1.5 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-2D2 WG1935256
Analysis started at: 6/18/2024 7:43:42 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0558 ppm	2.2093 ppm	0.1263 ppm	1.0831 ppm	2.1135 ppm	0.0534 ppm	10.5245 ppm
Concentration per Run 1	0.0554 ppm	2.2055 ppm	0.1269 ppm	1.0842 ppm	2.1202 ppm	0.0538 ppm	10.5357 ppm
Concentration per Run 2	0.0562 ppm	2.2115 ppm	0.1264 ppm	1.0868 ppm	2.1083 ppm	0.0533 ppm	10.5369 ppm
Concentration per Run 3	0.0559 ppm	2.2110 ppm	0.1256 ppm	1.0782 ppm	2.1118 ppm	0.0533 ppm	10.5009 ppm
Concentration RSD	0.7 %	0.2 %	0.5 %	0.4 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0579 ppm	0.5445 ppm	0.2189 ppm	0.2718 ppm	1.0586 ppm	10.7330 ppm	0.0022 ppm
Concentration per Run 1	0.0584 ppm	0.5470 ppm	0.2204 ppm	0.2723 ppm	1.0641 ppm	10.7835 ppm	0.0019 ppm
Concentration per Run 2	0.0582 ppm	0.5451 ppm	0.2200 ppm	0.2735 ppm	1.0552 ppm	10.6952 ppm	0.0020 ppm
Concentration per Run 3	0.0573 ppm	0.5414 ppm	0.2164 ppm	0.2695 ppm	1.0565 ppm	10.7203 ppm	0.0029 ppm
Concentration RSD	1.0 %	0.5 %	1.0 %	0.7 %	0.5 %	0.4 %	23.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7472 ppm	0.5213 ppm	1.0707 ppm	10.9201 ppm	0.5390 ppm	0.5672 ppm	0.5590 ppm
Concentration per Run 1	10.8157 ppm	0.5235 ppm	1.0604 ppm	10.9538 ppm	0.5430 ppm	0.5717 ppm	0.5608 ppm
Concentration per Run 2	10.7272 ppm	0.5199 ppm	1.0741 ppm	10.9264 ppm	0.5430 ppm	0.5650 ppm	0.5614 ppm
Concentration per Run 3	10.6987 ppm	0.5205 ppm	1.0776 ppm	10.8800 ppm	0.5311 ppm	0.5650 ppm	0.5548 ppm
Concentration RSD	0.6 %	0.4 %	0.9 %	0.3 %	1.3 %	0.7 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1310 ppm	1.2628 ppm	1.0933 ppm	1.0085 ppm	1.0928 ppm	0.1229 ppm	0.5533 ppm
Concentration per Run 1	0.1336 ppm	1.2682 ppm	1.0995 ppm	1.0120 ppm	1.0983 ppm	0.1205 ppm	0.5557 ppm
Concentration per Run 2	0.1304 ppm	1.2651 ppm	1.0995 ppm	1.0120 ppm	1.0938 ppm	0.1237 ppm	0.5525 ppm
Concentration per Run 3	0.1289 ppm	1.2551 ppm	1.0809 ppm	1.0016 ppm	1.0863 ppm	0.1246 ppm	0.5515 ppm
Concentration RSD	1.8 %	0.5 %	1.0 %	0.6 %	0.6 %	1.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5491 ppm	96.3032 %	102.7256 %	96.9259 %	97.0199 %	101.1641 %	97.8362 %
Concentration per Run 1	0.5528 ppm	95.3561 %	101.9033 %	96.0562 %	96.7049 %	100.6181 %	97.2157 %
Concentration per Run 2	0.5513 ppm	96.5952 %	103.3371 %	97.0519 %	97.4051 %	101.6600 %	97.9458 %
Concentration per Run 3	0.5432 ppm	96.9583 %	102.9365 %	97.6695 %	96.9496 %	101.2142 %	98.3470 %
Concentration RSD	0.9 %	0.9 %	0.7 %	0.8 %	0.4 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-01D2 WG1935256
Analysis started at: 6/18/2024 7:47:40 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	112.2495 ppm	0.1670 ppm	0.0293 ppm	1.9988 ppm	0.0042 ppm	157.7300 ppm
Concentration per Run 1	0.0028 ppm	112.4891 ppm	0.1687 ppm	0.0300 ppm	1.9956 ppm	0.0043 ppm	158.2092 ppm
Concentration per Run 2	0.0027 ppm	112.0670 ppm	0.1678 ppm	0.0286 ppm	1.9963 ppm	0.0042 ppm	157.6300 ppm
Concentration per Run 3	0.0030 ppm	112.1923 ppm	0.1645 ppm	0.0292 ppm	2.0045 ppm	0.0042 ppm	157.3507 ppm
Concentration RSD	5.5 %	0.2 %	1.3 %	2.3 %	0.2 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0058 ppm	0.0854 ppm	0.2355 ppm	0.6646 ppm	254.6734 ppm	42.9537 ppm	0.2082 ppm
Concentration per Run 1	0.0058 ppm	0.0859 ppm	0.2361 ppm	0.6661 ppm	254.7742 ppm	43.1921 ppm	0.2089 ppm
Concentration per Run 2	0.0059 ppm	0.0852 ppm	0.2357 ppm	0.6658 ppm	254.0211 ppm	42.9111 ppm	0.2070 ppm
Concentration per Run 3	0.0056 ppm	0.0850 ppm	0.2346 ppm	0.6619 ppm	255.2250 ppm	42.7579 ppm	0.2086 ppm
Concentration RSD	2.4 %	0.6 %	0.3 %	0.4 %	0.2 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	99.2643 ppm	4.5299 ppm	0.0151 ppm	3.7805 ppm	0.1730 ppm	4.9962 ppm	0.0146 ppm
Concentration per Run 1	99.4902 ppm	4.5383 ppm	0.0151 ppm	3.8023 ppm	0.1744 ppm	4.9879 ppm	0.0148 ppm
Concentration per Run 2	99.1931 ppm	4.5222 ppm	0.0152 ppm	3.7794 ppm	0.1731 ppm	5.0262 ppm	0.0136 ppm
Concentration per Run 3	99.1098 ppm	4.5291 ppm	0.0149 ppm	3.7598 ppm	0.1716 ppm	4.9745 ppm	0.0155 ppm
Concentration RSD	0.2 %	0.2 %	0.9 %	0.6 %	0.8 %	0.5 %	6.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0076 ppm	10.9558 ppm	0.1555 ppm	0.5550 ppm	7.9329 ppm	0.0085 ppm	0.3731 ppm
Concentration per Run 1	0.0064 ppm	11.0116 ppm	0.1572 ppm	0.5566 ppm	7.9502 ppm	0.0099 ppm	0.3731 ppm
Concentration per Run 2	0.0077 ppm	11.0006 ppm	0.1561 ppm	0.5540 ppm	7.9219 ppm	0.0083 ppm	0.3727 ppm
Concentration per Run 3	0.0086 ppm	10.8551 ppm	0.1531 ppm	0.5543 ppm	7.9265 ppm	0.0074 ppm	0.3733 ppm
Concentration RSD	15.0 %	0.8 %	1.4 %	0.3 %	0.2 %	14.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2122 ppm	102.3348 %	108.6002 %	88.9526 %	111.1670 %	118.8318 %	110.6640 %
Concentration per Run 1	2.2225 ppm	102.1408 %	108.7292 %	89.2584 %	111.0375 %	119.0228 %	110.7253 %
Concentration per Run 2	2.2025 ppm	102.3267 %	108.4770 %	88.7690 %	111.2255 %	118.6235 %	110.9360 %
Concentration per Run 3	2.2115 ppm	102.5368 %	108.5942 %	88.8305 %	111.2381 %	118.8491 %	110.3307 %
Concentration RSD	0.5 %	0.2 %	0.1 %	0.3 %	0.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-02D2 WG1935256
Analysis started at: 6/18/2024 7:51:36 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	68.9595 ppm	0.0724 ppm	0.0201 ppm	1.0317 ppm	0.0028 ppm	145.3005 ppm
Concentration per Run 1	0.0006 ppm	68.9998 ppm	0.0735 ppm	0.0194 ppm	1.0359 ppm	0.0028 ppm	145.5005 ppm
Concentration per Run 2	0.0005 ppm	68.8287 ppm	0.0716 ppm	0.0190 ppm	1.0275 ppm	0.0027 ppm	145.0739 ppm
Concentration per Run 3	0.0015 ppm	69.0500 ppm	0.0721 ppm	0.0218 ppm	1.0315 ppm	0.0027 ppm	145.3272 ppm
Concentration RSD	62.7 %	0.2 %	1.4 %	7.5 %	0.4 %	1.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0091 ppm	0.0599 ppm	0.1543 ppm	0.3821 ppm	187.2737 ppm	23.2576 ppm	0.1101 ppm
Concentration per Run 1	0.0091 ppm	0.0595 ppm	0.1553 ppm	0.3832 ppm	187.9435 ppm	23.4467 ppm	0.1111 ppm
Concentration per Run 2	0.0091 ppm	0.0603 ppm	0.1535 ppm	0.3822 ppm	186.4484 ppm	23.0765 ppm	0.1100 ppm
Concentration per Run 3	0.0092 ppm	0.0598 ppm	0.1539 ppm	0.3808 ppm	187.4291 ppm	23.2495 ppm	0.1091 ppm
Concentration RSD	0.8 %	0.7 %	0.6 %	0.3 %	0.4 %	0.8 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	64.3428 ppm	2.3974 ppm	0.0046 ppm	4.6137 ppm	0.1116 ppm	3.3345 ppm	0.0123 ppm
Concentration per Run 1	64.7820 ppm	2.3998 ppm	0.0044 ppm	4.6319 ppm	0.1130 ppm	3.3384 ppm	0.0131 ppm
Concentration per Run 2	64.2653 ppm	2.3925 ppm	0.0046 ppm	4.6089 ppm	0.1104 ppm	3.3264 ppm	0.0125 ppm
Concentration per Run 3	63.9810 ppm	2.4000 ppm	0.0049 ppm	4.6002 ppm	0.1113 ppm	3.3388 ppm	0.0113 ppm
Concentration RSD	0.6 %	0.2 %	5.4 %	0.4 %	1.2 %	0.2 %	7.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	7.4743 ppm	0.1355 ppm	0.4074 ppm	5.6101 ppm	0.0033 ppm	0.2266 ppm
Concentration per Run 1	0.0019 ppm	7.5061 ppm	0.1366 ppm	0.4099 ppm	5.6400 ppm	0.0029 ppm	0.2297 ppm
Concentration per Run 2	0.0027 ppm	7.4638 ppm	0.1368 ppm	0.4057 ppm	5.6018 ppm	0.0025 ppm	0.2258 ppm
Concentration per Run 3	0.0050 ppm	7.4529 ppm	0.1330 ppm	0.4067 ppm	5.5883 ppm	0.0046 ppm	0.2243 ppm
Concentration RSD	49.7 %	0.4 %	1.6 %	0.5 %	0.5 %	34.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0648 ppm	99.3139 %	104.9145 %	90.8585 %	108.0961 %	115.2353 %	108.9337 %
Concentration per Run 1	2.0843 ppm	98.7304 %	105.4482 %	90.9677 %	107.2627 %	116.2017 %	109.1694 %
Concentration per Run 2	2.0508 ppm	99.5281 %	104.5846 %	90.6144 %	108.4207 %	114.5264 %	108.4931 %
Concentration per Run 3	2.0594 ppm	99.6834 %	104.7108 %	90.9935 %	108.6051 %	114.9779 %	109.1387 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.2 %	0.7 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-03D2 WG1935256
Analysis started at: 6/18/2024 7:55:31 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	94.3129 ppm	0.0302 ppm	0.0252 ppm	1.0698 ppm	0.0027 ppm	94.3549 ppm
Concentration per Run 1	0.0001 ppm	94.6954 ppm	0.0323 ppm	0.0239 ppm	1.0653 ppm	0.0028 ppm	94.6464 ppm
Concentration per Run 2	0.0005 ppm	94.2197 ppm	0.0287 ppm	0.0256 ppm	1.0732 ppm	0.0027 ppm	94.3642 ppm
Concentration per Run 3	0.0003 ppm	94.0235 ppm	0.0297 ppm	0.0261 ppm	1.0708 ppm	0.0028 ppm	94.0542 ppm
Concentration RSD	69.7 %	0.4 %	6.1 %	4.5 %	0.4 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0743 ppm	0.1823 ppm	0.2096 ppm	188.2388 ppm	43.8407 ppm	0.1540 ppm
Concentration per Run 1	0.0007 ppm	0.0752 ppm	0.1840 ppm	0.2095 ppm	188.4298 ppm	43.7206 ppm	0.1553 ppm
Concentration per Run 2	0.0008 ppm	0.0737 ppm	0.1824 ppm	0.2097 ppm	188.4037 ppm	43.8912 ppm	0.1537 ppm
Concentration per Run 3	0.0009 ppm	0.0740 ppm	0.1805 ppm	0.2097 ppm	187.8827 ppm	43.9103 ppm	0.1530 ppm
Concentration RSD	13.7 %	1.1 %	0.9 %	0.1 %	0.2 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.1344 ppm	1.7889 ppm	0.0008 ppm	1.5894 ppm	0.1593 ppm	0.3116 ppm	0.0019 ppm
Concentration per Run 1	61.4438 ppm	1.7950 ppm	0.0009 ppm	1.5921 ppm	0.1604 ppm	0.3118 ppm	0.0008 ppm
Concentration per Run 2	61.1710 ppm	1.7888 ppm	0.0005 ppm	1.5956 ppm	0.1607 ppm	0.3129 ppm	0.0020 ppm
Concentration per Run 3	60.7885 ppm	1.7830 ppm	0.0009 ppm	1.5806 ppm	0.1567 ppm	0.3100 ppm	0.0029 ppm
Concentration RSD	0.5 %	0.3 %	31.6 %	0.5 %	1.4 %	0.5 %	56.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	12.3744 ppm	0.0185 ppm	0.1659 ppm	9.2559 ppm	0.0081 ppm	0.2658 ppm
Concentration per Run 1	0.0056 ppm	12.4484 ppm	0.0186 ppm	0.1659 ppm	9.2859 ppm	0.0095 ppm	0.2686 ppm
Concentration per Run 2	0.0017 ppm	12.3990 ppm	0.0180 ppm	0.1658 ppm	9.2692 ppm	0.0064 ppm	0.2654 ppm
Concentration per Run 3	0.0036 ppm	12.2757 ppm	0.0190 ppm	0.1661 ppm	9.2126 ppm	0.0085 ppm	0.2632 ppm
Concentration RSD	53.4 %	0.7 %	2.5 %	0.1 %	0.4 %	19.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5656 ppm	101.4241 %	108.2635 %	89.4919 %	111.3193 %	118.7240 %	111.3567 %
Concentration per Run 1	0.5704 ppm	101.0168 %	108.6224 %	90.1455 %	110.9583 %	119.1065 %	112.0616 %
Concentration per Run 2	0.5667 ppm	101.5363 %	107.9995 %	88.9132 %	111.3562 %	118.8176 %	110.7593 %
Concentration per Run 3	0.5598 ppm	101.7192 %	108.1685 %	89.4170 %	111.6434 %	118.2480 %	111.2491 %
Concentration RSD	0.9 %	0.4 %	0.3 %	0.7 %	0.3 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-25D2 WG1935256
Analysis started at: 6/18/2024 7:59:27 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	57.4924 ppm	0.1442 ppm	0.0112 ppm	0.4721 ppm	0.0037 ppm	8.7317 ppm
Concentration per Run 1	0.0013 ppm	57.2006 ppm	0.1444 ppm	0.0113 ppm	0.4739 ppm	0.0037 ppm	8.7425 ppm
Concentration per Run 2	0.0010 ppm	57.6716 ppm	0.1441 ppm	0.0128 ppm	0.4711 ppm	0.0037 ppm	8.7311 ppm
Concentration per Run 3	0.0012 ppm	57.6049 ppm	0.1441 ppm	0.0094 ppm	0.4712 ppm	0.0036 ppm	8.7215 ppm
Concentration RSD	11.4 %	0.4 %	0.1 %	15.2 %	0.3 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0320 ppm	0.1078 ppm	0.3016 ppm	111.4752 ppm	2.8717 ppm	0.1080 ppm
Concentration per Run 1	0.0012 ppm	0.0320 ppm	0.1080 ppm	0.3023 ppm	112.0850 ppm	2.8823 ppm	0.1091 ppm
Concentration per Run 2	0.0012 ppm	0.0318 ppm	0.1077 ppm	0.3023 ppm	110.9481 ppm	2.8511 ppm	0.1065 ppm
Concentration per Run 3	0.0013 ppm	0.0323 ppm	0.1078 ppm	0.3003 ppm	111.3924 ppm	2.8817 ppm	0.1085 ppm
Concentration RSD	3.9 %	0.7 %	0.2 %	0.4 %	0.5 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.0552 ppm	1.8270 ppm	0.0010 ppm	1.2807 ppm	0.0791 ppm	0.3632 ppm	0.0031 ppm
Concentration per Run 1	13.1215 ppm	1.8267 ppm	0.0015 ppm	1.2838 ppm	0.0797 ppm	0.3639 ppm	0.0023 ppm
Concentration per Run 2	13.0750 ppm	1.8264 ppm	0.0008 ppm	1.2864 ppm	0.0792 ppm	0.3629 ppm	0.0033 ppm
Concentration per Run 3	12.9692 ppm	1.8278 ppm	0.0008 ppm	1.2719 ppm	0.0786 ppm	0.3628 ppm	0.0036 ppm
Concentration RSD	0.6 %	0.0 %	39.8 %	0.6 %	0.7 %	0.2 %	22.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	4.9995 ppm	0.0209 ppm	0.0730 ppm	0.2233 ppm	0.0007 ppm	0.1808 ppm
Concentration per Run 1	0.0026 ppm	5.0235 ppm	0.0208 ppm	0.0733 ppm	0.2218 ppm	0.0010 ppm	0.1815 ppm
Concentration per Run 2	0.0047 ppm	5.0077 ppm	0.0205 ppm	0.0726 ppm	0.2266 ppm	0.0009 ppm	0.1814 ppm
Concentration per Run 3	0.0034 ppm	4.9671 ppm	0.0212 ppm	0.0731 ppm	0.2216 ppm	0.0001 ppm	0.1796 ppm
Concentration RSD	30.1 %	0.6 %	1.6 %	0.5 %	1.3 %	74.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4088 ppm	100.8640 %	108.0834 %	99.2932 %	107.5554 %	114.3062 %	108.3067 %
Concentration per Run 1	0.4118 ppm	100.7230 %	107.0782 %	99.5559 %	107.8733 %	113.6429 %	108.5442 %
Concentration per Run 2	0.4094 ppm	100.9475 %	108.9773 %	99.1032 %	107.7668 %	115.2468 %	108.0049 %
Concentration per Run 3	0.4053 ppm	100.9215 %	108.1946 %	99.2205 %	107.0262 %	114.0288 %	108.3710 %
Concentration RSD	0.8 %	0.1 %	0.9 %	0.2 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-3D2 WG1935256
Analysis started at: 6/18/2024 8:03:25 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0556 ppm	77.7142 ppm	0.3527 ppm	0.9145 ppm	2.6490 ppm	0.0587 ppm	21.5227 ppm
Concentration per Run 1	0.0553 ppm	77.6634 ppm	0.3513 ppm	0.9145 ppm	2.6388 ppm	0.0587 ppm	21.4608 ppm
Concentration per Run 2	0.0555 ppm	77.7382 ppm	0.3517 ppm	0.9105 ppm	2.6542 ppm	0.0587 ppm	21.5792 ppm
Concentration per Run 3	0.0559 ppm	77.7410 ppm	0.3552 ppm	0.9184 ppm	2.6539 ppm	0.0587 ppm	21.5281 ppm
Concentration RSD	0.5 %	0.1 %	0.6 %	0.4 %	0.3 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5637 ppm	0.3448 ppm	0.6418 ppm	165.6864 ppm	13.5148 ppm	0.1305 ppm
Concentration per Run 1	0.0556 ppm	0.5626 ppm	0.3447 ppm	0.6389 ppm	165.1001 ppm	13.4680 ppm	0.1327 ppm
Concentration per Run 2	0.0555 ppm	0.5639 ppm	0.3451 ppm	0.6434 ppm	166.1269 ppm	13.6281 ppm	0.1307 ppm
Concentration per Run 3	0.0559 ppm	0.5645 ppm	0.3446 ppm	0.6432 ppm	165.8322 ppm	13.4482 ppm	0.1282 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.4 %	0.3 %	0.7 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.8259 ppm	3.1362 ppm	1.0142 ppm	12.2396 ppm	0.6073 ppm	1.0307 ppm	0.4628 ppm
Concentration per Run 1	23.8828 ppm	3.1256 ppm	0.9928 ppm	12.2420 ppm	0.6064 ppm	1.0232 ppm	0.4619 ppm
Concentration per Run 2	23.8039 ppm	3.1425 ppm	1.0138 ppm	12.2310 ppm	0.6090 ppm	1.0320 ppm	0.4644 ppm
Concentration per Run 3	23.7912 ppm	3.1406 ppm	1.0360 ppm	12.2459 ppm	0.6065 ppm	1.0369 ppm	0.4621 ppm
Concentration RSD	0.2 %	0.3 %	2.1 %	0.1 %	0.2 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1312 ppm	8.1040 ppm	1.0620 ppm	1.1058 ppm	1.0446 ppm	0.1218 ppm	0.8125 ppm
Concentration per Run 1	0.1289 ppm	8.0834 ppm	1.0571 ppm	1.1049 ppm	1.0463 ppm	0.1225 ppm	0.8122 ppm
Concentration per Run 2	0.1322 ppm	8.1666 ppm	1.0631 ppm	1.1069 ppm	1.0450 ppm	0.1188 ppm	0.8137 ppm
Concentration per Run 3	0.1325 ppm	8.0620 ppm	1.0658 ppm	1.1056 ppm	1.0425 ppm	0.1242 ppm	0.8117 ppm
Concentration RSD	1.5 %	0.7 %	0.4 %	0.1 %	0.2 %	2.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0198 ppm	100.8373 %	108.3672 %	96.1358 %	105.3539 %	113.8730 %	106.2378 %
Concentration per Run 1	1.0192 ppm	100.1308 %	108.8639 %	96.8969 %	104.3871 %	114.1455 %	106.5932 %
Concentration per Run 2	1.0200 ppm	101.1713 %	108.9694 %	95.9266 %	105.7219 %	114.4193 %	106.3041 %
Concentration per Run 3	1.0202 ppm	101.2099 %	107.2683 %	95.5839 %	105.9526 %	113.0543 %	105.8160 %
Concentration RSD	0.1 %	0.6 %	0.9 %	0.7 %	0.8 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-4D2 WG1935256
Analysis started at: 6/18/2024 8:07:22 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	85.3216 ppm	0.1020 ppm	0.0149 ppm	0.4517 ppm	0.0052 ppm	7.1005 ppm
Concentration per Run 1	0.0008 ppm	85.3049 ppm	0.1017 ppm	0.0158 ppm	0.4509 ppm	0.0052 ppm	7.1071 ppm
Concentration per Run 2	0.0009 ppm	85.2091 ppm	0.1027 ppm	0.0145 ppm	0.4507 ppm	0.0052 ppm	7.0682 ppm
Concentration per Run 3	0.0012 ppm	85.4509 ppm	0.1017 ppm	0.0142 ppm	0.4537 ppm	0.0052 ppm	7.1261 ppm
Concentration RSD	21.9 %	0.1 %	0.6 %	5.7 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0469 ppm	0.1790 ppm	0.1890 ppm	214.4841 ppm	3.7434 ppm	0.1617 ppm
Concentration per Run 1	0.0006 ppm	0.0473 ppm	0.1791 ppm	0.1901 ppm	214.3670 ppm	3.7495 ppm	0.1629 ppm
Concentration per Run 2	0.0006 ppm	0.0469 ppm	0.1788 ppm	0.1887 ppm	213.4388 ppm	3.7354 ppm	0.1602 ppm
Concentration per Run 3	0.0005 ppm	0.0466 ppm	0.1790 ppm	0.1884 ppm	215.6464 ppm	3.7451 ppm	0.1622 ppm
Concentration RSD	7.1 %	0.8 %	0.1 %	0.5 %	0.5 %	0.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.1043 ppm	3.3990 ppm	0.0102 ppm	1.3187 ppm	0.1157 ppm	0.2185 ppm	0.0056 ppm
Concentration per Run 1	21.0874 ppm	3.4086 ppm	0.0101 ppm	1.3227 ppm	0.1161 ppm	0.2188 ppm	0.0064 ppm
Concentration per Run 2	21.0961 ppm	3.3884 ppm	0.0099 ppm	1.3157 ppm	0.1162 ppm	0.2187 ppm	0.0053 ppm
Concentration per Run 3	21.1294 ppm	3.4001 ppm	0.0105 ppm	1.3177 ppm	0.1148 ppm	0.2180 ppm	0.0050 ppm
Concentration RSD	0.1 %	0.3 %	2.8 %	0.3 %	0.7 %	0.2 %	13.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	4.9035 ppm	0.0158 ppm	0.0616 ppm	0.4942 ppm	0.0017 ppm	0.2475 ppm
Concentration per Run 1	0.0023 ppm	4.8709 ppm	0.0146 ppm	0.0614 ppm	0.4934 ppm	0.0032 ppm	0.2473 ppm
Concentration per Run 2	0.0023 ppm	4.9372 ppm	0.0159 ppm	0.0613 ppm	0.4926 ppm	0.0015 ppm	0.2475 ppm
Concentration per Run 3	0.0054 ppm	4.9023 ppm	0.0168 ppm	0.0620 ppm	0.4965 ppm	0.0005 ppm	0.2478 ppm
Concentration RSD	53.7 %	0.7 %	6.9 %	0.6 %	0.4 %	79.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3700 ppm	102.0960 %	109.1243 %	98.1552 %	109.0774 %	117.3538 %	110.3379 %
Concentration per Run 1	0.3705 ppm	102.0778 %	108.6578 %	98.1503 %	109.1401 %	116.6939 %	110.5082 %
Concentration per Run 2	0.3694 ppm	102.1479 %	109.8754 %	97.9665 %	109.1509 %	117.8329 %	109.9547 %
Concentration per Run 3	0.3701 ppm	102.0622 %	108.8398 %	98.3488 %	108.9411 %	117.5347 %	110.5508 %
Concentration RSD	0.1 %	0.0 %	0.6 %	0.2 %	0.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-5D2 WG1935256
Analysis started at: 6/18/2024 8:11:21 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	59.3968 ppm	0.2659 ppm	0.9840 ppm	2.3595 ppm	0.0515 ppm	18.2761 ppm
Concentration per Run 1	0.0499 ppm	59.3262 ppm	0.2689 ppm	0.9802 ppm	2.3558 ppm	0.0515 ppm	18.3190 ppm
Concentration per Run 2	0.0502 ppm	59.2191 ppm	0.2640 ppm	0.9836 ppm	2.3622 ppm	0.0516 ppm	18.2439 ppm
Concentration per Run 3	0.0503 ppm	59.6450 ppm	0.2647 ppm	0.9883 ppm	2.3605 ppm	0.0515 ppm	18.2655 ppm
Concentration RSD	0.5 %	0.4 %	1.0 %	0.4 %	0.1 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.5033 ppm	0.2970 ppm	0.5487 ppm	111.6923 ppm	12.7262 ppm	0.1082 ppm
Concentration per Run 1	0.0519 ppm	0.5024 ppm	0.2968 ppm	0.5481 ppm	111.6726 ppm	12.7949 ppm	0.1087 ppm
Concentration per Run 2	0.0521 ppm	0.5035 ppm	0.2969 ppm	0.5482 ppm	111.5447 ppm	12.6623 ppm	0.1089 ppm
Concentration per Run 3	0.0523 ppm	0.5042 ppm	0.2973 ppm	0.5497 ppm	111.8597 ppm	12.7214 ppm	0.1071 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.2 %	0.1 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.5255 ppm	2.2812 ppm	0.9021 ppm	11.3001 ppm	0.5580 ppm	0.8942 ppm	0.3974 ppm
Concentration per Run 1	22.5092 ppm	2.2790 ppm	0.8814 ppm	11.3116 ppm	0.5583 ppm	0.8979 ppm	0.3938 ppm
Concentration per Run 2	22.5262 ppm	2.2727 ppm	0.9026 ppm	11.2781 ppm	0.5572 ppm	0.8907 ppm	0.3968 ppm
Concentration per Run 3	22.5411 ppm	2.2920 ppm	0.9224 ppm	11.3107 ppm	0.5585 ppm	0.8942 ppm	0.4016 ppm
Concentration RSD	0.1 %	0.4 %	2.3 %	0.2 %	0.1 %	0.4 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1267 ppm	5.5578 ppm	0.9945 ppm	1.0075 ppm	1.2018 ppm	0.1186 ppm	0.6639 ppm
Concentration per Run 1	0.1271 ppm	5.5402 ppm	0.9866 ppm	1.0044 ppm	1.1934 ppm	0.1189 ppm	0.6627 ppm
Concentration per Run 2	0.1266 ppm	5.5426 ppm	0.9934 ppm	1.0072 ppm	1.2054 ppm	0.1189 ppm	0.6640 ppm
Concentration per Run 3	0.1265 ppm	5.5907 ppm	1.0036 ppm	1.0111 ppm	1.2066 ppm	0.1179 ppm	0.6651 ppm
Concentration RSD	0.2 %	0.5 %	0.9 %	0.3 %	0.6 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8833 ppm	100.5836 %	108.2849 %	97.6310 %	106.6282 %	114.1248 %	107.2755 %
Concentration per Run 1	0.8830 ppm	100.3296 %	108.0833 %	98.2245 %	106.5848 %	114.3032 %	108.1829 %
Concentration per Run 2	0.8811 ppm	100.8260 %	108.7454 %	97.4818 %	106.8835 %	114.2191 %	107.2477 %
Concentration per Run 3	0.8859 ppm	100.5950 %	108.0262 %	97.1868 %	106.4163 %	113.8522 %	106.3959 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.5 %	0.2 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-6D10 WG1935256
Analysis started at: 6/18/2024 8:15:15 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	12.0741 ppm	0.0282 ppm	0.0030 ppm	0.0969 ppm	0.0008 ppm	1.7930 ppm
Concentration per Run 1	0.0001 ppm	12.0863 ppm	0.0301 ppm	0.0034 ppm	0.0972 ppm	0.0008 ppm	1.7900 ppm
Concentration per Run 2	0.0006 ppm	12.0598 ppm	0.0263 ppm	0.0034 ppm	0.0965 ppm	0.0007 ppm	1.7917 ppm
Concentration per Run 3	0.0004 ppm	12.0763 ppm	0.0282 ppm	0.0023 ppm	0.0970 ppm	0.0007 ppm	1.7974 ppm
Concentration RSD	59.1 %	0.1 %	6.6 %	20.3 %	0.3 %	3.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0066 ppm	0.0227 ppm	0.0622 ppm	23.5482 ppm	0.6270 ppm	0.0240 ppm
Concentration per Run 1	0.0003 ppm	0.0067 ppm	0.0227 ppm	0.0627 ppm	23.5963 ppm	0.6619 ppm	0.0237 ppm
Concentration per Run 2	0.0003 ppm	0.0063 ppm	0.0226 ppm	0.0624 ppm	23.4963 ppm	0.6232 ppm	0.0237 ppm
Concentration per Run 3	0.0002 ppm	0.0068 ppm	0.0227 ppm	0.0615 ppm	23.5520 ppm	0.5958 ppm	0.0246 ppm
Concentration RSD	31.2 %	4.1 %	0.1 %	1.0 %	0.2 %	5.3 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.7946 ppm	0.3822 ppm	0.0008 ppm	0.2738 ppm	0.0173 ppm	0.0762 ppm	0.0053 ppm
Concentration per Run 1	2.8203 ppm	0.3825 ppm	0.0009 ppm	0.2745 ppm	0.0169 ppm	0.0776 ppm	0.0062 ppm
Concentration per Run 2	2.8004 ppm	0.3815 ppm	0.0013 ppm	0.2717 ppm	0.0182 ppm	0.0758 ppm	0.0069 ppm
Concentration per Run 3	2.7632 ppm	0.3827 ppm	0.0004 ppm	0.2751 ppm	0.0168 ppm	0.0752 ppm	0.0029 ppm
Concentration RSD	1.0 %	0.2 %	50.5 %	0.7 %	4.5 %	1.7 %	39.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.0239 ppm	0.0064 ppm	0.0151 ppm	0.0486 ppm	-0.0008 ppm	0.0374 ppm
Concentration per Run 1	-0.0005 ppm	1.0660 ppm	0.0065 ppm	0.0151 ppm	0.0455 ppm	-0.0009 ppm	0.0376 ppm
Concentration per Run 2	0.0008 ppm	0.9907 ppm	0.0065 ppm	0.0150 ppm	0.0474 ppm	-0.0010 ppm	0.0374 ppm
Concentration per Run 3	0.0020 ppm	1.0148 ppm	0.0061 ppm	0.0152 ppm	0.0528 ppm	-0.0005 ppm	0.0372 ppm
Concentration RSD	167.9 %	3.8 %	3.8 %	0.5 %	7.9 %	36.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0868 ppm	96.5842 %	105.7045 %	99.1748 %	101.2438 %	107.3205 %	102.4873 %
Concentration per Run 1	0.0873 ppm	95.6145 %	105.3165 %	98.5028 %	101.2914 %	107.0394 %	102.4245 %
Concentration per Run 2	0.0873 ppm	96.4985 %	105.7411 %	99.1024 %	101.1604 %	107.0826 %	102.4349 %
Concentration per Run 3	0.0857 ppm	97.6396 %	106.0558 %	99.9191 %	101.2796 %	107.8394 %	102.6026 %
Concentration RSD	1.1 %	1.1 %	0.4 %	0.7 %	0.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:19:09 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5156 ppm	0.5030 ppm	0.4916 ppm	0.5126 ppm	0.5133 ppm	0.5178 ppm	0.5017 ppm
Concentration per Run 1	0.5138 ppm	0.5073 ppm	0.4903 ppm	0.5103 ppm	0.5107 ppm	0.5186 ppm	0.5011 ppm
Concentration per Run 2	0.5154 ppm	0.4985 ppm	0.4912 ppm	0.5109 ppm	0.5128 ppm	0.5172 ppm	0.4999 ppm
Concentration per Run 3	0.5176 ppm	0.5033 ppm	0.4932 ppm	0.5167 ppm	0.5166 ppm	0.5176 ppm	0.5042 ppm
Recovery Percentage 1	103.117 %	100.600 %	98.312 %	102.525 %	102.670 %	103.560 %	100.349 %
Concentration RSD	0.4 %	0.9 %	0.3 %	0.7 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5217 ppm	0.5231 ppm	0.5144 ppm	0.5050 ppm	0.5263 ppm	5.2803 ppm	0.4929 ppm
Concentration per Run 1	0.5204 ppm	0.5200 ppm	0.5136 ppm	0.5030 ppm	0.5220 ppm	5.2874 ppm	0.4903 ppm
Concentration per Run 2	0.5219 ppm	0.5237 ppm	0.5141 ppm	0.5056 ppm	0.5299 ppm	5.2646 ppm	0.4949 ppm
Concentration per Run 3	0.5227 ppm	0.5255 ppm	0.5155 ppm	0.5064 ppm	0.5268 ppm	5.2888 ppm	0.4935 ppm
Recovery Percentage 1	104.332 %	104.618 %	102.877 %	100.996 %	105.251 %	105.605 %	98.582 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.4 %	0.8 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5101 ppm	0.5038 ppm	0.5119 ppm	10.4500 ppm	0.5278 ppm	0.5086 ppm	0.5117 ppm
Concentration per Run 1	0.5116 ppm	0.5020 ppm	0.5038 ppm	10.4565 ppm	0.5258 ppm	0.5073 ppm	0.5049 ppm
Concentration per Run 2	0.5101 ppm	0.5054 ppm	0.5127 ppm	10.4493 ppm	0.5274 ppm	0.5106 ppm	0.5142 ppm
Concentration per Run 3	0.5087 ppm	0.5041 ppm	0.5192 ppm	10.4441 ppm	0.5302 ppm	0.5078 ppm	0.5160 ppm
Recovery Percentage 1	102.028 %	100.762 %	102.377 %	104.500 %	105.561 %	101.710 %	102.343 %
Concentration RSD	0.3 %	0.3 %	1.5 %	0.1 %	0.4 %	0.3 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5048 ppm	5.3570 ppm	0.5423 ppm	0.5101 ppm	0.5197 ppm	0.5048 ppm	0.5134 ppm
Concentration per Run 1	0.5040 ppm	5.3315 ppm	0.5398 ppm	0.5099 ppm	0.5186 ppm	0.5034 ppm	0.5128 ppm
Concentration per Run 2	0.5079 ppm	5.3639 ppm	0.5414 ppm	0.5084 ppm	0.5198 ppm	0.5081 ppm	0.5130 ppm
Concentration per Run 3	0.5026 ppm	5.3755 ppm	0.5455 ppm	0.5121 ppm	0.5208 ppm	0.5029 ppm	0.5144 ppm
Recovery Percentage 1	100.965 %	102.037 %	108.453 %	102.028 %	103.945 %	100.956 %	102.683 %
Concentration RSD	0.5 %	0.4 %	0.5 %	0.4 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5289 ppm	99.5225 %	104.7175 %	100.1154 %	97.7686 %	102.5702 %	98.9374 %
Concentration per Run 1	0.5286 ppm	99.2213 %	105.6941 %	100.4175 %	97.3012 %	103.2441 %	99.2434 %
Concentration per Run 2	0.5293 ppm	99.5868 %	104.8690 %	99.9257 %	97.7803 %	103.1563 %	98.9790 %
Concentration per Run 3	0.5287 ppm	99.7596 %	103.5896 %	100.0030 %	98.2244 %	101.3102 %	98.5898 %
Recovery Percentage 1	105.774 %						
Concentration RSD	0.1 %	0.3 %	1.0 %	0.3 %	0.5 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:23:05 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0112 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0048 ppm
Concentration per Run 1	0.0008 ppm	-0.0161 ppm	-0.0008 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0061 ppm
Concentration per Run 2	0.0002 ppm	-0.0081 ppm	-0.0005 ppm	0.0021 ppm	0.0000 ppm	0.0001 ppm	-0.0041 ppm
Concentration per Run 3	0.0006 ppm	-0.0092 ppm	0.0014 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	-0.0041 ppm
Recovery Percentage 1	7.742 %	-11.173 %	1.456 %	1.167 %	-0.827 %	0.097 %	-4.773 %
Concentration RSD	62.6 %	38.7 %	2,692.3 %	450.3 %	118.0 %	1,477.3 %	23.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0032 ppm	0.0408 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0007 ppm	0.0027 ppm	0.0434 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0036 ppm	0.0325 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0034 ppm	0.0464 ppm	-0.0003 ppm
Recovery Percentage 1	-0.154 %	-0.585 %	1.904 %	3.290 %	6.486 %	1.632 %	-1.094 %
Concentration RSD	732.2 %	697.6 %	63.3 %	109.5 %	13.8 %	17.9 %	476.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0021 ppm	0.0001 ppm	-0.0007 ppm	0.0067 ppm	0.0006 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	-0.0023 ppm	0.0000 ppm	-0.0009 ppm	0.0041 ppm	0.0015 ppm	0.0025 ppm	0.0015 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	-0.0007 ppm	0.0099 ppm	-0.0004 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 3	-0.0027 ppm	0.0001 ppm	-0.0004 ppm	0.0062 ppm	0.0007 ppm	0.0004 ppm	0.0012 ppm
Recovery Percentage 1	-2.055 %	1.216 %	-1.315 %	0.335 %	2.465 %	10.888 %	1.517 %
Concentration RSD	39.1 %	132.0 %	41.4 %	43.9 %	156.4 %	110.0 %	141.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	-0.0004 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 2	0.0011 ppm	0.0009 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0009 ppm	-0.0001 ppm	-0.0004 ppm	-0.0018 ppm	-0.0001 ppm
Recovery Percentage 1	3.133 %	0.060 %	1.475 %	0.890 %	-2.334 %	-7.880 %	-0.502 %
Concentration RSD	240.6 %	194.1 %	18.2 %	148.5 %	143.5 %	38.4 %	334.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.2943 %	99.2416 %	95.8739 %	98.2046 %	102.0272 %	99.7891 %
Concentration per Run 1	0.0007 ppm	91.6126 %	99.5458 %	95.6212 %	98.1704 %	102.7873 %	100.1851 %
Concentration per Run 2	0.0007 ppm	92.5186 %	99.2051 %	96.1772 %	98.4860 %	101.7813 %	99.9309 %
Concentration per Run 3	0.0003 ppm	92.7518 %	98.9738 %	95.8234 %	97.9575 %	101.5131 %	99.2512 %
Recovery Percentage 1	11.260 %						
Concentration RSD	39.3 %	0.7 %	0.3 %	0.3 %	0.3 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: zWG1935256-1 WG1935256
Analysis started at: 6/18/2024 8:29:07 AM
Rack 1
Vial 33
Comment rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 1	0.0005 ppm	-0.0012 ppm	-0.0003 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 2	0.0001 ppm	-0.0064 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 3	0.0001 ppm	0.0085 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0123 ppm
Recovery Percentage 1	3.295 %	0.297 %	4.038 %	2.059 %	0.441 %	-0.333 %	12.192 %
Concentration RSD	87.2 %	2,540.9 %	510.9 %	55.5 %	263.4 %	172.8 %	10.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0943 ppm	0.0299 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0005 ppm	0.0934 ppm	0.0115 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0009 ppm	-0.0001 ppm	0.0929 ppm	0.0379 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0965 ppm	0.0404 ppm	0.0017 ppm
Recovery Percentage 1	0.012 %	-2.020 %	7.065 %	1.404 %	188.529 %	1.198 %	11.351 %
Concentration RSD	8,744.3 %	58.5 %	24.9 %	223.3 %	2.1 %	53.5 %	184.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0008 ppm	-0.0027 ppm	0.0160 ppm	0.0004 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 1	0.0009 ppm	0.0008 ppm	-0.0026 ppm	0.0171 ppm	0.0004 ppm	0.0009 ppm	-0.0021 ppm
Concentration per Run 2	0.0016 ppm	0.0009 ppm	-0.0026 ppm	0.0174 ppm	0.0002 ppm	-0.0010 ppm	0.0013 ppm
Concentration per Run 3	0.0012 ppm	0.0008 ppm	-0.0030 ppm	0.0134 ppm	0.0007 ppm	-0.0007 ppm	-0.0023 ppm
Recovery Percentage 1	1.255 %	8.223 %	-5.495 %	0.798 %	1.749 %	-2.575 %	-2.073 %
Concentration RSD	26.5 %	3.5 %	9.0 %	14.0 %	54.7 %	383.8 %	197.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0055 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 1	-0.0005 ppm	0.0067 ppm	0.0007 ppm	0.0001 ppm	0.0015 ppm	-0.0024 ppm	-0.0007 ppm
Concentration per Run 2	-0.0015 ppm	0.0049 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0023 ppm	0.0049 ppm	-0.0004 ppm	0.0003 ppm	-0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Recovery Percentage 1	-14.243 %	1.095 %	0.229 %	1.526 %	4.112 %	-5.938 %	-2.194 %
Concentration RSD	61.2 %	18.8 %	486.1 %	67.7 %	225.9 %	91.2 %	182.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	100.7368 %	103.1767 %	103.0466 %	103.5129 %	103.8948 %	103.8934 %
Concentration per Run 1	0.0017 ppm	99.8257 %	102.6432 %	102.5852 %	102.9403 %	103.1866 %	103.7858 %
Concentration per Run 2	0.0018 ppm	101.1464 %	103.0776 %	103.5686 %	103.7951 %	103.8394 %	104.2671 %
Concentration per Run 3	0.0018 ppm	101.2383 %	103.8095 %	102.9859 %	103.8032 %	104.6585 %	103.6273 %
Recovery Percentage 1	35.741 %						
Concentration RSD	2.5 %	0.8 %	0.6 %	0.5 %	0.5 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test FM 0305 FAO
Analysis started at: 6/18/2024 8:33:17 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0206 ppm	0.1249 ppm	1.0678 ppm	0.0068 ppm	-0.0001 ppm	10.3184 ppm
Concentration per Run 1	0.0002 ppm	0.0226 ppm	0.1251 ppm	1.0730 ppm	0.0068 ppm	-0.0001 ppm	10.3346 ppm
Concentration per Run 2	0.0003 ppm	0.0257 ppm	0.1248 ppm	1.0692 ppm	0.0069 ppm	-0.0001 ppm	10.3482 ppm
Concentration per Run 3	0.0005 ppm	0.0135 ppm	0.1247 ppm	1.0612 ppm	0.0068 ppm	0.0000 ppm	10.2723 ppm
Concentration RSD	48.3 %	30.6 %	0.2 %	0.6 %	1.0 %	69.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0058 ppm	10.6509 ppm	0.0008 ppm
Concentration per Run 1	0.0032 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0041 ppm	10.6591 ppm	0.0020 ppm
Concentration per Run 2	0.0033 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0063 ppm	10.7366 ppm	0.0004 ppm
Concentration per Run 3	0.0032 ppm	-0.0006 ppm	-0.0004 ppm	0.0002 ppm	0.0069 ppm	10.5570 ppm	0.0000 ppm
Concentration RSD	1.0 %	138.2 %	55.4 %	285.8 %	26.0 %	0.8 %	138.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7622 ppm	0.0009 ppm	1.0031 ppm	10.7037 ppm	0.0004 ppm	0.5614 ppm	0.0010 ppm
Concentration per Run 1	10.8330 ppm	0.0010 ppm	0.9875 ppm	10.7431 ppm	0.0006 ppm	0.5666 ppm	-0.0005 ppm
Concentration per Run 2	10.7835 ppm	0.0007 ppm	1.0084 ppm	10.7070 ppm	0.0005 ppm	0.5594 ppm	0.0040 ppm
Concentration per Run 3	10.6700 ppm	0.0011 ppm	1.0133 ppm	10.6611 ppm	0.0001 ppm	0.5582 ppm	-0.0004 ppm
Concentration RSD	0.8 %	23.9 %	1.4 %	0.4 %	76.5 %	0.8 %	248.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1268 ppm	0.6029 ppm	1.0674 ppm	1.0155 ppm	1.0929 ppm	0.1258 ppm	-0.0002 ppm
Concentration per Run 1	0.1286 ppm	0.6071 ppm	1.0630 ppm	1.0182 ppm	1.0977 ppm	0.1279 ppm	0.0000 ppm
Concentration per Run 2	0.1250 ppm	0.6027 ppm	1.0700 ppm	1.0210 ppm	1.0945 ppm	0.1244 ppm	-0.0003 ppm
Concentration per Run 3	0.1268 ppm	0.5988 ppm	1.0693 ppm	1.0073 ppm	1.0867 ppm	0.1251 ppm	-0.0002 ppm
Concentration RSD	1.4 %	0.7 %	0.4 %	0.7 %	0.5 %	1.4 %	73.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.7908 %	101.3996 %	95.1627 %	98.6834 %	102.5240 %	98.7257 %
Concentration per Run 1	0.0007 ppm	92.8350 %	101.3514 %	94.5802 %	98.6428 %	102.6123 %	98.5400 %
Concentration per Run 2	0.0003 ppm	93.7609 %	101.2906 %	95.7429 %	98.4911 %	102.7448 %	99.1163 %
Concentration per Run 3	0.0002 ppm	94.7765 %	101.5569 %	95.1650 %	98.9161 %	102.2148 %	98.5209 %
Concentration RSD	63.0 %	1.0 %	0.1 %	0.6 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test FM 0315 FAO
Analysis started at: 6/18/2024 8:37:14 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0328 ppm	0.1265 ppm	1.0818 ppm	0.0069 ppm	-0.0001 ppm	10.4392 ppm
Concentration per Run 1	0.0005 ppm	0.0287 ppm	0.1279 ppm	1.0920 ppm	0.0069 ppm	-0.0001 ppm	10.4653 ppm
Concentration per Run 2	0.0005 ppm	0.0298 ppm	0.1268 ppm	1.0749 ppm	0.0068 ppm	-0.0001 ppm	10.4220 ppm
Concentration per Run 3	0.0001 ppm	0.0399 ppm	0.1248 ppm	1.0783 ppm	0.0069 ppm	-0.0001 ppm	10.4304 ppm
Concentration RSD	68.1 %	18.7 %	1.2 %	0.8 %	1.2 %	12.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0031 ppm	-0.0004 ppm	0.0000 ppm	0.0010 ppm	0.0059 ppm	10.7241 ppm	0.0000 ppm
Concentration per Run 1	0.0032 ppm	-0.0004 ppm	-0.0001 ppm	0.0015 ppm	0.0045 ppm	10.7354 ppm	0.0000 ppm
Concentration per Run 2	0.0032 ppm	-0.0009 ppm	0.0002 ppm	0.0008 ppm	0.0042 ppm	10.6401 ppm	-0.0023 ppm
Concentration per Run 3	0.0030 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0088 ppm	10.7969 ppm	0.0024 ppm
Concentration RSD	4.2 %	101.9 %	4,708.5 %	42.9 %	43.8 %	0.7 %	20,513.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9319 ppm	0.0009 ppm	1.0216 ppm	10.8407 ppm	0.0003 ppm	0.5652 ppm	-0.0008 ppm
Concentration per Run 1	11.0499 ppm	0.0009 ppm	1.0134 ppm	10.8571 ppm	0.0006 ppm	0.5678 ppm	0.0000 ppm
Concentration per Run 2	10.9162 ppm	0.0008 ppm	1.0200 ppm	10.8290 ppm	-0.0009 ppm	0.5652 ppm	-0.0015 ppm
Concentration per Run 3	10.8295 ppm	0.0009 ppm	1.0313 ppm	10.8361 ppm	0.0011 ppm	0.5625 ppm	-0.0010 ppm
Concentration RSD	1.0 %	4.7 %	0.9 %	0.1 %	407.9 %	0.5 %	88.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1287 ppm	0.6101 ppm	1.0947 ppm	1.0270 ppm	1.1102 ppm	0.1254 ppm	0.0000 ppm
Concentration per Run 1	0.1297 ppm	0.6168 ppm	1.0987 ppm	1.0259 ppm	1.1209 ppm	0.1280 ppm	-0.0003 ppm
Concentration per Run 2	0.1273 ppm	0.6088 ppm	1.0846 ppm	1.0319 ppm	1.1078 ppm	0.1260 ppm	0.0000 ppm
Concentration per Run 3	0.1290 ppm	0.6047 ppm	1.1007 ppm	1.0233 ppm	1.1018 ppm	0.1223 ppm	0.0001 ppm
Concentration RSD	1.0 %	1.0 %	0.8 %	0.4 %	0.9 %	2.3 %	437.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	93.9116 %	101.9591 %	95.7805 %	98.6381 %	102.7868 %	99.3591 %
Concentration per Run 1	0.0031 ppm	93.0865 %	101.2937 %	95.3299 %	98.6765 %	102.5391 %	99.4671 %
Concentration per Run 2	0.0029 ppm	94.3334 %	102.3535 %	95.8111 %	98.8837 %	103.0514 %	99.2551 %
Concentration per Run 3	0.0024 ppm	94.3151 %	102.2302 %	96.2003 %	98.3541 %	102.7700 %	99.3550 %
Concentration RSD	12.9 %	0.8 %	0.6 %	0.5 %	0.3 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test FM 0329 FAO
Analysis started at: 6/18/2024 8:41:11 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0242 ppm	0.1256 ppm	1.0780 ppm	0.0068 ppm	-0.0001 ppm	10.4251 ppm
Concentration per Run 1	0.0005 ppm	0.0276 ppm	0.1261 ppm	1.0937 ppm	0.0068 ppm	-0.0001 ppm	10.4576 ppm
Concentration per Run 2	0.0002 ppm	0.0221 ppm	0.1262 ppm	1.0755 ppm	0.0067 ppm	-0.0001 ppm	10.4139 ppm
Concentration per Run 3	-0.0001 ppm	0.0230 ppm	0.1244 ppm	1.0648 ppm	0.0070 ppm	0.0000 ppm	10.4039 ppm
Concentration RSD	162.6 %	12.3 %	0.8 %	1.4 %	1.9 %	94.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0035 ppm	10.8206 ppm	-0.0002 ppm
Concentration per Run 1	0.0032 ppm	-0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0028 ppm	10.9313 ppm	-0.0001 ppm
Concentration per Run 2	0.0034 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0048 ppm	10.7680 ppm	-0.0003 ppm
Concentration per Run 3	0.0033 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0029 ppm	10.7624 ppm	-0.0001 ppm
Concentration RSD	2.8 %	289.3 %	257.8 %	299.3 %	32.5 %	0.9 %	52.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8825 ppm	0.0009 ppm	1.0278 ppm	10.8421 ppm	0.0006 ppm	0.5669 ppm	0.0005 ppm
Concentration per Run 1	10.9972 ppm	0.0009 ppm	1.0211 ppm	10.8730 ppm	0.0001 ppm	0.5683 ppm	-0.0027 ppm
Concentration per Run 2	10.8642 ppm	0.0009 ppm	1.0283 ppm	10.8456 ppm	0.0004 ppm	0.5699 ppm	0.0031 ppm
Concentration per Run 3	10.7861 ppm	0.0009 ppm	1.0339 ppm	10.8077 ppm	0.0014 ppm	0.5627 ppm	0.0010 ppm
Concentration RSD	1.0 %	4.7 %	0.6 %	0.3 %	108.2 %	0.7 %	642.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1296 ppm	0.6071 ppm	1.0902 ppm	1.0234 ppm	1.1074 ppm	0.1272 ppm	0.0000 ppm
Concentration per Run 1	0.1314 ppm	0.6136 ppm	1.0998 ppm	1.0260 ppm	1.1187 ppm	0.1277 ppm	0.0001 ppm
Concentration per Run 2	0.1308 ppm	0.6092 ppm	1.0860 ppm	1.0197 ppm	1.1054 ppm	0.1292 ppm	-0.0003 ppm
Concentration per Run 3	0.1268 ppm	0.5985 ppm	1.0849 ppm	1.0245 ppm	1.0982 ppm	0.1248 ppm	0.0002 ppm
Concentration RSD	1.9 %	1.3 %	0.8 %	0.3 %	0.9 %	1.8 %	6,955.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	93.7734 %	101.9215 %	95.9538 %	98.4378 %	103.0993 %	99.5216 %
Concentration per Run 1	0.0005 ppm	92.7521 %	101.5519 %	96.0337 %	98.3367 %	102.9738 %	99.8130 %
Concentration per Run 2	0.0007 ppm	94.1340 %	102.0984 %	95.6080 %	98.7885 %	103.1028 %	99.3191 %
Concentration per Run 3	0.0008 ppm	94.4342 %	102.1143 %	96.2198 %	98.1881 %	103.2213 %	99.4328 %
Concentration RSD	21.2 %	1.0 %	0.3 %	0.3 %	0.3 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-04D2 WG1935256
Analysis started at: 6/18/2024 8:45:09 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	104.8157 ppm	0.0612 ppm	0.0167 ppm	1.2547 ppm	0.0051 ppm	62.3235 ppm
Concentration per Run 1	0.0005 ppm	104.5187 ppm	0.0605 ppm	0.0170 ppm	1.2545 ppm	0.0052 ppm	62.1783 ppm
Concentration per Run 2	0.0009 ppm	104.8421 ppm	0.0624 ppm	0.0163 ppm	1.2546 ppm	0.0051 ppm	62.3900 ppm
Concentration per Run 3	0.0009 ppm	105.0863 ppm	0.0606 ppm	0.0167 ppm	1.2549 ppm	0.0051 ppm	62.4023 ppm
Concentration RSD	31.1 %	0.3 %	1.8 %	2.2 %	0.0 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0855 ppm	0.2033 ppm	0.3195 ppm	205.0027 ppm	44.5625 ppm	0.1979 ppm
Concentration per Run 1	0.0020 ppm	0.0856 ppm	0.2047 ppm	0.3203 ppm	205.1138 ppm	44.5967 ppm	0.2008 ppm
Concentration per Run 2	0.0021 ppm	0.0864 ppm	0.2029 ppm	0.3219 ppm	205.0962 ppm	44.4516 ppm	0.1973 ppm
Concentration per Run 3	0.0020 ppm	0.0844 ppm	0.2023 ppm	0.3163 ppm	204.7981 ppm	44.6392 ppm	0.1956 ppm
Concentration RSD	4.7 %	1.2 %	0.6 %	0.9 %	0.1 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.0381 ppm	1.7288 ppm	0.0088 ppm	1.8266 ppm	0.1878 ppm	1.1365 ppm	0.0071 ppm
Concentration per Run 1	58.5343 ppm	1.7249 ppm	0.0086 ppm	1.8274 ppm	0.1893 ppm	1.1239 ppm	0.0083 ppm
Concentration per Run 2	58.0870 ppm	1.7310 ppm	0.0084 ppm	1.8320 ppm	0.1874 ppm	1.1478 ppm	0.0060 ppm
Concentration per Run 3	57.4928 ppm	1.7305 ppm	0.0095 ppm	1.8204 ppm	0.1867 ppm	1.1378 ppm	0.0070 ppm
Concentration RSD	0.9 %	0.2 %	6.7 %	0.3 %	0.7 %	1.1 %	15.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	5.1831 ppm	0.0552 ppm	0.2520 ppm	9.5175 ppm	0.0087 ppm	0.2779 ppm
Concentration per Run 1	0.0035 ppm	5.2176 ppm	0.0560 ppm	0.2530 ppm	9.5929 ppm	0.0075 ppm	0.2813 ppm
Concentration per Run 2	0.0025 ppm	5.2305 ppm	0.0555 ppm	0.2520 ppm	9.5079 ppm	0.0113 ppm	0.2760 ppm
Concentration per Run 3	0.0040 ppm	5.1011 ppm	0.0541 ppm	0.2510 ppm	9.4519 ppm	0.0071 ppm	0.2763 ppm
Concentration RSD	22.4 %	1.4 %	1.8 %	0.4 %	0.7 %	26.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9920 ppm	103.5339 %	108.6668 %	92.7379 %	108.8273 %	115.2533 %	109.9484 %
Concentration per Run 1	1.0033 ppm	102.8541 %	108.6178 %	93.9816 %	108.2080 %	115.1437 %	111.8293 %
Concentration per Run 2	0.9899 ppm	103.4056 %	108.0187 %	92.2306 %	108.9888 %	114.5143 %	109.0573 %
Concentration per Run 3	0.9827 ppm	104.3421 %	109.3638 %	92.0016 %	109.2852 %	116.1020 %	108.9585 %
Concentration RSD	1.1 %	0.7 %	0.6 %	1.2 %	0.5 %	0.7 %	1.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-26D2 WG1935256
Analysis started at: 6/18/2024 8:49:05 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0017 ppm	95.5825 ppm	0.0278 ppm	0.1654 ppm	6.6481 ppm	0.0100 ppm	13.2026 ppm
Concentration per Run 1	-0.0016 ppm	96.0675 ppm	0.0264 ppm	0.1646 ppm	6.6669 ppm	0.0100 ppm	13.1983 ppm
Concentration per Run 2	-0.0019 ppm	95.4397 ppm	0.0290 ppm	0.1678 ppm	6.6634 ppm	0.0101 ppm	13.2047 ppm
Concentration per Run 3	-0.0017 ppm	95.2402 ppm	0.0281 ppm	0.1637 ppm	6.6140 ppm	0.0101 ppm	13.2049 ppm
Concentration RSD	9.3 %	0.5 %	4.8 %	1.3 %	0.4 %	0.5 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.1560 ppm	0.3103 ppm	0.0939 ppm	362.2457 ppm	13.6115 ppm	0.3799 ppm
Concentration per Run 1	0.0020 ppm	0.1565 ppm	0.3111 ppm	0.0941 ppm	361.9227 ppm	13.6990 ppm	0.3810 ppm
Concentration per Run 2	0.0018 ppm	0.1554 ppm	0.3107 ppm	0.0933 ppm	362.6312 ppm	13.5837 ppm	0.3787 ppm
Concentration per Run 3	0.0020 ppm	0.1561 ppm	0.3091 ppm	0.0944 ppm	362.1833 ppm	13.5518 ppm	0.3801 ppm
Concentration RSD	6.8 %	0.4 %	0.3 %	0.6 %	0.1 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.1139 ppm	32.1176 ppm	0.0071 ppm	1.7918 ppm	0.3358 ppm	0.1704 ppm	0.0076 ppm
Concentration per Run 1	55.2072 ppm	32.1540 ppm	0.0068 ppm	1.7852 ppm	0.3383 ppm	0.1704 ppm	0.0110 ppm
Concentration per Run 2	55.1392 ppm	32.1248 ppm	0.0074 ppm	1.7884 ppm	0.3349 ppm	0.1706 ppm	0.0050 ppm
Concentration per Run 3	54.9953 ppm	32.0741 ppm	0.0072 ppm	1.8017 ppm	0.3342 ppm	0.1702 ppm	0.0066 ppm
Concentration RSD	0.2 %	0.1 %	4.6 %	0.5 %	0.7 %	0.1 %	40.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0056 ppm	4.0789 ppm	0.0081 ppm	0.0979 ppm	5.1589 ppm	-0.0002 ppm	0.4442 ppm
Concentration per Run 1	-0.0058 ppm	4.1101 ppm	0.0085 ppm	0.0973 ppm	5.1590 ppm	-0.0001 ppm	0.4433 ppm
Concentration per Run 2	-0.0063 ppm	4.0479 ppm	0.0079 ppm	0.0979 ppm	5.1748 ppm	-0.0008 ppm	0.4471 ppm
Concentration per Run 3	-0.0048 ppm	4.0787 ppm	0.0079 ppm	0.0984 ppm	5.1429 ppm	0.0002 ppm	0.4421 ppm
Concentration RSD	12.8 %	0.8 %	4.2 %	0.6 %	0.3 %	207.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6421 ppm	111.9473 %	117.4602 %	99.8211 %	143.8243 %	**153.7402 %**	**145.5523 %**
Concentration per Run 1	0.6445 ppm	111.5971 %	118.2820 %	100.0096 %	143.1958 %	**154.4463 %**	**145.6532 %**
Concentration per Run 2	0.6451 ppm	112.2064 %	116.9135 %	99.8301 %	144.0965 %	**152.9327 %**	**145.5814 %**
Concentration per Run 3	0.6369 ppm	112.0383 %	117.1852 %	99.6237 %	144.1805 %	**153.8414 %**	**145.4223 %**
Concentration RSD	0.7 %	0.3 %	0.6 %	0.2 %	0.4 %	**0.5 %**	**0.1 %**

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-45D2 WG1935256
Analysis started at: 6/18/2024 8:53:00 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	111.3349 ppm	0.2377 ppm	0.0217 ppm	0.9115 ppm	0.0136 ppm	19.2501 ppm
Concentration per Run 1	0.0002 ppm	111.6863 ppm	0.2358 ppm	0.0215 ppm	0.9154 ppm	0.0136 ppm	19.2560 ppm
Concentration per Run 2	0.0001 ppm	111.3930 ppm	0.2384 ppm	0.0221 ppm	0.9110 ppm	0.0136 ppm	19.2826 ppm
Concentration per Run 3	-0.0002 ppm	110.9254 ppm	0.2388 ppm	0.0214 ppm	0.9081 ppm	0.0136 ppm	19.2116 ppm
Concentration RSD	843.7 %	0.3 %	0.7 %	1.8 %	0.4 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.1484 ppm	0.2499 ppm	0.2621 ppm	347.3647 ppm	4.1142 ppm	0.1344 ppm
Concentration per Run 1	0.0011 ppm	0.1471 ppm	0.2488 ppm	0.2612 ppm	347.9683 ppm	4.1580 ppm	0.1354 ppm
Concentration per Run 2	0.0011 ppm	0.1493 ppm	0.2510 ppm	0.2625 ppm	347.6664 ppm	4.1353 ppm	0.1351 ppm
Concentration per Run 3	0.0013 ppm	0.1487 ppm	0.2498 ppm	0.2625 ppm	346.4594 ppm	4.0491 ppm	0.1326 ppm
Concentration RSD	9.8 %	0.7 %	0.4 %	0.3 %	0.2 %	1.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.6939 ppm	23.3168 ppm	0.0031 ppm	1.1043 ppm	0.1125 ppm	0.2832 ppm	0.0084 ppm
Concentration per Run 1	15.6164 ppm	23.3585 ppm	0.0029 ppm	1.1076 ppm	0.1123 ppm	0.2799 ppm	0.0080 ppm
Concentration per Run 2	15.7653 ppm	23.3075 ppm	0.0033 ppm	1.1016 ppm	0.1116 ppm	0.2857 ppm	0.0071 ppm
Concentration per Run 3	15.7001 ppm	23.2844 ppm	0.0031 ppm	1.1036 ppm	0.1136 ppm	0.2841 ppm	0.0101 ppm
Concentration RSD	0.5 %	0.2 %	5.9 %	0.3 %	0.9 %	1.1 %	18.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	6.2503 ppm	0.0149 ppm	0.1739 ppm	0.4162 ppm	-0.0025 ppm	0.4716 ppm
Concentration per Run 1	0.0047 ppm	6.2500 ppm	0.0141 ppm	0.1744 ppm	0.4069 ppm	-0.0011 ppm	0.4699 ppm
Concentration per Run 2	0.0038 ppm	6.2487 ppm	0.0152 ppm	0.1734 ppm	0.4272 ppm	-0.0025 ppm	0.4726 ppm
Concentration per Run 3	0.0023 ppm	6.2523 ppm	0.0153 ppm	0.1740 ppm	0.4147 ppm	-0.0038 ppm	0.4723 ppm
Concentration RSD	33.4 %	0.0 %	4.4 %	0.3 %	2.5 %	55.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3519 ppm	103.5837 %	110.3555 %	96.9843 %	110.9858 %	120.6152 %	112.9486 %
Concentration per Run 1	0.3503 ppm	104.9343 %	110.8911 %	97.1948 %	111.8391 %	121.5200 %	112.6283 %
Concentration per Run 2	0.3544 ppm	102.7205 %	109.9981 %	96.8489 %	110.2714 %	119.7559 %	113.2236 %
Concentration per Run 3	0.3509 ppm	103.0963 %	110.1774 %	96.9091 %	110.8470 %	120.5697 %	112.9939 %
Concentration RSD	0.6 %	1.1 %	0.4 %	0.2 %	0.7 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-46D2 WG1935256
Analysis started at: 6/18/2024 8:56:55 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0012 ppm	84.5738 ppm	0.0182 ppm	0.1534 ppm	2.1122 ppm	0.0072 ppm	17.2421 ppm
Concentration per Run 1	-0.0005 ppm	84.7376 ppm	0.0191 ppm	0.1534 ppm	2.1014 ppm	0.0073 ppm	17.3718 ppm
Concentration per Run 2	-0.0018 ppm	84.4494 ppm	0.0164 ppm	0.1549 ppm	2.1108 ppm	0.0071 ppm	17.2143 ppm
Concentration per Run 3	-0.0012 ppm	84.5343 ppm	0.0192 ppm	0.1519 ppm	2.1245 ppm	0.0071 ppm	17.1402 ppm
Concentration RSD	52.8 %	0.2 %	8.7 %	1.0 %	0.6 %	2.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.1228 ppm	0.2725 ppm	0.0870 ppm	294.8706 ppm	12.6598 ppm	0.4521 ppm
Concentration per Run 1	0.0009 ppm	0.1237 ppm	0.2726 ppm	0.0886 ppm	296.4957 ppm	12.6550 ppm	0.4548 ppm
Concentration per Run 2	0.0007 ppm	0.1227 ppm	0.2726 ppm	0.0852 ppm	294.1522 ppm	12.6364 ppm	0.4509 ppm
Concentration per Run 3	0.0009 ppm	0.1220 ppm	0.2722 ppm	0.0871 ppm	293.9638 ppm	12.6879 ppm	0.4506 ppm
Concentration RSD	17.2 %	0.7 %	0.1 %	2.0 %	0.5 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.7564 ppm	12.3226 ppm	0.0028 ppm	2.1180 ppm	0.3004 ppm	0.1391 ppm	0.0064 ppm
Concentration per Run 1	67.9668 ppm	12.3672 ppm	0.0031 ppm	2.1497 ppm	0.3016 ppm	0.1394 ppm	0.0057 ppm
Concentration per Run 2	67.7582 ppm	12.3098 ppm	0.0031 ppm	2.1037 ppm	0.3002 ppm	0.1395 ppm	0.0062 ppm
Concentration per Run 3	67.5441 ppm	12.2909 ppm	0.0023 ppm	2.1006 ppm	0.2993 ppm	0.1383 ppm	0.0074 ppm
Concentration RSD	0.3 %	0.3 %	16.1 %	1.3 %	0.4 %	0.5 %	14.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	5.0229 ppm	0.0060 ppm	0.0850 ppm	3.5490 ppm	0.0007 ppm	0.2926 ppm
Concentration per Run 1	0.0025 ppm	5.0370 ppm	0.0055 ppm	0.0857 ppm	3.5513 ppm	0.0003 ppm	0.2909 ppm
Concentration per Run 2	-0.0030 ppm	5.0432 ppm	0.0054 ppm	0.0848 ppm	3.5441 ppm	0.0019 ppm	0.2950 ppm
Concentration per Run 3	-0.0013 ppm	4.9885 ppm	0.0070 ppm	0.0846 ppm	3.5516 ppm	0.0000 ppm	0.2919 ppm
Concentration RSD	469.6 %	0.6 %	15.2 %	0.7 %	0.1 %	140.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6258 ppm	106.6927 %	112.5565 %	98.4611 %	129.4426 %	138.3527 %	130.8459 %
Concentration per Run 1	0.6281 ppm	106.2581 %	111.4102 %	98.5065 %	129.4285 %	138.1202 %	130.5932 %
Concentration per Run 2	0.6279 ppm	106.7417 %	112.8092 %	98.0943 %	129.1685 %	138.2669 %	130.9090 %
Concentration per Run 3	0.6213 ppm	107.0784 %	113.4503 %	98.7825 %	129.7308 %	138.6711 %	131.0355 %
Concentration RSD	0.6 %	0.4 %	0.9 %	0.4 %	0.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-47D2 WG1935256
Analysis started at: 6/18/2024 9:00:51 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	108.4644 ppm	0.5486 ppm	0.0271 ppm	0.8978 ppm	0.0087 ppm	17.0452 ppm
Concentration per Run 1	0.0017 ppm	108.6454 ppm	0.5504 ppm	0.0275 ppm	0.8995 ppm	0.0087 ppm	17.0924 ppm
Concentration per Run 2	0.0015 ppm	108.8500 ppm	0.5459 ppm	0.0282 ppm	0.9006 ppm	0.0087 ppm	17.0712 ppm
Concentration per Run 3	0.0019 ppm	107.8977 ppm	0.5493 ppm	0.0257 ppm	0.8933 ppm	0.0088 ppm	16.9719 ppm
Concentration RSD	9.5 %	0.5 %	0.4 %	4.6 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0715 ppm	0.4023 ppm	0.5120 ppm	170.2632 ppm	5.3709 ppm	0.2732 ppm
Concentration per Run 1	0.0039 ppm	0.0722 ppm	0.4054 ppm	0.5163 ppm	170.5749 ppm	5.4092 ppm	0.2773 ppm
Concentration per Run 2	0.0036 ppm	0.0714 ppm	0.4006 ppm	0.5117 ppm	170.5697 ppm	5.4225 ppm	0.2758 ppm
Concentration per Run 3	0.0037 ppm	0.0710 ppm	0.4009 ppm	0.5080 ppm	169.6450 ppm	5.2809 ppm	0.2665 ppm
Concentration RSD	3.6 %	0.9 %	0.7 %	0.8 %	0.3 %	1.5 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.1050 ppm	2.3449 ppm	0.0049 ppm	0.8995 ppm	0.1630 ppm	0.7748 ppm	0.0146 ppm
Concentration per Run 1	20.2235 ppm	2.3459 ppm	0.0043 ppm	0.9043 ppm	0.1638 ppm	0.7783 ppm	0.0113 ppm
Concentration per Run 2	20.0889 ppm	2.3514 ppm	0.0054 ppm	0.9006 ppm	0.1627 ppm	0.7703 ppm	0.0192 ppm
Concentration per Run 3	20.0027 ppm	2.3374 ppm	0.0052 ppm	0.8935 ppm	0.1626 ppm	0.7759 ppm	0.0133 ppm
Concentration RSD	0.6 %	0.3 %	11.9 %	0.6 %	0.4 %	0.5 %	28.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	5.4395 ppm	0.0299 ppm	0.1351 ppm	0.4401 ppm	0.0024 ppm	0.3153 ppm
Concentration per Run 1	0.0064 ppm	5.5359 ppm	0.0290 ppm	0.1354 ppm	0.4440 ppm	0.0025 ppm	0.3165 ppm
Concentration per Run 2	0.0027 ppm	5.3895 ppm	0.0308 ppm	0.1349 ppm	0.4395 ppm	0.0027 ppm	0.3156 ppm
Concentration per Run 3	0.0033 ppm	5.3930 ppm	0.0298 ppm	0.1351 ppm	0.4369 ppm	0.0018 ppm	0.3137 ppm
Concentration RSD	47.7 %	1.5 %	3.0 %	0.2 %	0.8 %	20.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4364 ppm	102.8437 %	112.2071 %	99.4494 %	116.5819 %	127.1753 %	117.7610 %
Concentration per Run 1	1.4471 ppm	102.2579 %	111.9357 %	99.3228 %	116.1712 %	126.9061 %	117.9591 %
Concentration per Run 2	1.4329 ppm	103.0477 %	112.3773 %	99.5630 %	116.6088 %	127.8533 %	117.6357 %
Concentration per Run 3	1.4291 ppm	103.2254 %	112.3085 %	99.4624 %	116.9658 %	126.7666 %	117.6882 %
Concentration RSD	0.7 %	0.5 %	0.2 %	0.1 %	0.3 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-48D2 WG1935256
Analysis started at: 6/18/2024 9:04:47 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0017 ppm	90.8280 ppm	0.0235 ppm	0.1552 ppm	6.2049 ppm	0.0090 ppm	22.7195 ppm
Concentration per Run 1	-0.0011 ppm	90.8746 ppm	0.0229 ppm	0.1546 ppm	6.2166 ppm	0.0091 ppm	22.7223 ppm
Concentration per Run 2	-0.0021 ppm	90.9147 ppm	0.0254 ppm	0.1564 ppm	6.2032 ppm	0.0090 ppm	22.7588 ppm
Concentration per Run 3	-0.0019 ppm	90.6948 ppm	0.0222 ppm	0.1546 ppm	6.1951 ppm	0.0089 ppm	22.6774 ppm
Concentration RSD	33.5 %	0.1 %	7.1 %	0.7 %	0.2 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1390 ppm	0.2659 ppm	0.0820 ppm	278.6113 ppm	21.5703 ppm	0.4399 ppm
Concentration per Run 1	0.0017 ppm	0.1393 ppm	0.2662 ppm	0.0828 ppm	280.0453 ppm	21.6355 ppm	0.4411 ppm
Concentration per Run 2	0.0015 ppm	0.1392 ppm	0.2662 ppm	0.0811 ppm	277.8985 ppm	21.5783 ppm	0.4410 ppm
Concentration per Run 3	0.0017 ppm	0.1386 ppm	0.2653 ppm	0.0820 ppm	277.8901 ppm	21.4970 ppm	0.4375 ppm
Concentration RSD	6.7 %	0.2 %	0.2 %	1.0 %	0.4 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	71.8887 ppm	30.3198 ppm	0.0030 ppm	2.4943 ppm	0.2939 ppm	0.1777 ppm	0.0061 ppm
Concentration per Run 1	72.2626 ppm	30.3908 ppm	0.0035 ppm	2.5097 ppm	0.2960 ppm	0.1768 ppm	0.0070 ppm
Concentration per Run 2	71.8612 ppm	30.3076 ppm	0.0027 ppm	2.4874 ppm	0.2943 ppm	0.1769 ppm	0.0046 ppm
Concentration per Run 3	71.5423 ppm	30.2611 ppm	0.0028 ppm	2.4859 ppm	0.2915 ppm	0.1794 ppm	0.0067 ppm
Concentration RSD	0.5 %	0.2 %	14.8 %	0.5 %	0.8 %	0.8 %	21.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0052 ppm	4.3345 ppm	0.0063 ppm	0.1208 ppm	5.5047 ppm	0.0021 ppm	0.3735 ppm
Concentration per Run 1	-0.0044 ppm	4.3498 ppm	0.0057 ppm	0.1217 ppm	5.5188 ppm	0.0012 ppm	0.3732 ppm
Concentration per Run 2	-0.0070 ppm	4.3299 ppm	0.0065 ppm	0.1205 ppm	5.5091 ppm	0.0032 ppm	0.3756 ppm
Concentration per Run 3	-0.0042 ppm	4.3238 ppm	0.0067 ppm	0.1203 ppm	5.4862 ppm	0.0019 ppm	0.3716 ppm
Concentration RSD	29.8 %	0.3 %	8.5 %	0.6 %	0.3 %	47.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6419 ppm	109.0180 %	113.6623 %	97.7273 %	142.3939 %	**150.0791 %**	143.0826 %
Concentration per Run 1	0.6424 ppm	109.0419 %	113.4143 %	97.8566 %	142.4489 %	**150.3726 %**	143.1296 %
Concentration per Run 2	0.6458 ppm	108.8904 %	114.3380 %	97.8230 %	142.3374 %	**150.7222 %**	143.3749 %
Concentration per Run 3	0.6376 ppm	109.1217 %	113.2345 %	97.5024 %	142.3953 %	**149.1424 %**	142.7433 %
Concentration RSD	0.6 %	0.1 %	0.5 %	0.2 %	0.0 %	**0.6 %**	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:08:44 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5154 ppm	0.5082 ppm	0.4875 ppm	0.5122 ppm	0.5169 ppm	0.5173 ppm	0.5037 ppm
Concentration per Run 1	0.5120 ppm	0.5057 ppm	0.4869 ppm	0.5086 ppm	0.5160 ppm	0.5148 ppm	0.5052 ppm
Concentration per Run 2	0.5159 ppm	0.5095 ppm	0.4873 ppm	0.5146 ppm	0.5173 ppm	0.5191 ppm	0.5007 ppm
Concentration per Run 3	0.5182 ppm	0.5094 ppm	0.4884 ppm	0.5133 ppm	0.5174 ppm	0.5179 ppm	0.5051 ppm
Recovery Percentage 1	103.080 %	101.638 %	97.504 %	102.436 %	103.376 %	103.455 %	100.737 %
Concentration RSD	0.6 %	0.4 %	0.2 %	0.6 %	0.2 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5216 ppm	0.5227 ppm	0.5151 ppm	0.5028 ppm	0.5364 ppm	5.2665 ppm	0.4910 ppm
Concentration per Run 1	0.5208 ppm	0.5223 ppm	0.5120 ppm	0.5009 ppm	0.5367 ppm	5.2680 ppm	0.4901 ppm
Concentration per Run 2	0.5212 ppm	0.5225 ppm	0.5166 ppm	0.5036 ppm	0.5367 ppm	5.2200 ppm	0.4887 ppm
Concentration per Run 3	0.5226 ppm	0.5232 ppm	0.5166 ppm	0.5039 ppm	0.5359 ppm	5.3116 ppm	0.4940 ppm
Recovery Percentage 1	104.311 %	104.536 %	103.010 %	100.555 %	107.285 %	105.331 %	98.194 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.3 %	0.1 %	0.9 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5087 ppm	0.5035 ppm	0.5114 ppm	10.5067 ppm	0.5290 ppm	0.5065 ppm	0.5042 ppm
Concentration per Run 1	0.5093 ppm	0.5039 ppm	0.5024 ppm	10.4879 ppm	0.5275 ppm	0.5071 ppm	0.5022 ppm
Concentration per Run 2	0.5094 ppm	0.5013 ppm	0.5130 ppm	10.5207 ppm	0.5294 ppm	0.5054 ppm	0.5043 ppm
Concentration per Run 3	0.5073 ppm	0.5053 ppm	0.5189 ppm	10.5116 ppm	0.5301 ppm	0.5069 ppm	0.5062 ppm
Recovery Percentage 1	101.735 %	100.697 %	102.289 %	105.067 %	105.803 %	101.296 %	100.848 %
Concentration RSD	0.2 %	0.4 %	1.6 %	0.2 %	0.3 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5011 ppm	5.3433 ppm	0.5410 ppm	0.5114 ppm	0.5198 ppm	0.4995 ppm	0.5120 ppm
Concentration per Run 1	0.4947 ppm	5.3176 ppm	0.5371 ppm	0.5092 ppm	0.5184 ppm	0.4997 ppm	0.5103 ppm
Concentration per Run 2	0.5027 ppm	5.3490 ppm	0.5419 ppm	0.5117 ppm	0.5209 ppm	0.4968 ppm	0.5134 ppm
Concentration per Run 3	0.5059 ppm	5.3633 ppm	0.5441 ppm	0.5133 ppm	0.5202 ppm	0.5019 ppm	0.5122 ppm
Recovery Percentage 1	100.218 %	101.777 %	108.204 %	102.276 %	103.966 %	99.902 %	102.391 %
Concentration RSD	1.2 %	0.4 %	0.7 %	0.4 %	0.2 %	0.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5310 ppm	99.3773 %	104.2593 %	100.0265 %	97.7333 %	102.4981 %	98.6835 %
Concentration per Run 1	0.5291 ppm	99.0639 %	104.6045 %	99.8411 %	97.4646 %	102.8286 %	98.4530 %
Concentration per Run 2	0.5330 ppm	99.9584 %	104.4882 %	100.0254 %	98.4172 %	102.4540 %	98.6260 %
Concentration per Run 3	0.5308 ppm	99.1096 %	103.6853 %	100.2130 %	97.3181 %	102.2117 %	98.9715 %
Recovery Percentage 1	106.194 %						
Concentration RSD	0.4 %	0.5 %	0.5 %	0.2 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:12:40 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0112 ppm	0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	-0.0043 ppm
Concentration per Run 1	0.0002 ppm	-0.0103 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 2	-0.0002 ppm	-0.0136 ppm	-0.0014 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 3	0.0002 ppm	-0.0097 ppm	0.0017 ppm	0.0019 ppm	-0.0004 ppm	0.0000 ppm	-0.0081 ppm
Recovery Percentage 1	0.976 %	-11.218 %	6.260 %	2.889 %	-1.639 %	0.168 %	-4.265 %
Concentration RSD	298.9 %	18.7 %	806.6 %	112.3 %	118.5 %	674.7 %	79.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0054 ppm	0.0351 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0034 ppm	0.0502 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0075 ppm	0.0406 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0053 ppm	0.0145 ppm	-0.0002 ppm
Recovery Percentage 1	-0.388 %	-0.007 %	-1.678 %	-0.738 %	10.809 %	1.404 %	-1.243 %
Concentration RSD	244.1 %	19,281.5 %	217.9 %	509.9 %	37.4 %	52.7 %	371.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0003 ppm	-0.0013 ppm	0.0067 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0026 ppm	0.0003 ppm	-0.0013 ppm	0.0017 ppm	0.0016 ppm	-0.0006 ppm	0.0029 ppm
Concentration per Run 2	-0.0015 ppm	0.0003 ppm	-0.0010 ppm	0.0039 ppm	0.0007 ppm	0.0004 ppm	-0.0034 ppm
Concentration per Run 3	-0.0008 ppm	0.0003 ppm	-0.0016 ppm	0.0145 ppm	-0.0001 ppm	-0.0001 ppm	-0.0006 ppm
Recovery Percentage 1	-1.637 %	3.315 %	-2.669 %	0.334 %	2.929 %	-1.031 %	-0.678 %
Concentration RSD	52.5 %	2.9 %	21.4 %	102.6 %	112.5 %	500.3 %	939.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0009 ppm	0.0001 ppm	-0.0004 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0003 ppm	0.0006 ppm	0.0002 ppm	-0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0021 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0003 ppm	0.0029 ppm	0.0016 ppm	0.0000 ppm	-0.0001 ppm	-0.0014 ppm	-0.0003 ppm
Recovery Percentage 1	-0.575 %	0.186 %	1.761 %	1.271 %	-3.510 %	-5.217 %	-1.961 %
Concentration RSD	3,342.8 %	183.6 %	75.7 %	116.2 %	75.8 %	31.6 %	76.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.9988 %	100.4228 %	96.1894 %	98.1161 %	103.1491 %	99.7616 %
Concentration per Run 1	0.0006 ppm	91.7535 %	100.9262 %	95.5552 %	97.4460 %	103.7015 %	99.5847 %
Concentration per Run 2	0.0005 ppm	92.7625 %	100.1214 %	96.4731 %	97.9364 %	102.6876 %	100.1394 %
Concentration per Run 3	0.0005 ppm	94.4804 %	100.2207 %	96.5398 %	98.9657 %	103.0583 %	99.5607 %
Recovery Percentage 1	10.303 %						
Concentration RSD	12.2 %	1.5 %	0.4 %	0.6 %	0.8 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935259-1 WG1935259
Analysis started at: 6/18/2024 9:24:26 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0265 ppm
Concentration per Run 1	0.0004 ppm	0.0017 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0256 ppm
Concentration per Run 2	-0.0005 ppm	0.0003 ppm	-0.0018 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0291 ppm
Concentration per Run 3	0.0004 ppm	-0.0006 ppm	0.0011 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0246 ppm
Recovery Percentage 1	1.590 %	0.452 %	5.158 %	-1.125 %	1.382 %	-0.716 %	26.454 %
Concentration RSD	493.0 %	248.1 %	1,100.4 %	146.7 %	99.2 %	26.4 %	8.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0222 ppm	0.0542 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	0.0231 ppm	0.0754 ppm	-0.0017 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0008 ppm	0.0013 ppm	0.0228 ppm	0.0285 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0208 ppm	0.0588 ppm	0.0002 ppm
Recovery Percentage 1	-2.178 %	-1.174 %	5.022 %	9.975 %	44.462 %	2.169 %	-2.354 %
Concentration RSD	81.5 %	112.4 %	65.3 %	33.9 %	5.5 %	43.9 %	565.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0040 ppm	0.0007 ppm	-0.0027 ppm	0.0389 ppm	0.0014 ppm	0.0006 ppm	-0.0021 ppm
Concentration per Run 1	0.0052 ppm	0.0009 ppm	-0.0027 ppm	0.0358 ppm	0.0022 ppm	0.0007 ppm	-0.0006 ppm
Concentration per Run 2	0.0031 ppm	0.0008 ppm	-0.0024 ppm	0.0408 ppm	0.0006 ppm	0.0006 ppm	-0.0031 ppm
Concentration per Run 3	0.0039 ppm	0.0006 ppm	-0.0029 ppm	0.0402 ppm	0.0014 ppm	0.0004 ppm	-0.0026 ppm
Recovery Percentage 1	4.039 %	7.473 %	-5.347 %	1.947 %	5.626 %	5.797 %	-4.212 %
Concentration RSD	26.5 %	19.7 %	10.4 %	7.0 %	57.9 %	31.4 %	62.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0049 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	0.0057 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0017 ppm	-0.0002 ppm
Concentration per Run 2	-0.0018 ppm	0.0063 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0028 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	-5.479 %	0.988 %	0.850 %	2.796 %	-0.199 %	-6.069 %	-0.143 %
Concentration RSD	230.7 %	37.2 %	127.0 %	17.3 %	108.7 %	69.7 %	1,188.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0038 ppm	99.9189 %	102.7310 %	101.3818 %	103.3124 %	103.4902 %	102.6830 %
Concentration per Run 1	0.0037 ppm	99.3485 %	103.0038 %	101.1325 %	103.1677 %	103.9847 %	102.8245 %
Concentration per Run 2	0.0039 ppm	99.8505 %	102.8077 %	101.5912 %	103.2723 %	103.7850 %	102.7866 %
Concentration per Run 3	0.0037 ppm	100.5578 %	102.3814 %	101.4218 %	103.4972 %	102.7009 %	102.4377 %
Recovery Percentage 1	75.193 %						
Concentration RSD	2.7 %	0.6 %	0.3 %	0.2 %	0.2 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-49D2 WG1935256
Analysis started at: 6/18/2024 9:28:37 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	92.1909 ppm	0.0646 ppm	0.0255 ppm	0.5316 ppm	0.0044 ppm	8.2668 ppm
Concentration per Run 1	0.0005 ppm	92.1750 ppm	0.0636 ppm	0.0259 ppm	0.5323 ppm	0.0043 ppm	8.2642 ppm
Concentration per Run 2	0.0001 ppm	92.1966 ppm	0.0631 ppm	0.0235 ppm	0.5312 ppm	0.0044 ppm	8.2522 ppm
Concentration per Run 3	0.0004 ppm	92.2012 ppm	0.0669 ppm	0.0271 ppm	0.5313 ppm	0.0044 ppm	8.2840 ppm
Concentration RSD	62.2 %	0.0 %	3.2 %	7.3 %	0.1 %	0.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0562 ppm	0.1714 ppm	0.0995 ppm	188.5431 ppm	4.6786 ppm	0.1493 ppm
Concentration per Run 1	0.0005 ppm	0.0560 ppm	0.1719 ppm	0.1002 ppm	188.4152 ppm	4.7410 ppm	0.1528 ppm
Concentration per Run 2	0.0003 ppm	0.0564 ppm	0.1706 ppm	0.0981 ppm	188.1799 ppm	4.6453 ppm	0.1472 ppm
Concentration per Run 3	0.0007 ppm	0.0561 ppm	0.1718 ppm	0.1003 ppm	189.0343 ppm	4.6494 ppm	0.1477 ppm
Concentration RSD	37.1 %	0.3 %	0.4 %	1.2 %	0.2 %	1.2 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5456 ppm	2.9717 ppm	0.0030 ppm	0.6325 ppm	0.1102 ppm	0.1567 ppm	0.0038 ppm
Concentration per Run 1	21.5906 ppm	2.9710 ppm	0.0029 ppm	0.6314 ppm	0.1112 ppm	0.1571 ppm	0.0060 ppm
Concentration per Run 2	21.5073 ppm	2.9708 ppm	0.0030 ppm	0.6357 ppm	0.1100 ppm	0.1566 ppm	-0.0017 ppm
Concentration per Run 3	21.5390 ppm	2.9734 ppm	0.0030 ppm	0.6303 ppm	0.1095 ppm	0.1566 ppm	0.0071 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.4 %	0.8 %	0.2 %	127.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	4.7376 ppm	0.0093 ppm	0.0724 ppm	0.9738 ppm	0.0005 ppm	0.2668 ppm
Concentration per Run 1	0.0055 ppm	4.6957 ppm	0.0101 ppm	0.0725 ppm	0.9727 ppm	0.0013 ppm	0.2664 ppm
Concentration per Run 2	0.0035 ppm	4.7343 ppm	0.0084 ppm	0.0721 ppm	0.9749 ppm	0.0003 ppm	0.2686 ppm
Concentration per Run 3	0.0006 ppm	4.7830 ppm	0.0093 ppm	0.0726 ppm	0.9737 ppm	-0.0001 ppm	0.2654 ppm
Concentration RSD	76.1 %	0.9 %	9.1 %	0.4 %	0.1 %	153.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4736 ppm	102.3650 %	107.9270 %	98.3177 %	103.5076 %	110.3228 %	104.2881 %
Concentration per Run 1	0.4741 ppm	102.2597 %	108.5260 %	98.5725 %	103.4290 %	110.9408 %	104.1875 %
Concentration per Run 2	0.4738 ppm	102.3930 %	107.9664 %	97.7754 %	103.3995 %	110.2007 %	103.7917 %
Concentration per Run 3	0.4729 ppm	102.4422 %	107.2884 %	98.6053 %	103.6942 %	109.8269 %	104.8851 %
Concentration RSD	0.1 %	0.1 %	0.6 %	0.5 %	0.2 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-50D2 WG1935256
Analysis started at: 6/18/2024 9:33:31 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0013 ppm	117.7093 ppm	0.0288 ppm	0.1665 ppm	1.3782 ppm	0.0145 ppm	15.1980 ppm
Concentration per Run 1	-0.0013 ppm	117.9300 ppm	0.0298 ppm	0.1665 ppm	1.3804 ppm	0.0147 ppm	15.2455 ppm
Concentration per Run 2	-0.0012 ppm	117.2128 ppm	0.0284 ppm	0.1669 ppm	1.3715 ppm	0.0144 ppm	15.1279 ppm
Concentration per Run 3	-0.0012 ppm	117.9852 ppm	0.0281 ppm	0.1660 ppm	1.3827 ppm	0.0145 ppm	15.2207 ppm
Concentration RSD	5.0 %	0.4 %	3.1 %	0.3 %	0.4 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1684 ppm	0.3246 ppm	0.0746 ppm	355.6047 ppm	28.6694 ppm	0.4521 ppm
Concentration per Run 1	0.0013 ppm	0.1688 ppm	0.3248 ppm	0.0740 ppm	357.9241 ppm	28.8675 ppm	0.4558 ppm
Concentration per Run 2	0.0011 ppm	0.1679 ppm	0.3254 ppm	0.0750 ppm	353.1294 ppm	28.4756 ppm	0.4478 ppm
Concentration per Run 3	0.0012 ppm	0.1684 ppm	0.3235 ppm	0.0748 ppm	355.7605 ppm	28.6651 ppm	0.4529 ppm
Concentration RSD	7.9 %	0.2 %	0.3 %	0.7 %	0.7 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.8581 ppm	8.1802 ppm	0.0047 ppm	2.6800 ppm	0.3853 ppm	0.2383 ppm	0.0096 ppm
Concentration per Run 1	80.1406 ppm	8.1939 ppm	0.0046 ppm	2.6995 ppm	0.3885 ppm	0.2383 ppm	0.0109 ppm
Concentration per Run 2	79.7642 ppm	8.1633 ppm	0.0048 ppm	2.6548 ppm	0.3834 ppm	0.2365 ppm	0.0072 ppm
Concentration per Run 3	79.6695 ppm	8.1833 ppm	0.0046 ppm	2.6857 ppm	0.3838 ppm	0.2400 ppm	0.0108 ppm
Concentration RSD	0.3 %	0.2 %	1.8 %	0.9 %	0.7 %	0.7 %	21.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0036 ppm	4.4108 ppm	0.0074 ppm	0.1220 ppm	7.4763 ppm	0.0093 ppm	0.4246 ppm
Concentration per Run 1	-0.0032 ppm	4.4497 ppm	0.0079 ppm	0.1230 ppm	7.4853 ppm	0.0071 ppm	0.4247 ppm
Concentration per Run 2	-0.0051 ppm	4.3930 ppm	0.0076 ppm	0.1211 ppm	7.4773 ppm	0.0115 ppm	0.4242 ppm
Concentration per Run 3	-0.0026 ppm	4.3898 ppm	0.0066 ppm	0.1219 ppm	7.4663 ppm	0.0095 ppm	0.4248 ppm
Concentration RSD	37.1 %	0.8 %	8.7 %	0.8 %	0.1 %	23.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8015 ppm	112.9691 %	113.6619 %	98.1497 %	**180.8563 %**	**185.1024 %**	**181.2575 %**
Concentration per Run 1	0.8046 ppm	112.6451 %	112.5335 %	98.3086 %	**179.9983 %**	**183.9081 %**	**181.1381 %**
Concentration per Run 2	0.8017 ppm	113.5851 %	114.6217 %	97.9813 %	**181.9184 %**	**185.3374 %**	**180.7981 %**
Concentration per Run 3	0.7981 ppm	112.6771 %	113.8304 %	98.1591 %	**180.6522 %**	**186.0618 %**	**181.8364 %**
Concentration RSD	0.4 %	0.5 %	0.9 %	0.2 %	**0.5 %**	**0.6 %**	**0.3 %**

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-55D2 WG1935256
Analysis started at: 6/18/2024 9:37:36 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	139.6350 ppm	0.0430 ppm	0.1380 ppm	1.0627 ppm	0.0102 ppm	40.1803 ppm
Concentration per Run 1	-0.0006 ppm	140.1119 ppm	0.0426 ppm	0.1386 ppm	1.0640 ppm	0.0103 ppm	40.3105 ppm
Concentration per Run 2	-0.0001 ppm	139.0871 ppm	0.0453 ppm	0.1369 ppm	1.0547 ppm	0.0103 ppm	40.2961 ppm
Concentration per Run 3	0.0004 ppm	139.7059 ppm	0.0411 ppm	0.1384 ppm	1.0693 ppm	0.0100 ppm	39.9344 ppm
Concentration RSD	735.5 %	0.4 %	4.9 %	0.7 %	0.7 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1622 ppm	0.3139 ppm	0.1621 ppm	319.5922 ppm	18.8773 ppm	0.5080 ppm
Concentration per Run 1	0.0013 ppm	0.1614 ppm	0.3121 ppm	0.1607 ppm	321.1798 ppm	19.0197 ppm	0.5110 ppm
Concentration per Run 2	0.0018 ppm	0.1635 ppm	0.3140 ppm	0.1614 ppm	317.8727 ppm	18.5460 ppm	0.5017 ppm
Concentration per Run 3	0.0017 ppm	0.1617 ppm	0.3155 ppm	0.1642 ppm	319.7240 ppm	19.0664 ppm	0.5115 ppm
Concentration RSD	17.9 %	0.7 %	0.5 %	1.1 %	0.5 %	1.5 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	81.9259 ppm	6.3492 ppm	0.0021 ppm	1.7220 ppm	0.3502 ppm	0.3189 ppm	0.0058 ppm
Concentration per Run 1	81.9012 ppm	6.3719 ppm	0.0023 ppm	1.7318 ppm	0.3485 ppm	0.3199 ppm	0.0074 ppm
Concentration per Run 2	81.8982 ppm	6.3427 ppm	0.0022 ppm	1.7309 ppm	0.3499 ppm	0.3173 ppm	0.0040 ppm
Concentration per Run 3	81.9784 ppm	6.3330 ppm	0.0019 ppm	1.7033 ppm	0.3521 ppm	0.3194 ppm	0.0060 ppm
Concentration RSD	0.1 %	0.3 %	8.3 %	0.9 %	0.5 %	0.4 %	30.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	4.8581 ppm	0.0086 ppm	0.1800 ppm	4.3390 ppm	0.0060 ppm	0.3881 ppm
Concentration per Run 1	-0.0021 ppm	4.7824 ppm	0.0092 ppm	0.1806 ppm	4.3288 ppm	0.0033 ppm	0.3890 ppm
Concentration per Run 2	-0.0018 ppm	4.8489 ppm	0.0081 ppm	0.1800 ppm	4.3411 ppm	0.0085 ppm	0.3888 ppm
Concentration per Run 3	-0.0027 ppm	4.9428 ppm	0.0084 ppm	0.1793 ppm	4.3471 ppm	0.0060 ppm	0.3864 ppm
Concentration RSD	21.8 %	1.7 %	6.3 %	0.4 %	0.2 %	43.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8409 ppm	106.3016 %	111.0630 %	96.1032 %	127.4271 %	135.6668 %	127.9844 %
Concentration per Run 1	0.8366 ppm	106.5426 %	111.0978 %	96.1194 %	127.7619 %	136.1691 %	128.5049 %
Concentration per Run 2	0.8437 ppm	106.4870 %	110.2322 %	96.6598 %	127.4217 %	134.5546 %	127.8851 %
Concentration per Run 3	0.8426 ppm	105.8754 %	111.8589 %	95.5304 %	127.0978 %	136.2766 %	127.5632 %
Concentration RSD	0.5 %	0.3 %	0.7 %	0.6 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-56D2 WG1935256
Analysis started at: 6/18/2024 9:41:34 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	141.3968 ppm	0.0322 ppm	0.2227 ppm	1.5004 ppm	0.0152 ppm	30.8098 ppm
Concentration per Run 1	-0.0013 ppm	140.9989 ppm	0.0327 ppm	0.2230 ppm	1.4989 ppm	0.0153 ppm	30.8389 ppm
Concentration per Run 2	-0.0015 ppm	141.9450 ppm	0.0324 ppm	0.2222 ppm	1.5142 ppm	0.0150 ppm	30.7214 ppm
Concentration per Run 3	-0.0015 ppm	141.2465 ppm	0.0316 ppm	0.2229 ppm	1.4880 ppm	0.0153 ppm	30.8690 ppm
Concentration RSD	8.8 %	0.3 %	1.8 %	0.2 %	0.9 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1810 ppm	0.3532 ppm	0.0669 ppm	383.4487 ppm	40.0592 ppm	0.6203 ppm
Concentration per Run 1	0.0007 ppm	0.1816 ppm	0.3535 ppm	0.0673 ppm	384.7834 ppm	39.7428 ppm	0.6201 ppm
Concentration per Run 2	0.0007 ppm	0.1810 ppm	0.3528 ppm	0.0673 ppm	382.8411 ppm	40.3282 ppm	0.6249 ppm
Concentration per Run 3	0.0007 ppm	0.1803 ppm	0.3532 ppm	0.0661 ppm	382.7216 ppm	40.1065 ppm	0.6159 ppm
Concentration RSD	5.4 %	0.4 %	0.1 %	1.0 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	109.3681 ppm	6.3523 ppm	0.0029 ppm	2.4480 ppm	0.4314 ppm	0.2685 ppm	0.0073 ppm
Concentration per Run 1	109.0350 ppm	6.3587 ppm	0.0026 ppm	2.4533 ppm	0.4328 ppm	0.2677 ppm	0.0087 ppm
Concentration per Run 2	109.4148 ppm	6.3515 ppm	0.0027 ppm	2.4312 ppm	0.4302 ppm	0.2682 ppm	0.0076 ppm
Concentration per Run 3	109.6545 ppm	6.3467 ppm	0.0035 ppm	2.4595 ppm	0.4312 ppm	0.2697 ppm	0.0056 ppm
Concentration RSD	0.3 %	0.1 %	16.5 %	0.6 %	0.3 %	0.4 %	21.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	4.6636 ppm	0.0085 ppm	0.1634 ppm	7.7236 ppm	0.0085 ppm	0.4214 ppm
Concentration per Run 1	-0.0004 ppm	4.6829 ppm	0.0085 ppm	0.1645 ppm	7.6965 ppm	0.0056 ppm	0.4201 ppm
Concentration per Run 2	-0.0041 ppm	4.6530 ppm	0.0088 ppm	0.1620 ppm	7.7255 ppm	0.0104 ppm	0.4200 ppm
Concentration per Run 3	-0.0044 ppm	4.6549 ppm	0.0081 ppm	0.1637 ppm	7.7488 ppm	0.0096 ppm	0.4242 ppm
Concentration RSD	75.4 %	0.4 %	3.9 %	0.8 %	0.3 %	30.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9587 ppm	108.9351 %	115.1380 %	93.9673 %	155.0246 %	167.5220 %	156.1648 %
Concentration per Run 1	0.9611 ppm	109.3642 %	115.7817 %	94.3852 %	155.2205 %	168.3568 %	156.3741 %
Concentration per Run 2	0.9572 ppm	108.8076 %	115.8503 %	93.8805 %	154.9489 %	168.3673 %	155.9362 %
Concentration per Run 3	0.9577 ppm	108.6336 %	113.7819 %	93.6363 %	154.9045 %	165.8419 %	156.1841 %
Concentration RSD	0.2 %	0.4 %	1.0 %	0.4 %	0.1 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-58D2 WG1935256
Analysis started at: 6/18/2024 9:45:31 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	160.0348 ppm	0.0664 ppm	0.0624 ppm	0.5780 ppm	0.0082 ppm	11.3803 ppm
Concentration per Run 1	-0.0005 ppm	160.4271 ppm	0.0684 ppm	0.0632 ppm	0.5814 ppm	0.0080 ppm	11.3786 ppm
Concentration per Run 2	-0.0011 ppm	159.9430 ppm	0.0642 ppm	0.0631 ppm	0.5756 ppm	0.0083 ppm	11.4064 ppm
Concentration per Run 3	-0.0005 ppm	159.7344 ppm	0.0666 ppm	0.0611 ppm	0.5769 ppm	0.0082 ppm	11.3559 ppm
Concentration RSD	50.1 %	0.2 %	3.2 %	1.9 %	0.5 %	1.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1005 ppm	0.2782 ppm	0.2454 ppm	389.3777 ppm	12.3956 ppm	0.2566 ppm
Concentration per Run 1	0.0001 ppm	0.0998 ppm	0.2761 ppm	0.2442 ppm	389.5087 ppm	12.5433 ppm	0.2545 ppm
Concentration per Run 2	0.0002 ppm	0.1009 ppm	0.2790 ppm	0.2449 ppm	390.0674 ppm	12.2928 ppm	0.2570 ppm
Concentration per Run 3	0.0005 ppm	0.1008 ppm	0.2795 ppm	0.2472 ppm	388.5570 ppm	12.3507 ppm	0.2584 ppm
Concentration RSD	74.0 %	0.6 %	0.7 %	0.6 %	0.2 %	1.1 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.5998 ppm	4.9910 ppm	0.0011 ppm	1.6821 ppm	0.2040 ppm	0.1775 ppm	0.0085 ppm
Concentration per Run 1	43.5371 ppm	4.9912 ppm	0.0006 ppm	1.6768 ppm	0.2024 ppm	0.1784 ppm	0.0079 ppm
Concentration per Run 2	43.5783 ppm	4.9900 ppm	0.0014 ppm	1.6908 ppm	0.2037 ppm	0.1768 ppm	0.0083 ppm
Concentration per Run 3	43.6840 ppm	4.9918 ppm	0.0014 ppm	1.6788 ppm	0.2059 ppm	0.1774 ppm	0.0093 ppm
Concentration RSD	0.2 %	0.0 %	38.4 %	0.5 %	0.9 %	0.5 %	8.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0037 ppm	4.8011 ppm	0.0067 ppm	0.0956 ppm	3.1972 ppm	0.0043 ppm	0.3817 ppm
Concentration per Run 1	0.0024 ppm	4.7400 ppm	0.0066 ppm	0.0952 ppm	3.1803 ppm	0.0041 ppm	0.3798 ppm
Concentration per Run 2	0.0052 ppm	4.8469 ppm	0.0068 ppm	0.0967 ppm	3.2042 ppm	0.0045 ppm	0.3836 ppm
Concentration per Run 3	0.0035 ppm	4.8164 ppm	0.0066 ppm	0.0950 ppm	3.2071 ppm	0.0044 ppm	0.3818 ppm
Concentration RSD	38.0 %	1.1 %	1.3 %	1.0 %	0.5 %	5.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4687 ppm	107.8693 %	112.7879 %	98.4262 %	112.2383 %	119.4467 %	113.4495 %
Concentration per Run 1	0.4654 ppm	108.3849 %	113.6939 %	98.4419 %	112.2215 %	120.1127 %	113.6863 %
Concentration per Run 2	0.4689 ppm	107.6001 %	112.2876 %	98.8122 %	112.0298 %	119.4250 %	113.6246 %
Concentration per Run 3	0.4719 ppm	107.6229 %	112.3821 %	98.0244 %	112.4635 %	118.8024 %	113.0376 %
Concentration RSD	0.7 %	0.4 %	0.7 %	0.4 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-60D2 WG1935256
Analysis started at: 6/18/2024 9:49:29 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	138.0520 ppm	0.0749 ppm	0.1200 ppm	1.4584 ppm	0.0096 ppm	65.1620 ppm
Concentration per Run 1	0.0007 ppm	137.5556 ppm	0.0745 ppm	0.1203 ppm	1.4543 ppm	0.0096 ppm	65.0049 ppm
Concentration per Run 2	0.0007 ppm	138.3691 ppm	0.0763 ppm	0.1209 ppm	1.4659 ppm	0.0096 ppm	65.1941 ppm
Concentration per Run 3	0.0012 ppm	138.2314 ppm	0.0739 ppm	0.1186 ppm	1.4548 ppm	0.0096 ppm	65.2871 ppm
Concentration RSD	29.3 %	0.3 %	1.7 %	1.0 %	0.4 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0028 ppm	0.1347 ppm	0.3171 ppm	0.3893 ppm	297.6272 ppm	13.8953 ppm	0.3408 ppm
Concentration per Run 1	0.0027 ppm	0.1356 ppm	0.3178 ppm	0.3897 ppm	297.5181 ppm	13.8475 ppm	0.3420 ppm
Concentration per Run 2	0.0027 ppm	0.1351 ppm	0.3165 ppm	0.3879 ppm	298.4164 ppm	13.9446 ppm	0.3430 ppm
Concentration per Run 3	0.0028 ppm	0.1334 ppm	0.3170 ppm	0.3904 ppm	296.9470 ppm	13.8937 ppm	0.3376 ppm
Concentration RSD	2.4 %	0.9 %	0.2 %	0.3 %	0.2 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.0789 ppm	7.2742 ppm	0.0020 ppm	1.6165 ppm	0.3022 ppm	0.9653 ppm	0.0114 ppm
Concentration per Run 1	76.2733 ppm	7.2544 ppm	0.0017 ppm	1.6197 ppm	0.3029 ppm	0.9620 ppm	0.0154 ppm
Concentration per Run 2	76.0002 ppm	7.2894 ppm	0.0022 ppm	1.6138 ppm	0.3006 ppm	0.9661 ppm	0.0094 ppm
Concentration per Run 3	75.9634 ppm	7.2789 ppm	0.0023 ppm	1.6160 ppm	0.3031 ppm	0.9677 ppm	0.0094 ppm
Concentration RSD	0.2 %	0.2 %	16.2 %	0.2 %	0.5 %	0.3 %	30.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	5.4368 ppm	0.0300 ppm	0.2550 ppm	1.9163 ppm	0.0020 ppm	0.3691 ppm
Concentration per Run 1	0.0029 ppm	5.4794 ppm	0.0303 ppm	0.2544 ppm	1.9159 ppm	0.0018 ppm	0.3696 ppm
Concentration per Run 2	0.0041 ppm	5.4415 ppm	0.0296 ppm	0.2554 ppm	1.9181 ppm	0.0015 ppm	0.3695 ppm
Concentration per Run 3	0.0034 ppm	5.3893 ppm	0.0300 ppm	0.2553 ppm	1.9148 ppm	0.0028 ppm	0.3683 ppm
Concentration RSD	17.0 %	0.8 %	1.1 %	0.2 %	0.1 %	34.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2616 ppm	103.7960 %	112.9854 %	95.2868 %	120.8884 %	132.9173 %	121.2809 %
Concentration per Run 1	1.2636 ppm	103.7448 %	112.6515 %	95.6602 %	120.5324 %	132.6777 %	121.1327 %
Concentration per Run 2	1.2618 ppm	103.9445 %	112.8656 %	95.5006 %	121.4309 %	132.5423 %	121.8202 %
Concentration per Run 3	1.2594 ppm	103.6986 %	113.4391 %	94.6995 %	120.7018 %	133.5318 %	120.8898 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.5 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-61D2 WG1935256
Analysis started at: 6/18/2024 9:53:24 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	93.1885 ppm	0.1750 ppm	0.1488 ppm	0.7185 ppm	0.0047 ppm	147.3417 ppm
Concentration per Run 1	0.0004 ppm	93.1387 ppm	0.1748 ppm	0.1477 ppm	0.7171 ppm	0.0047 ppm	147.3564 ppm
Concentration per Run 2	0.0001 ppm	93.2133 ppm	0.1746 ppm	0.1484 ppm	0.7192 ppm	0.0047 ppm	147.5612 ppm
Concentration per Run 3	0.0006 ppm	93.2134 ppm	0.1756 ppm	0.1502 ppm	0.7192 ppm	0.0047 ppm	147.1076 ppm
Concentration RSD	62.2 %	0.0 %	0.3 %	0.9 %	0.2 %	1.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.0891 ppm	0.2701 ppm	0.3304 ppm	200.0500 ppm	7.5066 ppm	0.1848 ppm
Concentration per Run 1	0.0029 ppm	0.0886 ppm	0.2712 ppm	0.3307 ppm	199.7551 ppm	7.4899 ppm	0.1841 ppm
Concentration per Run 2	0.0026 ppm	0.0893 ppm	0.2706 ppm	0.3312 ppm	200.7049 ppm	7.5025 ppm	0.1858 ppm
Concentration per Run 3	0.0027 ppm	0.0892 ppm	0.2684 ppm	0.3291 ppm	199.6901 ppm	7.5275 ppm	0.1846 ppm
Concentration RSD	6.8 %	0.4 %	0.5 %	0.3 %	0.3 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.9370 ppm	4.6411 ppm	0.0027 ppm	1.4647 ppm	0.2238 ppm	0.5633 ppm	0.0084 ppm
Concentration per Run 1	49.1431 ppm	4.6419 ppm	0.0024 ppm	1.4650 ppm	0.2244 ppm	0.5616 ppm	0.0079 ppm
Concentration per Run 2	48.9543 ppm	4.6481 ppm	0.0029 ppm	1.4640 ppm	0.2253 ppm	0.5674 ppm	0.0106 ppm
Concentration per Run 3	48.7136 ppm	4.6332 ppm	0.0027 ppm	1.4651 ppm	0.2216 ppm	0.5610 ppm	0.0067 ppm
Concentration RSD	0.4 %	0.2 %	8.1 %	0.0 %	0.9 %	0.6 %	23.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	6.3173 ppm	0.0282 ppm	0.3552 ppm	3.9118 ppm	0.0044 ppm	0.3613 ppm
Concentration per Run 1	0.0032 ppm	6.3737 ppm	0.0285 ppm	0.3569 ppm	3.9230 ppm	0.0050 ppm	0.3620 ppm
Concentration per Run 2	0.0005 ppm	6.3206 ppm	0.0279 ppm	0.3538 ppm	3.9137 ppm	0.0033 ppm	0.3621 ppm
Concentration per Run 3	0.0021 ppm	6.2577 ppm	0.0282 ppm	0.3550 ppm	3.8986 ppm	0.0047 ppm	0.3597 ppm
Concentration RSD	72.4 %	0.9 %	1.1 %	0.4 %	0.3 %	20.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2507 ppm	101.6653 %	111.0808 %	92.9898 %	111.2760 %	122.1822 %	111.4862 %
Concentration per Run 1	1.2520 ppm	101.4474 %	111.6631 %	93.2295 %	110.9878 %	122.8282 %	111.3218 %
Concentration per Run 2	1.2561 ppm	101.5577 %	110.5333 %	92.8867 %	111.4243 %	121.8961 %	111.6721 %
Concentration per Run 3	1.2438 ppm	101.9909 %	111.0459 %	92.8531 %	111.4158 %	121.8221 %	111.4645 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.2 %	0.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-70D2 WG1935256
Analysis started at: 6/18/2024 9:57:18 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	65.4441 ppm	0.0763 ppm	0.0686 ppm	0.3174 ppm	0.0030 ppm	26.4542 ppm
Concentration per Run 1	0.0010 ppm	65.5352 ppm	0.0785 ppm	0.0679 ppm	0.3183 ppm	0.0030 ppm	26.5117 ppm
Concentration per Run 2	0.0014 ppm	65.3479 ppm	0.0772 ppm	0.0690 ppm	0.3189 ppm	0.0030 ppm	26.3830 ppm
Concentration per Run 3	0.0007 ppm	65.4492 ppm	0.0734 ppm	0.0687 ppm	0.3151 ppm	0.0030 ppm	26.4678 ppm
Concentration RSD	31.0 %	0.1 %	3.4 %	0.8 %	0.6 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0647 ppm	0.1429 ppm	0.3992 ppm	178.4205 ppm	4.3265 ppm	0.1063 ppm
Concentration per Run 1	0.0018 ppm	0.0653 ppm	0.1429 ppm	0.3988 ppm	178.8579 ppm	4.3408 ppm	0.1081 ppm
Concentration per Run 2	0.0017 ppm	0.0639 ppm	0.1426 ppm	0.3992 ppm	178.2279 ppm	4.3217 ppm	0.1062 ppm
Concentration per Run 3	0.0018 ppm	0.0647 ppm	0.1433 ppm	0.3997 ppm	178.1758 ppm	4.3169 ppm	0.1048 ppm
Concentration RSD	2.9 %	1.1 %	0.3 %	0.1 %	0.2 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.6684 ppm	1.8413 ppm	0.0032 ppm	2.1827 ppm	0.1704 ppm	0.3839 ppm	0.0060 ppm
Concentration per Run 1	32.7748 ppm	1.8448 ppm	0.0038 ppm	2.1885 ppm	0.1693 ppm	0.3840 ppm	0.0033 ppm
Concentration per Run 2	32.6292 ppm	1.8379 ppm	0.0029 ppm	2.1768 ppm	0.1703 ppm	0.3859 ppm	0.0067 ppm
Concentration per Run 3	32.6011 ppm	1.8412 ppm	0.0028 ppm	2.1828 ppm	0.1718 ppm	0.3818 ppm	0.0081 ppm
Concentration RSD	0.3 %	0.2 %	16.6 %	0.3 %	0.7 %	0.5 %	41.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	3.7587 ppm	0.0174 ppm	0.1405 ppm	2.7210 ppm	0.0030 ppm	0.2761 ppm
Concentration per Run 1	0.0040 ppm	3.7836 ppm	0.0175 ppm	0.1411 ppm	2.7238 ppm	0.0027 ppm	0.2760 ppm
Concentration per Run 2	0.0050 ppm	3.7494 ppm	0.0178 ppm	0.1398 ppm	2.7202 ppm	0.0028 ppm	0.2767 ppm
Concentration per Run 3	0.0010 ppm	3.7430 ppm	0.0169 ppm	0.1405 ppm	2.7191 ppm	0.0034 ppm	0.2755 ppm
Concentration RSD	62.3 %	0.6 %	2.5 %	0.5 %	0.1 %	12.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5728 ppm	102.3930 %	111.8573 %	97.0393 %	112.0083 %	122.5792 %	113.3228 %
Concentration per Run 1	0.5722 ppm	102.0973 %	111.7406 %	97.1885 %	111.8219 %	122.8615 %	113.8391 %
Concentration per Run 2	0.5743 ppm	102.7286 %	112.7044 %	96.8170 %	112.0131 %	123.1322 %	113.1345 %
Concentration per Run 3	0.5719 ppm	102.3530 %	111.1269 %	97.1123 %	112.1899 %	121.7439 %	112.9948 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.2 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-71D2 WG1935256
Analysis started at: 6/18/2024 10:01:14 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	77.0863 ppm	0.0440 ppm	0.0379 ppm	0.4085 ppm	0.0053 ppm	4.6007 ppm
Concentration per Run 1	0.0005 ppm	76.9250 ppm	0.0443 ppm	0.0370 ppm	0.4075 ppm	0.0054 ppm	4.6026 ppm
Concentration per Run 2	0.0000 ppm	77.1198 ppm	0.0448 ppm	0.0380 ppm	0.4076 ppm	0.0054 ppm	4.6127 ppm
Concentration per Run 3	0.0008 ppm	77.2142 ppm	0.0429 ppm	0.0388 ppm	0.4103 ppm	0.0053 ppm	4.5868 ppm
Concentration RSD	89.2 %	0.2 %	2.3 %	2.4 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0874 ppm	0.1474 ppm	0.1203 ppm	196.4355 ppm	6.7895 ppm	0.2233 ppm
Concentration per Run 1	0.0007 ppm	0.0874 ppm	0.1475 ppm	0.1207 ppm	195.8928 ppm	6.8035 ppm	0.2244 ppm
Concentration per Run 2	0.0007 ppm	0.0878 ppm	0.1473 ppm	0.1196 ppm	197.2833 ppm	6.7807 ppm	0.2241 ppm
Concentration per Run 3	0.0010 ppm	0.0869 ppm	0.1473 ppm	0.1207 ppm	196.1303 ppm	6.7843 ppm	0.2214 ppm
Concentration RSD	20.9 %	0.5 %	0.1 %	0.5 %	0.4 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.8828 ppm	2.1644 ppm	0.0007 ppm	1.0412 ppm	0.2058 ppm	0.0989 ppm	0.0017 ppm
Concentration per Run 1	36.8686 ppm	2.1626 ppm	0.0008 ppm	1.0426 ppm	0.2049 ppm	0.0983 ppm	0.0038 ppm
Concentration per Run 2	36.9276 ppm	2.1657 ppm	0.0003 ppm	1.0473 ppm	0.2057 ppm	0.0993 ppm	-0.0037 ppm
Concentration per Run 3	36.8523 ppm	2.1650 ppm	0.0008 ppm	1.0337 ppm	0.2067 ppm	0.0991 ppm	0.0049 ppm
Concentration RSD	0.1 %	0.1 %	48.0 %	0.7 %	0.4 %	0.5 %	278.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	3.2714 ppm	0.0028 ppm	0.0639 ppm	1.7303 ppm	0.0007 ppm	0.1714 ppm
Concentration per Run 1	0.0015 ppm	3.2869 ppm	0.0026 ppm	0.0639 ppm	1.7335 ppm	0.0015 ppm	0.1722 ppm
Concentration per Run 2	-0.0017 ppm	3.2538 ppm	0.0025 ppm	0.0642 ppm	1.7322 ppm	0.0018 ppm	0.1718 ppm
Concentration per Run 3	-0.0003 ppm	3.2734 ppm	0.0032 ppm	0.0637 ppm	1.7252 ppm	-0.0011 ppm	0.1703 ppm
Concentration RSD	830.3 %	0.5 %	15.5 %	0.4 %	0.3 %	219.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5297 ppm	102.9437 %	109.2605 %	98.8547 %	120.4336 %	129.2170 %	122.3301 %
Concentration per Run 1	0.5268 ppm	103.4637 %	109.3052 %	98.6891 %	120.9357 %	129.0943 %	121.5880 %
Concentration per Run 2	0.5324 ppm	102.4569 %	109.3995 %	99.2750 %	119.7783 %	129.8946 %	123.3030 %
Concentration per Run 3	0.5299 ppm	102.9105 %	109.0768 %	98.6001 %	120.5869 %	128.6619 %	122.0993 %
Concentration RSD	0.5 %	0.5 %	0.2 %	0.4 %	0.5 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:05:21 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5155 ppm	0.5037 ppm	0.4902 ppm	0.5086 ppm	0.5147 ppm	0.5153 ppm	0.4995 ppm
Concentration per Run 1	0.5133 ppm	0.5064 ppm	0.4900 ppm	0.5059 ppm	0.5151 ppm	0.5153 ppm	0.5002 ppm
Concentration per Run 2	0.5161 ppm	0.5112 ppm	0.4895 ppm	0.5081 ppm	0.5138 ppm	0.5138 ppm	0.5017 ppm
Concentration per Run 3	0.5169 ppm	0.4935 ppm	0.4911 ppm	0.5117 ppm	0.5151 ppm	0.5168 ppm	0.4966 ppm
Recovery Percentage 1	103.091 %	100.737 %	98.042 %	101.711 %	102.935 %	103.060 %	99.893 %
Concentration RSD	0.4 %	1.8 %	0.2 %	0.6 %	0.1 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5197 ppm	0.5240 ppm	0.5135 ppm	0.5007 ppm	0.5266 ppm	5.2007 ppm	0.4820 ppm
Concentration per Run 1	0.5191 ppm	0.5223 ppm	0.5124 ppm	0.5009 ppm	0.5270 ppm	5.2269 ppm	0.4874 ppm
Concentration per Run 2	0.5196 ppm	0.5244 ppm	0.5152 ppm	0.4999 ppm	0.5274 ppm	5.1950 ppm	0.4828 ppm
Concentration per Run 3	0.5203 ppm	0.5253 ppm	0.5130 ppm	0.5013 ppm	0.5254 ppm	5.1803 ppm	0.4758 ppm
Recovery Percentage 1	103.941 %	104.799 %	102.709 %	100.138 %	105.318 %	104.014 %	96.394 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.1 %	0.2 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5093 ppm	0.4935 ppm	0.5136 ppm	10.4661 ppm	0.5294 ppm	0.5054 ppm	0.5053 ppm
Concentration per Run 1	0.5084 ppm	0.4936 ppm	0.5061 ppm	10.4516 ppm	0.5278 ppm	0.5053 ppm	0.5039 ppm
Concentration per Run 2	0.5104 ppm	0.4935 ppm	0.5134 ppm	10.4699 ppm	0.5334 ppm	0.5051 ppm	0.5077 ppm
Concentration per Run 3	0.5091 ppm	0.4934 ppm	0.5213 ppm	10.4767 ppm	0.5269 ppm	0.5057 ppm	0.5045 ppm
Recovery Percentage 1	101.864 %	98.703 %	102.716 %	104.661 %	105.874 %	101.070 %	101.068 %
Concentration RSD	0.2 %	0.0 %	1.5 %	0.1 %	0.7 %	0.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5004 ppm	5.3504 ppm	0.5420 ppm	0.5123 ppm	0.5197 ppm	0.4965 ppm	0.5119 ppm
Concentration per Run 1	0.4978 ppm	5.3366 ppm	0.5411 ppm	0.5111 ppm	0.5179 ppm	0.4974 ppm	0.5109 ppm
Concentration per Run 2	0.5010 ppm	5.3431 ppm	0.5425 ppm	0.5130 ppm	0.5212 ppm	0.4960 ppm	0.5123 ppm
Concentration per Run 3	0.5025 ppm	5.3715 ppm	0.5422 ppm	0.5128 ppm	0.5199 ppm	0.4961 ppm	0.5124 ppm
Recovery Percentage 1	100.087 %	101.912 %	108.394 %	102.454 %	103.933 %	99.303 %	102.373 %
Concentration RSD	0.5 %	0.3 %	0.1 %	0.2 %	0.3 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5302 ppm	99.6500 %	106.3964 %	100.3698 %	97.8652 %	104.2467 %	99.2755 %
Concentration per Run 1	0.5314 ppm	99.3373 %	106.2982 %	100.2470 %	97.7015 %	104.0401 %	99.1539 %
Concentration per Run 2	0.5322 ppm	99.8143 %	106.0475 %	100.4979 %	97.9645 %	104.0675 %	99.4579 %
Concentration per Run 3	0.5272 ppm	99.7982 %	106.8435 %	100.3644 %	97.9297 %	104.6324 %	99.2146 %
Recovery Percentage 1	106.050 %						
Concentration RSD	0.5 %	0.3 %	0.4 %	0.1 %	0.1 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:09:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0190 ppm	-0.0008 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0062 ppm
Concentration per Run 1	0.0012 ppm	-0.0151 ppm	-0.0007 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0002 ppm	-0.0201 ppm	-0.0013 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0071 ppm
Concentration per Run 3	0.0002 ppm	-0.0219 ppm	-0.0005 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0103 ppm
Recovery Percentage 1	7.559 %	-19.022 %	-28.250 %	0.592 %	-2.604 %	1.071 %	-6.244 %
Concentration RSD	102.6 %	18.4 %	47.4 %	808.2 %	47.0 %	24.3 %	72.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0044 ppm	0.0516 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0003 ppm	0.0032 ppm	0.0532 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0048 ppm	0.0656 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0052 ppm	0.0361 ppm	0.0013 ppm
Recovery Percentage 1	-0.602 %	-2.101 %	2.447 %	2.243 %	8.829 %	2.065 %	9.703 %
Concentration RSD	115.5 %	69.7 %	100.3 %	43.9 %	24.1 %	28.7 %	69.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0001 ppm	-0.0015 ppm	0.0035 ppm	-0.0003 ppm	0.0005 ppm	0.0018 ppm
Concentration per Run 1	-0.0009 ppm	0.0000 ppm	-0.0014 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm	0.0022 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	-0.0017 ppm	0.0032 ppm	-0.0004 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	-0.0014 ppm	0.0057 ppm	-0.0005 ppm	0.0004 ppm	0.0028 ppm
Recovery Percentage 1	-0.628 %	1.465 %	-3.041 %	0.176 %	-1.107 %	4.874 %	3.672 %
Concentration RSD	55.7 %	129.6 %	13.0 %	57.3 %	100.4 %	22.8 %	65.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0020 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0008 ppm	0.0048 ppm	0.0008 ppm	0.0004 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 2	0.0011 ppm	-0.0002 ppm	-0.0012 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0011 ppm	0.0013 ppm	0.0006 ppm	0.0003 ppm	-0.0005 ppm	0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	-2.516 %	0.394 %	0.136 %	3.431 %	-3.068 %	0.834 %	-1.846 %
Concentration RSD	475.4 %	130.3 %	1,609.7 %	9.7 %	56.6 %	419.4 %	26.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	94.0617 %	101.9804 %	96.4130 %	98.9434 %	104.3112 %	99.8527 %
Concentration per Run 1	0.0010 ppm	93.3456 %	101.5373 %	96.4967 %	99.0745 %	104.2825 %	100.1130 %
Concentration per Run 2	0.0005 ppm	94.0504 %	102.9567 %	96.1723 %	98.8482 %	105.0201 %	99.2339 %
Concentration per Run 3	0.0005 ppm	94.7892 %	101.4472 %	96.5701 %	98.9075 %	103.6309 %	100.2113 %
Recovery Percentage 1	13.465 %						
Concentration RSD	36.6 %	0.8 %	0.8 %	0.2 %	0.1 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1934555-2 WG1934555
Analysis started at: 6/18/2024 10:18:08 AM
Rack 1
Vial 60
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	2.0354 ppm	0.1200 ppm	0.9946 ppm	2.0381 ppm	0.0509 ppm	10.2349 ppm
Concentration per Run 1	0.0526 ppm	2.0340 ppm	0.1189 ppm	1.0016 ppm	2.0357 ppm	0.0509 ppm	10.2317 ppm
Concentration per Run 2	0.0522 ppm	2.0350 ppm	0.1207 ppm	0.9952 ppm	2.0380 ppm	0.0510 ppm	10.2405 ppm
Concentration per Run 3	0.0516 ppm	2.0373 ppm	0.1203 ppm	0.9870 ppm	2.0406 ppm	0.0508 ppm	10.2324 ppm
Concentration RSD	1.0 %	0.1 %	0.8 %	0.7 %	0.1 %	0.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0550 ppm	0.5099 ppm	0.2053 ppm	0.2561 ppm	0.9941 ppm	10.4112 ppm	-0.0001 ppm
Concentration per Run 1	0.0555 ppm	0.5130 ppm	0.2068 ppm	0.2587 ppm	0.9916 ppm	10.3790 ppm	0.0015 ppm
Concentration per Run 2	0.0549 ppm	0.5101 ppm	0.2051 ppm	0.2555 ppm	0.9988 ppm	10.4984 ppm	-0.0019 ppm
Concentration per Run 3	0.0545 ppm	0.5065 ppm	0.2039 ppm	0.2541 ppm	0.9920 ppm	10.3563 ppm	0.0001 ppm
Concentration RSD	0.9 %	0.6 %	0.7 %	0.9 %	0.4 %	0.7 %	1,593.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1669 ppm	0.4993 ppm	0.9912 ppm	10.7485 ppm	0.5164 ppm	0.5439 ppm	0.4229 ppm
Concentration per Run 1	10.2465 ppm	0.4986 ppm	0.9823 ppm	10.7434 ppm	0.5213 ppm	0.5439 ppm	0.4174 ppm
Concentration per Run 2	10.1564 ppm	0.5012 ppm	0.9954 ppm	10.7667 ppm	0.5167 ppm	0.5463 ppm	0.4266 ppm
Concentration per Run 3	10.0977 ppm	0.4983 ppm	0.9959 ppm	10.7355 ppm	0.5114 ppm	0.5416 ppm	0.4246 ppm
Concentration RSD	0.7 %	0.3 %	0.8 %	0.2 %	1.0 %	0.4 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1199 ppm	1.1050 ppm	1.0231 ppm	1.0001 ppm	1.0541 ppm	0.1234 ppm	0.5199 ppm
Concentration per Run 1	0.1201 ppm	1.1107 ppm	1.0296 ppm	1.0028 ppm	1.0593 ppm	0.1239 ppm	0.5227 ppm
Concentration per Run 2	0.1199 ppm	1.1013 ppm	1.0212 ppm	0.9984 ppm	1.0529 ppm	0.1232 ppm	0.5193 ppm
Concentration per Run 3	0.1198 ppm	1.1031 ppm	1.0184 ppm	0.9992 ppm	1.0500 ppm	0.1230 ppm	0.5176 ppm
Concentration RSD	0.2 %	0.5 %	0.6 %	0.2 %	0.5 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5212 ppm	102.7212 %	106.2694 %	100.6041 %	102.8697 %	104.4197 %	101.2941 %
Concentration per Run 1	0.5250 ppm	102.3315 %	105.3593 %	100.3309 %	102.9537 %	103.4639 %	100.7392 %
Concentration per Run 2	0.5217 ppm	102.4806 %	106.5531 %	100.2729 %	102.5823 %	104.9130 %	101.1883 %
Concentration per Run 3	0.5170 ppm	103.3515 %	106.8958 %	101.2084 %	103.0731 %	104.8822 %	101.9549 %
Concentration RSD	0.8 %	0.5 %	0.8 %	0.5 %	0.2 %	0.8 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935259-2D2 WG1935259
Analysis started at: 6/18/2024 10:22:23 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3337 ppm	17.8035 ppm	1.1904 ppm	0.9398 ppm	1.2743 ppm	0.6264 ppm	18.9414 ppm
Concentration per Run 1	0.3351 ppm	17.7465 ppm	1.1927 ppm	0.9446 ppm	1.2704 ppm	0.6262 ppm	18.9355 ppm
Concentration per Run 2	0.3330 ppm	17.8748 ppm	1.1867 ppm	0.9458 ppm	1.2789 ppm	0.6268 ppm	18.9670 ppm
Concentration per Run 3	0.3331 ppm	17.7894 ppm	1.1919 ppm	0.9291 ppm	1.2736 ppm	0.6261 ppm	18.9216 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	1.0 %	0.3 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8423 ppm	0.3243 ppm	0.7103 ppm	0.8063 ppm	21.5598 ppm	4.1326 ppm	0.4838 ppm
Concentration per Run 1	0.8516 ppm	0.3276 ppm	0.7180 ppm	0.8157 ppm	21.5313 ppm	4.1353 ppm	0.4853 ppm
Concentration per Run 2	0.8425 ppm	0.3252 ppm	0.7107 ppm	0.8054 ppm	21.5898 ppm	4.1719 ppm	0.4881 ppm
Concentration per Run 3	0.8327 ppm	0.3201 ppm	0.7022 ppm	0.7978 ppm	21.5583 ppm	4.0905 ppm	0.4781 ppm
Concentration RSD	1.1 %	1.2 %	1.1 %	1.1 %	0.1 %	1.0 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8597 ppm	1.9374 ppm	0.5122 ppm	7.0005 ppm	1.2617 ppm	0.3608 ppm	0.7055 ppm
Concentration per Run 1	5.9310 ppm	1.9367 ppm	0.5077 ppm	6.9913 ppm	1.2757 ppm	0.3620 ppm	0.7094 ppm
Concentration per Run 2	5.8444 ppm	1.9404 ppm	0.5131 ppm	6.9875 ppm	1.2640 ppm	0.3614 ppm	0.7119 ppm
Concentration per Run 3	5.8036 ppm	1.9352 ppm	0.5156 ppm	7.0226 ppm	1.2453 ppm	0.3588 ppm	0.6950 ppm
Concentration RSD	1.1 %	0.1 %	0.8 %	0.3 %	1.2 %	0.5 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6553 ppm	8.1584 ppm	0.3114 ppm	0.5363 ppm	1.1833 ppm	0.7770 ppm	0.4011 ppm
Concentration per Run 1	0.6581 ppm	8.2283 ppm	0.3152 ppm	0.5356 ppm	1.1912 ppm	0.7718 ppm	0.4041 ppm
Concentration per Run 2	0.6551 ppm	8.1469 ppm	0.3090 ppm	0.5364 ppm	1.1841 ppm	0.7800 ppm	0.4013 ppm
Concentration per Run 3	0.6527 ppm	8.1001 ppm	0.3099 ppm	0.5370 ppm	1.1745 ppm	0.7792 ppm	0.3981 ppm
Concentration RSD	0.4 %	0.8 %	1.1 %	0.1 %	0.7 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6705 ppm	97.9082 %	106.9208 %	97.7035 %	104.4627 %	111.6018 %	105.1789 %
Concentration per Run 1	0.6794 ppm	96.5188 %	107.3542 %	97.4260 %	103.8948 %	112.3531 %	104.9735 %
Concentration per Run 2	0.6698 ppm	97.8903 %	107.1471 %	97.5818 %	104.3649 %	111.5425 %	105.1977 %
Concentration per Run 3	0.6624 ppm	99.3156 %	106.2611 %	98.1028 %	105.1286 %	110.9097 %	105.3655 %
Concentration RSD	1.3 %	1.4 %	0.5 %	0.4 %	0.6 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935259-3D2 WG1935259
Analysis started at: 6/18/2024 10:26:18 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3350 ppm	17.8563 ppm	1.2123 ppm	0.9513 ppm	1.3688 ppm	0.6478 ppm	19.1628 ppm
Concentration per Run 1	0.3343 ppm	17.9008 ppm	1.2208 ppm	0.9482 ppm	1.3677 ppm	0.6481 ppm	19.2033 ppm
Concentration per Run 2	0.3357 ppm	17.8398 ppm	1.2092 ppm	0.9527 ppm	1.3714 ppm	0.6484 ppm	19.1610 ppm
Concentration per Run 3	0.3352 ppm	17.8284 ppm	1.2068 ppm	0.9529 ppm	1.3672 ppm	0.6470 ppm	19.1241 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8731 ppm	0.3294 ppm	0.7164 ppm	0.8342 ppm	22.5313 ppm	4.1468 ppm	0.4879 ppm
Concentration per Run 1	0.8748 ppm	0.3303 ppm	0.7174 ppm	0.8357 ppm	22.5226 ppm	4.1886 ppm	0.4922 ppm
Concentration per Run 2	0.8725 ppm	0.3295 ppm	0.7183 ppm	0.8339 ppm	22.5934 ppm	4.1567 ppm	0.4854 ppm
Concentration per Run 3	0.8720 ppm	0.3283 ppm	0.7136 ppm	0.8328 ppm	22.4779 ppm	4.0951 ppm	0.4859 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.2 %	0.3 %	1.1 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8516 ppm	2.0282 ppm	0.5214 ppm	7.1343 ppm	1.2868 ppm	0.3674 ppm	0.7202 ppm
Concentration per Run 1	5.8557 ppm	2.0317 ppm	0.5137 ppm	7.1565 ppm	1.2882 ppm	0.3702 ppm	0.7213 ppm
Concentration per Run 2	5.8675 ppm	2.0289 ppm	0.5214 ppm	7.1256 ppm	1.2902 ppm	0.3659 ppm	0.7211 ppm
Concentration per Run 3	5.8317 ppm	2.0238 ppm	0.5292 ppm	7.1209 ppm	1.2820 ppm	0.3661 ppm	0.7182 ppm
Concentration RSD	0.3 %	0.2 %	1.5 %	0.3 %	0.3 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6837 ppm	7.7478 ppm	0.3097 ppm	0.5589 ppm	1.1815 ppm	0.8178 ppm	0.4126 ppm
Concentration per Run 1	0.6891 ppm	7.7549 ppm	0.3085 ppm	0.5599 ppm	1.1821 ppm	0.8158 ppm	0.4130 ppm
Concentration per Run 2	0.6808 ppm	7.7571 ppm	0.3108 ppm	0.5586 ppm	1.1838 ppm	0.8167 ppm	0.4131 ppm
Concentration per Run 3	0.6812 ppm	7.7314 ppm	0.3100 ppm	0.5580 ppm	1.1788 ppm	0.8210 ppm	0.4117 ppm
Concentration RSD	0.7 %	0.2 %	0.4 %	0.2 %	0.2 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6811 ppm	98.2324 %	106.5036 %	97.9607 %	104.6585 %	111.2503 %	105.1362 %
Concentration per Run 1	0.6817 ppm	98.3680 %	106.5020 %	97.7615 %	106.0283 %	111.6665 %	105.4175 %
Concentration per Run 2	0.6828 ppm	97.8489 %	106.2493 %	97.9849 %	103.7568 %	110.8628 %	104.9890 %
Concentration per Run 3	0.6789 ppm	98.4802 %	106.7596 %	98.1357 %	104.1905 %	111.2215 %	105.0022 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %	1.2 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-01D2 WG1935259
Analysis started at: 6/18/2024 10:30:13 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	85.4348 ppm	0.0392 ppm	0.0058 ppm	0.2184 ppm	0.0051 ppm	13.6207 ppm
Concentration per Run 1	0.0005 ppm	85.4992 ppm	0.0408 ppm	0.0063 ppm	0.2193 ppm	0.0051 ppm	13.6136 ppm
Concentration per Run 2	-0.0004 ppm	85.6665 ppm	0.0375 ppm	0.0068 ppm	0.2184 ppm	0.0051 ppm	13.6421 ppm
Concentration per Run 3	-0.0001 ppm	85.1387 ppm	0.0394 ppm	0.0043 ppm	0.2176 ppm	0.0051 ppm	13.6064 ppm
Concentration RSD	20,049.7 %	0.3 %	4.2 %	23.1 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0710 ppm	0.1563 ppm	0.1629 ppm	163.0426 ppm	3.8955 ppm	0.1754 ppm
Concentration per Run 1	0.0012 ppm	0.0704 ppm	0.1574 ppm	0.1620 ppm	163.2563 ppm	3.9606 ppm	0.1788 ppm
Concentration per Run 2	0.0012 ppm	0.0716 ppm	0.1562 ppm	0.1633 ppm	163.1296 ppm	3.9062 ppm	0.1752 ppm
Concentration per Run 3	0.0011 ppm	0.0709 ppm	0.1554 ppm	0.1635 ppm	162.7419 ppm	3.8195 ppm	0.1722 ppm
Concentration RSD	4.7 %	0.8 %	0.6 %	0.5 %	0.2 %	1.8 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.7717 ppm	3.4580 ppm	0.0011 ppm	0.5431 ppm	0.1410 ppm	0.1616 ppm	0.0043 ppm
Concentration per Run 1	37.8088 ppm	3.4571 ppm	0.0010 ppm	0.5484 ppm	0.1418 ppm	0.1618 ppm	0.0053 ppm
Concentration per Run 2	37.7969 ppm	3.4648 ppm	0.0007 ppm	0.5354 ppm	0.1419 ppm	0.1609 ppm	0.0033 ppm
Concentration per Run 3	37.7095 ppm	3.4521 ppm	0.0016 ppm	0.5454 ppm	0.1394 ppm	0.1623 ppm	0.0043 ppm
Concentration RSD	0.1 %	0.2 %	39.0 %	1.2 %	1.0 %	0.4 %	23.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	4.8156 ppm	0.0096 ppm	0.0793 ppm	3.7732 ppm	0.0011 ppm	0.1796 ppm
Concentration per Run 1	0.0008 ppm	4.8147 ppm	0.0097 ppm	0.0797 ppm	3.7725 ppm	0.0021 ppm	0.1799 ppm
Concentration per Run 2	0.0004 ppm	4.8394 ppm	0.0101 ppm	0.0792 ppm	3.7817 ppm	0.0006 ppm	0.1794 ppm
Concentration per Run 3	-0.0026 ppm	4.7926 ppm	0.0089 ppm	0.0791 ppm	3.7653 ppm	0.0004 ppm	0.1795 ppm
Concentration RSD	408.5 %	0.5 %	6.5 %	0.4 %	0.2 %	87.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4942 ppm	101.1465 %	110.2905 %	94.7733 %	119.0395 %	130.6266 %	120.1383 %
Concentration per Run 1	0.4939 ppm	101.2795 %	109.8934 %	95.1235 %	118.8154 %	130.0198 %	120.6343 %
Concentration per Run 2	0.4967 ppm	101.1632 %	110.4089 %	94.6534 %	119.4423 %	130.7459 %	120.0284 %
Concentration per Run 3	0.4919 ppm	100.9967 %	110.5693 %	94.5429 %	118.8607 %	131.1142 %	119.7521 %
Concentration RSD	0.5 %	0.1 %	0.3 %	0.3 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-02D2 WG1935259
Analysis started at: 6/18/2024 10:35:58 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	70.2755 ppm	0.0427 ppm	0.0069 ppm	0.2178 ppm	0.0049 ppm	15.0790 ppm
Concentration per Run 1	0.0004 ppm	70.0480 ppm	0.0434 ppm	0.0064 ppm	0.2188 ppm	0.0049 ppm	15.0890 ppm
Concentration per Run 2	0.0005 ppm	70.2351 ppm	0.0435 ppm	0.0075 ppm	0.2170 ppm	0.0049 ppm	15.0614 ppm
Concentration per Run 3	0.0004 ppm	70.5435 ppm	0.0413 ppm	0.0067 ppm	0.2176 ppm	0.0048 ppm	15.0866 ppm
Concentration RSD	22.5 %	0.4 %	2.9 %	8.0 %	0.4 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0644 ppm	0.1120 ppm	0.1385 ppm	134.8403 ppm	3.4810 ppm	0.1482 ppm
Concentration per Run 1	0.0016 ppm	0.0646 ppm	0.1128 ppm	0.1389 ppm	135.4418 ppm	3.5138 ppm	0.1515 ppm
Concentration per Run 2	0.0016 ppm	0.0643 ppm	0.1118 ppm	0.1384 ppm	134.5484 ppm	3.4528 ppm	0.1457 ppm
Concentration per Run 3	0.0017 ppm	0.0643 ppm	0.1114 ppm	0.1383 ppm	134.5305 ppm	3.4765 ppm	0.1474 ppm
Concentration RSD	4.5 %	0.3 %	0.7 %	0.2 %	0.4 %	0.9 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.8844 ppm	3.1296 ppm	-0.0003 ppm	0.9979 ppm	0.1107 ppm	0.1408 ppm	0.0038 ppm
Concentration per Run 1	29.0880 ppm	3.1240 ppm	-0.0001 ppm	1.0030 ppm	0.1113 ppm	0.1416 ppm	0.0089 ppm
Concentration per Run 2	28.8408 ppm	3.1258 ppm	-0.0002 ppm	0.9994 ppm	0.1105 ppm	0.1405 ppm	0.0012 ppm
Concentration per Run 3	28.7246 ppm	3.1389 ppm	-0.0006 ppm	0.9914 ppm	0.1104 ppm	0.1401 ppm	0.0013 ppm
Concentration RSD	0.6 %	0.3 %	76.8 %	0.6 %	0.5 %	0.5 %	116.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.7328 ppm	0.0109 ppm	0.0962 ppm	2.9612 ppm	0.0007 ppm	0.1403 ppm
Concentration per Run 1	-0.0014 ppm	4.7691 ppm	0.0110 ppm	0.0968 ppm	2.9703 ppm	0.0022 ppm	0.1404 ppm
Concentration per Run 2	0.0015 ppm	4.7214 ppm	0.0111 ppm	0.0961 ppm	2.9664 ppm	-0.0016 ppm	0.1404 ppm
Concentration per Run 3	-0.0003 ppm	4.7079 ppm	0.0105 ppm	0.0956 ppm	2.9468 ppm	0.0014 ppm	0.1401 ppm
Concentration RSD	1,942.0 %	0.7 %	2.9 %	0.6 %	0.4 %	290.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4363 ppm	101.3359 %	110.8348 %	97.0367 %	119.0074 %	129.7330 %	120.4073 %
Concentration per Run 1	0.4376 ppm	100.4210 %	111.3313 %	97.1279 %	118.1595 %	130.3990 %	120.4619 %
Concentration per Run 2	0.4362 ppm	101.7968 %	110.8556 %	96.9505 %	119.6854 %	129.7229 %	120.2725 %
Concentration per Run 3	0.4352 ppm	101.7899 %	110.3174 %	97.0316 %	119.1773 %	129.0770 %	120.4875 %
Concentration RSD	0.3 %	0.8 %	0.5 %	0.1 %	0.7 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-03D2 WG1935259
Analysis started at: 6/18/2024 10:39:54 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	59.6169 ppm	0.0294 ppm	0.0050 ppm	0.1952 ppm	0.0046 ppm	14.8150 ppm
Concentration per Run 1	0.0005 ppm	59.7361 ppm	0.0305 ppm	0.0050 ppm	0.1956 ppm	0.0046 ppm	14.8082 ppm
Concentration per Run 2	0.0003 ppm	59.4811 ppm	0.0286 ppm	0.0046 ppm	0.1946 ppm	0.0046 ppm	14.8094 ppm
Concentration per Run 3	0.0001 ppm	59.6335 ppm	0.0291 ppm	0.0055 ppm	0.1954 ppm	0.0045 ppm	14.8274 ppm
Concentration RSD	59.5 %	0.2 %	3.3 %	9.2 %	0.3 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0568 ppm	0.1125 ppm	0.1269 ppm	124.1324 ppm	3.9820 ppm	0.1403 ppm
Concentration per Run 1	0.0015 ppm	0.0575 ppm	0.1125 ppm	0.1269 ppm	124.0195 ppm	4.0181 ppm	0.1422 ppm
Concentration per Run 2	0.0016 ppm	0.0566 ppm	0.1127 ppm	0.1270 ppm	124.0799 ppm	3.9518 ppm	0.1390 ppm
Concentration per Run 3	0.0014 ppm	0.0564 ppm	0.1123 ppm	0.1268 ppm	124.2980 ppm	3.9760 ppm	0.1395 ppm
Concentration RSD	8.7 %	1.0 %	0.2 %	0.1 %	0.1 %	0.8 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.1481 ppm	2.8520 ppm	0.0006 ppm	0.8027 ppm	0.1058 ppm	0.1522 ppm	0.0032 ppm
Concentration per Run 1	33.2425 ppm	2.8555 ppm	0.0009 ppm	0.8012 ppm	0.1060 ppm	0.1542 ppm	0.0019 ppm
Concentration per Run 2	33.1583 ppm	2.8499 ppm	0.0007 ppm	0.8061 ppm	0.1061 ppm	0.1524 ppm	0.0017 ppm
Concentration per Run 3	33.0436 ppm	2.8507 ppm	0.0004 ppm	0.8009 ppm	0.1055 ppm	0.1500 ppm	0.0059 ppm
Concentration RSD	0.3 %	0.1 %	39.7 %	0.4 %	0.3 %	1.4 %	73.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	5.7225 ppm	0.0135 ppm	0.1093 ppm	2.3148 ppm	0.0007 ppm	0.1148 ppm
Concentration per Run 1	-0.0006 ppm	5.7430 ppm	0.0139 ppm	0.1090 ppm	2.3139 ppm	0.0003 ppm	0.1149 ppm
Concentration per Run 2	-0.0030 ppm	5.7218 ppm	0.0139 ppm	0.1096 ppm	2.3141 ppm	0.0011 ppm	0.1148 ppm
Concentration per Run 3	-0.0017 ppm	5.7027 ppm	0.0126 ppm	0.1094 ppm	2.3164 ppm	0.0005 ppm	0.1147 ppm
Concentration RSD	65.9 %	0.4 %	5.5 %	0.2 %	0.1 %	63.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4654 ppm	101.2346 %	110.2661 %	96.8649 %	113.7100 %	123.9115 %	114.7066 %
Concentration per Run 1	0.4652 ppm	100.9038 %	110.3078 %	96.8252 %	113.7973 %	123.9034 %	114.8899 %
Concentration per Run 2	0.4663 ppm	101.1857 %	110.8555 %	96.6449 %	113.4097 %	124.5206 %	114.2819 %
Concentration per Run 3	0.4646 ppm	101.6142 %	109.6349 %	97.1244 %	113.9231 %	123.3104 %	114.9481 %
Concentration RSD	0.2 %	0.4 %	0.6 %	0.3 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-04D2 WG1935259
Analysis started at: 6/18/2024 10:43:55 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	44.3008 ppm	0.0227 ppm	0.0089 ppm	0.1791 ppm	0.0032 ppm	18.0809 ppm
Concentration per Run 1	0.0004 ppm	44.1687 ppm	0.0219 ppm	0.0100 ppm	0.1789 ppm	0.0032 ppm	18.0267 ppm
Concentration per Run 2	0.0005 ppm	44.3221 ppm	0.0230 ppm	0.0091 ppm	0.1788 ppm	0.0033 ppm	18.0930 ppm
Concentration per Run 3	0.0003 ppm	44.4116 ppm	0.0233 ppm	0.0077 ppm	0.1795 ppm	0.0033 ppm	18.1230 ppm
Concentration RSD	30.9 %	0.3 %	3.2 %	12.8 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0373 ppm	0.0987 ppm	0.0977 ppm	93.6926 ppm	3.5416 ppm	0.0875 ppm
Concentration per Run 1	0.0008 ppm	0.0377 ppm	0.0987 ppm	0.0985 ppm	93.4951 ppm	3.5843 ppm	0.0914 ppm
Concentration per Run 2	0.0006 ppm	0.0373 ppm	0.0980 ppm	0.0974 ppm	93.7315 ppm	3.5302 ppm	0.0852 ppm
Concentration per Run 3	0.0007 ppm	0.0369 ppm	0.0993 ppm	0.0971 ppm	93.8514 ppm	3.5103 ppm	0.0858 ppm
Concentration RSD	17.7 %	1.0 %	0.6 %	0.8 %	0.2 %	1.1 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.2160 ppm	2.4469 ppm	0.0071 ppm	4.0195 ppm	0.0716 ppm	0.1756 ppm	0.0000 ppm
Concentration per Run 1	31.3408 ppm	2.4465 ppm	0.0067 ppm	4.0120 ppm	0.0723 ppm	0.1751 ppm	-0.0008 ppm
Concentration per Run 2	31.1823 ppm	2.4453 ppm	0.0073 ppm	4.0273 ppm	0.0712 ppm	0.1756 ppm	-0.0007 ppm
Concentration per Run 3	31.1248 ppm	2.4490 ppm	0.0073 ppm	4.0192 ppm	0.0711 ppm	0.1761 ppm	0.0015 ppm
Concentration RSD	0.4 %	0.1 %	5.0 %	0.2 %	0.9 %	0.3 %	3,697.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	5.3301 ppm	0.0064 ppm	0.1502 ppm	1.4334 ppm	0.0002 ppm	0.0774 ppm
Concentration per Run 1	-0.0014 ppm	5.3482 ppm	0.0068 ppm	0.1495 ppm	1.4377 ppm	-0.0009 ppm	0.0773 ppm
Concentration per Run 2	-0.0015 ppm	5.3598 ppm	0.0049 ppm	0.1508 ppm	1.4326 ppm	-0.0003 ppm	0.0775 ppm
Concentration per Run 3	0.0004 ppm	5.2822 ppm	0.0075 ppm	0.1505 ppm	1.4300 ppm	0.0019 ppm	0.0775 ppm
Concentration RSD	130.2 %	0.8 %	21.3 %	0.4 %	0.3 %	653.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3164 ppm	99.5485 %	108.1925 %	97.1939 %	108.7323 %	117.4914 %	109.6501 %
Concentration per Run 1	0.3155 ppm	99.2319 %	107.6006 %	96.7201 %	108.6795 %	116.8511 %	109.1268 %
Concentration per Run 2	0.3173 ppm	99.6049 %	109.2684 %	97.1145 %	108.7179 %	118.7021 %	109.6966 %
Concentration per Run 3	0.3165 ppm	99.8088 %	107.7086 %	97.7473 %	108.7996 %	116.9209 %	110.1269 %
Concentration RSD	0.3 %	0.3 %	0.9 %	0.5 %	0.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-05D2 WG1935259
Analysis started at: 6/18/2024 10:47:53 AM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	76.8720 ppm	0.0671 ppm	0.0029 ppm	0.1898 ppm	0.0040 ppm	10.8664 ppm
Concentration per Run 1	0.0003 ppm	76.9473 ppm	0.0680 ppm	0.0016 ppm	0.1908 ppm	0.0040 ppm	10.8771 ppm
Concentration per Run 2	0.0007 ppm	76.9285 ppm	0.0683 ppm	0.0029 ppm	0.1885 ppm	0.0040 ppm	10.8910 ppm
Concentration per Run 3	0.0002 ppm	76.7401 ppm	0.0649 ppm	0.0041 ppm	0.1902 ppm	0.0040 ppm	10.8309 ppm
Concentration RSD	73.2 %	0.1 %	2.8 %	43.8 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0681 ppm	0.1101 ppm	0.1373 ppm	149.9496 ppm	3.2311 ppm	0.1279 ppm
Concentration per Run 1	0.0015 ppm	0.0688 ppm	0.1111 ppm	0.1380 ppm	150.7222 ppm	3.2913 ppm	0.1295 ppm
Concentration per Run 2	0.0015 ppm	0.0675 ppm	0.1097 ppm	0.1371 ppm	149.3683 ppm	3.2136 ppm	0.1302 ppm
Concentration per Run 3	0.0013 ppm	0.0681 ppm	0.1094 ppm	0.1369 ppm	149.7583 ppm	3.1885 ppm	0.1239 ppm
Concentration RSD	9.2 %	0.9 %	0.9 %	0.4 %	0.5 %	1.7 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.3209 ppm	3.2049 ppm	0.0006 ppm	0.3308 ppm	0.1246 ppm	0.1481 ppm	0.0032 ppm
Concentration per Run 1	38.4897 ppm	3.2074 ppm	-0.0002 ppm	0.3212 ppm	0.1251 ppm	0.1491 ppm	0.0018 ppm
Concentration per Run 2	38.3306 ppm	3.2122 ppm	0.0013 ppm	0.3305 ppm	0.1250 ppm	0.1475 ppm	0.0056 ppm
Concentration per Run 3	38.1422 ppm	3.1950 ppm	0.0006 ppm	0.3408 ppm	0.1236 ppm	0.1476 ppm	0.0023 ppm
Concentration RSD	0.5 %	0.3 %	130.3 %	3.0 %	0.6 %	0.6 %	63.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	5.1065 ppm	0.0041 ppm	0.1160 ppm	1.4100 ppm	-0.0011 ppm	0.1163 ppm
Concentration per Run 1	-0.0014 ppm	5.1100 ppm	0.0048 ppm	0.1165 ppm	1.4171 ppm	0.0006 ppm	0.1168 ppm
Concentration per Run 2	0.0000 ppm	5.1005 ppm	0.0032 ppm	0.1156 ppm	1.4102 ppm	-0.0020 ppm	0.1157 ppm
Concentration per Run 3	-0.0003 ppm	5.1089 ppm	0.0043 ppm	0.1159 ppm	1.4026 ppm	-0.0019 ppm	0.1165 ppm
Concentration RSD	129.9 %	0.1 %	19.4 %	0.4 %	0.5 %	134.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4859 ppm	100.4535 %	110.0821 %	97.1305 %	109.6794 %	120.5429 %	111.4307 %
Concentration per Run 1	0.4867 ppm	100.0744 %	109.6120 %	96.5868 %	109.5324 %	119.9701 %	111.1397 %
Concentration per Run 2	0.4864 ppm	100.5884 %	110.2035 %	97.1804 %	109.8777 %	120.7148 %	111.4001 %
Concentration per Run 3	0.4845 ppm	100.6977 %	110.4308 %	97.6244 %	109.6281 %	120.9436 %	111.7524 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.5 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-06D2 WG1935259
Analysis started at: 6/18/2024 10:51:49 AM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	67.1973 ppm	0.0372 ppm	0.0063 ppm	0.1939 ppm	0.0052 ppm	17.9316 ppm
Concentration per Run 1	0.0002 ppm	67.2224 ppm	0.0356 ppm	0.0062 ppm	0.1934 ppm	0.0051 ppm	17.9086 ppm
Concentration per Run 2	0.0012 ppm	67.0731 ppm	0.0392 ppm	0.0063 ppm	0.1946 ppm	0.0052 ppm	17.9474 ppm
Concentration per Run 3	0.0000 ppm	67.2965 ppm	0.0369 ppm	0.0063 ppm	0.1937 ppm	0.0051 ppm	17.9387 ppm
Concentration RSD	125.2 %	0.2 %	4.9 %	1.2 %	0.3 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0600 ppm	0.1018 ppm	0.1300 ppm	130.5409 ppm	3.2921 ppm	0.1489 ppm
Concentration per Run 1	0.0009 ppm	0.0598 ppm	0.1018 ppm	0.1299 ppm	130.4287 ppm	3.3227 ppm	0.1491 ppm
Concentration per Run 2	0.0011 ppm	0.0599 ppm	0.1015 ppm	0.1299 ppm	130.8924 ppm	3.3044 ppm	0.1495 ppm
Concentration per Run 3	0.0008 ppm	0.0603 ppm	0.1020 ppm	0.1300 ppm	130.3017 ppm	3.2493 ppm	0.1481 ppm
Concentration RSD	17.2 %	0.4 %	0.3 %	0.0 %	0.2 %	1.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.2666 ppm	2.8172 ppm	-0.0016 ppm	0.3215 ppm	0.1059 ppm	0.1188 ppm	0.0012 ppm
Concentration per Run 1	28.3997 ppm	2.8176 ppm	-0.0018 ppm	0.3267 ppm	0.1064 ppm	0.1189 ppm	0.0009 ppm
Concentration per Run 2	28.2676 ppm	2.8200 ppm	-0.0015 ppm	0.3175 ppm	0.1050 ppm	0.1177 ppm	-0.0005 ppm
Concentration per Run 3	28.1325 ppm	2.8141 ppm	-0.0015 ppm	0.3202 ppm	0.1063 ppm	0.1198 ppm	0.0031 ppm
Concentration RSD	0.5 %	0.1 %	11.9 %	1.5 %	0.7 %	0.9 %	153.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	5.4647 ppm	0.0104 ppm	0.0841 ppm	2.3905 ppm	0.0008 ppm	0.1313 ppm
Concentration per Run 1	0.0000 ppm	5.4627 ppm	0.0107 ppm	0.0838 ppm	2.3932 ppm	0.0002 ppm	0.1317 ppm
Concentration per Run 2	-0.0001 ppm	5.4560 ppm	0.0096 ppm	0.0845 ppm	2.3891 ppm	0.0009 ppm	0.1309 ppm
Concentration per Run 3	-0.0001 ppm	5.4754 ppm	0.0108 ppm	0.0839 ppm	2.3891 ppm	0.0012 ppm	0.1313 ppm
Concentration RSD	74.9 %	0.2 %	6.4 %	0.4 %	0.1 %	64.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4127 ppm	101.7918 %	112.0512 %	97.6275 %	118.0737 %	130.4970 %	119.8126 %
Concentration per Run 1	0.4118 ppm	101.1334 %	111.7637 %	97.3618 %	117.4930 %	130.0873 %	119.7291 %
Concentration per Run 2	0.4125 ppm	101.9944 %	111.4856 %	98.1789 %	118.4806 %	130.2930 %	119.9418 %
Concentration per Run 3	0.4137 ppm	102.2477 %	112.9042 %	97.3419 %	118.2474 %	131.1106 %	119.7668 %
Concentration RSD	0.2 %	0.6 %	0.7 %	0.5 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: 0.5 ppm Li STD for MS
Analysis started at: 6/18/2024 10:55:46 AM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0180 ppm	0.0004 ppm	-0.0008 ppm	-0.0003 ppm	0.0000 ppm	0.0547 ppm
Concentration per Run 1	0.0008 ppm	-0.0197 ppm	0.0023 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0512 ppm
Concentration per Run 2	0.0005 ppm	-0.0222 ppm	-0.0009 ppm	-0.0016 ppm	-0.0003 ppm	0.0000 ppm	0.0557 ppm
Concentration per Run 3	0.0000 ppm	-0.0121 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0571 ppm
Concentration RSD	89.5 %	29.4 %	405.4 %	97.1 %	18.5 %	139.6 %	5.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm	-0.0010 ppm	0.5283 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0003 ppm	0.0046 ppm	0.0290 ppm	0.5342 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	-0.0005 ppm	-0.0002 ppm	0.0061 ppm	-0.0146 ppm	0.5244 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0057 ppm	-0.0174 ppm	0.5264 ppm
Concentration RSD	185.4 %	6.4 %	130.1 %	292.7 %	14.1 %	2,639.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0004 ppm	-0.0035 ppm	-0.0009 ppm	0.0004 ppm	0.0010 ppm	-0.0016 ppm
Concentration per Run 1	0.0004 ppm	0.0005 ppm	-0.0038 ppm	-0.0064 ppm	0.0002 ppm	0.0011 ppm	-0.0016 ppm
Concentration per Run 2	-0.0008 ppm	0.0004 ppm	-0.0033 ppm	-0.0049 ppm	0.0016 ppm	0.0009 ppm	-0.0016 ppm
Concentration per Run 3	-0.0007 ppm	0.0002 ppm	-0.0033 ppm	0.0087 ppm	-0.0004 ppm	0.0009 ppm	-0.0015 ppm
Concentration RSD	185.0 %	31.4 %	8.4 %	934.8 %	241.0 %	10.6 %	2.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0026 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0006 ppm	0.0043 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 2	0.0021 ppm	0.0020 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	0.0015 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	-0.0004 ppm
Concentration RSD	619.0 %	56.8 %	165.5 %	64.7 %	30.3 %	609.1 %	3.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	92.2375 %	102.4510 %	95.5619 %	100.3220 %	107.4087 %	101.8959 %
Concentration per Run 1	0.0004 ppm	90.4902 %	101.5269 %	95.3080 %	99.3098 %	106.8588 %	102.1813 %
Concentration per Run 2	0.0002 ppm	92.6636 %	102.1302 %	95.0288 %	100.7791 %	106.8784 %	101.2131 %
Concentration per Run 3	0.0004 ppm	93.5587 %	103.6960 %	96.3488 %	100.8772 %	108.4889 %	102.2931 %
Concentration RSD	34.9 %	1.7 %	1.1 %	0.7 %	0.9 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:59:45 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5200 ppm	0.4929 ppm	0.4943 ppm	0.5106 ppm	0.5116 ppm	0.5169 ppm	0.5018 ppm
Concentration per Run 1	0.5167 ppm	0.4975 ppm	0.4954 ppm	0.5087 ppm	0.5119 ppm	0.5170 ppm	0.4997 ppm
Concentration per Run 2	0.5206 ppm	0.4947 ppm	0.4902 ppm	0.5100 ppm	0.5147 ppm	0.5162 ppm	0.5017 ppm
Concentration per Run 3	0.5227 ppm	0.4864 ppm	0.4972 ppm	0.5129 ppm	0.5081 ppm	0.5174 ppm	0.5041 ppm
Recovery Percentage 1	104.001 %	98.581 %	98.850 %	102.111 %	102.313 %	103.380 %	100.363 %
Concentration RSD	0.6 %	1.2 %	0.7 %	0.4 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5208 ppm	0.5272 ppm	0.5177 ppm	0.5039 ppm	0.5185 ppm	5.2329 ppm	0.4811 ppm
Concentration per Run 1	0.5191 ppm	0.5262 ppm	0.5162 ppm	0.5035 ppm	0.5185 ppm	5.2562 ppm	0.4783 ppm
Concentration per Run 2	0.5210 ppm	0.5267 ppm	0.5175 ppm	0.5035 ppm	0.5198 ppm	5.2909 ppm	0.4884 ppm
Concentration per Run 3	0.5223 ppm	0.5288 ppm	0.5193 ppm	0.5049 ppm	0.5171 ppm	5.1516 ppm	0.4766 ppm
Recovery Percentage 1	104.165 %	105.448 %	103.536 %	100.788 %	103.691 %	104.658 %	96.222 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.2 %	0.3 %	1.4 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5089 ppm	0.4952 ppm	0.5161 ppm	10.6032 ppm	0.5340 ppm	0.5071 ppm	0.5114 ppm
Concentration per Run 1	0.5091 ppm	0.4958 ppm	0.5060 ppm	10.5972 ppm	0.5327 ppm	0.5070 ppm	0.5073 ppm
Concentration per Run 2	0.5080 ppm	0.4954 ppm	0.5185 ppm	10.5878 ppm	0.5336 ppm	0.5067 ppm	0.5094 ppm
Concentration per Run 3	0.5095 ppm	0.4945 ppm	0.5238 ppm	10.6246 ppm	0.5358 ppm	0.5076 ppm	0.5176 ppm
Recovery Percentage 1	101.772 %	99.048 %	103.219 %	106.032 %	106.807 %	101.422 %	102.286 %
Concentration RSD	0.2 %	0.1 %	1.8 %	0.2 %	0.3 %	0.1 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5056 ppm	5.3721 ppm	0.5445 ppm	0.5198 ppm	0.5216 ppm	0.4976 ppm	0.5146 ppm
Concentration per Run 1	0.5053 ppm	5.3503 ppm	0.5451 ppm	0.5204 ppm	0.5208 ppm	0.4970 ppm	0.5123 ppm
Concentration per Run 2	0.5074 ppm	5.3722 ppm	0.5425 ppm	0.5197 ppm	0.5203 ppm	0.4984 ppm	0.5144 ppm
Concentration per Run 3	0.5042 ppm	5.3938 ppm	0.5459 ppm	0.5192 ppm	0.5237 ppm	0.4975 ppm	0.5171 ppm
Recovery Percentage 1	101.126 %	102.325 %	108.904 %	103.955 %	104.318 %	99.524 %	102.918 %
Concentration RSD	0.3 %	0.4 %	0.3 %	0.1 %	0.3 %	0.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5372 ppm	100.0709 %	106.2357 %	100.0250 %	98.1798 %	104.5489 %	99.2973 %
Concentration per Run 1	0.5362 ppm	100.2577 %	106.8144 %	100.0242 %	98.4073 %	105.1215 %	99.4601 %
Concentration per Run 2	0.5358 ppm	100.1000 %	106.0866 %	100.2090 %	98.1560 %	104.4528 %	99.6195 %
Concentration per Run 3	0.5396 ppm	99.8551 %	105.8060 %	99.8418 %	97.9761 %	104.0723 %	98.8122 %
Recovery Percentage 1	107.437 %						
Concentration RSD	0.4 %	0.2 %	0.5 %	0.2 %	0.2 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 11:03:42 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0148 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 1	0.0004 ppm	-0.0194 ppm	0.0002 ppm	-0.0006 ppm	-0.0003 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 2	0.0005 ppm	-0.0196 ppm	0.0010 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	-0.0033 ppm
Concentration per Run 3	0.0004 ppm	-0.0053 ppm	-0.0010 ppm	0.0012 ppm	-0.0004 ppm	0.0000 ppm	-0.0005 ppm
Recovery Percentage 1	6.471 %	-14.773 %	1.922 %	0.532 %	-3.673 %	0.801 %	-2.206 %
Concentration RSD	3.2 %	55.4 %	1,725.9 %	580.6 %	22.5 %	79.4 %	68.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0055 ppm	0.0129 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0069 ppm	0.0058 ppm	-0.0027 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0054 ppm	-0.0005 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0043 ppm	0.0334 ppm	-0.0009 ppm
Recovery Percentage 1	0.527 %	-0.722 %	-1.141 %	-1.067 %	11.040 %	0.516 %	-17.414 %
Concentration RSD	166.0 %	133.6 %	81.2 %	208.3 %	22.9 %	140.1 %	54.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0003 ppm	-0.0019 ppm	0.0105 ppm	0.0002 ppm	-0.0004 ppm	-0.0032 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	-0.0017 ppm	0.0048 ppm	0.0003 ppm	-0.0002 ppm	-0.0041 ppm
Concentration per Run 2	-0.0024 ppm	0.0004 ppm	-0.0021 ppm	0.0140 ppm	0.0010 ppm	-0.0004 ppm	-0.0029 ppm
Concentration per Run 3	-0.0019 ppm	0.0000 ppm	-0.0017 ppm	0.0125 ppm	-0.0006 ppm	-0.0005 ppm	-0.0025 ppm
Recovery Percentage 1	-1.351 %	2.602 %	-3.700 %	0.523 %	0.939 %	-3.567 %	-6.329 %
Concentration RSD	104.5 %	85.3 %	11.2 %	47.3 %	339.5 %	49.5 %	26.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0020 ppm	0.0006 ppm	0.0001 ppm	-0.0006 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0020 ppm	0.0021 ppm	0.0001 ppm	-0.0007 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0040 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0012 ppm	-0.0004 ppm
Concentration per Run 3	-0.0012 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0009 ppm	-0.0004 ppm
Recovery Percentage 1	-3.730 %	0.394 %	1.252 %	1.357 %	-5.712 %	-4.166 %	-3.251 %
Concentration RSD	192.5 %	102.7 %	197.4 %	107.3 %	23.3 %	48.0 %	25.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	96.1635 %	103.7713 %	98.2190 %	97.8704 %	104.5452 %	99.7966 %
Concentration per Run 1	0.0005 ppm	95.7604 %	104.1826 %	97.6985 %	97.9563 %	105.1848 %	99.5425 %
Concentration per Run 2	0.0005 ppm	95.8531 %	102.3793 %	98.7656 %	97.3994 %	103.0187 %	100.2948 %
Concentration per Run 3	0.0009 ppm	96.8769 %	104.7519 %	98.1929 %	98.2555 %	105.4320 %	99.5526 %
Recovery Percentage 1	12.734 %						
Concentration RSD	30.4 %	0.6 %	1.2 %	0.5 %	0.4 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-07D2 WG1935259
Analysis started at: 6/18/2024 11:11:58 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	64.8436 ppm	0.0291 ppm	0.0038 ppm	0.1605 ppm	0.0046 ppm	13.3511 ppm
Concentration per Run 1	0.0003 ppm	64.7313 ppm	0.0294 ppm	0.0032 ppm	0.1606 ppm	0.0046 ppm	13.3305 ppm
Concentration per Run 2	0.0001 ppm	64.8812 ppm	0.0294 ppm	0.0044 ppm	0.1597 ppm	0.0047 ppm	13.3545 ppm
Concentration per Run 3	-0.0001 ppm	64.9181 ppm	0.0285 ppm	0.0039 ppm	0.1612 ppm	0.0046 ppm	13.3685 ppm
Concentration RSD	143.6 %	0.2 %	1.7 %	16.2 %	0.5 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0543 ppm	0.1089 ppm	0.1106 ppm	124.8724 ppm	3.4481 ppm	0.1753 ppm
Concentration per Run 1	0.0007 ppm	0.0545 ppm	0.1087 ppm	0.1100 ppm	124.9329 ppm	3.4454 ppm	0.1784 ppm
Concentration per Run 2	0.0008 ppm	0.0537 ppm	0.1087 ppm	0.1107 ppm	124.4866 ppm	3.4638 ppm	0.1740 ppm
Concentration per Run 3	0.0010 ppm	0.0547 ppm	0.1094 ppm	0.1111 ppm	125.1975 ppm	3.4352 ppm	0.1735 ppm
Concentration RSD	13.6 %	1.0 %	0.4 %	0.5 %	0.3 %	0.4 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.1593 ppm	2.7728 ppm	-0.0012 ppm	0.2787 ppm	0.1018 ppm	0.1087 ppm	0.0026 ppm
Concentration per Run 1	28.0753 ppm	2.7708 ppm	-0.0012 ppm	0.2788 ppm	0.1014 ppm	0.1081 ppm	0.0032 ppm
Concentration per Run 2	28.0982 ppm	2.7706 ppm	-0.0013 ppm	0.2807 ppm	0.1018 ppm	0.1090 ppm	0.0009 ppm
Concentration per Run 3	28.3044 ppm	2.7769 ppm	-0.0010 ppm	0.2765 ppm	0.1022 ppm	0.1090 ppm	0.0037 ppm
Concentration RSD	0.4 %	0.1 %	12.0 %	0.8 %	0.4 %	0.5 %	57.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.1653 ppm	0.0058 ppm	0.0670 ppm	2.0624 ppm	0.0008 ppm	0.1125 ppm
Concentration per Run 1	-0.0022 ppm	4.1601 ppm	0.0048 ppm	0.0670 ppm	2.0565 ppm	0.0015 ppm	0.1120 ppm
Concentration per Run 2	-0.0007 ppm	4.1705 ppm	0.0061 ppm	0.0670 ppm	2.0601 ppm	0.0012 ppm	0.1131 ppm
Concentration per Run 3	0.0016 ppm	4.1655 ppm	0.0063 ppm	0.0671 ppm	2.0706 ppm	-0.0003 ppm	0.1124 ppm
Concentration RSD	464.8 %	0.1 %	14.2 %	0.1 %	0.4 %	127.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3890 ppm	108.6805 %	112.7018 %	101.9795 %	118.6905 %	125.5121 %	118.9502 %
Concentration per Run 1	0.3887 ppm	109.3170 %	112.7756 %	102.2237 %	118.9181 %	125.7267 %	118.8892 %
Concentration per Run 2	0.3891 ppm	108.6556 %	112.3118 %	102.2761 %	118.8256 %	124.9924 %	119.1030 %
Concentration per Run 3	0.3893 ppm	108.0688 %	113.0182 %	101.4386 %	118.3277 %	125.8173 %	118.8583 %
Concentration RSD	0.1 %	0.6 %	0.3 %	0.5 %	0.3 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-08D2 WG1935259
Analysis started at: 6/18/2024 11:16:11 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	59.8120 ppm	0.0300 ppm	0.0077 ppm	0.1713 ppm	0.0043 ppm	12.2479 ppm
Concentration per Run 1	0.0007 ppm	59.8685 ppm	0.0290 ppm	0.0090 ppm	0.1708 ppm	0.0043 ppm	12.2594 ppm
Concentration per Run 2	0.0001 ppm	59.7279 ppm	0.0302 ppm	0.0076 ppm	0.1721 ppm	0.0043 ppm	12.2582 ppm
Concentration per Run 3	0.0003 ppm	59.8398 ppm	0.0307 ppm	0.0065 ppm	0.1711 ppm	0.0043 ppm	12.2262 ppm
Concentration RSD	74.1 %	0.1 %	3.0 %	16.3 %	0.4 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0598 ppm	0.0941 ppm	0.1342 ppm	114.3967 ppm	3.3184 ppm	0.1297 ppm
Concentration per Run 1	0.0009 ppm	0.0597 ppm	0.0944 ppm	0.1343 ppm	113.9287 ppm	3.3515 ppm	0.1290 ppm
Concentration per Run 2	0.0009 ppm	0.0599 ppm	0.0943 ppm	0.1338 ppm	114.8306 ppm	3.3186 ppm	0.1305 ppm
Concentration per Run 3	0.0009 ppm	0.0600 ppm	0.0934 ppm	0.1344 ppm	114.4306 ppm	3.2850 ppm	0.1296 ppm
Concentration RSD	3.2 %	0.3 %	0.6 %	0.2 %	0.4 %	1.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.4782 ppm	3.0485 ppm	0.0006 ppm	2.0884 ppm	0.0972 ppm	0.1378 ppm	0.0011 ppm
Concentration per Run 1	27.5339 ppm	3.0480 ppm	0.0008 ppm	2.0950 ppm	0.0980 ppm	0.1372 ppm	0.0029 ppm
Concentration per Run 2	27.4785 ppm	3.0519 ppm	0.0005 ppm	2.0848 ppm	0.0973 ppm	0.1387 ppm	0.0015 ppm
Concentration per Run 3	27.4221 ppm	3.0455 ppm	0.0005 ppm	2.0855 ppm	0.0963 ppm	0.1376 ppm	-0.0010 ppm
Concentration RSD	0.2 %	0.1 %	31.2 %	0.3 %	0.9 %	0.5 %	171.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	4.7693 ppm	0.0096 ppm	0.0832 ppm	2.2667 ppm	0.0013 ppm	0.1128 ppm
Concentration per Run 1	-0.0009 ppm	4.7871 ppm	0.0091 ppm	0.0832 ppm	2.2631 ppm	0.0022 ppm	0.1125 ppm
Concentration per Run 2	0.0028 ppm	4.7554 ppm	0.0095 ppm	0.0834 ppm	2.2701 ppm	0.0005 ppm	0.1130 ppm
Concentration per Run 3	0.0020 ppm	4.7654 ppm	0.0103 ppm	0.0831 ppm	2.2670 ppm	0.0013 ppm	0.1130 ppm
Concentration RSD	150.4 %	0.3 %	6.7 %	0.2 %	0.2 %	67.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3774 ppm	100.5497 %	108.8050 %	96.6019 %	113.7776 %	123.9758 %	115.0957 %
Concentration per Run 1	0.3778 ppm	100.6522 %	108.1909 %	96.3113 %	114.0735 %	123.2841 %	114.7020 %
Concentration per Run 2	0.3776 ppm	100.1547 %	108.4262 %	96.9428 %	112.9616 %	123.4627 %	115.5055 %
Concentration per Run 3	0.3768 ppm	100.8421 %	109.7981 %	96.5515 %	114.2978 %	125.1805 %	115.0797 %
Concentration RSD	0.2 %	0.4 %	0.8 %	0.3 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-09D2 WG1935259
Analysis started at: 6/18/2024 11:22:54 AM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	53.2426 ppm	0.0234 ppm	0.0085 ppm	0.1695 ppm	0.0036 ppm	20.4712 ppm
Concentration per Run 1	0.0009 ppm	53.2715 ppm	0.0229 ppm	0.0082 ppm	0.1700 ppm	0.0036 ppm	20.4902 ppm
Concentration per Run 2	0.0004 ppm	53.1900 ppm	0.0227 ppm	0.0096 ppm	0.1689 ppm	0.0036 ppm	20.4324 ppm
Concentration per Run 3	0.0002 ppm	53.2661 ppm	0.0246 ppm	0.0077 ppm	0.1694 ppm	0.0036 ppm	20.4910 ppm
Concentration RSD	65.1 %	0.1 %	4.6 %	11.8 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0492 ppm	0.1246 ppm	0.1379 ppm	108.3552 ppm	3.5739 ppm	0.1153 ppm
Concentration per Run 1	0.0010 ppm	0.0486 ppm	0.1249 ppm	0.1377 ppm	108.4215 ppm	3.5897 ppm	0.1191 ppm
Concentration per Run 2	0.0010 ppm	0.0497 ppm	0.1250 ppm	0.1376 ppm	108.3647 ppm	3.5638 ppm	0.1108 ppm
Concentration per Run 3	0.0010 ppm	0.0491 ppm	0.1241 ppm	0.1383 ppm	108.2795 ppm	3.5683 ppm	0.1160 ppm
Concentration RSD	2.0 %	1.1 %	0.4 %	0.3 %	0.1 %	0.4 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.7686 ppm	2.6923 ppm	0.0012 ppm	1.9876 ppm	0.1047 ppm	0.1622 ppm	0.0015 ppm
Concentration per Run 1	33.9201 ppm	2.6897 ppm	0.0015 ppm	1.9904 ppm	0.1049 ppm	0.1627 ppm	0.0059 ppm
Concentration per Run 2	33.7523 ppm	2.6870 ppm	0.0009 ppm	1.9782 ppm	0.1056 ppm	0.1609 ppm	0.0008 ppm
Concentration per Run 3	33.6334 ppm	2.7001 ppm	0.0012 ppm	1.9941 ppm	0.1036 ppm	0.1629 ppm	-0.0022 ppm
Concentration RSD	0.4 %	0.3 %	25.7 %	0.4 %	1.0 %	0.7 %	273.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	5.9164 ppm	0.0112 ppm	0.1375 ppm	1.8858 ppm	-0.0003 ppm	0.1033 ppm
Concentration per Run 1	0.0002 ppm	5.8944 ppm	0.0100 ppm	0.1377 ppm	1.8930 ppm	0.0001 ppm	0.1032 ppm
Concentration per Run 2	-0.0003 ppm	5.9351 ppm	0.0113 ppm	0.1374 ppm	1.8873 ppm	-0.0010 ppm	0.1036 ppm
Concentration per Run 3	0.0002 ppm	5.9199 ppm	0.0123 ppm	0.1374 ppm	1.8771 ppm	0.0001 ppm	0.1030 ppm
Concentration RSD	758.5 %	0.3 %	10.3 %	0.1 %	0.4 %	221.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4408 ppm	100.1889 %	109.3046 %	97.1149 %	111.7241 %	122.0390 %	112.8664 %
Concentration per Run 1	0.4430 ppm	99.5303 %	109.1933 %	97.2486 %	111.4502 %	121.9747 %	113.2603 %
Concentration per Run 2	0.4428 ppm	100.2705 %	109.6801 %	97.5268 %	111.7400 %	122.5309 %	113.0710 %
Concentration per Run 3	0.4364 ppm	100.7660 %	109.0404 %	96.5692 %	111.9822 %	121.6112 %	112.2680 %
Concentration RSD	0.8 %	0.6 %	0.3 %	0.5 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-10D2 WG1935259
Analysis started at: 6/18/2024 11:26:55 AM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	47.3117 ppm	0.0252 ppm	0.0283 ppm	0.1534 ppm	0.0032 ppm	23.6627 ppm
Concentration per Run 1	0.0000 ppm	47.2943 ppm	0.0242 ppm	0.0291 ppm	0.1540 ppm	0.0032 ppm	23.6679 ppm
Concentration per Run 2	-0.0005 ppm	47.3003 ppm	0.0254 ppm	0.0279 ppm	0.1532 ppm	0.0033 ppm	23.6144 ppm
Concentration per Run 3	-0.0001 ppm	47.3404 ppm	0.0260 ppm	0.0279 ppm	0.1528 ppm	0.0032 ppm	23.7059 ppm
Concentration RSD	139.1 %	0.1 %	3.7 %	2.5 %	0.4 %	2.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1047 ppm	0.0982 ppm	0.0880 ppm	109.4610 ppm	3.3781 ppm	0.0969 ppm
Concentration per Run 1	0.0006 ppm	0.1051 ppm	0.0987 ppm	0.0881 ppm	109.8560 ppm	3.3963 ppm	0.0997 ppm
Concentration per Run 2	0.0008 ppm	0.1048 ppm	0.0984 ppm	0.0882 ppm	109.4645 ppm	3.3756 ppm	0.0956 ppm
Concentration per Run 3	0.0007 ppm	0.1041 ppm	0.0973 ppm	0.0875 ppm	109.0627 ppm	3.3622 ppm	0.0954 ppm
Concentration RSD	11.6 %	0.5 %	0.7 %	0.4 %	0.4 %	0.5 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.1025 ppm	2.2987 ppm	0.0007 ppm	4.5592 ppm	0.0783 ppm	0.2250 ppm	0.0011 ppm
Concentration per Run 1	28.2782 ppm	2.3004 ppm	0.0008 ppm	4.5562 ppm	0.0785 ppm	0.2247 ppm	-0.0011 ppm
Concentration per Run 2	28.0412 ppm	2.2963 ppm	0.0010 ppm	4.5517 ppm	0.0777 ppm	0.2248 ppm	0.0023 ppm
Concentration per Run 3	27.9882 ppm	2.2993 ppm	0.0002 ppm	4.5699 ppm	0.0786 ppm	0.2256 ppm	0.0019 ppm
Concentration RSD	0.5 %	0.1 %	62.0 %	0.2 %	0.6 %	0.2 %	174.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	5.3836 ppm	0.0088 ppm	0.1322 ppm	1.8792 ppm	0.0007 ppm	0.0907 ppm
Concentration per Run 1	0.0005 ppm	5.3865 ppm	0.0076 ppm	0.1326 ppm	1.8881 ppm	0.0005 ppm	0.0911 ppm
Concentration per Run 2	0.0018 ppm	5.4245 ppm	0.0095 ppm	0.1320 ppm	1.8765 ppm	0.0002 ppm	0.0904 ppm
Concentration per Run 3	0.0035 ppm	5.3399 ppm	0.0092 ppm	0.1320 ppm	1.8729 ppm	0.0013 ppm	0.0907 ppm
Concentration RSD	79.0 %	0.8 %	11.5 %	0.3 %	0.4 %	82.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3131 ppm	99.7370 %	109.2647 %	96.7452 %	108.8919 %	118.9084 %	110.5388 %
Concentration per Run 1	0.3142 ppm	98.6447 %	109.6857 %	97.0629 %	107.9442 %	119.0915 %	111.1466 %
Concentration per Run 2	0.3134 ppm	100.3762 %	109.1063 %	96.5313 %	109.6035 %	118.6015 %	110.0956 %
Concentration per Run 3	0.3115 ppm	100.1901 %	109.0020 %	96.6415 %	109.1279 %	119.0321 %	110.3742 %
Concentration RSD	0.4 %	1.0 %	0.3 %	0.3 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-11D2 WG1935259
Analysis started at: 6/18/2024 11:30:51 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	45.8323 ppm	0.0292 ppm	0.0444 ppm	0.1852 ppm	0.0031 ppm	17.9188 ppm
Concentration per Run 1	0.0003 ppm	45.8653 ppm	0.0288 ppm	0.0461 ppm	0.1868 ppm	0.0031 ppm	17.9067 ppm
Concentration per Run 2	-0.0001 ppm	45.7887 ppm	0.0293 ppm	0.0427 ppm	0.1848 ppm	0.0030 ppm	17.9423 ppm
Concentration per Run 3	-0.0003 ppm	45.8427 ppm	0.0296 ppm	0.0445 ppm	0.1841 ppm	0.0031 ppm	17.9076 ppm
Concentration RSD	558.0 %	0.1 %	1.4 %	3.9 %	0.8 %	1.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0421 ppm	0.1135 ppm	0.1093 ppm	96.1670 ppm	3.3725 ppm	0.0928 ppm
Concentration per Run 1	0.0010 ppm	0.0427 ppm	0.1141 ppm	0.1098 ppm	96.3506 ppm	3.3764 ppm	0.0959 ppm
Concentration per Run 2	0.0012 ppm	0.0423 ppm	0.1130 ppm	0.1098 ppm	96.2771 ppm	3.3636 ppm	0.0906 ppm
Concentration per Run 3	0.0011 ppm	0.0411 ppm	0.1134 ppm	0.1082 ppm	95.8733 ppm	3.3775 ppm	0.0920 ppm
Concentration RSD	9.7 %	2.0 %	0.5 %	0.8 %	0.3 %	0.2 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.4585 ppm	2.5913 ppm	0.0016 ppm	2.6721 ppm	0.0797 ppm	0.1942 ppm	0.0030 ppm
Concentration per Run 1	28.6910 ppm	2.5900 ppm	0.0020 ppm	2.6609 ppm	0.0799 ppm	0.1942 ppm	0.0030 ppm
Concentration per Run 2	28.3864 ppm	2.5968 ppm	0.0016 ppm	2.6842 ppm	0.0800 ppm	0.1946 ppm	0.0032 ppm
Concentration per Run 3	28.2981 ppm	2.5872 ppm	0.0013 ppm	2.6710 ppm	0.0793 ppm	0.1938 ppm	0.0028 ppm
Concentration RSD	0.7 %	0.2 %	23.5 %	0.4 %	0.5 %	0.2 %	7.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	4.5871 ppm	0.0096 ppm	0.1233 ppm	1.8334 ppm	0.0001 ppm	0.0928 ppm
Concentration per Run 1	0.0023 ppm	4.6050 ppm	0.0089 ppm	0.1233 ppm	1.8430 ppm	-0.0015 ppm	0.0934 ppm
Concentration per Run 2	-0.0019 ppm	4.5825 ppm	0.0100 ppm	0.1237 ppm	1.8312 ppm	0.0018 ppm	0.0929 ppm
Concentration per Run 3	0.0013 ppm	4.5738 ppm	0.0099 ppm	0.1228 ppm	1.8259 ppm	0.0001 ppm	0.0921 ppm
Concentration RSD	371.0 %	0.4 %	6.6 %	0.4 %	0.5 %	1,516.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3760 ppm	99.6976 %	108.6214 %	96.3983 %	109.6973 %	118.5028 %	110.5432 %
Concentration per Run 1	0.3801 ppm	98.8111 %	109.1015 %	96.4638 %	109.0672 %	119.1343 %	110.8161 %
Concentration per Run 2	0.3741 ppm	99.9894 %	107.7552 %	96.2991 %	110.3081 %	117.4916 %	110.4501 %
Concentration per Run 3	0.3738 ppm	100.2923 %	109.0076 %	96.4318 %	109.7166 %	118.8824 %	110.3632 %
Concentration RSD	0.9 %	0.8 %	0.7 %	0.1 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-12D2 WG1935259
Analysis started at: 6/18/2024 11:34:48 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	75.4581 ppm	0.0400 ppm	0.0108 ppm	0.2587 ppm	0.0056 ppm	22.7166 ppm
Concentration per Run 1	-0.0002 ppm	75.3787 ppm	0.0394 ppm	0.0116 ppm	0.2581 ppm	0.0056 ppm	22.7026 ppm
Concentration per Run 2	0.0003 ppm	75.3490 ppm	0.0392 ppm	0.0100 ppm	0.2582 ppm	0.0056 ppm	22.7586 ppm
Concentration per Run 3	-0.0001 ppm	75.6466 ppm	0.0413 ppm	0.0108 ppm	0.2597 ppm	0.0056 ppm	22.6884 ppm
Concentration RSD	3,058.9 %	0.2 %	2.8 %	7.5 %	0.4 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0063 ppm	0.0668 ppm	0.1295 ppm	0.2383 ppm	137.2697 ppm	3.9762 ppm	0.1767 ppm
Concentration per Run 1	0.0063 ppm	0.0666 ppm	0.1297 ppm	0.2388 ppm	137.0100 ppm	3.9845 ppm	0.1774 ppm
Concentration per Run 2	0.0063 ppm	0.0671 ppm	0.1295 ppm	0.2375 ppm	137.4325 ppm	3.9553 ppm	0.1762 ppm
Concentration per Run 3	0.0064 ppm	0.0668 ppm	0.1294 ppm	0.2385 ppm	137.3665 ppm	3.9889 ppm	0.1766 ppm
Concentration RSD	0.9 %	0.4 %	0.1 %	0.3 %	0.2 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.3933 ppm	3.9810 ppm	0.0018 ppm	1.1234 ppm	0.1366 ppm	0.2271 ppm	0.0017 ppm
Concentration per Run 1	39.5705 ppm	3.9804 ppm	0.0016 ppm	1.1277 ppm	0.1372 ppm	0.2263 ppm	0.0004 ppm
Concentration per Run 2	39.3869 ppm	3.9821 ppm	0.0023 ppm	1.1275 ppm	0.1369 ppm	0.2274 ppm	0.0032 ppm
Concentration per Run 3	39.2223 ppm	3.9806 ppm	0.0015 ppm	1.1151 ppm	0.1357 ppm	0.2277 ppm	0.0015 ppm
Concentration RSD	0.4 %	0.0 %	23.6 %	0.6 %	0.6 %	0.3 %	84.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.9485 ppm	0.0120 ppm	0.1355 ppm	2.0500 ppm	0.0001 ppm	0.1483 ppm
Concentration per Run 1	-0.0001 ppm	4.9848 ppm	0.0119 ppm	0.1357 ppm	2.0571 ppm	-0.0014 ppm	0.1486 ppm
Concentration per Run 2	0.0009 ppm	4.9538 ppm	0.0118 ppm	0.1356 ppm	2.0481 ppm	0.0013 ppm	0.1481 ppm
Concentration per Run 3	-0.0001 ppm	4.9067 ppm	0.0123 ppm	0.1352 ppm	2.0447 ppm	0.0004 ppm	0.1483 ppm
Concentration RSD	266.3 %	0.8 %	2.0 %	0.2 %	0.3 %	1,101.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2242 ppm	100.9362 %	112.9794 %	96.5675 %	116.3012 %	129.5576 %	117.7521 %
Concentration per Run 1	1.2263 ppm	100.5414 %	113.6563 %	96.5746 %	116.1121 %	130.7294 %	117.6255 %
Concentration per Run 2	1.2239 ppm	100.9157 %	112.6213 %	96.4992 %	116.1540 %	128.7304 %	117.8210 %
Concentration per Run 3	1.2225 ppm	101.3516 %	112.6605 %	96.6287 %	116.6376 %	129.2129 %	117.8097 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.1 %	0.3 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-13D2 WG1935259
Analysis started at: 6/18/2024 11:40:01 AM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	71.0471 ppm	0.0467 ppm	0.0057 ppm	0.2081 ppm	0.0059 ppm	16.0279 ppm
Concentration per Run 1	-0.0002 ppm	71.3019 ppm	0.0464 ppm	0.0070 ppm	0.2081 ppm	0.0059 ppm	16.0399 ppm
Concentration per Run 2	-0.0002 ppm	70.9054 ppm	0.0466 ppm	0.0051 ppm	0.2082 ppm	0.0059 ppm	16.0161 ppm
Concentration per Run 3	-0.0002 ppm	70.9339 ppm	0.0471 ppm	0.0051 ppm	0.2080 ppm	0.0059 ppm	16.0278 ppm
Concentration RSD	16.6 %	0.3 %	0.7 %	19.1 %	0.1 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0651 ppm	0.1100 ppm	0.1510 ppm	141.6560 ppm	3.4981 ppm	0.1605 ppm
Concentration per Run 1	0.0011 ppm	0.0649 ppm	0.1104 ppm	0.1518 ppm	141.8870 ppm	3.5242 ppm	0.1618 ppm
Concentration per Run 2	0.0011 ppm	0.0655 ppm	0.1100 ppm	0.1508 ppm	141.5998 ppm	3.5141 ppm	0.1615 ppm
Concentration per Run 3	0.0012 ppm	0.0649 ppm	0.1095 ppm	0.1504 ppm	141.4811 ppm	3.4559 ppm	0.1581 ppm
Concentration RSD	5.0 %	0.5 %	0.4 %	0.5 %	0.1 %	1.1 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.9055 ppm	3.5696 ppm	-0.0002 ppm	0.4207 ppm	0.1139 ppm	0.1477 ppm	0.0008 ppm
Concentration per Run 1	30.0524 ppm	3.5802 ppm	-0.0001 ppm	0.4160 ppm	0.1149 ppm	0.1482 ppm	0.0006 ppm
Concentration per Run 2	29.9249 ppm	3.5658 ppm	-0.0003 ppm	0.4182 ppm	0.1133 ppm	0.1474 ppm	-0.0011 ppm
Concentration per Run 3	29.7393 ppm	3.5627 ppm	-0.0004 ppm	0.4278 ppm	0.1134 ppm	0.1476 ppm	0.0029 ppm
Concentration RSD	0.5 %	0.3 %	50.3 %	1.5 %	0.8 %	0.3 %	252.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	5.6819 ppm	0.0112 ppm	0.0997 ppm	2.6077 ppm	0.0009 ppm	0.1438 ppm
Concentration per Run 1	0.0006 ppm	5.7043 ppm	0.0114 ppm	0.1000 ppm	2.6177 ppm	0.0016 ppm	0.1447 ppm
Concentration per Run 2	-0.0010 ppm	5.6810 ppm	0.0115 ppm	0.0997 ppm	2.6056 ppm	0.0006 ppm	0.1435 ppm
Concentration per Run 3	-0.0010 ppm	5.6605 ppm	0.0107 ppm	0.0993 ppm	2.5999 ppm	0.0007 ppm	0.1432 ppm
Concentration RSD	185.9 %	0.4 %	4.2 %	0.4 %	0.3 %	55.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4355 ppm	102.1651 %	112.6506 %	97.1296 %	119.3015 %	132.2351 %	120.7932 %
Concentration per Run 1	0.4398 ppm	101.2499 %	112.9376 %	97.4476 %	118.4620 %	133.0881 %	120.8427 %
Concentration per Run 2	0.4335 ppm	102.1990 %	112.2575 %	96.6766 %	119.3698 %	131.5896 %	120.3080 %
Concentration per Run 3	0.4331 ppm	103.0463 %	112.7569 %	97.2647 %	120.0728 %	132.0275 %	121.2289 %
Concentration RSD	0.9 %	0.9 %	0.3 %	0.4 %	0.7 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-14D2 WG1935259
Analysis started at: 6/18/2024 11:43:58 AM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0012 ppm	87.2823 ppm	0.0553 ppm	0.0054 ppm	0.3111 ppm	0.0069 ppm	18.8908 ppm
Concentration per Run 1	-0.0012 ppm	87.0656 ppm	0.0547 ppm	0.0048 ppm	0.3098 ppm	0.0070 ppm	18.8709 ppm
Concentration per Run 2	-0.0013 ppm	87.2387 ppm	0.0557 ppm	0.0057 ppm	0.3106 ppm	0.0069 ppm	18.8676 ppm
Concentration per Run 3	-0.0010 ppm	87.5425 ppm	0.0554 ppm	0.0057 ppm	0.3128 ppm	0.0069 ppm	18.9340 ppm
Concentration RSD	12.6 %	0.3 %	1.0 %	9.0 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0682 ppm	0.1335 ppm	0.1568 ppm	167.3726 ppm	4.2606 ppm	0.1920 ppm
Concentration per Run 1	0.0008 ppm	0.0679 ppm	0.1332 ppm	0.1578 ppm	166.8157 ppm	4.2496 ppm	0.1958 ppm
Concentration per Run 2	0.0006 ppm	0.0683 ppm	0.1332 ppm	0.1569 ppm	167.6400 ppm	4.2709 ppm	0.1902 ppm
Concentration per Run 3	0.0007 ppm	0.0684 ppm	0.1341 ppm	0.1556 ppm	167.6621 ppm	4.2613 ppm	0.1899 ppm
Concentration RSD	14.8 %	0.4 %	0.4 %	0.7 %	0.3 %	0.2 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.7512 ppm	3.9427 ppm	-0.0015 ppm	0.5612 ppm	0.1328 ppm	0.1664 ppm	-0.0012 ppm
Concentration per Run 1	34.6892 ppm	3.9391 ppm	-0.0012 ppm	0.5643 ppm	0.1331 ppm	0.1670 ppm	0.0031 ppm
Concentration per Run 2	34.7340 ppm	3.9401 ppm	-0.0013 ppm	0.5601 ppm	0.1319 ppm	0.1667 ppm	-0.0054 ppm
Concentration per Run 3	34.8303 ppm	3.9489 ppm	-0.0019 ppm	0.5592 ppm	0.1334 ppm	0.1656 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.1 %	25.6 %	0.5 %	0.6 %	0.5 %	347.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	5.2428 ppm	0.0099 ppm	0.1255 ppm	3.6188 ppm	0.0009 ppm	0.1735 ppm
Concentration per Run 1	0.0022 ppm	5.2303 ppm	0.0102 ppm	0.1249 ppm	3.6139 ppm	0.0002 ppm	0.1729 ppm
Concentration per Run 2	0.0012 ppm	5.2562 ppm	0.0091 ppm	0.1253 ppm	3.6146 ppm	0.0030 ppm	0.1730 ppm
Concentration per Run 3	-0.0015 ppm	5.2421 ppm	0.0103 ppm	0.1263 ppm	3.6279 ppm	-0.0004 ppm	0.1746 ppm
Concentration RSD	303.7 %	0.2 %	6.8 %	0.6 %	0.2 %	193.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5058 ppm	101.5056 %	110.9721 %	95.8240 %	120.2537 %	132.6897 %	123.1207 %
Concentration per Run 1	0.5052 ppm	101.8238 %	111.7253 %	95.8192 %	121.0694 %	133.5409 %	122.8018 %
Concentration per Run 2	0.5042 ppm	101.6593 %	111.0221 %	95.7717 %	120.3314 %	132.4878 %	123.1827 %
Concentration per Run 3	0.5079 ppm	101.0336 %	110.1690 %	95.8812 %	119.3604 %	132.0405 %	123.3778 %
Concentration RSD	0.4 %	0.4 %	0.7 %	0.1 %	0.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-15D2 WG1935259
Analysis started at: 6/18/2024 11:47:55 AM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	58.0712 ppm	0.0255 ppm	0.0300 ppm	0.2083 ppm	0.0039 ppm	20.0788 ppm
Concentration per Run 1	0.0000 ppm	57.9337 ppm	0.0238 ppm	0.0298 ppm	0.2079 ppm	0.0040 ppm	20.0561 ppm
Concentration per Run 2	-0.0002 ppm	58.1152 ppm	0.0249 ppm	0.0300 ppm	0.2083 ppm	0.0038 ppm	20.0984 ppm
Concentration per Run 3	-0.0004 ppm	58.1646 ppm	0.0279 ppm	0.0302 ppm	0.2088 ppm	0.0039 ppm	20.0819 ppm
Concentration RSD	92.1 %	0.2 %	8.3 %	0.7 %	0.2 %	2.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0538 ppm	0.1277 ppm	0.2081 ppm	118.4794 ppm	4.3209 ppm	0.1155 ppm
Concentration per Run 1	0.0009 ppm	0.0541 ppm	0.1275 ppm	0.2092 ppm	118.4267 ppm	4.3676 ppm	0.1153 ppm
Concentration per Run 2	0.0009 ppm	0.0540 ppm	0.1283 ppm	0.2073 ppm	118.1098 ppm	4.2924 ppm	0.1163 ppm
Concentration per Run 3	0.0009 ppm	0.0534 ppm	0.1273 ppm	0.2077 ppm	118.9017 ppm	4.3028 ppm	0.1148 ppm
Concentration RSD	4.7 %	0.8 %	0.4 %	0.5 %	0.3 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.0041 ppm	3.0840 ppm	0.0029 ppm	1.3590 ppm	0.1005 ppm	0.1779 ppm	0.0003 ppm
Concentration per Run 1	40.1151 ppm	3.0828 ppm	0.0031 ppm	1.3537 ppm	0.1017 ppm	0.1758 ppm	0.0016 ppm
Concentration per Run 2	39.8937 ppm	3.0828 ppm	0.0026 ppm	1.3572 ppm	0.0987 ppm	0.1788 ppm	0.0007 ppm
Concentration per Run 3	40.0036 ppm	3.0862 ppm	0.0031 ppm	1.3660 ppm	0.1013 ppm	0.1791 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.1 %	9.0 %	0.5 %	1.6 %	1.0 %	539.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	4.8423 ppm	0.0069 ppm	0.1648 ppm	1.9195 ppm	0.0004 ppm	0.1090 ppm
Concentration per Run 1	0.0012 ppm	4.8889 ppm	0.0070 ppm	0.1654 ppm	1.9130 ppm	-0.0011 ppm	0.1092 ppm
Concentration per Run 2	-0.0013 ppm	4.8510 ppm	0.0067 ppm	0.1643 ppm	1.9244 ppm	0.0013 ppm	0.1090 ppm
Concentration per Run 3	0.0027 ppm	4.7870 ppm	0.0069 ppm	0.1648 ppm	1.9210 ppm	0.0009 ppm	0.1089 ppm
Concentration RSD	230.5 %	1.1 %	2.0 %	0.3 %	0.3 %	356.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4001 ppm	99.4003 %	108.8327 %	96.0708 %	109.6257 %	119.5189 %	110.7980 %
Concentration per Run 1	0.4018 ppm	99.0718 %	109.6562 %	96.3092 %	109.7705 %	120.2227 %	111.0343 %
Concentration per Run 2	0.3992 ppm	99.9653 %	108.7988 %	95.9427 %	110.3349 %	119.5773 %	110.5603 %
Concentration per Run 3	0.3992 ppm	99.1639 %	108.0430 %	95.9605 %	108.7718 %	118.7566 %	110.7995 %
Concentration RSD	0.4 %	0.5 %	0.7 %	0.2 %	0.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-16D2 WG1935259
Analysis started at: 6/18/2024 11:51:52 AM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0024 ppm	69.1065 ppm	0.0658 ppm	0.1081 ppm	0.5950 ppm	0.0095 ppm	31.5181 ppm
Concentration per Run 1	0.0022 ppm	68.9527 ppm	0.0654 ppm	0.1071 ppm	0.5928 ppm	0.0097 ppm	31.5443 ppm
Concentration per Run 2	0.0024 ppm	69.1936 ppm	0.0666 ppm	0.1085 ppm	0.5969 ppm	0.0095 ppm	31.4619 ppm
Concentration per Run 3	0.0025 ppm	69.1732 ppm	0.0653 ppm	0.1088 ppm	0.5954 ppm	0.0095 ppm	31.5481 ppm
Concentration RSD	7.8 %	0.2 %	1.1 %	0.8 %	0.4 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0098 ppm	0.0594 ppm	0.5111 ppm	1.6723 ppm	222.4143 ppm	4.5059 ppm	0.1069 ppm
Concentration per Run 1	0.0097 ppm	0.0598 ppm	0.5108 ppm	1.6732 ppm	222.4500 ppm	4.5386 ppm	0.1073 ppm
Concentration per Run 2	0.0097 ppm	0.0591 ppm	0.5113 ppm	1.6760 ppm	222.2211 ppm	4.5148 ppm	0.1059 ppm
Concentration per Run 3	0.0099 ppm	0.0593 ppm	0.5112 ppm	1.6677 ppm	222.5719 ppm	4.4643 ppm	0.1075 ppm
Concentration RSD	0.9 %	0.6 %	0.1 %	0.3 %	0.1 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.8472 ppm	3.7186 ppm	0.0335 ppm	5.7523 ppm	0.3829 ppm	5.1250 ppm	0.0107 ppm
Concentration per Run 1	30.8841 ppm	3.7210 ppm	0.0328 ppm	5.7515 ppm	0.3823 ppm	5.1244 ppm	0.0115 ppm
Concentration per Run 2	30.7887 ppm	3.7184 ppm	0.0340 ppm	5.7220 ppm	0.3841 ppm	5.1317 ppm	0.0114 ppm
Concentration per Run 3	30.8689 ppm	3.7165 ppm	0.0337 ppm	5.7833 ppm	0.3823 ppm	5.1189 ppm	0.0092 ppm
Concentration RSD	0.2 %	0.1 %	1.8 %	0.5 %	0.3 %	0.1 %	11.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	5.5655 ppm	0.1377 ppm	0.1653 ppm	2.2587 ppm	0.0000 ppm	0.1842 ppm
Concentration per Run 1	0.0034 ppm	5.5645 ppm	0.1366 ppm	0.1652 ppm	2.2609 ppm	0.0003 ppm	0.1838 ppm
Concentration per Run 2	0.0029 ppm	5.5664 ppm	0.1384 ppm	0.1656 ppm	2.2614 ppm	0.0010 ppm	0.1841 ppm
Concentration per Run 3	0.0028 ppm	5.5657 ppm	0.1381 ppm	0.1652 ppm	2.2537 ppm	-0.0012 ppm	0.1846 ppm
Concentration RSD	10.5 %	0.0 %	0.7 %	0.1 %	0.2 %	4,464.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.7151 ppm	101.8908 %	110.2661 %	95.7124 %	134.5488 %	146.7358 %	135.5668 %
Concentration per Run 1	3.7116 ppm	101.7879 %	109.9420 %	95.7989 %	134.2409 %	146.6420 %	135.8012 %
Concentration per Run 2	3.7206 ppm	102.2792 %	110.7784 %	95.7734 %	135.0717 %	147.3007 %	135.5941 %
Concentration per Run 3	3.7131 ppm	101.6053 %	110.0779 %	95.5650 %	134.3337 %	146.2645 %	135.3052 %
Concentration RSD	0.1 %	0.3 %	0.4 %	0.1 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 11:55:49 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5176 ppm	0.4916 ppm	0.4976 ppm	0.5105 ppm	0.5125 ppm	0.5171 ppm	0.5068 ppm
Concentration per Run 1	0.5160 ppm	0.4862 ppm	0.4955 ppm	0.5057 ppm	0.5135 ppm	0.5147 ppm	0.5085 ppm
Concentration per Run 2	0.5180 ppm	0.4887 ppm	0.4982 ppm	0.5125 ppm	0.5133 ppm	0.5187 ppm	0.5068 ppm
Concentration per Run 3	0.5188 ppm	0.5000 ppm	0.4990 ppm	0.5134 ppm	0.5108 ppm	0.5179 ppm	0.5050 ppm
Recovery Percentage 1	103.520 %	98.326 %	99.516 %	102.103 %	102.509 %	103.415 %	101.356 %
Concentration RSD	0.3 %	1.5 %	0.4 %	0.8 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5246 ppm	0.5280 ppm	0.5163 ppm	0.5048 ppm	0.5311 ppm	5.1108 ppm	0.4755 ppm
Concentration per Run 1	0.5233 ppm	0.5265 ppm	0.5147 ppm	0.5034 ppm	0.5345 ppm	5.1695 ppm	0.4793 ppm
Concentration per Run 2	0.5253 ppm	0.5291 ppm	0.5168 ppm	0.5042 ppm	0.5318 ppm	5.0821 ppm	0.4717 ppm
Concentration per Run 3	0.5254 ppm	0.5284 ppm	0.5172 ppm	0.5068 ppm	0.5271 ppm	5.0809 ppm	0.4755 ppm
Recovery Percentage 1	104.929 %	105.603 %	103.250 %	100.966 %	106.226 %	102.217 %	95.102 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.4 %	0.7 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5101 ppm	0.4928 ppm	0.5125 ppm	10.6766 ppm	0.5341 ppm	0.5119 ppm	0.5079 ppm
Concentration per Run 1	0.5090 ppm	0.4930 ppm	0.5024 ppm	10.6798 ppm	0.5320 ppm	0.5099 ppm	0.5011 ppm
Concentration per Run 2	0.5118 ppm	0.4925 ppm	0.5146 ppm	10.7065 ppm	0.5355 ppm	0.5119 ppm	0.5074 ppm
Concentration per Run 3	0.5094 ppm	0.4929 ppm	0.5206 ppm	10.6435 ppm	0.5349 ppm	0.5140 ppm	0.5151 ppm
Recovery Percentage 1	102.017 %	98.558 %	102.502 %	106.766 %	106.826 %	102.385 %	101.570 %
Concentration RSD	0.3 %	0.1 %	1.8 %	0.3 %	0.4 %	0.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5123 ppm	5.4037 ppm	0.5421 ppm	0.5170 ppm	0.5226 ppm	0.5086 ppm	0.5158 ppm
Concentration per Run 1	0.5099 ppm	5.3754 ppm	0.5389 ppm	0.5164 ppm	0.5194 ppm	0.5067 ppm	0.5148 ppm
Concentration per Run 2	0.5113 ppm	5.4111 ppm	0.5428 ppm	0.5196 ppm	0.5238 ppm	0.5087 ppm	0.5161 ppm
Concentration per Run 3	0.5157 ppm	5.4247 ppm	0.5445 ppm	0.5151 ppm	0.5246 ppm	0.5105 ppm	0.5166 ppm
Recovery Percentage 1	102.456 %	102.928 %	108.414 %	103.407 %	104.524 %	101.727 %	103.168 %
Concentration RSD	0.6 %	0.5 %	0.5 %	0.5 %	0.5 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5347 ppm	99.8506 %	107.6233 %	100.1577 %	97.9322 %	104.8752 %	98.9782 %
Concentration per Run 1	0.5345 ppm	99.3646 %	107.8318 %	100.2595 %	97.0668 %	105.1533 %	99.3061 %
Concentration per Run 2	0.5344 ppm	100.0391 %	107.5489 %	100.5064 %	98.1613 %	104.8324 %	99.1832 %
Concentration per Run 3	0.5350 ppm	100.1479 %	107.4891 %	99.7072 %	98.5684 %	104.6399 %	98.4454 %
Recovery Percentage 1	106.930 %						
Concentration RSD	0.1 %	0.4 %	0.2 %	0.4 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 12:12:11 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 11:59:46 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0185 ppm	-0.0012 ppm	0.0010 ppm	-0.0004 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 1	0.0002 ppm	-0.0154 ppm	-0.0015 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 2	-0.0002 ppm	-0.0228 ppm	-0.0030 ppm	0.0020 ppm	-0.0004 ppm	0.0001 ppm	-0.0032 ppm
Concentration per Run 3	-0.0003 ppm	-0.0173 ppm	0.0008 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm	-0.0027 ppm
Recovery Percentage 1	-1.652 %	-18.487 %	-40.608 %	3.183 %	-3.964 %	1.122 %	-2.472 %
Concentration RSD	250.5 %	20.8 %	153.6 %	99.4 %	10.2 %	43.6 %	34.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0081 ppm	-0.0418 ppm	-0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0084 ppm	-0.0520 ppm	-0.0047 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0073 ppm	-0.0596 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0086 ppm	-0.0137 ppm	-0.0032 ppm
Recovery Percentage 1	0.558 %	-0.840 %	-0.085 %	3.908 %	16.162 %	-1.670 %	-29.391 %
Concentration RSD	371.0 %	64.3 %	3,075.9 %	113.8 %	8.5 %	58.9 %	64.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0020 ppm	0.0002 ppm	-0.0014 ppm	0.0211 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.0005 ppm	-0.0015 ppm	0.0183 ppm	-0.0002 ppm	0.0002 ppm	-0.0024 ppm
Concentration per Run 2	-0.0022 ppm	0.0000 ppm	-0.0018 ppm	0.0229 ppm	0.0001 ppm	0.0014 ppm	0.0000 ppm
Concentration per Run 3	-0.0012 ppm	0.0003 ppm	-0.0010 ppm	0.0222 ppm	0.0002 ppm	0.0004 ppm	0.0027 ppm
Recovery Percentage 1	-1.977 %	2.396 %	-2.868 %	1.056 %	0.025 %	6.519 %	0.154 %
Concentration RSD	35.0 %	99.3 %	26.7 %	11.9 %	3,635.2 %	98.6 %	3,333.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0012 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 2	0.0019 ppm	0.0020 ppm	0.0011 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	-0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.0015 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0027 ppm	-0.0001 ppm
Recovery Percentage 1	3.797 %	0.237 %	1.046 %	0.796 %	2.772 %	-2.317 %	-2.361 %
Concentration RSD	360.4 %	81.5 %	137.1 %	53.4 %	38.9 %	422.9 %	86.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	93.8253 %	103.4119 %	96.2443 %	99.0280 %	105.1671 %	99.9505 %
Concentration per Run 1	0.0008 ppm	92.7003 %	103.4091 %	95.7412 %	98.5686 %	105.4522 %	99.7194 %
Concentration per Run 2	0.0005 ppm	93.4911 %	102.7801 %	96.5788 %	98.6810 %	104.3086 %	100.2886 %
Concentration per Run 3	0.0007 ppm	95.2845 %	104.0464 %	96.4128 %	99.8345 %	105.7405 %	99.8436 %
Recovery Percentage 1	13.337 %						
Concentration RSD	17.1 %	1.4 %	0.6 %	0.5 %	0.7 %	0.7 %	0.3 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

ACCREDITED ACCREDITED

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

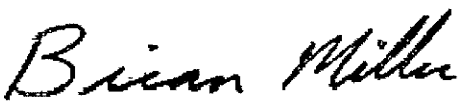
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 8

6/15/2024 6:21:39 AM

LabBook: WG1934185_06142024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank JMF Trace8	0	1	6/14/2024 5:40:05 AM
2	ICAL	0	2	6/14/2024 5:44:08 AM
3	ICV	0	3	6/14/2024 5:48:02 AM
4	ICB	0	4	6/14/2024 5:51:58 AM
5	ICV	0	3	6/14/2024 5:56:37 AM
6	ICB	0	4	6/14/2024 6:00:33 AM
7	LLOQ	0	5	6/14/2024 6:04:29 AM
8	LLOQ 0.01ppm As soil TCLP Ba Cu Li	1	1	6/14/2024 6:12:22 AM
9	LLOQ 0.05ppm Ca Fe	1	2	6/14/2024 6:16:23 AM
10	LLOQ 0.005ppm Zn 200.7	1	3	6/14/2024 6:28:03 AM
11	ICSA	0	6	6/14/2024 6:32:05 AM
12	zLLOQ 0.005ppm	1	3	6/14/2024 6:36:15 AM
13	LDR 500 Fe pass _IEC -V	1	4	6/14/2024 6:45:31 AM
14	LDR 1000 Ca pass	1	5	6/14/2024 6:49:33 AM
15	SIC Multi	0	7	6/14/2024 6:53:30 AM
16	LDR 50 Mn pass _IEC +As -Mg +Se	1	6	6/14/2024 6:57:28 AM
17	LDR Check	0	8	6/14/2024 7:01:25 AM
18	LDR 500 Na	1	7	6/14/2024 7:05:23 AM
19	IEC 10 V +Tl	1	8	6/14/2024 7:36:42 AM
20	LDR 20 As	1	9	6/14/2024 7:40:51 AM
21	CCV	0	3	6/14/2024 8:16:59 AM
22	CCB	0	4	6/14/2024 8:21:07 AM
23	L2432001-07D2 WG1933299	3	15	6/14/2024 8:48:58 AM
24	L2432001-09D2 WG1933299	3	16	6/14/2024 8:53:09 AM
25	L2432001-11D2 WG1933299	3	17	6/14/2024 8:57:07 AM
26	L2432040-01D2 WG1933299	3	18	6/14/2024 9:01:04 AM
27	L2432040-03D2 WG1933299	3	19	6/14/2024 9:05:02 AM
28	L2432084-01D2 WG1933299	3	20	6/14/2024 9:08:59 AM
29	L2432084-03D2 WG1933299	3	21	6/14/2024 9:12:57 AM
30	xL2432084-05D2 WG1933299	3	22	6/14/2024 9:16:55 AM
31	xL2432084-07D2 WG1933299	3	23	6/14/2024 9:20:52 AM
32	L2431992-01D10 WG1933920	3	24	6/14/2024 9:24:50 AM
33	CCV	0	3	6/14/2024 9:28:48 AM
34	CCB	0	4	6/14/2024 9:32:44 AM
35	WG1933322-1 WG1933322	1	10	6/14/2024 9:40:20 AM
36	WG1933322-2 WG1933322	1	11	6/14/2024 9:44:32 AM
37	L2431895-03 WG1933322	1	14	6/14/2024 9:48:30 AM
38	L2431895-01 WG1933322	1	12	6/14/2024 9:52:25 AM
39	L2431895-02 WG1933322	1	13	6/14/2024 9:56:24 AM
40	L2431910-01 WG1933322	1	15	6/14/2024 10:00:19 AM
41	L2431913-01 WG1933322	1	16	6/14/2024 10:04:14 AM
42	L2431916-01 WG1933322	1	17	6/14/2024 10:08:09 AM
43	L2431923-01 WG1933322	1	18	6/14/2024 10:12:05 AM
44	L2431975-01 WG1933322	1	19	6/14/2024 10:16:02 AM
45	CCV	0	3	6/14/2024 10:19:59 AM
46	CCB	0	4	6/14/2024 10:23:55 AM
47	L2431979-01 WG1933322	1	20	6/14/2024 10:32:06 AM
48	L2431983-01 WG1933322	1	21	6/14/2024 10:36:08 AM
49	L2431996-01 WG1933322	1	22	6/14/2024 10:40:06 AM
50	L2431996-02 WG1933322	1	23	6/14/2024 10:44:03 AM
51	L2431997-01 WG1933322	1	24	6/14/2024 10:48:01 AM
52	L2431997-02 WG1933322	1	25	6/14/2024 10:51:59 AM
53	L2432104-02 WG1933322	1	26	6/14/2024 10:55:53 AM
54	L2431992-02D10 WG1933920	1	27	6/14/2024 10:59:48 AM
55	L2432084-05D2 WG1933299	1	28	6/14/2024 11:03:43 AM
56	L2432084-07D2 WG1933299	1	29	6/14/2024 11:07:39 AM
57	CCV	0	3	6/14/2024 11:11:35 AM
58	CCB	0	4	6/14/2024 11:15:32 AM
59	WG1933863-1 WG1933863	1	30	6/14/2024 11:20:53 AM
60	WG1933863-2D2 WG1933863	1	31	6/14/2024 11:25:01 AM
61	L2432160-01D2 WG1933863	1	47	6/14/2024 11:28:58 AM
62	eL2431859-01D2 WG1933863	1	37	6/14/2024 11:32:56 AM
63	L2431882-01D2 WG1933863	1	38	6/14/2024 11:36:51 AM
64	L2432187-01D2 WG1933863	1	32	6/14/2024 11:40:46 AM
65	WG1933863-3D2 WG1933863	1	33	6/14/2024 11:44:43 AM
66	WG1933863-4D2 WG1933863	1	34	6/14/2024 11:48:39 AM
67	WG1933863-5D2 WG1933863	1	35	6/14/2024 11:52:37 AM
68	WG1933863-6D10 WG1933863	1	36	6/14/2024 11:56:34 AM

Sequence Trace 8

6/15/2024 6:21:39 AM

Index	Label	Rack	Vial	Started at
69	CCV	0	3	6/14/2024 12:00:33 PM
70	CCB	0	4	6/14/2024 12:04:30 PM
71	WG1934294-1 WG1934294	1	49	6/14/2024 12:17:04 PM
72	WG1934294-2 WG1934294	1	50	6/14/2024 12:21:16 PM
73	L2432985-01 WG1934294	1	51	6/14/2024 12:26:30 PM
74	WG1934294-3 WG1934294	1	52	6/14/2024 12:30:38 PM
75	WG1934294-4 WG1934294	1	53	6/14/2024 12:34:34 PM
76	L2431859-01D4 WG1933863	1	48	6/14/2024 12:38:31 PM
77	L2431904-01D2 WG1933863	1	39	6/14/2024 12:42:30 PM
78	L2432010-01D2 WG1933863	1	40	6/14/2024 12:46:26 PM
79	L2432010-02D2 WG1933863	1	41	6/14/2024 12:50:22 PM
80	L2432020-01D2 WG1933863	1	42	6/14/2024 12:54:18 PM
81	CCV	0	3	6/14/2024 12:58:15 PM
82	CCB	0	4	6/14/2024 1:02:13 PM
83	WG1933686-1 WG1933686	1	54	6/14/2024 1:11:13 PM
84	WG1933686-2D2 WG1933686	1	55	6/14/2024 1:15:31 PM
85	L2432153-01D2 WG1933863	1	43	6/14/2024 1:19:34 PM
86	L2432154-01D2 WG1933863	1	44	6/14/2024 1:23:31 PM
87	L2432154-02D2 WG1933863	1	45	6/14/2024 1:27:29 PM
88	L2430426-01D2 WG1933686	1	56	6/14/2024 1:31:26 PM
89	WG1933686-3D2 WG1933686	1	57	6/14/2024 1:35:23 PM
90	WG1933686-4D2 WG1933686	1	58	6/14/2024 1:39:21 PM
91	WG1933686-5D2 WG1933686	1	59	6/14/2024 1:43:19 PM
92	WG1933686-6D10 WG1933686	1	60	6/14/2024 1:47:18 PM
93	CCV	0	3	6/14/2024 1:51:16 PM
94	CCB	0	4	6/14/2024 1:55:15 PM
95	L2432155-01D2 WG1933863	1	46	6/14/2024 2:08:42 PM
96	L2430426-02D2 WG1933686	2	1	6/14/2024 2:12:58 PM
97	L2430426-03D2 WG1933686	2	2	6/14/2024 2:16:55 PM
98	L2430426-04D2 WG1933686	2	3	6/14/2024 2:20:52 PM
99	L2430426-05D2 WG1933686	2	4	6/14/2024 2:24:49 PM
100	L2430426-06D2 WG1933686	2	5	6/14/2024 2:28:47 PM
101	L2430426-07D2 WG1933686	2	6	6/14/2024 2:32:44 PM
102	L2430426-08D2 WG1933686	2	7	6/14/2024 2:36:41 PM
103	L2430426-09D2 WG1933686	2	8	6/14/2024 2:40:38 PM
104	L2430426-10D2 WG1933686	2	9	6/14/2024 2:44:36 PM
105	CCV	0	3	6/14/2024 2:48:35 PM
106	CCB	0	4	6/14/2024 2:52:33 PM
107	WG1934323-1 WG1934323	2	20	6/14/2024 3:11:15 PM
108	WG1934323-2 WG1934323	2	21	6/14/2024 3:15:31 PM
109	L2433209-01 WG1934323	2	22	6/14/2024 3:19:29 PM
110	WG1934323-3 WG1934323	2	23	6/14/2024 3:23:52 PM
111	WG1934323-4 WG1934323	2	24	6/14/2024 3:29:29 PM
112	WG1934323-5 WG1934323	2	25	6/14/2024 3:35:57 PM
113	WG1934323-6d5 WG1934323	2	26	6/14/2024 3:40:12 PM
114	CCV	0	3	6/14/2024 3:44:10 PM
115	CCB	0	4	6/14/2024 3:48:08 PM
116	L2431874-01D2 WG1933686	2	10	6/14/2024 3:54:08 PM
117	eL2431874-02D2 WG1933686	2	11	6/14/2024 3:58:23 PM
118	CCV	0	3	6/14/2024 4:02:22 PM
119	CCB	0	4	6/14/2024 4:06:21 PM
120	L2431874-02D4 WG1933686	2	27	6/14/2024 4:10:37 PM
121	CCV	0	3	6/14/2024 4:14:35 PM
122	CCB	0	4	6/14/2024 4:18:32 PM
123	L2432150-01D2 WG1933686	2	12	6/14/2024 4:25:19 PM
124	L2432167-01D2 WG1933686	2	13	6/14/2024 4:29:37 PM
125	L2432167-02D2 WG1933686	2	14	6/14/2024 4:33:36 PM
126	L2432167-03D2 WG1933686	2	15	6/14/2024 4:37:34 PM
127	L2432167-04D2 WG1933686	2	16	6/14/2024 4:41:32 PM
128	L2432178-01D2 WG1933686	2	17	6/14/2024 4:45:30 PM
129	L2432178-02D2 WG1933686	2	18	6/14/2024 4:49:27 PM
130	L2432178-03D2 WG1933686	2	19	6/14/2024 4:53:26 PM
131	zL2432178-01D2 WG1933686	2	28	6/14/2024 4:57:48 PM
132	CCV	0	3	6/14/2024 5:01:47 PM
133	CCB	0	4	6/14/2024 5:05:45 PM
134	WG1933988-1 WG1933988	2	29	6/14/2024 5:13:13 PM
135	WG1933988-2d2 WG1933988	2	30	6/14/2024 5:17:31 PM
136	WG1933988-3d2 WG1933988	2	31	6/14/2024 5:21:29 PM
137	L2432274-01d2 WG1933988	2	32	6/14/2024 5:25:28 PM
138	L2432274-02d2 WG1933988	2	33	6/14/2024 5:29:27 PM
139	L2432274-03d2 WG1933988	2	34	6/14/2024 5:33:26 PM
140	L2432274-04d2 WG1933988	2	35	6/14/2024 5:37:25 PM
141	L2432308-01d2 WG1933988	2	36	6/14/2024 5:41:24 PM
142	L2432308-02d2 WG1933988	2	37	6/14/2024 5:45:24 PM

Sequence Trace 8

6/15/2024 6:21:39 AM

Index	Label	Rack	Vial	Started at
143	L2432308-03d2 WG1933988	2	38	6/14/2024 5:49:23 PM
144	CCV	0	3	6/14/2024 5:53:22 PM
145	CCB	0	4	6/14/2024 5:57:20 PM
146	L2432308-04d2 WG1933988	2	39	6/14/2024 6:04:11 PM
147	L2432308-05d2 WG1933988	2	40	6/14/2024 6:08:16 PM
148	L2432348-01d2 WG1933988	2	41	6/14/2024 6:12:17 PM
149	L2432348-02d2 WG1933988	2	42	6/14/2024 6:16:16 PM
150	L2432354-01d2 WG1933988	2	43	6/14/2024 6:20:15 PM
151	L2433004-01d2 WG1933988	2	44	6/14/2024 6:24:13 PM
152	L2433004-02d2 WG1933988	2	45	6/14/2024 6:28:12 PM
153	LLOQ 1511 JTS	2	46	6/14/2024 6:32:11 PM
154	LDR 1805 CEY	2	47	6/14/2024 6:36:10 PM
155	CCV	0	3	6/14/2024 6:44:36 PM
156	CCB	0	4	6/14/2024 6:48:42 PM
157	WG1934051-1 WG1934051	2	48	6/14/2024 6:58:08 PM
158	WG1934051-2d2 WG1934051	2	49	6/14/2024 7:02:30 PM
159	L2430310-04d2 WG1934051	2	55	6/14/2024 7:06:30 PM
160	eL2430310-05d2 WG1934051	2	56	6/14/2024 7:10:29 PM
161	L2430310-16d2 WG1934051	2	57	6/14/2024 7:14:29 PM
162	L2432281-01d2 WG1934051	2	50	6/14/2024 7:18:28 PM
163	WG1934051-3d2 WG1934051	2	51	6/14/2024 7:22:28 PM
164	WG1934051-4d2 WG1934051	2	52	6/14/2024 7:26:27 PM
165	WG1934051-5d2 WG1934051	2	53	6/14/2024 7:30:26 PM
166	WG1934051-6d10 WG1934051	2	54	6/14/2024 7:34:26 PM
167	CCV	0	3	6/14/2024 7:38:25 PM
168	CCB	0	4	6/14/2024 7:42:24 PM
169	L2430310-17d2 WG1934051	2	58	6/14/2024 7:50:23 PM
170	L2432275-01d2 WG1934051	2	59	6/14/2024 7:54:29 PM
171	L2432275-02d2 WG1934051	2	60	6/14/2024 7:58:29 PM
172	L2432275-03d2 WG1934051	3	25	6/14/2024 8:02:29 PM
173	L2432281-06d2 WG1934051	3	26	6/14/2024 8:06:30 PM
174	L2432297-01d2 WG1934051	3	27	6/14/2024 8:10:31 PM
175	L2432305-01d2 WG1934051	3	28	6/14/2024 8:14:31 PM
176	L2432305-03d2 WG1934051	3	29	6/14/2024 8:18:32 PM
177	L2432305-05d2 WG1934051	3	30	6/14/2024 8:22:33 PM
178	L2432305-07d2 WG1934051	3	31	6/14/2024 8:26:34 PM
179	CCV	0	3	6/14/2024 8:30:35 PM
180	CCB	0	4	6/14/2024 8:34:35 PM
181	L2432305-09d2 WG1934051	3	32	6/14/2024 8:38:38 PM
182	L2432305-10d2 WG1934051	3	33	6/14/2024 8:42:39 PM
183	L2432330-03d2 WG1934051	3	34	6/14/2024 8:46:40 PM
184	L2430310-05d4 WG1934051	3	35	6/14/2024 8:50:40 PM
185	zWG1934051-6d10 WG1934051	4	1	6/14/2024 8:54:53 PM
186	CCV	0	3	6/14/2024 8:59:00 PM
187	CCB	0	4	6/14/2024 9:02:59 PM
188	WG1934242-1 WG1934242	3	36	6/14/2024 9:11:25 PM
189	WG1934242-2d2 WG1934242	3	37	6/14/2024 9:15:47 PM
190	L2432433-02d2 WG1934242	3	43	6/14/2024 9:19:52 PM
191	L2432433-03d2 WG1934242	3	44	6/14/2024 9:23:53 PM
192	L2432433-04d2 WG1934242	3	45	6/14/2024 9:27:54 PM
193	L2432433-01d2 WG1934242	3	38	6/14/2024 9:31:56 PM
194	WG1934242-3d2 WG1934242	3	39	6/14/2024 9:35:57 PM
195	WG1934242-4d2 WG1934242	3	40	6/14/2024 9:39:59 PM
196	WG1934242-5d2 WG1934242	3	41	6/14/2024 9:44:00 PM
197	WG1934242-6d10 WG1934242	3	42	6/14/2024 9:48:01 PM
198	CCV	0	3	6/14/2024 9:52:03 PM
199	CCB	0	4	6/14/2024 9:56:02 PM
200	L2432433-05d2 WG1934242	3	46	6/14/2024 10:00:58 PM
201	L2432433-06d2 WG1934242	3	47	6/14/2024 10:04:59 PM
202	L2432433-07d2 WG1934242	3	48	6/14/2024 10:09:02 PM
203	L2432433-08d2 WG1934242	3	49	6/14/2024 10:13:04 PM
204	L2432433-09d2 WG1934242	3	50	6/14/2024 10:17:07 PM
205	L2432433-10d2 WG1934242	3	51	6/14/2024 10:21:09 PM
206	L2432433-11d2 WG1934242	3	52	6/14/2024 10:25:10 PM
207	L2432433-12d2 WG1934242	3	53	6/14/2024 10:29:13 PM
208	L2432433-13d2 WG1934242	3	54	6/14/2024 10:33:16 PM
209	L2432433-14d2 WG1934242	3	55	6/14/2024 10:37:18 PM
210	CCV	0	3	6/14/2024 10:41:20 PM
211	CCB	0	4	6/14/2024 10:45:20 PM
212	L2432433-15d2 WG1934242	3	56	6/14/2024 11:09:47 PM
213	L2432433-16d2 WG1934242	3	57	6/14/2024 11:14:10 PM
214	L2432433-17d2 WG1934242	3	58	6/14/2024 11:18:12 PM
215	L2433282-02d2 WG1934242	3	59	6/14/2024 11:22:14 PM
216	L2433282-05d2 WG1934242	3	60	6/14/2024 11:26:15 PM

Sequence Trace 8

6/15/2024 6:21:39 AM

Index	Label	Rack	Vial	Started at
217	CCV	0	3	6/14/2024 11:30:17 PM
218	CCB	0	4	6/14/2024 11:34:16 PM
219	L2431984-01 WG1932257	4	2	6/14/2024 11:52:35 PM
220	L2431984-02 WG1932257	4	3	6/14/2024 11:56:44 PM
221	L2431984-03 WG1932257	4	4	6/15/2024 12:00:46 AM
222	L2431984-04 WG1932257	4	5	6/15/2024 12:04:49 AM
223	L2431984-05 WG1932257	4	6	6/15/2024 12:08:51 AM
224	L2431984-06 WG1932257	4	7	6/15/2024 12:12:53 AM
225	L2431984-07 WG1932257	4	8	6/15/2024 12:16:56 AM
226	CCV	0	3	6/15/2024 12:20:58 AM
227	CCB	0	4	6/15/2024 12:24:58 AM
228	L2430597-01 WG1933920	4	9	6/15/2024 12:33:08 AM
229	L2430597-02 WG1933920	4	10	6/15/2024 12:37:33 AM
230	L2430662-02 WG1933920	4	11	6/15/2024 12:41:35 AM
231	L2430662-03 WG1933920	4	12	6/15/2024 12:45:37 AM
232	L2430662-04 WG1933920	4	13	6/15/2024 12:49:40 AM
233	L2430662-05 WG1933920	4	14	6/15/2024 12:53:43 AM
234	L2430662-06 WG1933920	4	15	6/15/2024 12:57:46 AM
235	L2430662-07 WG1933920	4	16	6/15/2024 1:01:48 AM
236	L2430662-08 WG1933920	4	17	6/15/2024 1:05:51 AM
237	L2430662-09 WG1933920	4	18	6/15/2024 1:09:54 AM
238	CCV	0	3	6/15/2024 1:13:57 AM
239	CCB	0	4	6/15/2024 1:17:57 AM
240	L2432096-24 WG1933920	4	22	6/15/2024 1:25:05 AM
241	L2432096-59 WG1933920	4	23	6/15/2024 1:29:14 AM
242	L2430662-10 WG1933920	4	19	6/15/2024 1:33:17 AM
243	L2430662-12 WG1933920	4	20	6/15/2024 1:37:20 AM
244	L2431614-01 WG1933920	4	21	6/15/2024 1:41:24 AM
245	L2432252-01 WG1933920	4	24	6/15/2024 1:45:26 AM
246	L2432392-30 WG1933920	4	25	6/15/2024 1:49:29 AM
247	CCV	0	3	6/15/2024 1:53:33 AM
248	CCB	0	4	6/15/2024 1:57:33 AM
249	WG1934574-1 WG1934574	4	26	6/15/2024 2:21:46 AM
250	WG1934574-2 WG1934574	4	27	6/15/2024 2:25:57 AM
251	eL2432811-01 WG1934574	4	33	6/15/2024 2:30:01 AM
252	eL2433190-02 WG1934574	4	34	6/15/2024 2:34:04 AM
253	L2433247-02 WG1934574	4	35	6/15/2024 2:38:08 AM
254	L2432648-01 WG1934574	4	28	6/15/2024 2:42:11 AM
255	WG1934574-3 WG1934574	4	29	6/15/2024 2:46:15 AM
256	WG1934574-4 WG1934574	4	30	6/15/2024 2:50:19 AM
257	WG1934574-5 WG1934574	4	31	6/15/2024 2:54:22 AM
258	WG1934574-6d5 WG1934574	4	32	6/15/2024 2:58:26 AM
259	CCV	0	3	6/15/2024 3:02:29 AM
260	CCB	0	4	6/15/2024 3:06:30 AM
261	WG1934475-1 WG1934475	4	36	6/15/2024 3:23:04 AM
262	WG1934475-2 WG1934475	4	37	6/15/2024 3:35:06 AM
263	L2432610-01 WG1934475	4	43	6/15/2024 3:39:38 AM
264	L2432857-01 WG1934475	4	44	6/15/2024 3:43:42 AM
265	L2432857-02 WG1934475	4	45	6/15/2024 3:47:46 AM
266	L2431188-01 WG1934475	4	38	6/15/2024 3:51:50 AM
267	WG1934475-3 WG1934475	4	39	6/15/2024 3:55:54 AM
268	WG1934475-4 WG1934475	4	40	6/15/2024 3:59:58 AM
269	WG1934475-5 WG1934475	4	41	6/15/2024 4:04:03 AM
270	WG1934475-6d5 WG1934475	4	42	6/15/2024 4:08:07 AM
271	CCV	0	3	6/15/2024 4:12:11 AM
272	CCB	0	4	6/15/2024 4:16:16 AM
273	xLLOQ As 005	1	3	6/15/2024 4:26:11 AM
274	WG1934502-1 WG1934502	4	47	6/15/2024 4:30:37 AM
275	WG1934502-2 WG1934502	4	48	6/15/2024 4:34:42 AM
276	L2432272-01 WG1934502	4	49	6/15/2024 4:38:47 AM
277	WG1934502-3 WG1934502	4	50	6/15/2024 4:42:51 AM
278	WG1934502-4 WG1934502	4	51	6/15/2024 4:46:57 AM
279	WG1934502-5 WG1934502	4	52	6/15/2024 4:51:02 AM
280	WG1934502-6d5 WG1934502	4	53	6/15/2024 4:55:07 AM
281	LLOQ As 100x CCV	4	46	6/15/2024 4:59:12 AM
282	CCV	0	3	6/15/2024 5:03:16 AM
283	CCB	0	4	6/15/2024 5:07:17 AM
284	L2432412-01 WG1934502	4	59	6/15/2024 5:13:47 AM
285	LLOQ	0	5	6/15/2024 5:17:58 AM
286	L2432412-02 WG1934502	4	60	6/15/2024 5:22:00 AM
287	CCV	0	3	6/15/2024 5:26:05 AM
288	CCB	0	4	6/15/2024 5:30:06 AM
289	LLOQ	0	5	6/15/2024 5:34:08 AM

Sequence Trace 8

6/17/2024 9:27:36 AM

LabBook: WG1934785_06152024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank MAM Trace8	0	1	6/15/2024 9:00:24 AM
2	ICAL	0	2	6/15/2024 9:04:31 AM
3	ICV	0	3	6/15/2024 9:08:26 AM
4	ICB	0	4	6/15/2024 9:12:22 AM
5	ICV	0	10	6/15/2024 9:16:18 AM
6	ICB	0	4	6/15/2024 9:20:18 AM
7	LLOQ	0	5	6/15/2024 9:24:15 AM
8	ICSA	0	6	6/15/2024 9:28:12 AM
9	LDR 500 Fe	1	1	6/15/2024 9:35:46 AM
10	LDR 1000 Ca	1	2	6/15/2024 9:39:47 AM
11	SIC Multi	0	7	6/15/2024 9:45:00 AM
12	LDR Check	0	8	6/15/2024 9:48:58 AM
13	LDR 10 SN	1	8	6/15/2024 9:59:25 AM
14	xLDR 20 AS	1	7	6/15/2024 10:03:33 AM
15	xWRONG SPOT	4	10	6/15/2024 10:10:29 AM
16	xLDR 20 PPM AS	1	10	6/15/2024 10:12:00 AM
17	LDR 10 AS	1	11	6/15/2024 10:17:40 AM
18	LDR 500 Na	1	9	6/15/2024 10:21:41 AM
19	CCV	0	3	6/15/2024 10:30:26 AM
20	CCB	0	4	6/15/2024 10:34:28 AM
21	LLOQ 005 ZN	1	3	6/15/2024 10:40:53 AM
22	LLOQ 01 BA CU Li Ni	1	4	6/15/2024 10:44:55 AM
23	LLOQ 05 FE Sb	1	5	6/15/2024 10:48:52 AM
24	LLOQ 05 FE	1	12	6/15/2024 10:52:48 AM
25	LLOQ .1 CA	1	6	6/15/2024 10:56:47 AM
26	CCV	0	3	6/15/2024 11:00:44 AM
27	CCB	0	4	6/15/2024 11:04:41 AM
28	WG1934448-1 WG1934448	1	13	6/15/2024 11:08:48 AM
29	WG1934448-2 WG1934448	1	14	6/15/2024 11:12:42 AM
30	L2432391-01 WG1934448	1	15	6/15/2024 11:16:37 AM
31	WG1934448-3 WG1934448	1	16	6/15/2024 11:20:32 AM
32	WG1934448-4 WG1934448	1	17	6/15/2024 11:24:28 AM
33	CCV	0	3	6/15/2024 11:28:23 AM
34	CCB	0	4	6/15/2024 11:32:19 AM
35	WG1934516-1 WG1934516	1	18	6/15/2024 11:41:13 AM
36	WG1934516-2 WG1934516	1	19	6/15/2024 11:45:20 AM
37	L2432371-03 WG1934516	1	20	6/15/2024 11:49:16 AM
38	WG1934516-3 WG1934516	1	21	6/15/2024 11:53:13 AM
39	WG1934516-4 WG1934516	1	22	6/15/2024 11:57:10 AM
40	WG1934516-5 WG1934516	1	23	6/15/2024 12:01:07 PM
41	WG1934516-6d5 WG1934516	1	24	6/15/2024 12:05:05 PM
42	L2432371-04 WG1934516	1	25	6/15/2024 12:09:03 PM
43	CCV	0	3	6/15/2024 12:13:00 PM
44	CCB	0	4	6/15/2024 12:16:56 PM
45	WG1934432-1 WG1934432	1	26	6/15/2024 12:22:31 PM
46	WG1934432-2 WG1934432	1	27	6/15/2024 12:26:36 PM
47	L2430662-02 WG1934432	1	28	6/15/2024 12:30:31 PM
48	WG1934432-3 WG1934432	1	29	6/15/2024 12:34:27 PM
49	WG1934432-4 WG1934432	1	30	6/15/2024 12:38:23 PM
50	WG1934432-5 WG1934432	1	31	6/15/2024 12:42:20 PM
51	WG1934432-6d5 WG1934432	1	32	6/15/2024 12:46:16 PM
52	L2430662-03 WG1934432	1	33	6/15/2024 12:50:13 PM
53	L2430662-04 WG1934432	1	34	6/15/2024 12:54:10 PM
54	L2430662-06 WG1934432	1	35	6/15/2024 12:58:08 PM
55	CCV	0	3	6/15/2024 1:02:06 PM
56	CCB	0	4	6/15/2024 1:06:03 PM
57	L2430662-07 WG1934432	1	36	6/15/2024 1:14:07 PM
58	L2430662-12 WG1934432	1	37	6/15/2024 1:18:11 PM
59	CCV	0	3	6/15/2024 1:22:12 PM
60	CCB	0	4	6/15/2024 1:26:09 PM
61	WG1934441-1 WG1934441	1	38	6/15/2024 1:38:39 PM
62	WG1934441-2D2 WG1934441	1	39	6/15/2024 1:42:48 PM
63	L2429828-07d2 WG1934441	1	45	6/15/2024 1:46:44 PM
64	L2429828-08d2 WG1934441	1	46	6/15/2024 1:50:41 PM
65	eL2432356-01d2 WG1934441	1	47	6/15/2024 1:54:39 PM
66	L2433393-01d2 WG1934441	1	40	6/15/2024 1:58:38 PM
67	WG1934441-3d2 WG1934441	1	41	6/15/2024 2:02:34 PM
68	WG1934441-4d2 WG1934441	1	42	6/15/2024 2:06:31 PM

Sequence Trace 8

6/17/2024 9:27:36 AM

Index	Label	Rack	Vial	Started at
69	WG1934441-5d2 WG1934441	1	43	6/15/2024 2:10:27 PM
70	WG1934441-6d10 WG1934441	1	44	6/15/2024 2:14:24 PM
71	CCV	0	3	6/15/2024 2:18:21 PM
72	CCB	0	4	6/15/2024 2:22:19 PM
73	eL2432356-01d20 WG1934441	1	48	6/15/2024 2:26:46 PM
74	L2432371-01d2 WG1934441	1	49	6/15/2024 2:30:45 PM
75	L2432371-02d2 WG1934441	1	50	6/15/2024 2:34:42 PM
76	L2432423-01d2 WG1934441	1	51	6/15/2024 2:38:39 PM
77	L2432423-02d2 WG1934441	1	52	6/15/2024 2:42:36 PM
78	L2432423-03d2 WG1934441	1	53	6/15/2024 2:46:33 PM
79	L2432423-04d2 WG1934441	1	54	6/15/2024 2:50:30 PM
80	L2432423-05d2 WG1934441	1	55	6/15/2024 2:54:27 PM
81	L2433393-04d2 WG1934441	1	56	6/15/2024 2:58:25 PM
82	eL2433393-05d2 WG1934441	1	57	6/15/2024 3:02:22 PM
83	CCV	0	3	6/15/2024 3:06:20 PM
84	CCB	0	4	6/15/2024 3:10:17 PM
85	L2433393-06d2 WG1934441	1	58	6/15/2024 3:16:36 PM
86	L2433393-09d2 WG1934441	1	59	6/15/2024 3:20:41 PM
87	L2433393-12d2 WG1934441	1	60	6/15/2024 3:24:39 PM
88	L2433393-13d2 WG1934441	2	1	6/15/2024 3:28:38 PM
89	L2432356-01d50 WG1934441	2	2	6/15/2024 3:32:35 PM
90	L2433393-05d4 WG1934441	2	3	6/15/2024 3:36:32 PM
91	CCV	0	3	6/15/2024 3:42:31 PM
92	CCB	0	4	6/15/2024 3:46:31 PM
93	WG1934738-1 WG1934738	2	4	6/15/2024 3:55:30 PM
94	WG1934738-2d2 WG1934738	2	5	6/15/2024 3:59:47 PM
95	eL2428271-13d2 WG1934738	2	11	6/15/2024 4:03:45 PM
96	eL2428271-14d2 WG1934738	2	12	6/15/2024 4:07:43 PM
97	L2428271-15d2 WG1934738	2	13	6/15/2024 4:11:42 PM
98	L2433744-01d2 WG1934738	2	6	6/15/2024 4:15:40 PM
99	WG1934738-3d2 WG1934738	2	7	6/15/2024 4:19:38 PM
100	WG1934738-4d2 WG1934738	2	8	6/15/2024 4:23:35 PM
101	WG1934738-5d2 WG1934738	2	9	6/15/2024 4:27:33 PM
102	WG1934738-6d10 WG1934738	2	10	6/15/2024 4:31:31 PM
103	CCV	0	3	6/15/2024 4:35:30 PM
104	CCB	0	4	6/15/2024 4:39:28 PM
105	L2430419-09d2 WG1934738	2	14	6/15/2024 5:01:47 PM
106	L2430419-17d2 WG1934738	2	15	6/15/2024 5:05:52 PM
107	L2430419-19d2 WG1934738	2	16	6/15/2024 5:11:23 PM
108	L2432577-01d2 WG1934738	2	17	6/15/2024 5:15:35 PM
109	L2432577-02d2 WG1934738	2	18	6/15/2024 5:19:33 PM
110	L2432577-03d2 WG1934738	2	19	6/15/2024 5:23:31 PM
111	L2433744-02d2 WG1934738	2	20	6/15/2024 5:27:28 PM
112	eL2433744-03d2 WG1934738	2	21	6/15/2024 5:31:26 PM
113	L2433744-04d2 WG1934738	2	22	6/15/2024 5:35:24 PM
114	L2433744-05d2 WG1934738	2	23	6/15/2024 5:39:23 PM
115	CCV	0	3	6/15/2024 5:43:22 PM
116	CCB	0	4	6/15/2024 5:47:20 PM
117	WG1934483-1 WG1934483	2	30	6/15/2024 6:00:52 PM
118	WG1934483-2 WG1934483	2	31	6/15/2024 6:04:56 PM
119	L2433744-06d2 WG1934738	2	24	6/15/2024 6:08:54 PM
120	L2433744-07d2 WG1934738	2	25	6/15/2024 6:12:54 PM
121	L2433744-08d2 WG1934738	2	26	6/15/2024 6:16:53 PM
122	L2433744-09d2 WG1934738	2	27	6/15/2024 6:20:52 PM
123	L2433745-01d2 WG1934738	2	28	6/15/2024 6:24:50 PM
124	L2433745-02d2 WG1934738	2	29	6/15/2024 6:28:48 PM
125	L2432352-02 WG1934062	2	44	6/15/2024 6:32:46 PM
126	L2432352-03 WG1934062	2	45	6/15/2024 6:36:45 PM
127	CCV	0	3	6/15/2024 6:40:45 PM
128	CCB	0	4	6/15/2024 6:44:44 PM
129	WG1934062-1 WG1934062	2	37	6/15/2024 6:51:30 PM
130	WG1934062-2 WG1934062	2	38	6/15/2024 6:55:34 PM
131	L2432352-04 WG1934062	2	46	6/15/2024 6:59:33 PM
132	L2432352-05 WG1934062	2	47	6/15/2024 7:03:32 PM
133	L2432352-06 WG1934062	2	48	6/15/2024 7:07:31 PM
134	L2431820-01 WG1934483	2	32	6/15/2024 7:11:31 PM
135	WG1934483-3 WG1934483	2	33	6/15/2024 7:15:29 PM
136	WG1934483-4 WG1934483	2	34	6/15/2024 7:19:28 PM
137	L2431819-01 WG1934483	2	35	6/15/2024 7:23:27 PM
138	L2432678-01 WG1934483	2	36	6/15/2024 7:27:26 PM
139	CCV	0	3	6/15/2024 7:31:25 PM
140	CCB	0	4	6/15/2024 7:35:24 PM
141	L2432392-01d2 WG1934069	2	58	6/15/2024 7:40:17 PM
142	L2432392-02d2 WG1934069	2	59	6/15/2024 7:44:16 PM

Sequence Trace 8

6/17/2024 9:27:36 AM

Index	Label	Rack	Vial	Started at
143	L2432392-05d2 WG1934069	2	60	6/15/2024 7:48:16 PM
144	L2432352-07 WG1934062	2	49	6/15/2024 7:52:15 PM
145	L2432352-08 WG1934062	2	50	6/15/2024 7:56:14 PM
146	L2432352-01 WG1934062	2	39	6/15/2024 8:00:13 PM
147	WG1934062-3 WG1934062	2	40	6/15/2024 8:04:12 PM
148	WG1934062-4 WG1934062	2	41	6/15/2024 8:08:11 PM
149	WG1934062-5 WG1934062	2	42	6/15/2024 8:12:10 PM
150	WG1934062-6d5 WG1934062	2	43	6/15/2024 8:16:08 PM
151	CCV	0	3	6/15/2024 8:20:07 PM
152	CCB	0	4	6/15/2024 8:24:06 PM
153	WG1934069-1 WG1934069	2	51	6/15/2024 8:29:13 PM
154	WG1934069-2d2 WG1934069	2	52	6/15/2024 8:33:13 PM
155	L2432392-06d2 WG1934069	3	1	6/15/2024 8:37:12 PM
156	L2432392-10d2 WG1934069	3	2	6/15/2024 8:41:12 PM
157	L2432392-13d2 WG1934069	3	3	6/15/2024 8:45:11 PM
158	L2432392-09d2 WG1934069	2	53	6/15/2024 8:49:11 PM
159	WG1934069-3d2 WG1934069	2	54	6/15/2024 8:53:10 PM
160	WG1934069-4d2 WG1934069	2	55	6/15/2024 8:57:09 PM
161	WG1934069-5d2 WG1934069	2	56	6/15/2024 9:01:08 PM
162	WG1934069-6d10 WG1934069	2	57	6/15/2024 9:05:07 PM
163	CCV	0	3	6/15/2024 9:09:07 PM
164	CCB	0	4	6/15/2024 9:13:05 PM
165	L2432392-14d2 WG1934069	3	4	6/15/2024 9:21:11 PM
166	L2432392-17d2 WG1934069	3	5	6/15/2024 9:25:17 PM
167	L2432392-18d2 WG1934069	3	6	6/15/2024 9:29:17 PM
168	L2432392-21d2 WG1934069	3	7	6/15/2024 9:33:17 PM
169	L2432392-22d2 WG1934069	3	8	6/15/2024 9:37:17 PM
170	L2432392-25d2 WG1934069	3	9	6/15/2024 9:41:17 PM
171	L2432392-26d2 WG1934069	3	10	6/15/2024 9:45:17 PM
172	L2432392-29d2 WG1934069	3	11	6/15/2024 9:49:17 PM
173	L2432394-01d2 WG1934069	3	12	6/15/2024 9:53:17 PM
174	L2432394-02d2 WG1934069	3	13	6/15/2024 9:57:18 PM
175	CCV	0	3	6/15/2024 10:01:18 PM
176	CCB	0	4	6/15/2024 10:05:17 PM
177	L2432394-03d2 WG1934069	3	14	6/15/2024 10:10:07 PM
178	L2432438-01d2 WG1934069	3	15	6/15/2024 10:14:08 PM
179	L2432438-02d2 WG1934069	3	16	6/15/2024 10:18:08 PM
180	CCV	0	3	6/15/2024 10:22:09 PM
181	CCB	0	4	6/15/2024 10:26:08 PM
182	CONTINUED ON B CAL DUE TO ERROR	0	1	

Sequence Trace 8

6/17/2024 9:28:45 AM

LabBook: WG1934785_06152024T8B.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank MAM Trace8	0	1	6/15/2024 9:00:24 AM
2	ICAL	0	2	6/15/2024 9:04:31 AM
3	WG1934232-1 WG1934232	3	17	6/15/2024 10:58:33 PM
4	WG1934232-2d2 WG1934232	3	18	6/15/2024 11:02:43 PM
5	L2430640-02d2 WG1934232	3	24	6/15/2024 11:06:41 PM
6	L2430640-03d2 WG1934232	3	25	6/15/2024 11:10:39 PM
7	L2430640-04d2 WG1934232	3	26	6/15/2024 11:14:36 PM
8	L2430640-01d2 WG1934232	3	19	6/15/2024 11:18:34 PM
9	WG1934232-3d2 WG1934232	3	20	6/15/2024 11:22:31 PM
10	WG1934232-4d2 WG1934232	3	21	6/15/2024 11:26:29 PM
11	WG1934232-5d2 WG1934232	3	22	6/15/2024 11:30:27 PM
12	WG1934232-6d10 WG1934232	3	23	6/15/2024 11:34:24 PM
13	CCV	0	3	6/15/2024 11:38:22 PM
14	CCB	0	4	6/15/2024 11:42:18 PM
15	CCV	0	3	6/15/2024 11:53:13 PM
16	CCB	0	4	6/15/2024 11:57:15 PM
17	L2430640-05d2 WG1934232	3	27	6/16/2024 12:03:18 AM
18	L2430640-06d2 WG1934232	3	28	6/16/2024 12:07:22 AM
19	L2430640-07d2 WG1934232	3	29	6/16/2024 12:11:20 AM
20	L2430640-08d2 WG1934232	3	30	6/16/2024 12:15:18 AM
21	L2430640-09d2 WG1934232	3	31	6/16/2024 12:19:16 AM
22	L2430640-10d2 WG1934232	3	32	6/16/2024 12:23:14 AM
23	L2430640-11d2 WG1934232	3	33	6/16/2024 12:27:12 AM
24	eL2430640-12d2 WG1934232	3	34	6/16/2024 12:31:10 AM
25	L2430640-13d2 WG1934232	3	35	6/16/2024 12:35:08 AM
26	L2430640-14d2 WG1934232	3	36	6/16/2024 12:39:05 AM
27	CCV	0	3	6/16/2024 12:43:03 AM
28	CCB	0	4	6/16/2024 12:47:00 AM
29	L2432443-01 WG1934502	3	42	6/16/2024 1:15:36 AM
30	L2432477-01 WG1934502	3	43	6/16/2024 1:19:48 AM
31	L2432528-01 WG1934502	3	44	6/16/2024 1:23:48 AM
32	L2432540-01 WG1934502	3	45	6/16/2024 1:27:47 AM
33	L2432603-02 WG1934502	3	46	6/16/2024 1:31:45 AM
34	L2432272-02 WG1934502	3	37	6/16/2024 1:35:44 AM
35	WG1934502-7 WG1934502	3	38	6/16/2024 1:39:42 AM
36	WG1934502-8 WG1934502	3	39	6/16/2024 1:43:41 AM
37	WG1934502-9 WG1934502	3	40	6/16/2024 1:47:40 AM
38	WG1934502-10d5 WG1934502	3	41	6/16/2024 1:51:38 AM
39	CCV	0	3	6/16/2024 1:55:37 AM
40	CCB	0	4	6/16/2024 1:59:34 AM
41	L2432616-07 WG1934502	3	47	6/16/2024 2:05:28 AM
42	L2432633-01 WG1934502	3	48	6/16/2024 2:09:30 AM
43	L2432633-02 WG1934502	3	49	6/16/2024 2:13:29 AM
44	L2432633-03 WG1934502	3	50	6/16/2024 2:17:28 AM
45	L2432633-04 WG1934502	3	51	6/16/2024 2:21:27 AM
46	L2432659-01 WG1934502	3	52	6/16/2024 2:25:26 AM
47	L2432692-02 WG1934502	3	53	6/16/2024 2:29:25 AM
48	L2432748-01 WG1934502	3	54	6/16/2024 2:33:24 AM
49	L2432753-01 WG1934502	3	55	6/16/2024 2:37:23 AM
50	L2432755-01 WG1934502	3	56	6/16/2024 2:41:21 AM
51	CCV	0	3	6/16/2024 2:45:20 AM
52	CCB	0	4	6/16/2024 2:49:17 AM
53	L2432780-01 WG1934502	3	57	6/16/2024 2:54:45 AM
54	CCV	0	3	6/16/2024 2:58:47 AM
55	CCB	0	4	6/16/2024 3:02:44 AM
56	LLOQ	0	5	6/16/2024 3:06:42 AM

Sequence Trace 5

6/17/2024 7:00:25 AM

LabBook: WG1934905_06162024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank MAM Trace5	0	1	6/16/2024 6:16:07 AM
2	ICAL	0	2	6/16/2024 6:22:31 AM
3	ICV	0	3	6/16/2024 6:28:35 AM
4	ICB	0	4	6/16/2024 6:34:40 AM
5	ICV	0	10	6/16/2024 6:41:18 AM
6	ICB	0	4	6/16/2024 6:47:26 AM
7	LLOQ RL	0	5	6/16/2024 6:53:48 AM
8	ICSA	0	6	6/16/2024 7:00:05 AM
9	SIC Multi (Fe Carryover)	0	7	6/16/2024 7:06:40 AM
10	LDR Check	0	8	6/16/2024 7:13:25 AM
11	CCV	0	3	6/16/2024 10:16:25 AM
12	CCB	0	4	6/16/2024 10:22:29 AM
13	xLLOQ RL 0.005 Zn	1	1	6/16/2024 10:28:51 AM
14	xLLOQ RL 0.01 Zn	1	2	6/16/2024 10:35:09 AM
15	LLOQ RL 0.005 Zn	1	3	6/16/2024 10:41:24 AM
16	LLOQ RL 0.1 Al	1	4	6/16/2024 10:54:13 AM
17	IEC 500 Al +Pb	1	5	6/16/2024 11:00:34 AM
18	IEC 200 Fe -As +Se (Al carryover)	1	6	6/16/2024 11:09:58 AM
19	xIEC 10 V +Be	1	7	6/16/2024 11:25:48 AM
20	SIC 20 Ti +Be	1	8	6/16/2024 11:39:11 AM
21	LDR 500 Na	1	9	6/16/2024 11:50:41 AM
22	LDR 500 K	1	10	6/16/2024 11:57:11 AM
23	CCV	0	3	6/16/2024 12:03:33 PM
24	CCB	0	4	6/16/2024 12:09:38 PM
25	LDR 500 Fe Pass	1	11	6/16/2024 12:24:35 PM
26	IEC 500 Ca +Se	1	13	6/16/2024 12:39:20 PM
27	WG1934502-2 WG1934502	1	12	6/16/2024 12:49:52 PM
28	L2430640-12D4 WG1934232	1	14	6/16/2024 12:56:00 PM
29	WG1934453-1 WG1934453	1	15	6/16/2024 1:13:24 PM
30	WG1934453-2 WG1934453	1	16	6/16/2024 1:19:42 PM
31	I2432725-21 WG1934453	1	17	6/16/2024 1:25:47 PM
32	WG1934453-3 WG1934453	1	18	6/16/2024 1:32:00 PM
33	WG1934453-4 WG1934453	1	19	6/16/2024 1:38:04 PM
34	I2432725-22 WG1934453	1	20	6/16/2024 1:44:18 PM
35	CCV	0	3	6/16/2024 1:50:35 PM
36	CCB	0	4	6/16/2024 1:56:39 PM
37	XI2432725-23 WG1934453	1	20	6/16/2024 2:03:00 PM
38	I2432725-23 WG1934453	1	21	6/16/2024 2:09:17 PM
39	I2432725-24 WG1934453	1	22	6/16/2024 2:15:38 PM
40	I2432725-25 WG1934453	1	23	6/16/2024 2:28:36 PM
41	L2432547-01 wg1934744	1	36	6/16/2024 2:34:54 PM
42	L2432940-01 wg1934744	1	26	6/16/2024 2:41:18 PM
43	wg1934744-3 wg1934744	1	27	6/16/2024 2:48:14 PM
44	wg1934744-4 wg1934744	1	28	6/16/2024 2:55:00 PM
45	wg1934744-5 wg1934744	1	29	6/16/2024 3:02:19 PM
46	wg1934744-6D5 wg1934744	1	30	6/16/2024 3:09:01 PM
47	CCV	0	3	6/16/2024 3:15:15 PM
48	CCB	0	4	6/16/2024 3:21:19 PM
49	CCV	0	3	6/16/2024 3:34:21 PM
50	CCB	0	4	6/16/2024 3:40:25 PM
51	wg1934744-1 wg1934744	1	24	6/16/2024 3:54:24 PM
52	wg1934744-2 wg1934744	1	25	6/16/2024 4:04:24 PM
53	L2432550-01 wg1934744	1	37	6/16/2024 4:10:28 PM
54	L2432654-02 wg1934744	1	38	6/16/2024 4:16:50 PM
55	L2432850-01 wg1934744	1	39	6/16/2024 4:23:04 PM
56	L2432940-02 wg1934744	1	31	6/16/2024 4:29:15 PM
57	wg1934744-7 wg1934744	1	32	6/16/2024 4:35:37 PM
58	wg1934744-8 wg1934744	1	33	6/16/2024 4:41:51 PM
59	wg1934744-9 wg1934744	1	34	6/16/2024 4:48:14 PM
60	wg1934744-10D5 wg1934744	1	35	6/16/2024 4:54:28 PM
61	CCV	0	3	6/16/2024 5:00:44 PM
62	CCB	0	4	6/16/2024 5:06:48 PM
63	L2432874-01 wg1934744	1	40	6/16/2024 5:13:10 PM
64	L2432931-05 wg1934744	1	41	6/16/2024 5:19:24 PM
65	L2432960-07 wg1934744	1	42	6/16/2024 5:25:37 PM
66	L2432986-03 wg1934744	1	43	6/16/2024 5:31:51 PM
67	L2433067-03 wg1934744	1	44	6/16/2024 5:38:04 PM
68	L2433114-01 wg1934744	1	45	6/16/2024 5:44:20 PM
69	L2433118-01 wg1934744	1	46	6/16/2024 5:50:34 PM
70	L2433137-01 wg1934744	1	47	6/16/2024 5:56:51 PM
71	I2432653-03D2 WG1934532	1	55	6/16/2024 6:03:12 PM
72	I2432653-04D2 WG1934532	1	56	6/16/2024 6:09:19 PM

Sequence Trace 5

6/17/2024 7:00:25 AM

Index:	Label:	Rack	Vial	Start time:
73	CCV	0	3	6/16/2024 6:15:26 PM
74	CCB	0	4	6/16/2024 6:21:30 PM
75	WG1934532-1 WG1934532	1	48	6/16/2024 6:32:14 PM
76	WG1934532-2D2 WG1934532	1	49	6/16/2024 6:38:36 PM
77	I2432653-05D2 WG1934532	1	57	6/16/2024 6:44:42 PM
78	I2432653-06D2 WG1934532	1	58	6/16/2024 6:50:50 PM
79	I2432653-07D2 WG1934532	1	59	6/16/2024 7:02:14 PM
80	I2432653-02D2 WG1934532	1	50	6/16/2024 7:08:22 PM
81	WG1934532-3D2 WG1934532	1	51	6/16/2024 7:14:32 PM
82	WG1934532-4D2 WG1934532	1	52	6/16/2024 7:20:36 PM
83	WG1934532-5D2 WG1934532	1	53	6/16/2024 7:26:47 PM
84	WG1934532-6D10 WG1934532	1	54	6/16/2024 7:32:51 PM
85	CCV	0	3	6/16/2024 7:39:04 PM
86	CCB	0	4	6/16/2024 7:45:08 PM
87	I2432653-08D2 WG1934532	1	60	6/16/2024 7:51:30 PM
88	I2432653-09D2 WG1934532	2	1	6/16/2024 7:57:42 PM
89	I2432653-10D2 WG1934532	2	2	6/16/2024 8:03:50 PM
90	I2432653-11D2 WG1934532	2	3	6/16/2024 8:09:57 PM
91	I2432653-12D2 WG1934532	2	4	6/16/2024 8:16:04 PM
92	I2432653-13D2 WG1934532	2	5	6/16/2024 8:22:13 PM
93	I2432653-14D2 WG1934532	2	6	6/16/2024 8:28:22 PM
94	I2432653-15D2 WG1934532	2	7	6/16/2024 8:34:30 PM
95	I2432653-16D2 WG1934532	2	8	6/16/2024 8:40:38 PM
96	I2432653-17D2 WG1934532	2	9	6/16/2024 8:46:45 PM
97	CCV	0	3	6/16/2024 8:52:55 PM
98	CCB	0	4	6/16/2024 8:58:59 PM
99	I2432653-18D2 WG1934532	2	10	6/16/2024 9:05:21 PM
100	I2432653-19D2 WG1934532	2	11	6/16/2024 9:11:30 PM
101	I2432653-20D2 WG1934532	2	12	6/16/2024 9:17:39 PM
102	CCV	0	3	6/16/2024 9:23:48 PM
103	CCB	0	4	6/16/2024 9:29:52 PM
104	LLOQ RL	0	5	6/16/2024 9:36:14 PM

Sequence Trace 8

6/18/2024 7:48:33 AM

LabBook: WG1935122_06172024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DHL Trace8	0	1	6/17/2024 7:39:05 AM
2	ICAL	0	2	6/17/2024 7:43:11 AM
3	ICV	0	3	6/17/2024 7:47:07 AM
4	ICB	0	4	6/17/2024 7:51:04 AM
5	ICV	0	3	6/17/2024 7:59:23 AM
6	ICB	0	4	6/17/2024 8:03:25 AM
7	LLOQ	0	5	6/17/2024 8:11:45 AM
8	ICSA	0	6	6/17/2024 8:15:48 AM
9	SIC Multi	0	7	6/17/2024 8:34:41 AM
10	LDR Check	0	8	6/17/2024 8:38:46 AM
11	LLOQ 0.005 As	1	1	6/17/2024 9:30:33 AM
12	zLLOQ 0.01	1	2	6/17/2024 9:34:40 AM
13	LDR 400 Na	1	3	6/17/2024 9:38:36 AM
14	LDR 1000 Ca	1	4	6/17/2024 9:42:32 AM
15	LDR 500 Fe	1	5	6/17/2024 9:46:28 AM
16	CCV	0	3	6/17/2024 10:09:26 AM
17	CCB	0	4	6/17/2024 10:13:29 AM
18	LLOQ 0.01 Se	1	2	6/17/2024 10:36:17 AM
19	WG1935099-1 WG1935099	1	6	6/17/2024 11:20:49 AM
20	WG1935099-2 WG1935099	1	7	6/17/2024 11:24:59 AM
21	L2433334-01 WG1935099	1	8	6/17/2024 11:28:57 AM
22	WG1935099-3 WG1935099	1	9	6/17/2024 11:32:54 AM
23	WG1935099-4 WG1935099	1	10	6/17/2024 11:36:51 AM
24	L2433784-01 WG1935099	1	11	6/17/2024 11:40:50 AM
25	L2433784-02 WG1935099	1	12	6/17/2024 11:44:48 AM
26	L2433791-01 WG1935099	1	13	6/17/2024 11:48:47 AM
27	L2433791-02 WG1935099	1	14	6/17/2024 11:52:42 AM
28	CCV	0	3	6/17/2024 11:56:37 AM
29	CCB	0	4	6/17/2024 12:00:33 PM
30	WG1934595-1 WG1934595	1	15	6/17/2024 12:47:08 PM
31	WG1934595-2D2 WG1934595	1	16	6/17/2024 12:51:16 PM
32	L2432632-02D2 WG1934595	1	22	6/17/2024 12:55:12 PM
33	L2432632-03D2 WG1934595	1	23	6/17/2024 12:59:10 PM
34	L2432708-01D2 WG1934595	1	24	6/17/2024 1:03:07 PM
35	L2432632-01D2 WG1934595	1	17	6/17/2024 1:07:06 PM
36	WG1934595-3D2 WG1934595	1	18	6/17/2024 1:11:02 PM
37	WG1934595-4D2 WG1934595	1	19	6/17/2024 1:14:59 PM
38	WG1934595-5D2 WG1934595	1	20	6/17/2024 1:18:56 PM
39	WG1934595-6D10 WG1934595	1	21	6/17/2024 1:22:53 PM
40	CCV	0	3	6/17/2024 1:26:50 PM
41	CCB	0	4	6/17/2024 1:30:47 PM
42	L2432708-02D2 WG1934595	1	25	6/17/2024 1:57:05 PM
43	L2432708-03D2 WG1934595	1	26	6/17/2024 2:01:07 PM
44	L2432708-04D2 WG1934595	1	27	6/17/2024 2:05:02 PM
45	L2432708-05D2 WG1934595	1	28	6/17/2024 2:08:57 PM
46	L2432708-06D2 WG1934595	1	29	6/17/2024 2:12:53 PM
47	L2432708-07D2 WG1934595	1	30	6/17/2024 2:16:50 PM
48	L2432708-08D2 WG1934595	1	31	6/17/2024 2:20:47 PM
49	L2432740-01D2 WG1934595	1	32	6/17/2024 2:24:44 PM
50	L2432740-02D2 WG1934595	1	33	6/17/2024 2:28:42 PM
51	L2432740-03D2 WG1934595	1	34	6/17/2024 2:32:40 PM
52	CCV	0	3	6/17/2024 2:36:37 PM
53	CCB	0	4	6/17/2024 2:40:37 PM
54	L2432740-04D2 WG1934595	1	35	6/17/2024 2:45:49 PM
55	L2432740-05D2 WG1934595	1	36	6/17/2024 2:49:58 PM
56	L2432740-06D2 WG1934595	1	37	6/17/2024 2:53:57 PM
57	L2432740-07D2 WG1934595	1	38	6/17/2024 2:57:53 PM
58	L2432740-08D2 WG1934595	1	39	6/17/2024 3:01:49 PM
59	L2432740-09D2 WG1934595	1	40	6/17/2024 3:05:45 PM
60	L2432396-01D10 WG1934529	1	41	6/17/2024 3:10:06 PM
61	L2432396-04D5 WG1934529	1	42	6/17/2024 3:14:04 PM
62	L2432396-06D10 WG1934529	1	43	6/17/2024 3:18:02 PM
63	L2432396-07D10 WG1934529	1	44	6/17/2024 3:21:59 PM
64	CCV	0	3	6/17/2024 3:25:57 PM
65	CCB	0	4	6/17/2024 3:29:55 PM
66	L2432396-11D4 WG1934529	1	45	6/17/2024 3:34:07 PM
67	L2432396-12D5 WG1934529	1	46	6/17/2024 3:38:07 PM
68	L2432396-13D10 WG1934529	1	47	6/17/2024 3:42:06 PM

Sequence Trace 8

6/18/2024 7:48:33 AM

Index	Label	Rack	Vial	Started at
69	eL2432396-15D10 WG1934529	1	48	6/17/2024 3:46:05 PM
70	L2432396-17D10 WG1934529	1	49	6/17/2024 3:50:04 PM
71	L2432396-15D20 WG1934529	1	50	6/17/2024 3:56:13 PM
72	CCV	0	3	6/17/2024 4:02:25 PM
73	CCB	0	4	6/17/2024 4:07:20 PM
74	WG1934549-1 WG1934549	1	51	6/17/2024 4:32:19 PM
75	WG1934549-2D2 WG1934549	1	52	6/17/2024 4:36:34 PM
76	L2432096-29D2 WG1934549	1	58	6/17/2024 4:40:31 PM
77	L2432096-30D2 WG1934549	1	59	6/17/2024 4:44:30 PM
78	L2432096-33D2 WG1934549	1	60	6/17/2024 4:48:28 PM
79	L2432738-06D2 WG1934549	1	53	6/17/2024 4:52:27 PM
80	WG1934549-3D2 WG1934549	1	54	6/17/2024 4:56:24 PM
81	WG1934549-4D2 WG1934549	1	55	6/17/2024 5:00:22 PM
82	WG1934549-5D2 WG1934549	1	56	6/17/2024 5:04:28 PM
83	WG1934549-6D10 WG1934549	1	57	6/17/2024 5:08:28 PM
84	CCV	0	3	6/17/2024 5:12:27 PM
85	CCB	0	4	6/17/2024 5:16:26 PM
86	L2432096-34D2 WG1934549	2	1	6/17/2024 5:29:03 PM
87	L2432096-35D2 WG1934549	2	2	6/17/2024 5:33:06 PM
88	L2432096-36D2 WG1934549	2	3	6/17/2024 5:37:04 PM
89	L2432096-39D2 WG1934549	2	4	6/17/2024 5:41:01 PM
90	L2432096-40D2 WG1934549	2	5	6/17/2024 5:44:59 PM
91	L2432096-41D2 WG1934549	2	6	6/17/2024 5:48:57 PM
92	L2432096-42D2 WG1934549	2	7	6/17/2024 5:52:55 PM
93	L2432096-57D2 WG1934549	2	8	6/17/2024 5:56:52 PM
94	L2432738-07D2 WG1934549	2	9	6/17/2024 6:00:50 PM
95	L2432738-08D2 WG1934549	2	10	6/17/2024 6:04:49 PM
96	CCV	0	3	6/17/2024 6:08:47 PM
97	CCB	0	4	6/17/2024 6:12:45 PM
98	WG1935242-1 WG1935242	2	11	6/17/2024 7:35:16 PM
99	WG1935242-2 WG1935242	2	12	6/17/2024 7:39:39 PM
100	WG1935242-3 WG1935242	2	13	6/17/2024 7:45:09 PM
101	L2433498-01 WG1935242	2	14	6/17/2024 7:49:23 PM
102	WG1935242-4 WG1935242	2	15	6/17/2024 7:53:22 PM
103	WG1935242-4 WG1935242	2	16	6/17/2024 7:57:20 PM
104	WG1935242-5 WG1935242	2	17	6/17/2024 8:01:18 PM
105	WG1935242-5 WG1935242	2	18	6/17/2024 8:05:16 PM
106	WG1935242-6d5 WG1935242	2	19	6/17/2024 8:09:14 PM
107	WG1935242-7 WG1935242	2	20	6/17/2024 8:13:13 PM
108	CCV	0	3	6/17/2024 8:17:11 PM
109	CCB	0	4	6/17/2024 8:21:09 PM
110	L2432556-01 WG1935242	2	21	6/17/2024 8:25:38 PM
111	L2432556-02 WG1935242	2	22	6/17/2024 8:29:37 PM
112	L2432587-01 WG1935242	2	23	6/17/2024 8:33:36 PM
113	L2433498-02 WG1935242	2	24	6/17/2024 8:37:36 PM
114	L2433498-03 WG1935242	2	25	6/17/2024 8:41:35 PM
115	L2433498-09 WG1935242	2	26	6/17/2024 8:45:34 PM
116	L2433498-11 WG1935242	2	27	6/17/2024 8:49:33 PM
117	L2433498-12 WG1935242	2	28	6/17/2024 8:53:31 PM
118	L2433498-13 WG1935242	2	29	6/17/2024 8:57:30 PM
119	L2433498-15 WG1935242	2	30	6/17/2024 9:01:28 PM
120	CCV	0	3	6/17/2024 9:05:27 PM
121	CCB	0	4	6/17/2024 9:09:25 PM
122	WG1935316-1 WG1935316	2	31	6/17/2024 9:15:01 PM
123	WG1935316-2 WG1935316	2	32	6/17/2024 9:21:43 PM
124	WG1935316-3 WG1935316	2	33	6/17/2024 9:26:01 PM
125	L2431666-06 WG1935316	2	34	6/17/2024 9:30:08 PM
126	L2431954-04 WG1935316	2	35	6/17/2024 9:34:08 PM
127	L2432803-01 WG1935316	2	36	6/17/2024 9:38:08 PM
128	L2432803-02 WG1935316	2	37	6/17/2024 9:42:08 PM
129	L2433011-04 WG1935316	2	38	6/17/2024 9:46:07 PM
130	L2433383-04 WG1935316	2	39	6/17/2024 9:50:08 PM
131	CCV	0	3	6/17/2024 9:54:07 PM
132	CCB	0	4	6/17/2024 9:58:06 PM
133	WG1934555-1 WG1934555	2	40	6/17/2024 10:06:49 PM
134	WG1934555-2 WG1934555	2	41	6/17/2024 10:11:08 PM
135	L2432633-02 WG1934555	2	47	6/17/2024 10:15:07 PM
136	L2432633-03 WG1934555	2	48	6/17/2024 10:19:07 PM
137	L2432633-01 WG1934555	2	42	6/17/2024 10:23:08 PM
138	WG1934555-3 WG1934555	2	43	6/17/2024 10:27:07 PM
139	WG1934555-4 WG1934555	2	44	6/17/2024 10:31:07 PM
140	WG1934555-5 WG1934555	2	45	6/17/2024 10:35:06 PM
141	WG1934555-6d5 WG1934555	2	46	6/17/2024 10:39:06 PM
142	CCV	0	3	6/17/2024 10:43:05 PM

Sequence Trace 8

6/18/2024 7:48:33 AM

Index	Label	Rack	Vial	Started at
143	CCB	0	4	6/17/2024 10:47:04 PM
144	L2432664-01 WG1934555	2	50	6/17/2024 10:52:42 PM
145	L2432664-02 WG1934555	2	51	6/17/2024 10:56:46 PM
146	L2432664-03 WG1934555	2	52	6/17/2024 11:00:45 PM
147	L2432664-04 WG1934555	2	53	6/17/2024 11:04:45 PM
148	L2432664-05 WG1934555	2	54	6/17/2024 11:08:45 PM
149	L2432633-04 WG1934555	2	49	6/17/2024 11:12:45 PM
150	CCV	0	3	6/17/2024 11:16:46 PM
151	CCB	0	4	6/17/2024 11:20:45 PM
152	CCV	0	3	6/17/2024 11:24:45 PM
153	CCB	0	4	6/17/2024 11:28:44 PM
154	LLOQ	0	5	6/17/2024 11:32:44 PM

Sequence Trace 6

6/18/2024 9:01:19 AM

LabBook: WG1935287_06172024T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	xBlank TAA Trace6	0	1	6/17/2024 11:34:55 AM
2	xICAL	0	2	6/17/2024 11:41:35 AM
3	xICV	0	3	6/17/2024 11:59:56 AM
4	xICB	0	4	6/17/2024 12:06:13 PM
5	xICV	0	3	6/17/2024 12:12:56 PM
6	xICB	0	4	6/17/2024 12:19:14 PM
7	xICV Flow Test	0	3	6/17/2024 12:28:29 PM
8	xICV Flow Test	0	3	6/17/2024 12:51:32 PM
9	xBlank TAA Trace6	0	1	6/17/2024 12:59:50 PM
10	xICAL	0	2	6/17/2024 1:06:31 PM
11	xICV	0	3	6/17/2024 1:12:47 PM
12	xICV Flow Test	0	3	6/17/2024 1:23:22 PM
13	xICV Flow Test	0	3	6/17/2024 1:30:30 PM
14	Blank TAA Trace6	0	1	6/17/2024 1:44:46 PM
15	ICAL	0	2	6/17/2024 1:51:26 PM
16	ICV	0	3	6/17/2024 1:57:42 PM
17	ICB	0	4	6/17/2024 2:04:01 PM
18	ICV	0	3	6/17/2024 2:10:44 PM
19	ICB	0	4	6/17/2024 2:17:02 PM
20	LLOQ RL Check	0	5	6/17/2024 2:23:46 PM
21	ICSA	0	6	6/17/2024 2:30:20 PM
22	SIC Cr Mn V Ti (Si Contamination)	0	7	6/17/2024 2:55:46 PM
23	LDR Check	0	8	6/17/2024 3:02:59 PM
24	LLOQ RL 005 ZN	1	1	6/17/2024 3:20:15 PM
25	LLOQ RL 0.01 BA	1	2	6/17/2024 3:26:56 PM
26	LLOQ RL 0.05 FE	1	3	6/17/2024 3:33:32 PM
27	xIEC 10 PPM V,SB-,Zn+	1	4	6/17/2024 3:40:02 PM
28	xSIC IEC 20 cr Sb-,zn+	1	10	6/17/2024 3:49:26 PM
29	SIC IEC 20 Cr SB-, ZN+	1	10	6/17/2024 3:50:40 PM
30	xSIC IEC 20 Ti ZN+	1	11	6/17/2024 4:00:52 PM
31	xSIC IEC MN 20 PPM Zn+	1	12	6/17/2024 4:09:13 PM
32	xLDR 10 SN	1	5	6/17/2024 4:16:06 PM
33	LDR 20 AS	1	6	6/17/2024 4:22:46 PM
34	xLDR 20 Si	1	7	6/17/2024 4:29:28 PM
35	LDR 20 SI	1	13	6/17/2024 4:38:17 PM
36	xLDR 400 NA	1	8	6/17/2024 4:44:56 PM
37	xLDR 400 NA	1	14	6/17/2024 4:54:15 PM
38	IEC Li+, LDR 500 CA	1	9	6/17/2024 5:01:03 PM
39	CCV	0	3	6/17/2024 5:15:32 PM
40	CCB	0	4	6/17/2024 5:21:50 PM
41	LDR 100 PPM NA	1	40	6/17/2024 5:33:22 PM
42	LDR 200 FE	1	41	6/17/2024 5:40:03 PM
43	CCV	0	3	6/17/2024 5:46:49 PM
44	CCB	0	4	6/17/2024 5:53:07 PM
45	WG1935023-1 WG1935023	1	15	6/17/2024 6:02:32 PM
46	WG1935023-2 WG1935023	1	16	6/17/2024 6:09:12 PM
47	L2433687-02 WG1935023	1	17	6/17/2024 6:15:32 PM
48	WG1935023-3 WG1935023	1	18	6/17/2024 6:22:02 PM
49	WG1935023-4 WG1935023	1	19	6/17/2024 6:28:21 PM
50	WG1935023-5 WG1935023	1	20	6/17/2024 6:34:52 PM
51	WG1935023-6d5 WG1935023	1	21	6/17/2024 6:41:11 PM
52	L2433268-01 WG1935023	1	22	6/17/2024 6:47:48 PM
53	L2433268-02 WG1935023	1	23	6/17/2024 6:54:33 PM
54	L2433268-03 WG1935023	1	24	6/17/2024 7:01:10 PM
55	CCV	0	3	6/17/2024 7:07:56 PM
56	CCB	0	4	6/17/2024 7:14:15 PM
57	L2433401-03 WG1935023	1	35	6/17/2024 7:25:10 PM
58	L2433401-04 WG1935023	1	36	6/17/2024 7:31:47 PM
59	L2433401-05 WG1935023	1	37	6/17/2024 7:38:24 PM
60	L2433401-06 WG1935023	1	38	6/17/2024 7:44:59 PM
61	L2433401-07 WG1935023	1	39	6/17/2024 7:51:34 PM
62	CCV	0	3	6/17/2024 7:58:08 PM
63	CCB	0	4	6/17/2024 8:04:27 PM
64	L2433268-04 WG1935023	1	25	6/17/2024 8:15:18 PM
65	L2433268-05 WG1935023	1	26	6/17/2024 8:21:52 PM
66	L2433268-06 WG1935023	1	27	6/17/2024 8:28:28 PM
67	L2433268-07 WG1935023	1	28	6/17/2024 8:35:04 PM
68	L2433268-08 WG1935023	1	29	6/17/2024 8:41:42 PM
69	L2433268-09 WG1935023	1	30	6/17/2024 8:48:17 PM
70	L2433268-10 WG1935023	1	31	6/17/2024 8:54:54 PM
71	L2433268-11 WG1935023	1	32	6/17/2024 9:01:31 PM
72	L2433401-01 WG1935023	1	33	6/17/2024 9:08:08 PM

Sequence Trace 6

6/18/2024 9:01:19 AM

Index:	Label:	Rack	Vial	Start time:
73	L2433401-02 WG1935023	1	34	6/17/2024 9:14:44 PM
74	CCV	0	3	6/17/2024 9:21:20 PM
75	CCB	0	4	6/17/2024 9:27:38 PM
76	WG1935321-1 WG1935321	1	42	6/17/2024 9:53:14 PM
77	WG1935321-2 WG1935321	1	43	6/17/2024 9:59:55 PM
78	WG1935321-3 WG1935321	1	44	6/17/2024 10:06:15 PM
79	L2432803-01 WG1935321	1	45	6/17/2024 10:12:36 PM
80	L2432803-02 WG1935321	1	46	6/17/2024 10:19:14 PM
81	CCV	0	3	6/17/2024 10:25:52 PM
82	CCB	0	4	6/17/2024 10:32:10 PM
83	CCV	0	3	6/17/2024 10:38:53 PM
84	CCB	0	4	6/17/2024 10:45:11 PM
85	WG1935316-2 WG1935316	1	57	6/17/2024 10:59:26 PM
86	WG1935316-3 WG1935316	1	58	6/17/2024 11:05:46 PM
87	CCV	0	3	6/17/2024 11:12:08 PM
88	CCB	0	4	6/17/2024 11:18:27 PM
89	WG1934555-1 WG1934555	1	47	6/17/2024 11:26:20 PM
90	XWG1934555-2 WG1934555	1	48	6/17/2024 11:36:02 PM
91	L2432633-02 WG1934555	1	54	6/17/2024 11:42:21 PM
92	L2432633-03 WG1934555	1	55	6/17/2024 11:48:57 PM
93	L2432633-04 WG1934555	1	56	6/17/2024 11:55:33 PM
94	L2432633-01 WG1934555	1	49	6/18/2024 12:02:11 AM
95	WG1934555-3 WG1934555	1	50	6/18/2024 12:08:48 AM
96	WG1934555-4 WG1934555	1	51	6/18/2024 12:15:06 AM
97	WG1934555-5 WG1934555	1	52	6/18/2024 12:21:43 AM
98	WG1934555-6d5 WG1934555	1	53	6/18/2024 12:28:00 AM
99	CCV	0	3	6/18/2024 12:34:38 AM
100	CCB	0	4	6/18/2024 12:40:57 AM
101	LLOQ RL Check	0	5	6/18/2024 12:47:40 AM
102	CCV	0	3	6/18/2024 12:54:16 AM
103	CCB	0	4	6/18/2024 1:00:34 AM

Sequence Trace 8

6/18/2024 12:12:35 PM

LabBook: WG1935552_06182024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank JMF Trace8	0	1	6/18/2024 4:36:47 AM
2	ICAL	0	2	6/18/2024 4:40:46 AM
3	ICV	0	3	6/18/2024 4:44:41 AM
4	ICB	0	4	6/18/2024 4:48:38 AM
5	ICV	0	10	6/18/2024 4:52:35 AM
6	ICB	0	4	6/18/2024 4:56:35 AM
7	xLLOQ	0	5	6/18/2024 5:33:25 AM
8	LLOQ	0	5	6/18/2024 5:34:20 AM
9	ICSA	0	6	6/18/2024 5:39:34 AM
10	LLOQ 0.01ppm	1	1	6/18/2024 6:05:59 AM
11	LDR 500 Fe pass	1	2	6/18/2024 6:10:06 AM
12	LDR 1000 Ca pass	1	3	6/18/2024 6:14:01 AM
13	SIC Multi	0	7	6/18/2024 6:28:11 AM
14	LDR 40 Mn pass	1	4	6/18/2024 6:32:15 AM
15	LDR Check	0	8	6/18/2024 6:36:12 AM
16	LDR 500 Na	1	5	6/18/2024 6:40:10 AM
17	IEC 20 Ti +Si -Tl	1	6	6/18/2024 6:44:07 AM
18	IEC 10 V +Tl	1	7	6/18/2024 6:58:34 AM
19	CCV	0	3	6/18/2024 7:16:56 AM
20	CCB	0	4	6/18/2024 7:21:06 AM
21	WG1935256-1 WG1935256	1	8	6/18/2024 7:39:31 AM
22	WG1935256-2D2 WG1935256	1	9	6/18/2024 7:43:42 AM
23	L2432723-01D2 WG1935256	1	29	6/18/2024 7:47:40 AM
24	L2432723-02D2 WG1935256	1	30	6/18/2024 7:51:36 AM
25	L2432723-03D2 WG1935256	1	31	6/18/2024 7:55:31 AM
26	L2432096-25D2 WG1935256	1	10	6/18/2024 7:59:27 AM
27	WG1935256-3D2 WG1935256	1	11	6/18/2024 8:03:25 AM
28	WG1935256-4D2 WG1935256	1	12	6/18/2024 8:07:22 AM
29	WG1935256-5D2 WG1935256	1	13	6/18/2024 8:11:21 AM
30	WG1935256-6D10 WG1935256	1	14	6/18/2024 8:15:15 AM
31	CCV	0	3	6/18/2024 8:19:09 AM
32	CCB	0	4	6/18/2024 8:23:05 AM
33	zWG1935256-1 WG1935256	1	33	6/18/2024 8:29:07 AM
34	Test FM 0305 FAO	1	34	6/18/2024 8:33:17 AM
35	Test FM 0315 FAO	1	35	6/18/2024 8:37:14 AM
36	Test FM 0329 FAO	1	36	6/18/2024 8:41:11 AM
37	L2432723-04D2 WG1935256	1	32	6/18/2024 8:45:09 AM
38	L2432096-26D2 WG1935256	1	15	6/18/2024 8:49:05 AM
39	L2432096-45D2 WG1935256	1	16	6/18/2024 8:53:00 AM
40	L2432096-46D2 WG1935256	1	17	6/18/2024 8:56:55 AM
41	L2432096-47D2 WG1935256	1	18	6/18/2024 9:00:51 AM
42	L2432096-48D2 WG1935256	1	19	6/18/2024 9:04:47 AM
43	CCV	0	3	6/18/2024 9:08:44 AM
44	CCB	0	4	6/18/2024 9:12:40 AM
45	WG1935259-1 WG1935259	1	37	6/18/2024 9:24:26 AM
46	L2432096-49D2 WG1935256	1	20	6/18/2024 9:28:37 AM
47	L2432096-50D2 WG1935256	1	21	6/18/2024 9:33:31 AM
48	L2432096-55D2 WG1935256	1	22	6/18/2024 9:37:36 AM
49	L2432096-56D2 WG1935256	1	23	6/18/2024 9:41:34 AM
50	L2432096-58D2 WG1935256	1	24	6/18/2024 9:45:31 AM
51	L2432096-60D2 WG1935256	1	25	6/18/2024 9:49:29 AM
52	L2432096-61D2 WG1935256	1	26	6/18/2024 9:53:24 AM
53	L2432096-70D2 WG1935256	1	27	6/18/2024 9:57:18 AM
54	L2432096-71D2 WG1935256	1	28	6/18/2024 10:01:14 AM
55	CCV	0	3	6/18/2024 10:05:21 AM
56	CCB	0	4	6/18/2024 10:09:17 AM
57	WG1934555-2 WG1934555	1	60	6/18/2024 10:18:08 AM
58	WG1935259-2D2 WG1935259	1	38	6/18/2024 10:22:23 AM
59	WG1935259-3D2 WG1935259	1	39	6/18/2024 10:26:18 AM
60	L2432584-01D2 WG1935259	1	40	6/18/2024 10:30:13 AM
61	L2432584-02D2 WG1935259	1	41	6/18/2024 10:35:58 AM
62	L2432584-03D2 WG1935259	1	42	6/18/2024 10:39:54 AM
63	L2432584-04D2 WG1935259	1	43	6/18/2024 10:43:55 AM
64	L2432584-05D2 WG1935259	1	44	6/18/2024 10:47:53 AM
65	L2432584-06D2 WG1935259	1	45	6/18/2024 10:51:49 AM
66	0.5 ppm Li STD for MS	2	1	6/18/2024 10:55:46 AM
67	CCV	0	3	6/18/2024 10:59:45 AM
68	CCB	0	4	6/18/2024 11:03:42 AM

Sequence Trace 8

6/18/2024 12:12:35 PM

Index	Label	Rack	Vial	Started at
69	L2432584-07D2 WG1935259	1	46	6/18/2024 11:11:58 AM
70	L2432584-08D2 WG1935259	1	47	6/18/2024 11:16:11 AM
71	L2432584-09D2 WG1935259	1	48	6/18/2024 11:22:54 AM
72	L2432584-10D2 WG1935259	1	49	6/18/2024 11:26:55 AM
73	L2432584-11D2 WG1935259	1	50	6/18/2024 11:30:51 AM
74	L2432584-12D2 WG1935259	1	51	6/18/2024 11:34:48 AM
75	L2432584-13D2 WG1935259	1	52	6/18/2024 11:40:01 AM
76	L2432584-14D2 WG1935259	1	53	6/18/2024 11:43:58 AM
77	L2432584-15D2 WG1935259	1	54	6/18/2024 11:47:55 AM
78	L2432584-16D2 WG1935259	1	55	6/18/2024 11:51:52 AM
79	CCV	0	3	6/18/2024 11:55:49 AM
80	CCB	0	4	6/18/2024 11:59:46 AM
81	L2432584-17D2 WG1935259	1	56	
82	L2432584-18D2 WG1935259	1	57	
83	L2432584-19D2 WG1935259	1	58	
84	L2432584-20D2 WG1935259	1	59	
85	CCV	0	3	
86	CCB	0	4	
87		2	2	
88		2	3	
89		2	4	
90		2	5	
91		2	6	
92		2	7	
93	CCV	0	3	
94	CCB	0	4	
95	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG1934502

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324230 71600EFM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METSPIKE2	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432272-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432272-02 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432412-01 LIQUID	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432412-02 LIQUID	06/14/24 20:48	Heidy Rompich	5	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	10X DIL DUE TO PH/FOAMY
L2432443-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432477-01 WATER	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432528-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432540-01 WATER	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432603-02 WATER	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432616-07 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432633-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432633-02 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432633-03 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432633-04 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	

Reported: 18-JUN-24 01:21 PM

METALS ELN REPORT

Workgroup: WG1934502

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432659-01 WATER	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432692-02 WATER	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432748-01 WATER	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432753-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432755-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
L2432780-01 SAMP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
WG1934502-1 BLANK	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	FM2423061513 HCR
WG1934502-2 LCS	06/14/24 20:48	Heidy Rompich	50	<2	0.5	06/14/24 20:48	7	94.8	06/14/24 23:48	50	ELN:FAC
WG1934502-3 MS	06/14/24 20:48	Heidy Rompich	50	<2	0.5	06/14/24 20:48	7	94.8	06/14/24 23:48	50	ELN:MAM
WG1934502-4 DUP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
WG1934502-5 PS	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
WG1934502-6 SERDIL	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
WG1934502-7 MS	06/14/24 20:48	Heidy Rompich	50	<2	0.5	06/14/24 20:48	7	94.8	06/14/24 23:48	50	
WG1934502-8 DUP	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	

Reported: 18-JUN-24 01:21 PM

METALS ELN REPORT

Workgroup: WG1934502

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1934502-9 PS	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	
WG1934502-10 SERDIL	06/14/24 20:48	Heidy Rompich	50	<2		06/14/24 20:48	7	94.8	06/14/24 23:48	50	IPS2418041124HCR

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 18-JUN-24 01:21 PM

METALS ELN REPORT

Workgroup: WG1934555

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324230 71600EFM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METSPIKE2	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2432633-01 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 13:15	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432633-02 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 13:15	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432633-03 SAMP	06/15/24 08:25	Heidy Rompich	NA	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432633-04 SAMP	06/15/24 08:25	Heidy Rompich	NA	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432664-01 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 11:50	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432664-02 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 11:50	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432664-03 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 11:50	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432664-04 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 11:50	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
L2432664-05 SAMP	06/15/24 08:25	Heidy Rompich	06-12-24 11:50	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
WG1934555-1 BLANK	06/15/24 08:25	Heidy Rompich	06/12/24 11:50	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	FM2423061513 HCR
WG1934555-2 LCS	06/15/24 08:25	Heidy Rompich	NA	50	<2	0.5	06/15/24 08:25	7	94.2	06/15/24 11:25	50	IPS2418041124 HCR
WG1934555-3 MS	06/15/24 08:25	Heidy Rompich	NA	50	<2	0.5	06/15/24 08:25	7	94.2	06/15/24 11:25	50	eln:EFM
WG1934555-4 DUP	06/15/24 08:25	Heidy Rompich	NA	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	

Reported: 18-JUN-24 01:21 PM

METALS ELN REPORT

Workgroup: WG1934555

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1934555-5 PS	06/15/24 08:25	Heidy Rompich	NA	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	
WG1934555-6 SERDIL	06/15/24 08:25	Heidy Rompich	NA	50	<2		06/15/24 08:25	7	94.2	06/15/24 11:25	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 18-JUN-24 01:21 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935187.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935187.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934503-1	**Date Collected**	: NA
Client ID	: WG1934503-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 14:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935187.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934503-4	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11SDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/17/24 15:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935187.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934503-6	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11DDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/17/24 15:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935187.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 12:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935764.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 12:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935764.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935764.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 12:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935764.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934557-1	**Date Collected**	: NA
Client ID	: WG1934557-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 11:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935764.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934557-4	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13SDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/18/24 12:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1935764.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00009	0.00020	0.0001	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/14/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1841855-1			R1841855-3			R1841855-5		R1841855-7	
Date Analyzed :	06/17/24 09:00			06/17/24 10:22			06/17/24 11:02		06/17/24 12:32	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	101	0.0050	0.00510	101	0.00510	102	0.00510	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1841855-9			R1841855-11		R1841855-13	
Date Analyzed :				06/17/24 13:13			06/17/24 14:21		06/17/24 15:23	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	101	0.00500	101	0.00510	102

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842375-1			R1842375-3			R1842375-5		R1842375-7	
Date Analyzed	:	06/18/24 09:26			06/18/24 10:36			06/18/24 11:37		06/18/24 12:17	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0030	100	0.0050	0.00470	95	0.00470	95	0.00470	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842390-1			R1842390-3						
Date Analyzed	:	06/18/24 07:52			06/18/24 09:34						
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0030	99	0.0050	0.00470	94				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1841855-2	R1841855-4	R1841855-6	R1841855-8	WG1934503-1
Date Analyzed :	06/17/24 09:03	06/17/24 10:25	06/17/24 11:05	06/17/24 12:35	06/17/24 14:53
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000910 U	0.0000910 U	0.0000910 U	0.0000910 U	0.00009 U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1841855-10		R1841855-12		R1841855-14			
Date Analyzed :			06/17/24 13:16		06/17/24 14:24		06/17/24 15:26			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1842375-2		R1842375-4		R1842375-6		R1842375-8		WG1934557-1	
Date Analyzed	:	06/18/24 09:29		06/18/24 10:39		06/18/24 11:40		06/18/24 12:20		06/18/24 11:50	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury		0.0000910	U	0.000126	J	0.000123	J	0.000119	J	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1842390-2		R1842390-4							
Date Analyzed	:	06/18/24 07:56		06/18/24 09:37							
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury		0.0000910	U	0.000135	J						

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01		
Matrix Spike	: WG1934503-3	**MS Analysis Date**	: 06/17/24 15:03
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Mercury, Total	ND	0.005	0.00483	97					70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2432633-02		
Matrix Spike	: WG1934503-5	**MS Analysis Date**	: 06/17/24 15:16
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00502	100					70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13S	**Matrix**	: WATER
Lab Sample ID	: L2432633-03		
Matrix Spike	: WG1934557-3	**MS Analysis Date**	: 06/18/24 12:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Mercury, Dissolved	ND	0.005	0.00448	90					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01	**Analysis Date**	: 06/17/24 15:00
Dup Sample ID	: WG1934503-4	**DUP Analysis Date**	: 06/17/24 15:07

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2432633-02	**Analysis Date**	: 06/17/24 15:13
Dup Sample ID	: WG1934503-6	**DUP Analysis Date**	: 06/17/24 15:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13S	**Matrix**	: WATER
Lab Sample ID	: L2432633-03	**Analysis Date**	: 06/18/24 11:57
Dup Sample ID	: WG1934557-4	**DUP Analysis Date**	: 06/18/24 12:04

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	ND	0.00009J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934503-2	**LCS Analysis Date**	: 06/17/24 14:57
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.00103**	**104.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934557-2	**LCS Analysis Date**	: 06/18/24 11:54
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	0.00100	0.000930	94.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2432633-01	06/14/24 22:14	-	25
L2432633-02	06/14/24 22:14	-	25
WG1934503-1	06/14/24 22:14	-	25
WG1934503-2	06/14/24 22:14	-	25
WG1934503-3	06/14/24 22:14	-	25
WG1934503-4	06/14/24 22:14	-	25
WG1934503-5	06/14/24 22:14	-	25
WG1934503-6	06/14/24 22:14	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2432633-01	06/15/24 09:52	-	25
L2432633-02	06/15/24 09:52	-	25
L2432633-03	06/15/24 09:52	-	25
L2432633-04	06/15/24 09:52	-	25
WG1934557-1	06/15/24 09:52	-	25
WG1934557-2	06/15/24 09:52	-	25
WG1934557-3	06/15/24 09:52	-	25
WG1934557-4	06/15/24 09:52	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2432633-03	06/14/24 22:14	-	25
L2432633-04	06/14/24 22:14	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 06/17/24 09:00	**End Date**	: 06/17/24 15:26

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1841855-1 ICV	1	09:00:33	X
R1841855-2 ICB	1	09:03:52	X
R1841855-3 CCV	1	10:22:20	X
R1841855-4 CCB	1	10:25:39	X
R1841855-5 CCV	1	11:02:02	X
R1841855-6 CCB	1	11:05:20	X
R1841855-7 CCV	1	12:32:40	X
R1841855-8 CCB	1	12:35:58	X
R1841855-9 CCV	1	13:13:15	X
R1841855-10 CCB	1	13:16:33	X
R1841855-11 CCV	1	14:21:06	X
R1841855-12 CCB	1	14:24:25	X
WG1934503-1 BLANK	1	14:53:48	X
WG1934503-2 LCS	1	14:57:06	X
L2432633-01	1	15:00:24	X
WG1934503-3 MS	1	15:03:43	X
WG1934503-4 DUP	1	15:07:01	X
L2432633-02	1	15:13:37	X
WG1934503-5 MS	1	15:16:55	X
WG1934503-6 DUP	1	15:20:13	X
R1841855-13 CCV	1	15:23:31	X
R1841855-14 CCB	1	15:26:49	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 06/18/24 09:26	**End Date**	: 06/18/24 12:20

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1842375-1 ICV	1	09:26:35	X
R1842375-2 ICB	1	09:29:55	X
R1842375-3 CCV	1	10:36:33	X
R1842375-4 CCB	1	10:39:55	X
R1842375-5 CCV	1	11:37:10	X
R1842375-6 CCB	1	11:40:29	X
WG1934557-1 BLANK	1	11:50:56	X
WG1934557-2 LCS	1	11:54:14	X
L2432633-03	1	11:57:33	X
WG1934557-3 MS	1	12:00:51	X
WG1934557-4 DUP	1	12:04:10	X
L2432633-01	1	12:07:28	X
L2432633-02	1	12:10:46	X
L2432633-04	1	12:14:05	X
R1842375-7 CCV	1	12:17:23	X
R1842375-8 CCB	1	12:20:42	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 06/18/24 07:52	**End Date**	: 06/18/24 09:37

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1842390-1 ICV	1	07:52:49	X
R1842390-2 ICB	1	07:56:07	X
L2432633-03	1	09:07:17	X
L2432633-04	1	09:10:35	X
R1842390-3 CCV	1	09:34:02	X
R1842390-4 CCB	1	09:37:21	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 06/17/2024
Name :

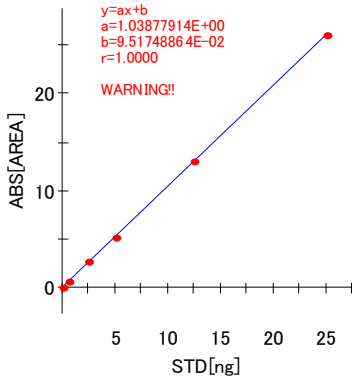
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.1272	0.0308	-	06/17/2024 08:39	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.7079	0.5899	18.0	06/17/2024 08:43	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.6851	2.4932	0.3	06/17/2024 08:46	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.1928	4.9073	1.9	06/17/2024 08:49	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.9996	12.4227	0.6	06/17/2024 08:53	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	26.1229	25.0561	0.2	06/17/2024 08:56	MJR,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.9929	7.6029	3.041	-	06/17/2024 09:00	MJR,NIC3
2	ICB	2.500	2.500	2.500	0.1292	0.0328	0.013	-	06/17/2024 09:03	MJR,NIC3
3	0.2PPB	2.500	2.500	2.500	0.7136	0.5953	0.238	-	06/17/2024 09:07	MJR,NIC3
4	wg1934414-1 wg1934414	2.500	2.500	2.500	0.0622	-0.0317	-0.013	-	06/17/2024 09:23	MJR,NIC3
5	wg1934414-2 wg1934414	2.500	2.500	2.500	2.5496	2.3628	0.945	-	06/17/2024 09:27	MJR,NIC3
6	L2432330-01 wg1934414	2.500	2.500	2.500	0.0910	-0.0040	-0.002	-	06/17/2024 09:30	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1934414-3 wg1934414	2.500	2.500	2.500	12.2294	11.6812	4.672	-	06/17/2024 09:33	MJR,NIC3
8	wg1934414-4 wg1934414	2.500	2.500	2.500	0.1145	0.0186	0.007	-	06/17/2024 09:37	MJR,NIC3
9	L2432563-01 wg1934414	2.500	2.500	2.500	0.0741	-0.0203	-0.008	-	06/17/2024 09:40	MJR,NIC3
10	L2432791-34 wg1934414	2.500	2.500	2.500	0.0776	-0.0169	-0.007	-	06/17/2024 09:43	MJR,NIC3
11	wg1933925-1 wg1933925	2.500	2.500	2.500	0.0579	-0.0359	-0.014	-	06/17/2024 10:15	MJR,NIC3
12	wg1933925-2 wg1933925	2.500	2.500	2.500	2.5759	2.3881	0.955	-	06/17/2024 10:19	MJR,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	13.2598	12.6732	5.069	101.4	06/17/2024 10:22	MJR,NIC3
14	Check Blank	2.500	2.500	2.500	0.1090	0.0133	0.005	-	06/17/2024 10:25	MJR,NIC3
15	L2430662-04 wg1933925	2.500	2.500	2.500	0.0737	-0.0207	-0.008	-	06/17/2024 10:28	MJR,NIC3
16	wg1933925-3 wg1933925	2.500	2.500	2.500	12.6633	12.0989	4.840	-	06/17/2024 10:32	MJR,NIC3
17	wg1933925-4 wg1933925	2.500	2.500	2.500	0.1105	0.0148	0.006	-	06/17/2024 10:35	MJR,NIC3
18	L2430662-01 wg1933925	2.500	2.500	2.500	0.0452	-0.0481	-0.019	-	06/17/2024 10:38	MJR,NIC3
19	L2430662-02 wg1933925	2.500	2.500	2.500	0.0666	-0.0275	-0.011	-	06/17/2024 10:42	MJR,NIC3
20	L2430662-03 wg1933925	2.500	2.500	2.500	0.0785	-0.0161	-0.006	-	06/17/2024 10:45	MJR,NIC3
21	L2430662-05 wg1933925	2.500	2.500	2.500	0.0763	-0.0182	-0.007	-	06/17/2024 10:48	MJR,NIC3
22	L2430662-06 wg1933925	2.500	2.500	2.500	0.1106	0.0148	0.006	-	06/17/2024 10:52	MJR,NIC3
23	L2430662-07 wg1933925	2.500	2.500	2.500	0.1125	0.0167	0.007	-	06/17/2024 10:55	MJR,NIC3
24	L2430662-08 wg1933925	2.500	2.500	2.500	0.0592	-0.0346	-0.014	-	06/17/2024 10:58	MJR,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	13.3200	12.7311	5.092	101.8	06/17/2024 11:02	MJR,NIC3
26	Check Blank	2.500	2.500	2.500	0.1211	0.0250	0.010	-	06/17/2024 11:05	MJR,NIC3
27	L2430662-09 wg1933925	2.500	2.500	2.500	0.0575	-0.0363	-0.015	-	06/17/2024 11:09	MJR,NIC3
28	L2430662-10 wg1933925	2.500	2.500	2.500	0.0636	-0.0304	-0.012	-	06/17/2024 11:12	MJR,NIC3
29	L2430662-12 wg1933925	2.500	2.500	2.500	0.0853	-0.0095	-0.004	-	06/17/2024 11:15	MJR,NIC3
30	L2432096-24 wg1933925	2.500	2.500	2.500	0.0858	-0.0090	-0.004	-	06/17/2024 11:19	MJR,NIC3
31	L2432096-59 wg1933925	2.500	2.500	2.500	0.1071	0.0115	0.005	-	06/17/2024 11:22	MJR,NIC3
32	L2432392-30 wg1933925	2.500	2.500	2.500	0.2210	0.1211	0.048	-	06/17/2024 11:25	MJR,NIC3
33	wg1935100-1 wg1935100	2.500	2.500	2.500	0.0381	-0.0549	-0.022	-	06/17/2024 12:19	MJR,NIC3
34	wg1935100-2 wg1935100	2.500	2.500	2.500	2.5623	2.3750	0.950	-	06/17/2024 12:22	MJR,NIC3
35	I2433334-01 wg1935100	2.500	2.500	2.500	0.0399	-0.0532	-0.021	-	06/17/2024 12:26	MJR,NIC3
36	wg1935100-3 wg1935100	2.500	2.500	2.500	12.5493	11.9892	4.796	-	06/17/2024 12:29	MJR,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	13.2356	12.6499	5.060	101.2	06/17/2024 12:32	MJR,NIC3
38	Check Blank	2.500	2.500	2.500	0.1187	0.0226	0.009	-	06/17/2024 12:35	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	wg1935100-4 wg1935100	2.500	2.500	2.500	0.0434	-0.0498	-0.020	-	06/17/2024 12:40	MJR,NIC3
40	wg1935184-1 wg1935184	2.500	2.500	2.500	0.0400	-0.0531	-0.021	-	06/17/2024 12:43	MJR,NIC3
41	wg1935184-2 wg1935184	2.500	2.500	2.500	2.5490	2.3622	0.945	-	06/17/2024 12:46	MJR,NIC3
42	I2433211-01 wg1935184	2.500	2.500	2.500	0.0435	-0.0497	-0.020	-	06/17/2024 12:50	MJR,NIC3
43	wg1935184-3 wg1935184	2.500	2.500	2.500	12.9547	12.3795	4.952	-	06/17/2024 12:53	MJR,NIC3
44	wg1935184-4 wg1935184	2.500	2.500	2.500	0.0445	-0.0488	-0.020	-	06/17/2024 12:56	MJR,NIC3
45	wg1933907-1 wg1933907	2.500	2.500	2.500	0.0427	-0.0505	-0.020	-	06/17/2024 13:00	MJR,NIC3
46	wg1933907-2 wg1933907	2.500	2.500	2.500	2.5060	2.3208	0.928	-	06/17/2024 13:03	MJR,NIC3
47	L2432327-02 wg1933907	2.500	2.500	2.500	0.0692	-0.0250	-0.010	-	06/17/2024 13:06	MJR,NIC3
48	wg1933907-3 wg1933907	2.500	2.500	2.500	12.8453	12.2741	4.910	-	06/17/2024 13:09	MJR,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	13.2245	12.6392	5.056	101.1	06/17/2024 13:13	MJR,NIC3
50	Check Blank	2.500	2.500	2.500	0.1195	0.0234	0.009	-	06/17/2024 13:16	MJR,NIC3
51	wg1933907-4 wg1933907	2.500	2.500	2.500	0.0564	-0.0373	-0.015	-	06/17/2024 13:20	MJR,NIC3
52	L2432327-01 wg1933907	2.500	2.500	2.500	0.0734	-0.0210	-0.008	-	06/17/2024 13:23	MJR,NIC3
53	L2432327-03 wg1933907	2.500	2.500	2.500	0.0522	-0.0414	-0.017	-	06/17/2024 13:26	MJR,NIC3
54	XWG1934575-1 WG1934575	2.500	2.500	2.500	1.1919	1.0558	0.422	-	06/17/2024 13:58	MJR,NIC3
55	XWG1934575-2 WG1934575	2.500	2.500	2.500	3.2848	3.0706	1.228	-	06/17/2024 14:01	MJR,NIC3
56	XI2432252-01 WG1934575	2.500	2.500	2.500	0.7238	0.6052	0.242	-	06/17/2024 14:04	MJR,NIC3
57	XWG1934575-3 WG1934575	2.500	2.500	2.500	13.1992	12.6148	5.046	-	06/17/2024 14:07	MJR,NIC3
58	XWG1934575-4 WG1934575	2.500	2.500	2.500	0.6825	0.5654	0.226	-	06/17/2024 14:11	MJR,NIC3
59	XI2432811-01 WG1934575	2.500	2.500	2.500	0.8918	0.7669	0.307	-	06/17/2024 14:14	MJR,NIC3
60	XI2433247-02 WG1934575	2.500	2.500	2.500	0.9451	0.8182	0.327	-	06/17/2024 14:17	MJR,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	13.1861	12.6022	5.041	100.8	06/17/2024 14:21	MJR,NIC3
62	Check Blank	2.500	2.500	2.500	0.1357	0.0390	0.016	-	06/17/2024 14:24	MJR,NIC3
63	XI2433247-02 WG1934575	2.500	2.500	2.500	0.6927	0.5752	0.230	-	06/17/2024 14:45	MJR,NIC3
64	WG1934503-1 WG1934503	2.500	2.500	2.500	0.2134	0.1138	0.046	-	06/17/2024 14:53	MJR,NIC3
65	WG1934503-2 WG1934503	2.500	2.500	2.500	2.7929	2.5970	1.039	-	06/17/2024 14:57	MJR,NIC3
66	I2432633-01 WG1934503	2.500	2.500	2.500	0.2062	0.1069	0.043	-	06/17/2024 15:00	MJR,NIC3
67	WG1934503-3 WG1934503	2.500	2.500	2.500	12.6455	12.0818	4.833	-	06/17/2024 15:03	MJR,NIC3
68	WG1934503-4 WG1934503	2.500	2.500	2.500	0.2451	0.1443	0.058	-	06/17/2024 15:07	MJR,NIC3
69	I2432443-01 WG1934503	2.500	2.500	2.500	0.2116	0.1121	0.045	-	06/17/2024 15:10	MJR,NIC3
70	I2432633-02 WG1934503	2.500	2.500	2.500	0.3011	0.1982	0.079	-	06/17/2024 15:13	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	WG1934503-5 WG1934503	2.500	2.500	2.500	13.1509	12.5683	5.027	-	06/17/2024 15:16	MJR,NIC3
72	WG1934503-6 WG1934503	2.500	2.500	2.500	0.2084	0.1090	0.044	-	06/17/2024 15:20	MJR,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	13.2840	12.6965	5.079	101.6	06/17/2024 15:23	MJR,NIC3
74	Check Blank	2.500	2.500	2.500	0.1288	0.0324	0.013	-	06/17/2024 15:26	MJR,NIC3
75	XHG2424151148EFMV1	2.500	2.500	2.500	0.7898	0.6687	0.267	-	06/17/2024 16:03	MJR,NIC3
76	XHG2424151148EFMV2	2.500	2.500	2.500	4.2481	3.9979	1.599	-	06/17/2024 16:06	MJR,NIC3
77	XHG2424151148EFMV1	2.500	2.500	2.500	0.8048	0.6831	0.273	-	06/17/2024 16:12	MJR,NIC3
78	XHG2424151148EFMV2	2.500	2.500	2.500	4.2645	4.0137	1.605	-	06/17/2024 16:16	MJR,NIC3
79	WG1934470-1 WG1934470	2.500	2.500	2.500	0.3294	0.2255	0.090	-	06/17/2024 16:19	MJR,NIC3
80	WG1934470-2 WG1934470	2.500	2.500	2.500	2.6191	2.4297	0.972	-	06/17/2024 16:22	MJR,NIC3
81	I2432290-01 WG1934470	2.500	2.500	2.500	0.2492	0.1483	0.059	-	06/17/2024 16:26	MJR,NIC3
82	WG1934470-3 WG1934470	2.500	2.500	2.500	12.3681	11.8148	4.726	-	06/17/2024 16:29	MJR,NIC3
83	WG1934470-4 WG1934470	2.500	2.500	2.500	0.1896	0.0909	0.036	-	06/17/2024 16:32	MJR,NIC3
84	I2432249-02 WG1934470	2.500	2.500	2.500	0.1297	0.0332	0.013	-	06/17/2024 16:36	MJR,NIC3
85	Check STD(5ug/L)	2.500	2.500	2.500	13.2088	12.6241	5.050	101.0	06/17/2024 16:39	MJR,NIC3
86	Check Blank	2.500	2.500	2.500	0.1273	0.0309	0.012	-	06/17/2024 16:42	MJR,NIC3
87	I2432290-02 WG1934470	2.500	2.500	2.500	0.1478	0.0507	0.020	-	06/17/2024 16:46	MJR,NIC3
88	I2432290-03 WG1934470	2.500	2.500	2.500	0.1664	0.0686	0.027	-	06/17/2024 16:49	MJR,NIC3
89	I2432290-04 WG1934470	2.500	2.500	2.500	0.1479	0.0508	0.020	-	06/17/2024 16:52	MJR,NIC3
90	I2432299-01 WG1934470	2.500	2.500	2.500	0.1164	0.0204	0.008	-	06/17/2024 16:55	MJR,NIC3
91	I2432299-02 WG1934470	2.500	2.500	2.500	0.1788	0.0805	0.032	-	06/17/2024 16:59	MJR,NIC3
92	I2432299-03 WG1934470	2.500	2.500	2.500	0.3695	0.2641	0.106	-	06/17/2024 17:02	MJR,NIC3
93	I2432299-04 WG1934470	2.500	2.500	2.500	0.1586	0.0611	0.024	-	06/17/2024 17:05	MJR,NIC3
94	I2432299-05 WG1934470	2.500	2.500	2.500	0.1296	0.0331	0.013	-	06/17/2024 17:09	MJR,NIC3
95	I2432299-06 WG1934470	2.500	2.500	2.500	0.0939	-0.0012	-0.000	-	06/17/2024 17:12	MJR,NIC3
96	Check STD(5ug/L)	2.500	2.500	2.500	13.2532	12.6668	5.067	101.3	06/17/2024 17:15	MJR,NIC3
97	Check Blank	2.500	2.500	2.500	0.1257	0.0294	0.012	-	06/17/2024 17:19	MJR,NIC3

Title :
Date : 06/18/2024
Name :

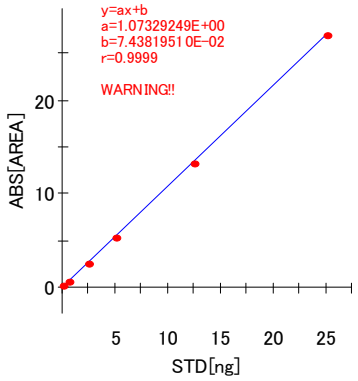
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.1941	0.1115	-	06/18/2024 07:32	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.6922	0.5756	15.1	06/18/2024 07:35	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.7202	2.4651	1.4	06/18/2024 07:38	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.3870	4.9498	1.0	06/18/2024 07:42	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	13.2455	12.2717	1.8	06/18/2024 07:45	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	27.0421	25.1262	0.5	06/18/2024 07:48	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	8.0587	7.4391	2.976	-	06/18/2024 07:52	JWN,NIC3
2	ICB	2.500	2.500	2.500	0.2024	0.1193	0.048	-	06/18/2024 07:56	JWN,NIC3
3	0.2PPB	2.500	2.500	2.500	0.6989	0.5819	0.233	-	06/18/2024 08:01	JWN,NIC3
4	I2430662-12 WG1934434	2.500	2.500	2.500	1.1845	1.0343	0.414	-	06/18/2024 08:42	JWN,NIC3
5	I2432540-01 WG1934503	2.500	2.500	2.500	0.2321	0.1469	0.059	-	06/18/2024 08:57	JWN,NIC3
6	I2432603-02 WG1934503	2.500	2.500	2.500	0.3592	0.2654	0.106	-	06/18/2024 09:00	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	I2432616-07 WG1934503	2.500	2.500	2.500	0.2263	0.1415	0.057	-	06/18/2024 09:03	JWN,NIC3
8	I2432633-03 WG1934503	2.500	2.500	2.500	0.1830	0.1012	0.040	-	06/18/2024 09:07	JWN,NIC3
9	I2432633-04 WG1934503	2.500	2.500	2.500	0.2131	0.1292	0.052	-	06/18/2024 09:10	JWN,NIC3
10	I2432748-01 WG1934503	2.500	2.500	2.500	0.2536	0.1670	0.067	-	06/18/2024 09:13	JWN,NIC3
11	I2432753-01 WG1934503	2.500	2.500	2.500	0.8165	0.6914	0.277	-	06/18/2024 09:17	JWN,NIC3
12	I2432755-01 WG1934503	2.500	2.500	2.500	0.5338	0.4280	0.171	-	06/18/2024 09:20	JWN,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.6404	11.7079	4.683	93.7	06/18/2024 09:34	JWN,NIC3
14	Check Blank	2.500	2.500	2.500	0.4372	0.3380	0.135	-	06/18/2024 09:37	JWN,NIC3
15	I2432780-01 WG1934503	2.500	2.500	2.500	0.2750	0.1869	0.075	-	06/18/2024 09:41	JWN,NIC3
16	WG1934552-1 WG1934552	2.500	2.500	2.500	0.0394	-0.0326	-0.013	-	06/18/2024 10:07	JWN,NIC3
17	WG1934552-2 WG1934552	2.500	2.500	2.500	2.3738	2.1424	0.857	-	06/18/2024 10:11	JWN,NIC3
18	I2432657-01 WG1934552	2.500	2.500	2.500	0.0474	-0.0251	-0.010	-	06/18/2024 10:14	JWN,NIC3
19	WG1934552-3 WG1934552	2.500	2.500	2.500	11.7632	10.8906	4.356	-	06/18/2024 10:17	JWN,NIC3
20	WG1934552-4 WG1934552	2.500	2.500	2.500	0.0428	-0.0294	-0.012	-	06/18/2024 10:21	JWN,NIC3
21	I2432563-03 WG1934552	2.500	2.500	2.500	0.0428	-0.0294	-0.012	-	06/18/2024 10:24	JWN,NIC3
22	I2432580-01 WG1934552	2.500	2.500	2.500	0.0435	-0.0288	-0.012	-	06/18/2024 10:27	JWN,NIC3
23	I2432580-03 WG1934552	2.500	2.500	2.500	0.0462	-0.0263	-0.011	-	06/18/2024 10:31	JWN,NIC3
24	I2432657-02 WG1934552	2.500	2.500	2.500	0.0619	-0.0116	-0.005	-	06/18/2024 10:34	JWN,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	13.0764	12.1141	4.846	96.9	06/18/2024 10:57	JWN,NIC3
26	Check Blank	2.500	2.500	2.500	0.3986	0.3021	0.121	-	06/18/2024 11:00	JWN,NIC3
27	I2432657-03 WG1934552	2.500	2.500	2.500	0.0435	-0.0288	-0.012	-	06/18/2024 11:04	JWN,NIC3
28	I2432676-01 WG1934552	2.500	2.500	2.500	0.0401	-0.0319	-0.013	-	06/18/2024 11:08	JWN,NIC3
29	I2432694-04 WG1934552	2.500	2.500	2.500	0.0486	-0.0240	-0.010	-	06/18/2024 11:11	JWN,NIC3
30	I2432762-01 WG1934552	2.500	2.500	2.500	0.0406	-0.0315	-0.013	-	06/18/2024 11:14	JWN,NIC3
31	I2432762-02 WG1934552	2.500	2.500	2.500	0.0396	-0.0324	-0.013	-	06/18/2024 11:18	JWN,NIC3
32	I2432762-03 WG1934552	2.500	2.500	2.500	0.0425	-0.0297	-0.012	-	06/18/2024 11:21	JWN,NIC3
33	I2432762-04 WG1934552	2.500	2.500	2.500	0.0407	-0.0314	-0.013	-	06/18/2024 11:24	JWN,NIC3
34	I2432762-05 WG1934552	2.500	2.500	2.500	0.0470	-0.0255	-0.010	-	06/18/2024 11:27	JWN,NIC3
35	I2432786-01 WG1934552	2.500	2.500	2.500	0.0412	-0.0309	-0.012	-	06/18/2024 11:31	JWN,NIC3
36	I2432786-02 WG1934552	2.500	2.500	2.500	0.0403	-0.0318	-0.013	-	06/18/2024 11:34	JWN,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.5594	11.6324	4.653	93.1	06/18/2024 11:37	JWN,NIC3
38	Check Blank	2.500	2.500	2.500	0.3966	0.3002	0.120	-	06/18/2024 11:41	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	I2432786-03 WG1934552	2.500	2.500	2.500	0.0378	-0.0341	-0.014	-	06/18/2024 11:45	JWN,NIC3
40	I2432786-04 WG1934552	2.500	2.500	2.500	0.0454	-0.0270	-0.011	-	06/18/2024 11:48	JWN,NIC3
41	WG1935445-1 WG1935445	2.500	2.500	2.500	0.0921	0.0165	0.007	-	06/18/2024 11:51	JWN,NIC3
42	WG1935445-2 WG1935445	2.500	2.500	2.500	2.2699	2.0456	0.818	-	06/18/2024 11:55	JWN,NIC3
43	I2433247-02 WG1935445	2.500	2.500	2.500	0.1073	0.0307	0.012	-	06/18/2024 11:58	JWN,NIC3
44	WG1935445-3 WG1935445	2.500	2.500	2.500	11.4923	10.6382	4.255	-	06/18/2024 12:01	JWN,NIC3
45	WG1935445-4 WG1935445	2.500	2.500	2.500	0.1071	0.0305	0.012	-	06/18/2024 12:05	JWN,NIC3
46	I2432252-01 WG1935445	2.500	2.500	2.500	0.0961	0.0202	0.008	-	06/18/2024 12:08	JWN,NIC3
47	I2432811-01 WG1935445	2.500	2.500	2.500	0.8605	0.7324	0.293	-	06/18/2024 12:11	JWN,NIC3
48	I2433190-02 WG1935445	2.500	2.500	2.500	0.3598	0.2659	0.106	-	06/18/2024 12:14	JWN,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.5575	11.6307	4.652	93.0	06/18/2024 12:18	JWN,NIC3
50	Check Blank	2.500	2.500	2.500	0.3840	0.2885	0.115	-	06/18/2024 12:21	JWN,NIC3
51	WG1935695-1 WG1935695	2.500	2.500	2.500	0.4841	0.3817	0.153	-	06/18/2024 12:31	JWN,NIC3
52	WG1935695-2 WG1935695	2.500	2.500	2.500	2.7677	2.5094	1.004	-	06/18/2024 12:34	JWN,NIC3
53	I2432299-03 WG1935695	2.500	2.500	2.500	1.2610	1.1056	0.442	-	06/18/2024 12:38	JWN,NIC3
54	WG1935695-3 WG1935695	2.500	2.500	2.500	13.2618	12.2869	4.915	-	06/18/2024 12:41	JWN,NIC3
55	WG1935695-4 WG1935695	2.500	2.500	2.500	0.8586	0.7307	0.292	-	06/18/2024 12:44	JWN,NIC3
56	I2432299-01 WG1935695	2.500	2.500	2.500	0.4541	0.3538	0.142	-	06/18/2024 12:48	JWN,NIC3
57	I2432299-02 WG1935695	2.500	2.500	2.500	0.5022	0.3986	0.159	-	06/18/2024 12:51	JWN,NIC3
58	I2432299-04 WG1935695	2.500	2.500	2.500	0.9057	0.7745	0.310	-	06/18/2024 12:54	JWN,NIC3
59	I2432299-05 WG1935695	2.500	2.500	2.500	1.5345	1.3604	0.544	-	06/18/2024 12:57	JWN,NIC3
60	I2432299-06 WG1935695	2.500	2.500	2.500	2.1044	1.8914	0.757	-	06/18/2024 13:01	JWN,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	12.6084	11.6781	4.671	93.4	06/18/2024 13:04	JWN,NIC3
62	Check Blank	2.500	2.500	2.500	0.3598	0.2659	0.106	-	06/18/2024 13:07	JWN,NIC3

Title :
Date : 6/18/2024
Name :

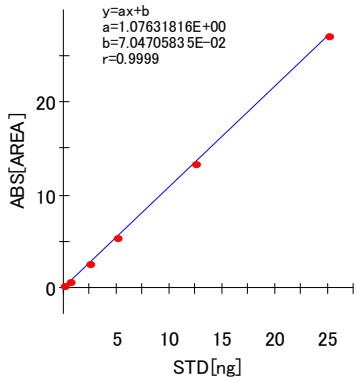
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.1897	0.1108	-	06/18/2024 09:06	MJR,NIC2
2	0.200	2.500	2.500	2.500	0.500	0.6905	0.5761	15.2	06/18/2024 09:09	MJR,NIC2
3	1.000	2.500	2.500	2.500	2.500	2.7217	2.4632	1.5	06/18/2024 09:13	MJR,NIC2
4	2.000	2.500	2.500	2.500	5.000	5.3949	4.9469	1.1	06/18/2024 09:16	MJR,NIC2
5	5.000	2.500	2.500	2.500	12.500	13.2882	12.2805	1.8	06/18/2024 09:19	MJR,NIC2
6	10.000	2.500	2.500	2.500	25.000	27.1103	25.1225	0.5	06/18/2024 09:23	MJR,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	8.1213	7.4800	2.992	-	06/18/2024 09:26	MJR,NIC2
2	ICB	2.500	2.500	2.500	0.1925	0.1134	0.045	-	06/18/2024 09:29	MJR,NIC2
3	0.2 PPB	2.500	2.500	2.500	0.6964	0.5815	0.233	-	06/18/2024 09:33	MJR,NIC2
4	WG1934746-1 WG1934746	2.500	2.500	2.500	0.1874	0.1086	0.043	-	06/18/2024 10:06	MJR,NIC2
5	WG1934746-2 WG1934746	2.500	2.500	2.500	2.7031	2.4460	0.978	-	06/18/2024 10:09	MJR,NIC2
6	I2432550-01 WG1934746	2.500	2.500	2.500	0.1946	0.1153	0.046	-	06/18/2024 10:13	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1934746-3 WG1934746	2.500	2.500	2.500	13.5656	12.5382	5.015	-	06/18/2024 10:16	MJR,NIC2
8	WG1934746-4 WG1934746	2.500	2.500	2.500	0.3893	0.2962	0.118	-	06/18/2024 10:19	MJR,NIC2
9	I2432547-01 WG1934746	2.500	2.500	2.500	0.3252	0.2367	0.095	-	06/18/2024 10:23	MJR,NIC2
10	I2432654-01 WG1934746	2.500	2.500	2.500	0.2262	0.1447	0.058	-	06/18/2024 10:26	MJR,NIC2
11	I2432737-01 WG1934746	2.500	2.500	2.500	0.2104	0.1300	0.052	-	06/18/2024 10:29	MJR,NIC2
12	I2432960-07 WG1934746	2.500	2.500	2.500	0.2110	0.1306	0.052	-	06/18/2024 10:33	MJR,NIC2
13	Check STD(5ug/L)	2.500	2.500	2.500	12.8379	11.8621	4.745	94.9	06/18/2024 10:36	MJR,NIC2
14	Check Blank	2.500	2.500	2.500	0.4084	0.3140	0.126	-	06/18/2024 10:39	MJR,NIC2
15	I2432986-03 WG1934746	2.500	2.500	2.500	0.3158	0.2279	0.091	-	06/18/2024 10:43	MJR,NIC2
16	I2433114-01 WG1934746	2.500	2.500	2.500	0.4404	0.3437	0.137	-	06/18/2024 10:46	MJR,NIC2
17	I2433118-01 WG1934746	2.500	2.500	2.500	0.5851	0.4781	0.191	-	06/18/2024 10:49	MJR,NIC2
18	wg1935029-1 wg1935029	2.500	2.500	2.500	0.0241	-0.0431	-0.017	-	06/18/2024 11:13	MJR,NIC2
19	wg1935029-2 wg1935029	2.500	2.500	2.500	2.5033	2.2603	0.904	-	06/18/2024 11:17	MJR,NIC2
20	L2433348-05 wg1935029	2.500	2.500	2.500	0.0803	0.0091	0.004	-	06/18/2024 11:20	MJR,NIC2
21	wg1935029-3 wg1935029	2.500	2.500	2.500	12.3525	11.4112	4.564	-	06/18/2024 11:23	MJR,NIC2
22	wg1935029-4 wg1935029	2.500	2.500	2.500	0.0602	-0.0095	-0.004	-	06/18/2024 11:27	MJR,NIC2
23	L2433817-01 wg1935029	2.500	2.500	2.500	0.0077	-0.0583	-0.023	-	06/18/2024 11:30	MJR,NIC2
24	L2432778-11 wg1935029	2.500	2.500	2.500	0.0257	-0.0416	-0.017	-	06/18/2024 11:33	MJR,NIC2
25	Check STD(5ug/L)	2.500	2.500	2.500	12.8204	11.8459	4.738	94.8	06/18/2024 11:37	MJR,NIC2
26	Check Blank	2.500	2.500	2.500	0.4001	0.3063	0.123	-	06/18/2024 11:40	MJR,NIC2
27	L2433348-04 wg1935029	2.500	2.500	2.500	0.0678	-0.0025	-0.001	-	06/18/2024 11:44	MJR,NIC2
28	L2433348-06 wg1935029	2.500	2.500	2.500	0.0651	-0.0050	-0.002	-	06/18/2024 11:47	MJR,NIC2
29	WG1934557-1 WG1934557	2.500	2.500	2.500	0.1108	0.0375	0.015	-	06/18/2024 11:50	MJR,NIC2
30	WG1934557-2 WG1934557	2.500	2.500	2.500	2.5983	2.3486	0.939	-	06/18/2024 11:54	MJR,NIC2
31	I2432633-03 WG1934557	2.500	2.500	2.500	0.1540	0.0776	0.031	-	06/18/2024 11:57	MJR,NIC2
32	WG1934557-3 WG1934557	2.500	2.500	2.500	12.1446	11.2180	4.487	-	06/18/2024 12:00	MJR,NIC2
33	WG1934557-4 WG1934557	2.500	2.500	2.500	0.3237	0.2353	0.094	-	06/18/2024 12:04	MJR,NIC2
34	I2432633-01 WG1934557	2.500	2.500	2.500	0.1795	0.1013	0.041	-	06/18/2024 12:07	MJR,NIC2
35	I2432633-02 WG1934557	2.500	2.500	2.500	0.1391	0.0638	0.026	-	06/18/2024 12:10	MJR,NIC2
36	I2432633-04 WG1934557	2.500	2.500	2.500	0.1200	0.0460	0.018	-	06/18/2024 12:14	MJR,NIC2
37	Check STD(5ug/L)	2.500	2.500	2.500	12.8037	11.8304	4.732	94.6	06/18/2024 12:17	MJR,NIC2
38	Check Blank	2.500	2.500	2.500	0.3918	0.2985	0.119	-	06/18/2024 12:20	MJR,NIC2

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No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	xwg1935697-1 wg1935697	2.500	2.500	2.500	2.0179	1.8093	0.724	-	06/18/2024 12:24	MJR,NIC2
40	xwg1935697-2 wg1935697	2.500	2.500	2.500	4.7622	4.3591	1.744	-	06/18/2024 12:27	MJR,NIC2
41	L2432371-03 wg1935697	2.500	2.500	2.500	0.0380	-0.0302	-0.012	-	06/18/2024 12:30	MJR,NIC2
42	wg1935697-3 wg1935697	2.500	2.500	2.500	10.8579	10.0225	4.009	-	06/18/2024 12:33	MJR,NIC2
43	wg1935697-4 wg1935697	2.500	2.500	2.500	0.0383	-0.0299	-0.012	-	06/18/2024 12:37	MJR,NIC2
44	L2432371-04 wg1935697	2.500	2.500	2.500	0.0342	-0.0337	-0.013	-	06/18/2024 12:40	MJR,NIC2
45	WG1935241-1 WG1935241	2.500	2.500	2.500	0.0424	-0.0261	-0.010	-	06/18/2024 12:56	MJR,NIC2
46	WG1935241-2 WG1935241	2.500	2.500	2.500	2.4103	2.1739	0.870	-	06/18/2024 12:59	MJR,NIC2
47	L2432533-03 WG1935241	2.500	2.500	2.500	0.0719	0.0013	0.001	-	06/18/2024 13:03	MJR,NIC2
48	WG1935241-3 WG1935241	2.500	2.500	2.500	12.4650	11.5157	4.606	-	06/18/2024 13:06	MJR,NIC2
49	Check STD(5ug/L)	2.500	2.500	2.500	12.7731	11.8019	4.721	94.4	06/18/2024 13:09	MJR,NIC2
50	Check Blank	2.500	2.500	2.500	0.3855	0.2927	0.117	-	06/18/2024 13:12	MJR,NIC2
51	WG1935241-4 WG1935241	2.500	2.500	2.500	0.0873	0.0156	0.006	-	06/18/2024 13:18	MJR,NIC2
52	L2432533-01 WG1935241	2.500	2.500	2.500	0.0776	0.0066	0.003	-	06/18/2024 13:21	MJR,NIC2
53	L2432533-02 WG1935241	2.500	2.500	2.500	0.1251	0.0508	0.020	-	06/18/2024 13:24	MJR,NIC2
54	wg1935697-1 wg1935697	2.500	2.500	2.500	2.1138	1.8984	0.759	-	06/18/2024 13:31	MJR,NIC2
55	wg1935697-2 wg1935697	2.500	2.500	2.500	4.9001	4.4872	1.795	-	06/18/2024 13:34	MJR,NIC2
56	wg1935327-1 wg1935327	2.500	2.500	2.500	0.0696	-0.0008	-0.000	-	06/18/2024 13:58	MJR,NIC2
57	wg1935327-2 wg1935327	2.500	2.500	2.500	2.4691	2.2286	0.891	-	06/18/2024 14:01	MJR,NIC2
58	wg1935327-3 wg1935327	2.500	2.500	2.500	2.6331	2.3809	0.952	-	06/18/2024 14:04	MJR,NIC2
59	L2432736-01 wg1935327	2.500	2.500	2.500	0.5891	0.4819	0.193	-	06/18/2024 14:07	MJR,NIC2
60	Check STD(5ug/L)	2.500	2.500	2.500	12.6213	11.6609	4.664	93.3	06/18/2024 14:11	MJR,NIC2
61	Check Blank	2.500	2.500	2.500	0.3857	0.2929	0.117	-	06/18/2024 14:14	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

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Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

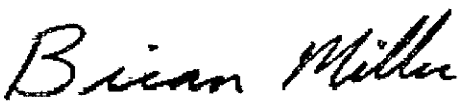
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2PPB
4	10	wg1934414-1 wg1934414
5	11	wg1934414-2 wg1934414
6	12	L2432330-01 wg1934414
7	13	wg1934414-3 wg1934414
8	14	wg1934414-4 wg1934414
9	15	L2432563-01 wg1934414
10	16	L2432791-34 wg1934414
11	17	wg1933925-1 wg1933925
12	18	wg1933925-2 wg1933925
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	L2430662-04 wg1933925
16	22	wg1933925-3 wg1933925
17	23	wg1933925-4 wg1933925
18	24	L2430662-01 wg1933925
19	25	L2430662-02 wg1933925
20	26	L2430662-03 wg1933925
21	27	L2430662-05 wg1933925
22	28	L2430662-06 wg1933925
23	29	L2430662-07 wg1933925
24	30	L2430662-08 wg1933925
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	L2430662-09 wg1933925
28	34	L2430662-10 wg1933925
29	35	L2430662-12 wg1933925
30	36	L2432096-24 wg1933925
31	37	L2432096-59 wg1933925
32	38	L2432392-30 wg1933925
33	39	wg1935100-1 wg1935100
34	40	wg1935100-2 wg1935100
35	41	l2433334-01 wg1935100
36	42	wg1935100-3 wg1935100
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	wg1935100-4 wg1935100
40	46	wg1935184-1 wg1935184
41	47	wg1935184-2 wg1935184
42	48	l2433211-01 wg1935184
43	49	wg1935184-3 wg1935184
44	50	wg1935184-4 wg1935184
45	51	wg1933907-1 wg1933907
46	52	wg1933907-2 wg1933907
47	53	L2432327-02 wg1933907
48	54	wg1933907-3 wg1933907
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	wg1933907-4 wg1933907
52	58	L2432327-01 wg1933907
53	59	L2432327-03 wg1933907
54	60	XWG1934575-1 WG1934575
55	61	XWG1934575-2 WG1934575
56	62	Xl2432252-01 WG1934575
57	63	XWG1934575-3 WG1934575
58	64	XWG1934575-4 WG1934575
59	65	Xl2432811-01 WG1934575
60	66	Xl2433247-02 WG1934575
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	Xl2433247-02 WG1934575
64	70	WG1934503-1 WG1934503
65	71	WG1934503-2 WG1934503
66	72	l2432633-01 WG1934503
67	73	WG1934503-3 WG1934503
68	74	WG1934503-4 WG1934503
69	75	l2432443-01 WG1934503
70	76	l2432633-02 WG1934503
71	77	WG1934503-5 WG1934503
72	78	WG1934503-6 WG1934503
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	XHG2424151148EFMV1
76	2	XHG2424151148EFMV2
77	3	XHG2424151148EFMV1
78	4	XHG2424151148EFMV2
79	5	WG1934470-1 WG1934470
80	6	WG1934470-2 WG1934470
81	7	l2432290-01 WG1934470

82	8	WG1934470-3 WG1934470
83	9	WG1934470-4 WG1934470
84	10	l2432249-02 WG1934470
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	l2432290-02 WG1934470
88	14	l2432290-03 WG1934470
89	15	l2432290-04 WG1934470
90	16	l2432299-01 WG1934470
91	17	l2432299-02 WG1934470
92	18	l2432299-03 WG1934470
93	19	l2432299-04 WG1934470
94	20	l2432299-05 WG1934470
95	21	l2432299-06 WG1934470
96	23	Check STD(5ug/L)
97	24	Check Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2PPB
4	10	l2430662-12 WG1934434
5	11	l2432540-01 WG1934503
6	12	l2432603-02 WG1934503
7	13	l2432616-07 WG1934503
8	14	l2432633-03 WG1934503
9	15	l2432633-04 WG1934503
10	16	l2432748-01 WG1934503
11	17	l2432753-01 WG1934503
12	18	l2432755-01 WG1934503
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	l2432780-01 WG1934503
16	22	WG1934552-1 WG1934552
17	23	WG1934552-2 WG1934552
18	24	l2432657-01 WG1934552
19	25	WG1934552-3 WG1934552
20	26	WG1934552-4 WG1934552
21	27	l2432563-03 WG1934552
22	28	l2432580-01 WG1934552
23	29	l2432580-03 WG1934552
24	30	l2432657-02 WG1934552
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	l2432657-03 WG1934552
28	34	l2432676-01 WG1934552
29	35	l2432694-04 WG1934552
30	36	l2432762-01 WG1934552
31	37	l2432762-02 WG1934552
32	38	l2432762-03 WG1934552
33	39	l2432762-04 WG1934552
34	40	l2432762-05 WG1934552
35	41	l2432786-01 WG1934552
36	42	l2432786-02 WG1934552
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	l2432786-03 WG1934552
40	46	l2432786-04 WG1934552
41	47	WG1935445-1 WG1935445
42	48	WG1935445-2 WG1935445
43	49	l2433247-02 WG1935445
44	50	WG1935445-3 WG1935445
45	51	WG1935445-4 WG1935445
46	52	l2432252-01 WG1935445
47	53	l2432811-01 WG1935445
48	54	l2433190-02 WG1935445
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG1935695-1 WG1935695
52	58	WG1935695-2 WG1935695
53	59	l2432299-03 WG1935695
54	60	WG1935695-3 WG1935695
55	61	WG1935695-4 WG1935695

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2 PPB
4	10	WG1934746-1 WG1934746
5	11	WG1934746-2 WG1934746
6	12	l2432550-01 WG1934746
7	13	WG1934746-3 WG1934746
8	14	WG1934746-4 WG1934746
9	15	l2432547-01 WG1934746
10	16	l2432654-01 WG1934746
11	17	l2432737-01 WG1934746
12	18	l2432960-07 WG1934746
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	l2432986-03 WG1934746
16	22	l2433114-01 WG1934746
17	23	l2433118-01 WG1934746
18	24	wg1935029-1 wg1935029
19	25	wg1935029-2 wg1935029
20	26	L2433348-05 wg1935029
21	27	wg1935029-3 wg1935029
22	28	wg1935029-4 wg1935029
23	29	L2433817-01 wg1935029
24	30	L2432778-11 wg1935029
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	L2433348-04 wg1935029
28	34	L2433348-06 wg1935029
29	35	WG1934557-1 WG1934557
30	36	WG1934557-2 WG1934557
31	37	l2432633-03 WG1934557
32	38	WG1934557-3 WG1934557
33	39	WG1934557-4 WG1934557
34	40	l2432633-01 WG1934557
35	41	l2432633-02 WG1934557
36	42	l2432633-04 WG1934557
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	xwg1935697-1 wg1935697
40	46	xwg1935697-2 wg1935697
41	47	L2432371-03 wg1935697
42	48	wg1935697-3 wg1935697
43	49	wg1935697-4 wg1935697
44	50	L2432371-04 wg1935697
45	51	WG1935241-1 WG1935241
46	52	WG1935241-2 WG1935241
47	53	L2432533-03 WG1935241
48	54	WG1935241-3 WG1935241
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG1935241-4 WG1935241
52	58	L2432533-01 WG1935241
53	59	L2432533-02 WG1935241
54	60	wg1935697-1 wg1935697
55	61	wg1935697-2 wg1935697
56	62	wg1935327-1 wg1935327
57	63	wg1935327-2 wg1935327
58	64	wg1935327-3 wg1935327
59	65	L2432736-01 wg1935327
60	67	Check STD(5ug/L)
61	68	Check Blank

METALS ELN REPORT

Workgroup: WG1934557

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24241219 51HCRV1	METSPIKE	HG24241219320, 344 51HCRV1	

Additional Reagent/Std	K2O8S2	PS2424121723MGM
	KMnO4	PP2424141423ADG
	NaCl-NH2OH.HCl	HH2424122037DJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432633-01 SAMP	06/15/24 09:52	Heidy Rompich	06-12-24 13:15	25		06/15/24 09:52	5	95.0	06/15/24 11:52	25	
L2432633-02 SAMP	06/15/24 09:52	Heidy Rompich	06-12-24 13:15	25		06/15/24 09:52	5	95.0	06/15/24 11:52	25	
L2432633-03 SAMP	06/15/24 09:52	Heidy Rompich	NA	25		06/15/24 09:52	5	95.0	06/15/24 11:52	25	
L2432633-04 SAMP	06/15/24 09:52	Heidy Rompich	NA	25		06/15/24 09:52	5	95.0	06/15/24 11:52	25	
WG1934557-1 BLANK	06/15/24 09:52	Heidy Rompich	NA	25		06/15/24 09:52	5	95.0	06/15/24 11:52	25	
WG1934557-2 LCS	06/15/24 09:52	Heidy Rompich	NA	25	0.25	06/15/24 09:52	5	95.0	06/15/24 11:52	25	
WG1934557-3 MS	06/15/24 09:52	Heidy Rompich	NA	25	1.25	06/15/24 09:52	5	95.0	06/15/24 11:52	25	
WG1934557-4 DUP	06/15/24 09:52	Heidy Rompich	NA	25		06/15/24 09:52	5	95.0	06/15/24 11:52	25	

METALS ELN REPORT

Workgroup: WG1934557

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 18-JUN-24 04:10 PM

METALS ELN REPORT

Workgroup: WG1934503

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24241219 51HCRV1	METSPIKE	HG24241219320, 344 51HCRV1	

Additional Reagent/Std	K2O8S2	PS2424121723MGM
	KMnO4	PP2424141423ADG
	NaCl-NH2OH.HCl	HH2424122037DJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432443-01 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432540-01 WATER	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432603-02 WATER	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432616-07 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432633-01 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432633-02 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432633-03 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432633-04 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432748-01 WATER	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432753-01 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432755-01 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
L2432780-01 SAMP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	

Reported: 18-JUN-24 04:10 PM

METALS ELN REPORT

Workgroup: WG1934503

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1934503-1 BLANK	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	ELN: REB
WG1934503-2 LCS	06/14/24 22:14	Heidy Rompich	25	0.25	06/14/24 22:14	8	95.7	06/15/24 00:14	25	
WG1934503-3 MS	06/14/24 22:14	Heidy Rompich	25	1.25	06/14/24 22:14	8	95.7	06/15/24 00:14	25	
WG1934503-4 DUP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	
WG1934503-5 MS	06/14/24 22:14	Heidy Rompich	25	1.25	06/14/24 22:14	8	95.7	06/15/24 00:14	25	
WG1934503-6 DUP	06/14/24 22:14	Heidy Rompich	25		06/14/24 22:14	8	95.7	06/15/24 00:14	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 18-JUN-24 04:10 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1935984.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.1	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1935984.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.31	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**2.4**	**0.30**	**0.30**	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.2	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 6/19/2024 12:25
Technician: MRM
Work group: WG1936510
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2432633-03	0.617	1.8	1.0	2.417
SAMP	L2432633-04	0.0721	2.2	1.0	2.2
	L2432654-01	0	17	1.6	17
SAMP	L2432737-01	9.14	0.26	1.0	9.4
SAMP	L2432871-01	0.173	1.7	1.0	1.7
SAMP	L2432871-02	0.354	4.7	1.0	5.054
SAMP	L2432960-07	12	0	1.0	12
SAMP	L2433035-01	0.315	2	1.0	2.315
SAMP	L2433035-02	0	3.9	1.0	3.9
SAMP	L2433035-03	0	0.81	1.0	0.81
SAMP	L2433035-04	0.727	1.6	1.0	2.327
SAMP	L2433035-05	0.125	1.1	1.0	1.1
SAMP	L2433035-06	0	0.92	1.0	0.92
SAMP	L2433035-07	0.187	1.9	1.0	1.9
SAMP	L2433035-08	0	2.1	1.0	2.1
SAMP	L2433035-09	0	0	1.0	0
SAMP	L2433035-10	0	1.6	1.0	1.6

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: Total Nitrogen

Method: *Calculation from TKN & NO3/NO2*

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 6/18/2024 15:10
Technician: MRM
Work group: WG1935984
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2431851-01	10.3	12.5	5.0	22.8
SAMP	L2431852-01	1.86	13.18	5.0	15.04
SAMP	L2431854-01	4.4	13.1	5.0	17.5
SAMP	L2431856-01	9.86	4.38	1.0	14.24
	L2431877-01	32.2	0.97	10.0	33.17
	L2431913-01	0.773	0.2	1.0	0.973
	L2431916-01	2.01	1.4	1.0	3.41
SAMP	L2431999-01	0.222	0	1.0	0.222
	L2432047-01	0.821	0.14	1.0	0.961
	L2432047-02	0.448	0.3	1.0	0.748
	L2432047-03	0.705	0.17	1.0	0.875
	L2432047-04	0.4	0.29	1.0	0.69
	L2432047-05	0.302	0.39	1.0	0.692
SAMP	L2432213-01	1.49	1.6	1.0	3.09
SAMP	L2432214-01	1.08	1.6	1.0	2.68
SAMP	L2432633-01	0.121	1.1	1.0	1.1
SAMP	L2432633-02	0.167	0.31	1.0	0.31

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 14:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240616-D	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.121	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 14:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240616-D	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.167	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-B	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.617	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-B	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.072	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934694-1	**Date Collected**	: NA
Client ID	: WG1934694-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/24 14:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240616-D	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934694-3	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11DDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/16/24 14:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240616-D	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.456	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935578-1	**Date Collected**	: NA
Client ID	: WG1935578-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 11:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-B	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.073	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935578-3	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13DDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/19/24 11:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-B	**Instrument ID**	: LACHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.495	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Original Run Filename: OM_6-16-2024_11-51-49AM.OMN Created: 6/16/2024 11:51:49 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-16-2024_11-51-49AM.OMN Last Modified: 6/16/2024 12:21:03 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.38750	97%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.05291	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02150 ✓			
	Known Conc:		100.00000			
HI ICV 8.0	1	1	8.10333		101%	
LO ICV 1.0	1	2	0.98557		99%	
ICB	1	3	0.01535			
WG1934696-1; BLK 6/15	1	4	0.02473		1.50	99%
WG1934696-2; HI LCS; 5X	1	5	19.32028		7.50	
LO LCS	1	6	1.95385		1.50	98%
L2432580-02	1	7	0.12210 ✓		1.50	
WG1934696-4; 32580.2 MS	1	8	4.10863		1.50	$\frac{100}{98}$% (<5+RL)
WG1934696-3; 32580.2 DUP	1	9	0.17959 ✓		1.50	
L2432580-04	1	10	0.06749		1.50	
CCV 0.4000	1	S6	0.38142	95%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08152	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02478 ✓			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Channel 2 (Ammonia High) - Current View

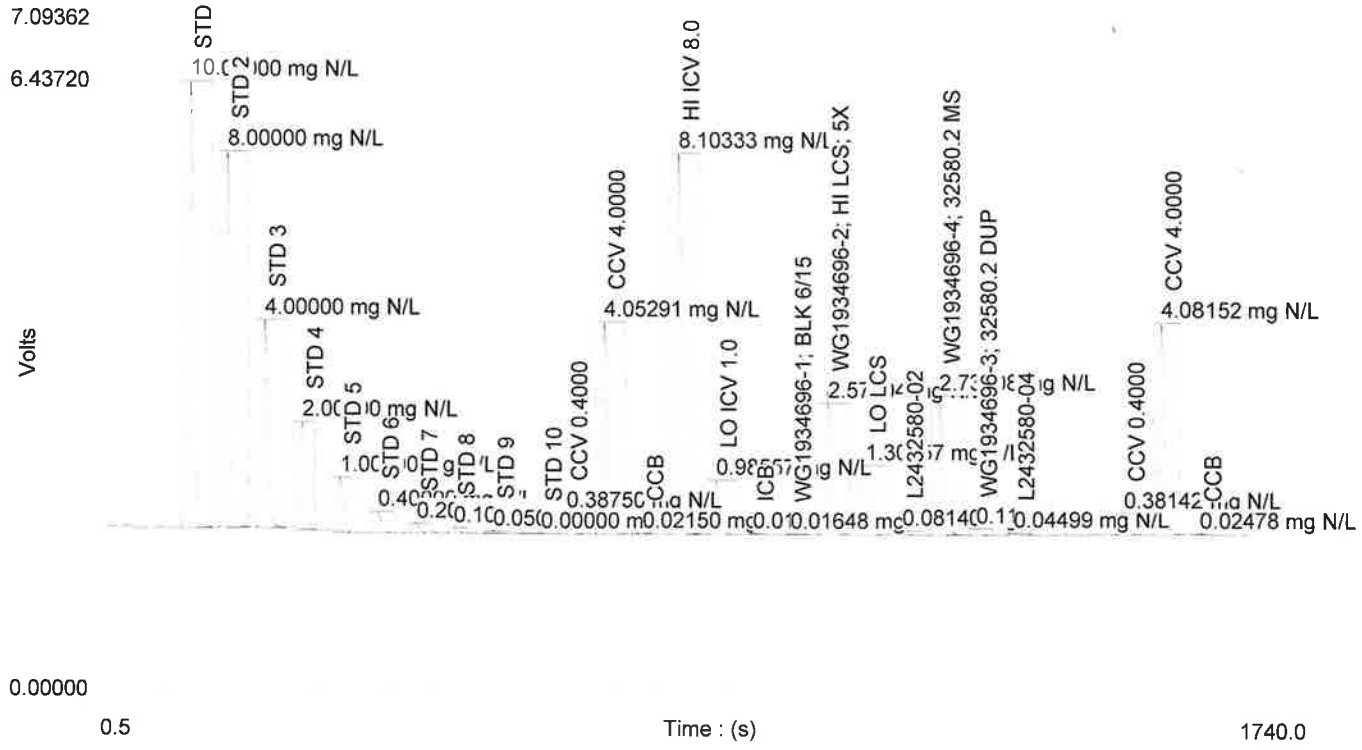
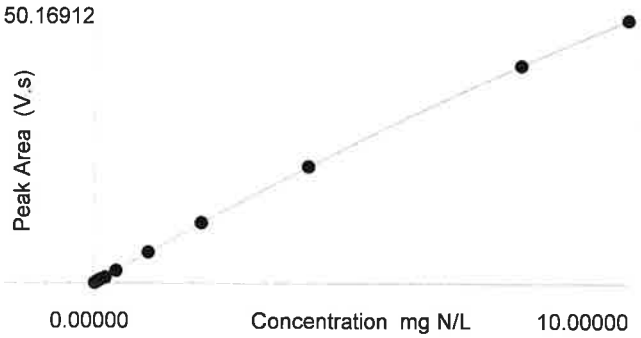


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.16912	4.71568	0.0	-0.1	9.97664	6/16/2024	11:53:29 AM
2	8.00000	1	41.46493	3.97552	0.0	0.2	8.01284	6/16/2024	11:54:25 AM
3	4.00000	1	22.24381	2.19773	0.0	-0.1	4.02282	6/16/2024	11:55:22 AM
4	2.00000	1	11.52279	1.13258	0.0	-0.5	2.00456	6/16/2024	11:56:19 AM
5	1.00000	1	5.90552	0.57452	0.0	-1.4	1.00635	6/16/2024	11:57:17 AM
6	0.40000	1	2.32518	0.22551	0.0	1.2	0.39137	6/16/2024	11:58:15 AM
7	0.20000	1	1.07196	0.10069	0.0	9.2	0.18003	6/16/2024	11:59:13 AM
8	0.10000	1	0.59848	0.05827	0.0	-1.1	0.10071	6/16/2024	12:00:12 PM
9	0.05000	1	0.30682	0.02600	0.0	-3.4	0.05199	6/16/2024	12:01:09 PM
10	0.00000	1	0.01317	0.00268			0.00305	6/16/2024	12:02:05 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Original Run Filename: OM_6-16-2024_12-24-30PM.OMN Created: 6/16/2024 12:24:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-16-2024_12-24-30PM.OMN Last Modified: 6/16/2024 1:08:04 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

(B)

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37058	93%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.04297	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02613			
	Known Conc:		100.00000			
WG1934802-1; BLK 6/15	1	1	0.02080		1.50	99%
WG1934802-2; HI LCS; 5X	1	2	19.36960		7.50	93%
LO LCS	1	3	1.84481		1.50	
WG1934802-7; LOQ1	1	4	0.14472		1.50	
L2431020-01	1	5	0.03006		1.50	
L2431020-02	1	6	0.03846		1.50	98%
WG1934802-4; 31020.2 MS	1	7	3.92186		1.50	
WG1934802-3; 31020.2 DUP	1	8	0.13226		1.50	rpd<(+RL)
L2431020-03	1	9	0.16153		1.50	
L2431020-04	1	10	0.15308		1.50	
CCV 0.4000	1	S6	0.37848	95%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01662	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02644			
	Known Conc:		100.00000			
L2431562-01	~~1~~	~~11~~	~~28.63129~~		~~1.50~~	w/dilution.
L2431562-02	1	~~12~~	~~2.44092~~		~~1.50~~	
L2431603-01	1	13	2.45596		15.00	
WG1934802-6; 31603.1 MS	1	14	40.82888		15.00	96%
WG1934802-5; 31603.1 DUP	1	15	1.91450		15.00	25%
L2431603-02	1	16	1.01503		30.00	
L2431603-03	1	17	2.98504		30.00	
L2431603-04	1	18	0.98007		30.00	
L2431988-01	1	19	0.11086		3.00	
L2431988-02	1	20	0.84493	96%	1.50	
CCV 0.4000	1	S6	0.38352			
	Known Conc:		100.00000	100%		
CCV 4.0000	1	S3	4.00972			
	Known Conc:		100.00000			
CCB	1	S10	0.02973			
	Known Conc:		100.00000			
L2431988-03	1	21	-0.02424		3.00	
L2431988-04	1	22	0.15580		1.50	
L2431805-01	1	23	0.43806		1.50	
L2431805-02	1	24	7.89530		1.50	
L2431805-03	1	25	4.46802		30.00	
L2431805-04	1	26	0.16281		3.00	
L2431805-05	1	27	0.05774		1.50	
L2431805-06	1	28	0.10199		1.50	
L2431562-01; 10X	1	29	30.97404		15.00	
L2431562-02	1	30	1.95017		1.50	
CCV 0.4000	1	S6	0.38490	96%		
	Known Conc:		100.00000	99%		
CCV 4.0000	1	S3	3.95465			
	Known Conc:		100.00000			
CCB	1	S10	0.02704			
	Known Conc:		100.00000			

ms-40ppm

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Channel 2 (Ammonia High) - Current View

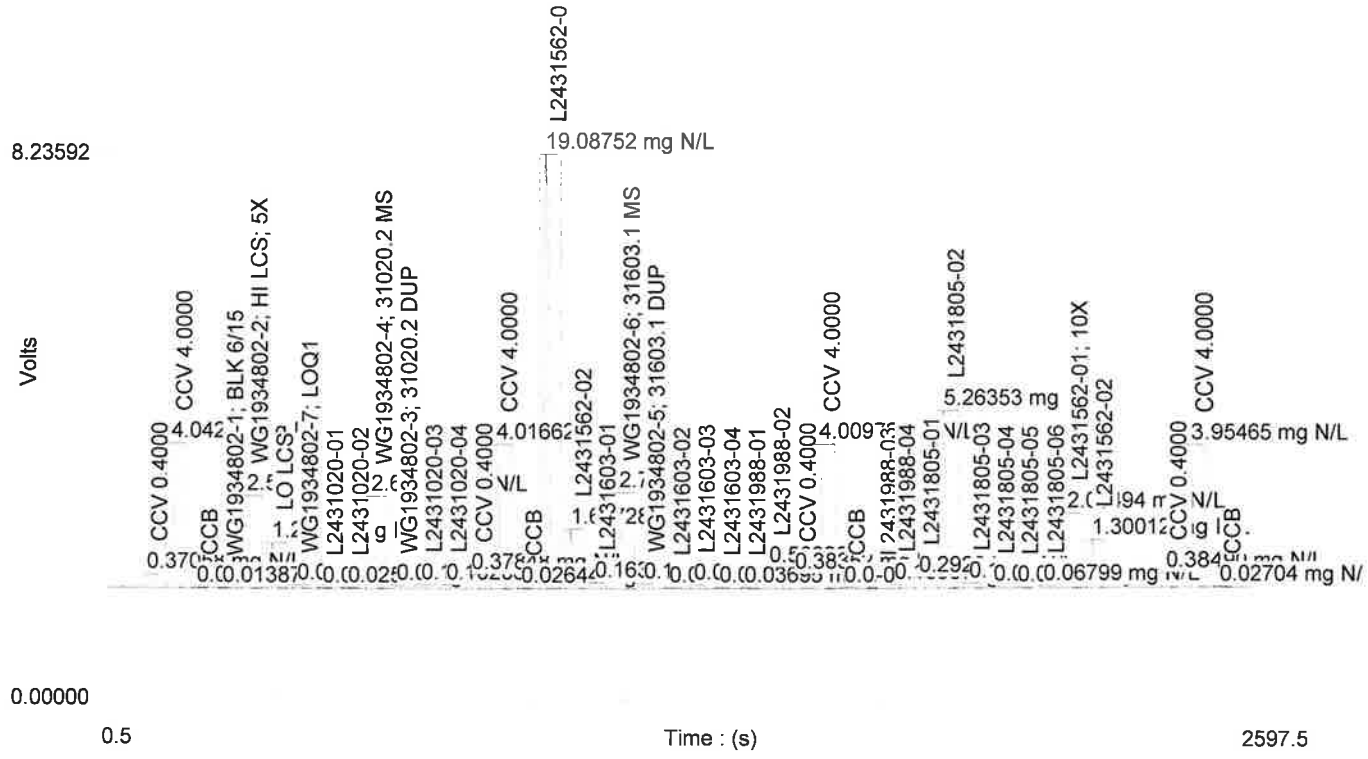
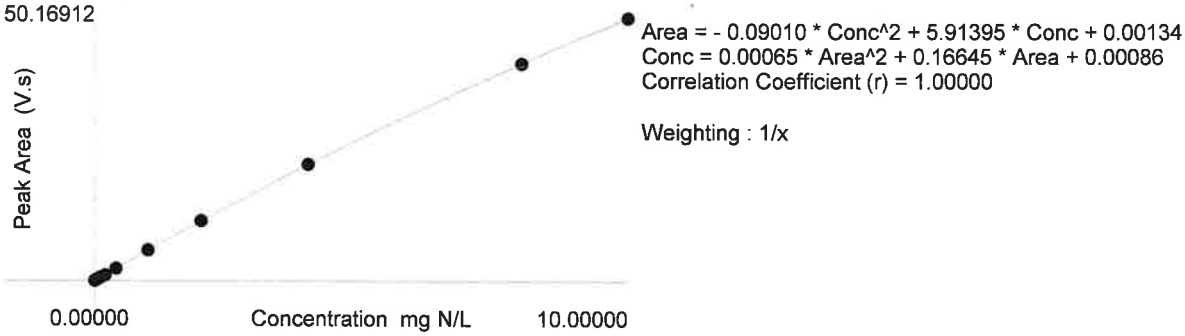


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.16912	4.71568	0.0	-0.1	9.97664	6/16/2024	11:53:29 AM
2	8.00000	1	41.46493	3.97552	0.0	0.2	8.01284	6/16/2024	11:54:25 AM
3	4.00000	1	22.24381	2.19773	0.0	-0.1	4.02282	6/16/2024	11:55:22 AM
4	2.00000	1	11.52279	1.13258	0.0	-0.5	2.00456	6/16/2024	11:56:19 AM
5	1.00000	1	5.90552	0.57452	0.0	-1.4	1.00635	6/16/2024	11:57:17 AM
6	0.40000	1	2.32518	0.22551	0.0	1.2	0.39137	6/16/2024	11:58:15 AM
7	0.20000	1	1.07196	0.10069	0.0	9.2	0.18003	6/16/2024	11:59:13 AM
8	0.10000	1	0.59848	0.05827	0.0	-1.1	0.10071	6/16/2024	12:00:12 PM
9	0.05000	1	0.30682	0.02600	0.0	-3.4	0.05199	6/16/2024	12:01:09 PM
10	0.00000	1	0.01317	0.00268			0.00305	6/16/2024	12:02:05 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Original Run Filename: OM_6-16-2024_01-11-22PM.OMN Created: 6/16/2024 1:11:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-16-2024_01-11-22PM.OMN Last Modified: 6/16/2024 1:58:43 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

C

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37466	94%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00590	100%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02988	✓		
	Known Conc:		100.00000			
WG1934690-1; BLK 6/15	1	1	0.02827		1.50	94%
WG1934690-2; HI LCS; 5X	1	2	18.77166		7.50	
LO LCS	1	3	1.85419		1.50	93%
L2431485-01	1	4	1.00127		1.50	
L2431543-01	1	5	25.77425		1.50	wdilution.
L2431550-01	1	6	1.26704		1.50	
L2431557-02	1	7	0.22428		1.50	
L2431635-01	1	8	16.09823		1.50	
L2431645-01	1	9	24.49215		7.50	
L2431664-01	1	10	0.26689		1.50	
CCV 0.4000	1	S6	0.39300	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01599	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.03673	✓		
	Known Conc:		100.00000			
L2431654-01	1	11	22.87176		7.50	
L2431663-01	1	12	0.29836		1.50	
L2431670-02	1	13	11.12773		1.50	
L2431671-01	1	14	14.89741		7.50	
L2431671-02	1	15	0.25440		1.50	
L2431713-01	1	16	20.96069		7.50	
L2431713-02	1	17	0.27891		1.50	
L2431687-01	1	18	13.67289		1.50	
L2431687-02	1	19	0.53434	✓	1.50	
L2431515-02	1	20	0.74036	✓	1.50	
CCV 0.4000	1	S6	0.39593	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99125	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02792	✓		
	Known Conc:		100.00000			
WG1934690-4; 31515.2 MS	1	21	4.79507		1.50	101%
WG1934690-3; 31515.2 DUP	1	22	0.83700	✓	1.50	93%
L2431679-01	1	23	0.24287		1.50	
L2431683-01	1	24	20.89054		1.50	
L2431645-02	1	25	0.55736		1.50	
L2431543-01; 10X	1	26	26.46035		15.00	
L2431550-01	1	27	0.88056		1.50	
L2431645-01	1	28	22.66489		7.50	
L2431635-01; 10X	1	29	15.99400		15.00	
L2431645-02	1	30	0.17678		1.50	
CCV 0.4000	1	S6	0.38271	96%		
	Known Conc:		100.00000	99%		
CCV 4.0000	1	S3	3.96385			
	Known Conc:		100.00000	✓		
CCB	1	S10	0.02952			
	Known Conc:		100.00000			
L2431683-01; 10X	1	31	20.16811		15.00	
CCV 0.4000	1	S6	0.37601	94%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00384	100%		

		Known Conc:	100.00000
CCB	1	S10	0.02639
		Known Conc:	100.00000

Channel 2 (Ammonia High) - Current View

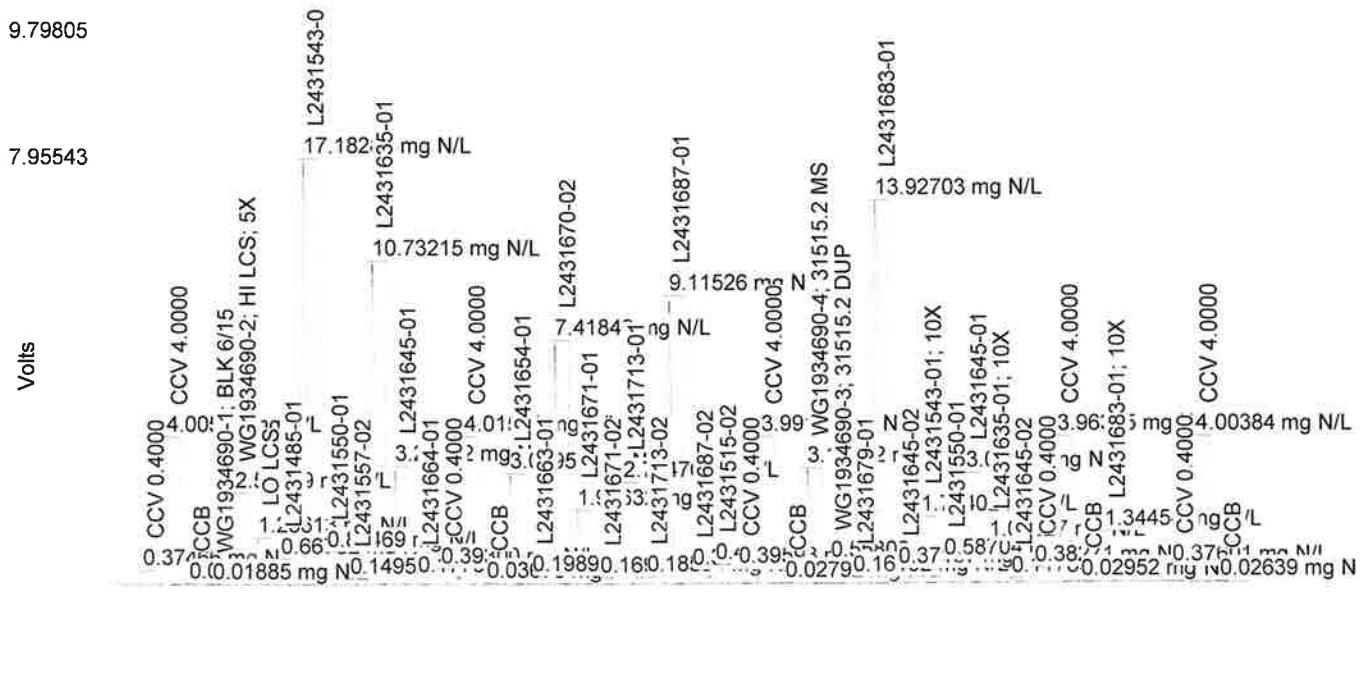


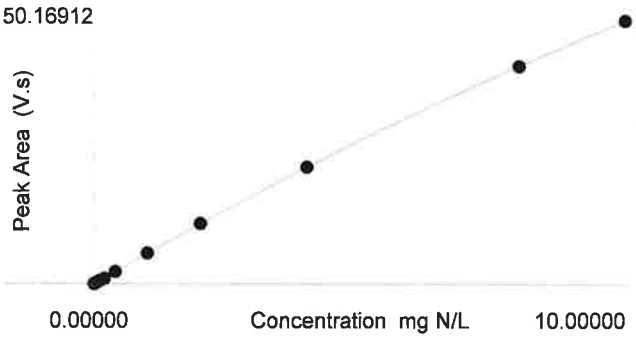
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.16912	4.71568	0.0	-0.1	9.97664	6/16/2024	11:53:29 AM
2	8.00000	1	41.46493	3.97552	0.0	0.2	8.01284	6/16/2024	11:54:25 AM
3	4.00000	1	22.24381	2.19773	0.0	-0.1	4.02282	6/16/2024	11:55:22 AM
4	2.00000	1	11.52279	1.13258	0.0	-0.5	2.00456	6/16/2024	11:56:19 AM
5	1.00000	1	5.90552	0.57452	0.0	-1.4	1.00635	6/16/2024	11:57:17 AM
6	0.40000	1	2.32518	0.22551	0.0	1.2	0.39137	6/16/2024	11:58:15 AM
7	0.20000	1	1.07196	0.10069	0.0	9.2	0.18003	6/16/2024	11:59:13 AM
8	0.10000	1	0.59848	0.05827	0.0	-1.1	0.10071	6/16/2024	12:00:12 PM
9	0.05000	1	0.30682	0.02600	0.0	-3.4	0.05199	6/16/2024	12:01:09 PM
10	0.00000	1	0.01317	0.00268			0.00305	6/16/2024	12:02:05 PM

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Figure : 1 (Ammonia)



Area = - 0.09010 * Conc^2 + 5.91395 * Conc + 0.00134
Conc = 0.00065 * Area^2 + 0.16645 * Area + 0.00086
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Original Run Filename: OM_6-16-2024_01-59-27PM.OMN Created: 6/16/2024 1:59:27 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-16-2024_01-59-27PM.OMN Last Modified: 6/16/2024 2:30:45 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

D

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37000	93%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	98%		
CCV 4.0000	1	S3	3.91447			
	Known Conc:		100.00000			
CCB	1	S10	0.02848	✓		
	Known Conc:		100.00000			
WG1934694-1 T; BLK 6/15	1	1	0.02006			96%
WG1934694-2 T; HI LCS; 5X	1	2	38.32563		15.00	
LO LCS T	1	3	3.98263		3.00	100%
L2432721-01 T	1	4	14.34921		15.00	
L2432352-08 T	1	5	0.46062		3.00	
L2432633-01 T	1	6	0.12108		3.00	
L2432633-02 T	1	7	0.16716	✓	3.00	100%
WG1934694-4 T; 32633.2 MS	1	8	7.97699		3.00	NC (LCS+LCV)
WG1934694-3 T; 32633.2 DUP	1	9	0.45566	✓	3.00	
L2432728-01 T	1	10	0.09884	94%	3.00	
CCV 0.4000	1	S6	0.37566			
	Known Conc:		100.00000	99%		
CCV 4.0000	1	S3	3.94600			
	Known Conc:		100.00000			
CCB	1	S10	0.03032	✓		
	Known Conc:		100.00000			
L2432728-02 T	1	11	0.10286		3.00	
L2432728-03 T	1	12	0.18718		6.00	
L2432728-04 T	1	13	0.26747		3.00	
L2432729-01 T	1	14	1.54689		3.00	
L2432729-02 T	1	15	0.71732		3.00	
L2432729-03 T	1	16	0.31318		3.00	
L2432729-04 T	1	17	0.23422		3.00	
L2432729-05 T	1	18	0.38602		3.00	
L2432729-06 T	1	19	1.07406		3.00	
L2432729-07 T	1	20	0.07501		3.00	
CCV 0.4000	1	S6	0.37463	94%		
	Known Conc:		100.00000	99%		
CCV 4.0000	1	S3	3.95550			
	Known Conc:		100.00000			
CCB	1	S10	0.03135	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Channel 2 (Ammonia High) - Current View

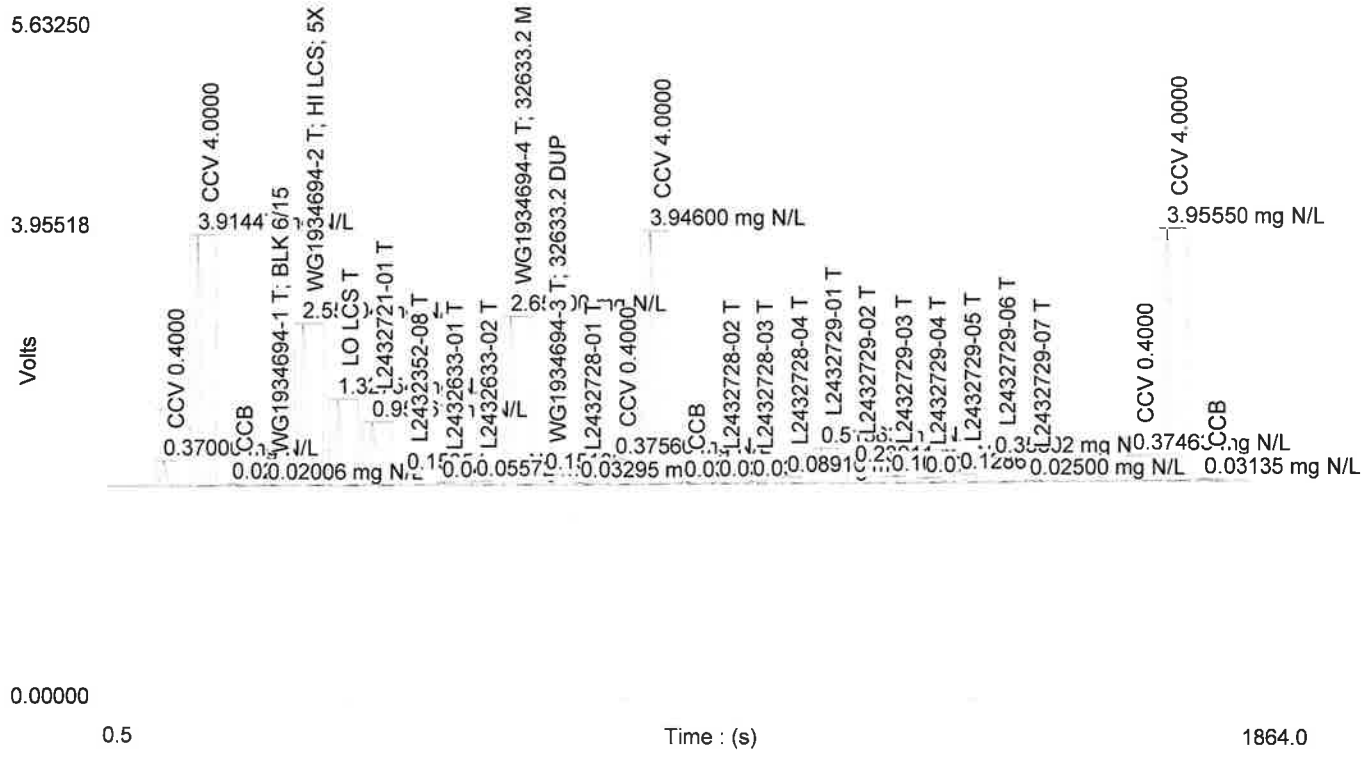
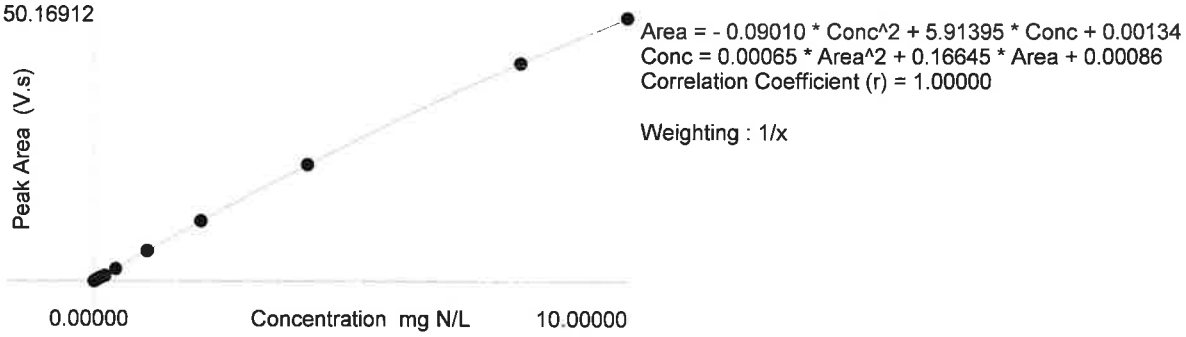


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.16912	4.71568	0.0	-0.1	9.97664	6/16/2024	11:53:29 AM
2	8.00000	1	41.46493	3.97552	0.0	0.2	8.01284	6/16/2024	11:54:25 AM
3	4.00000	1	22.24381	2.19773	0.0	-0.1	4.02282	6/16/2024	11:55:22 AM
4	2.00000	1	11.52279	1.13258	0.0	-0.5	2.00456	6/16/2024	11:56:19 AM
5	1.00000	1	5.90552	0.57452	0.0	-1.4	1.00635	6/16/2024	11:57:17 AM
6	0.40000	1	2.32518	0.22551	0.0	1.2	0.39137	6/16/2024	11:58:15 AM
7	0.20000	1	1.07196	0.10069	0.0	9.2	0.18003	6/16/2024	11:59:13 AM
8	0.10000	1	0.59848	0.05827	0.0	-1.1	0.10071	6/16/2024	12:00:12 PM
9	0.05000	1	0.30682	0.02600	0.0	-3.4	0.05199	6/16/2024	12:01:09 PM
10	0.00000	1	0.01317	0.00268			0.00305	6/16/2024	12:02:05 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Original Run Filename: OM_6-16-2024_02-43-40PM.OMN Created: 6/16/2024 2:43:40 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-16-2024_02-43-40PM.OMN Last Modified: 6/16/2024 3:15:02 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37532	94%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.98755	100%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02704	✓		
	Known Conc:		100.00000			
WG1934693-1 T; BLK 6/15	1	1	0.03945			
WG1934693-2 T; HI LCS; 5X	1	2	38.94919		15.00	97%
LO LCS T	1	3	5.36296		3.00	134%
L2430662-01 T	1	4	1.94532		3.00	
L2430662-02 T	1	5	4.75840		3.00	
L2430662-03 T	1	6	3.36471		3.00	
L2430662-04 T	1	7	3.09037		3.00	
L2430662-05 T	1	8	1.82203		3.00	
L2430662-06 T	1	9	0.44880		3.00	
L2430662-07 T	1	10	1.01244		3.00	
CCV 0.4000	1	S6	0.39851	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.04032	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02999	✓		
	Known Conc:		100.00000			
L2430662-08 T	1	11	4.17097		3.00	
L2430662-09 T	1	12	2.70725		3.00	
L2430662-10 T	1	13	4.55954		3.00	
L2430662-12 T	1	14	0.18841		3.00	
L2432108-01 T	1	15	0.22710		3.00	
L2432108-02 T	1	16	0.90186	✓	3.00	
WG1934693-4 T; 32108.2 MS	1	17	9.45436		3.00	107%
WG1934693-3 T; 32108.2 DUP	1	18	1.21207	✓	3.00	25% (2× RL)
L2432108-03 T	1	19	7.63250		3.00	
L2432108-04 T	1	20	9.28421		3.00	
CCV 0.4000	1	S6	0.40198	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.98560	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.03312	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Channel 2 (Ammonia High) - Current View

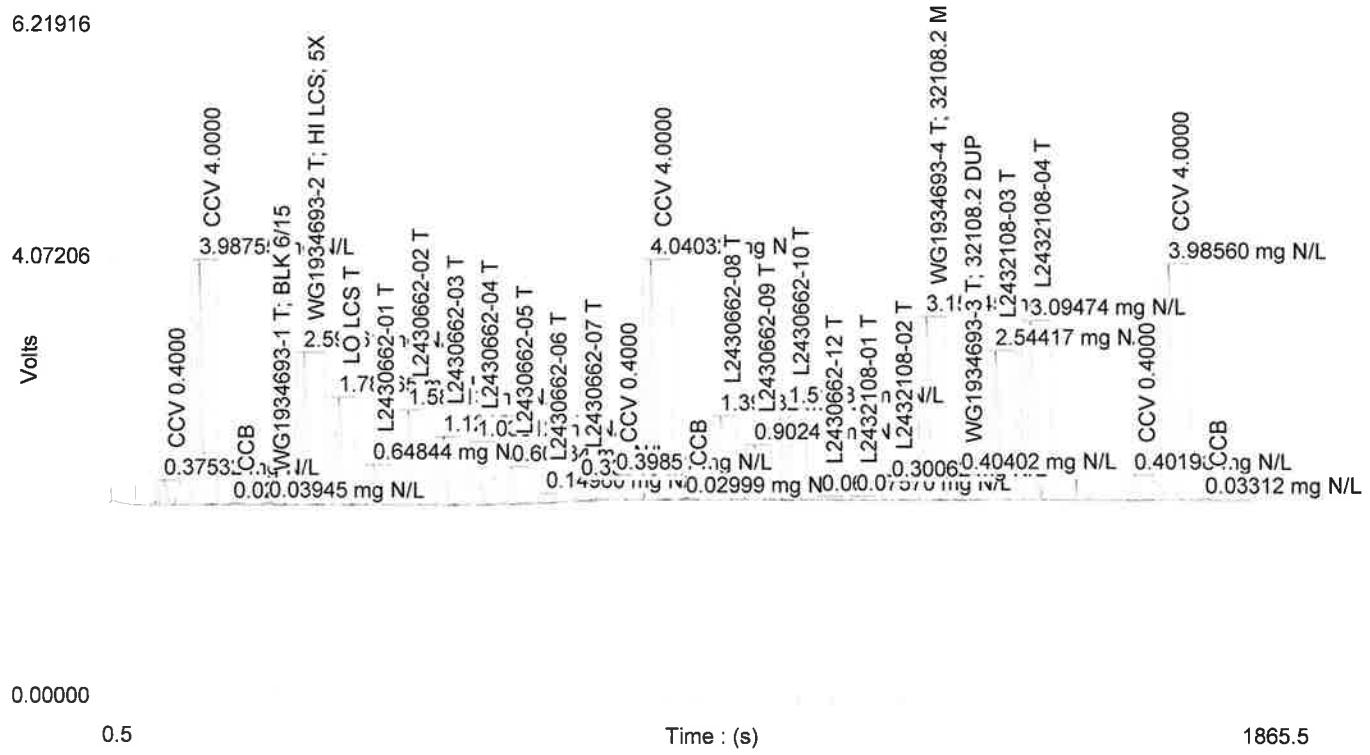
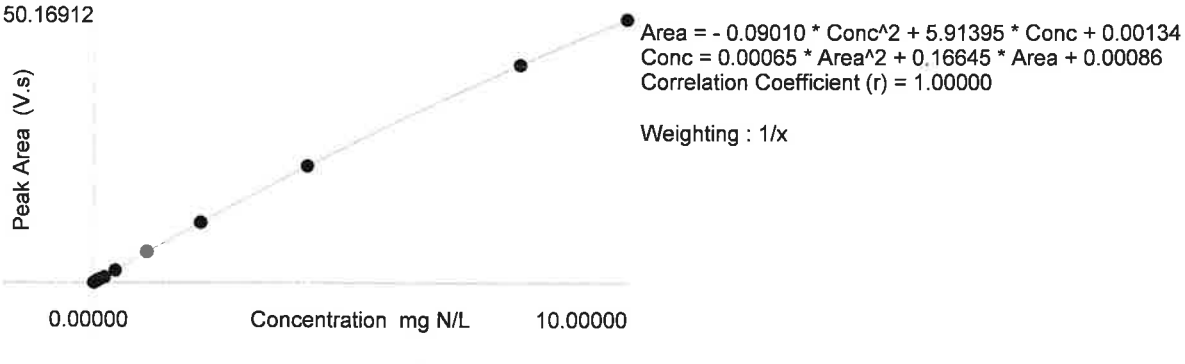


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.16912	4.71568	0.0	-0.1	9.97664	6/16/2024	11:53:29 AM
2	8.00000	1	41.46493	3.97552	0.0	0.2	8.01284	6/16/2024	11:54:25 AM
3	4.00000	1	22.24381	2.19773	0.0	-0.1	4.02282	6/16/2024	11:55:22 AM
4	2.00000	1	11.52279	1.13258	0.0	-0.5	2.00456	6/16/2024	11:56:19 AM
5	1.00000	1	5.90552	0.57452	0.0	-1.4	1.00635	6/16/2024	11:57:17 AM
6	0.40000	1	2.32518	0.22551	0.0	1.2	0.39137	6/16/2024	11:58:15 AM
7	0.20000	1	1.07196	0.10069	0.0	9.2	0.18003	6/16/2024	11:59:13 AM
8	0.10000	1	0.59848	0.05827	0.0	-1.1	0.10071	6/16/2024	12:00:12 PM
9	0.05000	1	0.30682	0.02600	0.0	-3.4	0.05199	6/16/2024	12:01:09 PM
10	0.00000	1	0.01317	0.00268			0.00305	6/16/2024	12:02:05 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Original Run Filename: OM_6-16-2024_03-46-35PM.OMN Created: 6/16/2024 3:46:35 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-16-2024_03-46-35PM.OMN Last Modified: 6/16/2024 4:18:34 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38900	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.94369	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03455			
	Known Conc:		100.00000			
WG1934691-1 T; BLK 6/15	1	1	0.04519			95%
WG1934691-2 T; HI LCS; 5X	1	2	37.98887		15.00	
LO LCS T	1	3	3.89440		3.00	97%
L2431603-01 T	1	4	14.01492		15.00	
WG1934691-4 T; 31603.1 MS	1	5	46.00407		15.00	80%
WG1934691-3 T; 31603.1 DUP	1	6	13.19548		15.00	
L2431603-02 T	1	7	15.55134		15.00	6%
L2431603-04 T	1	8	10.31049		15.00	
L2431805-06 T	1	9	2.15597		3.00	
L2431988-01 T	1	10	2.40568		3.00	
CCV 0.4000	1	S6	0.39924	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89746	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.03220			
	Known Conc:		100.00000			
L2431988-02 T	1	11	1.21565		3.00	
L2431988-03 T	1	12	0.13672		3.00	
L2431988-04 T	1	13	2.41946		3.00	
L2432352-01 T; 10X	1	14	34.75866		30.00	
L2432352-02 T	1	15	9.22133		15.00	
L2432352-03 T	1	16	0.11335		3.00	
L2432352-04 T	1	17	14.81112		3.00	
L2432352-05 T	1	18	0.62639		3.00	
L2432352-06 T	1	19	19.92227		3.00	
L2432352-07 T	1	20	1.85351	95%	3.00	
CCV 0.4000	1	S6	0.37845			
	Known Conc:		100.00000	96%		
CCV 4.0000	1	S3	3.81624			
	Known Conc:		100.00000			
CCB	1	S10	0.03098			
	Known Conc:		100.00000			

MS = 40 ppm

Author: A1WETCHEMINSTRUMENT

Date : 6/16/2024

Channel 2 (Ammonia High) - Current View

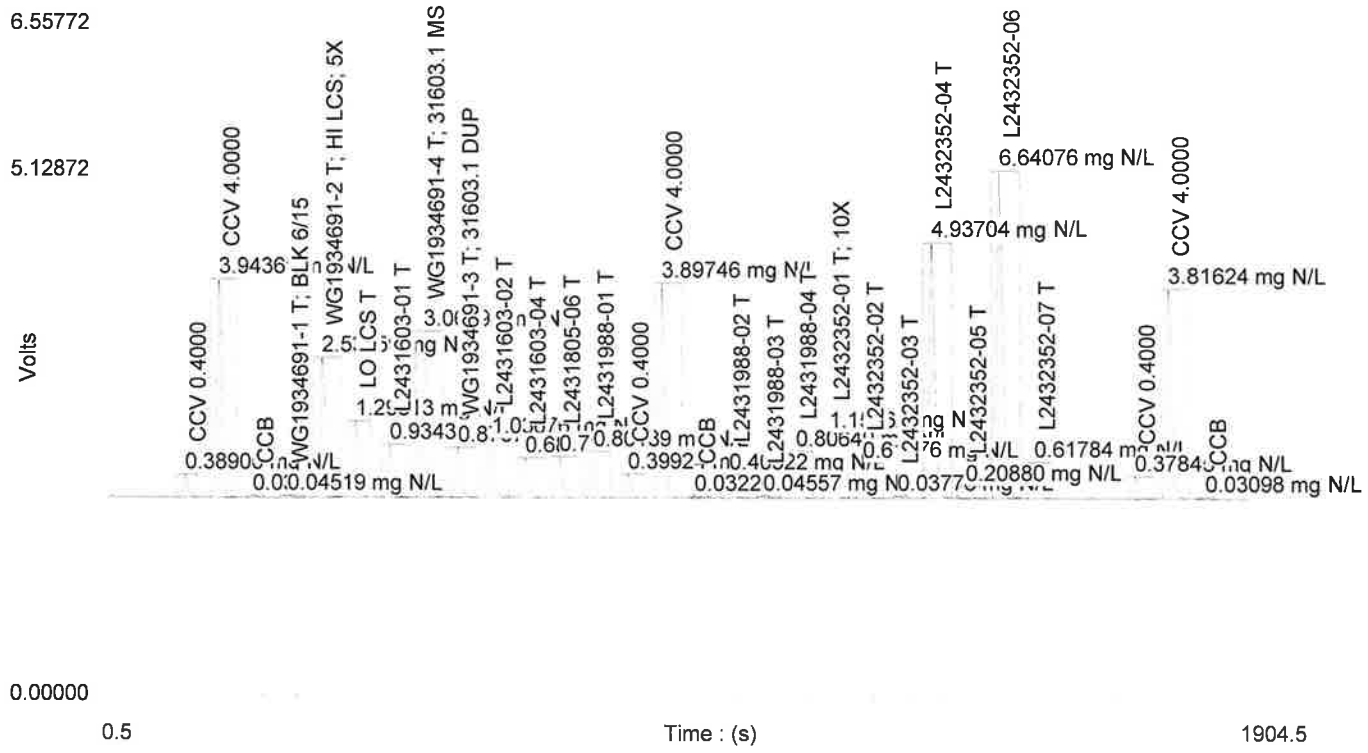
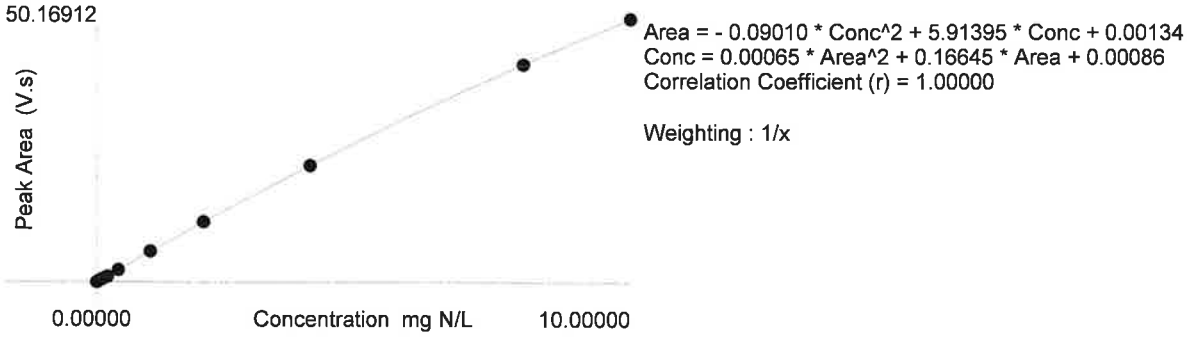


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.16912	4.71568	0.0	-0.1	9.97664	6/16/2024	11:53:29 AM
2	8.00000	1	41.46493	3.97552	0.0	0.2	8.01284	6/16/2024	11:54:25 AM
3	4.00000	1	22.24381	2.19773	0.0	-0.1	4.02282	6/16/2024	11:55:22 AM
4	2.00000	1	11.52279	1.13258	0.0	-0.5	2.00456	6/16/2024	11:56:19 AM
5	1.00000	1	5.90552	0.57452	0.0	-1.4	1.00635	6/16/2024	11:57:17 AM
6	0.40000	1	2.32518	0.22551	0.0	1.2	0.39137	6/16/2024	11:58:15 AM
7	0.20000	1	1.07196	0.10069	0.0	9.2	0.18003	6/16/2024	11:59:13 AM
8	0.10000	1	0.59848	0.05827	0.0	-1.1	0.10071	6/16/2024	12:00:12 PM
9	0.05000	1	0.30682	0.02600	0.0	-3.4	0.05199	6/16/2024	12:01:09 PM
10	0.00000	1	0.01317	0.00268			0.00305	6/16/2024	12:02:05 PM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-19-2024_10-01-48AM.OMN Created: 6/19/2024 10:01:48 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-19-2024_10-01-48AM.OMN Last Modified: 6/19/2024 10:39:29 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38411				96%
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	3.93801				98%
			Known Conc:	100.00000				
	CCB	1	S10	0.02536				
			Known Conc:	100.00000				
	HI ICV 8.0	1	1	8.36022				105%
	LO ICV 1.0	1	2	1.06214				106%
	ICB	1	3	0.00921				
X	WG1935750-1 T	1	4	0.11252				+BLANK, RERUN CONFIRMS
WG1935766	WG1935750-2 T	1	5	37.70078		15.00		94%
	LCS LO T	1	6	4.42669		3.00		
	L2433035-01 T	1	7	0.64223		3.00		
	L2433035-02 T	1	8	0.21531		3.00		
	L2433035-03 T	1	9	0.17653		3.00		
	WG1935750-3 T	1	10	0.09868		3.00		
	CCV 0.4000	1	S6	0.38824				97%
			Known Conc:	100.00000				
	CCV 4.0000	1	S3	3.93761				98%
			Known Conc:	100.00000				
	CCB	1	S10	0.02654				
			Known Conc:	100.00000				
	WG1935750-4 T	1	11	8.28230		3.00		
	L2433035-04 T	1	12	1.05414		3.00		
	L2433035-05 T	1	13	0.45235		3.00		
	L2433035-06 T	1	14	0.39287		3.00		
	L2433035-07 T	1	15	0.51369		3.00		
	L2433035-08 T	1	16	0.04658		3.00		
	L2433035-09 T	1	17	0.11687		3.00		
	L2433035-10 T	1	18	0.25026		3.00		
	L2432654-01 T	1	19	0.53963		15.00		
	L2432737-01 T	1	20	9.46689		3.00		
X	CCV 0.4000	1	S6	0.52655				132%, RERUN OK
			Known Conc:	100.00000				

Author: A1WETCHEMINSTRUMENT Date : 6/19/2024

Channel 2 (Ammonia High) - Current View

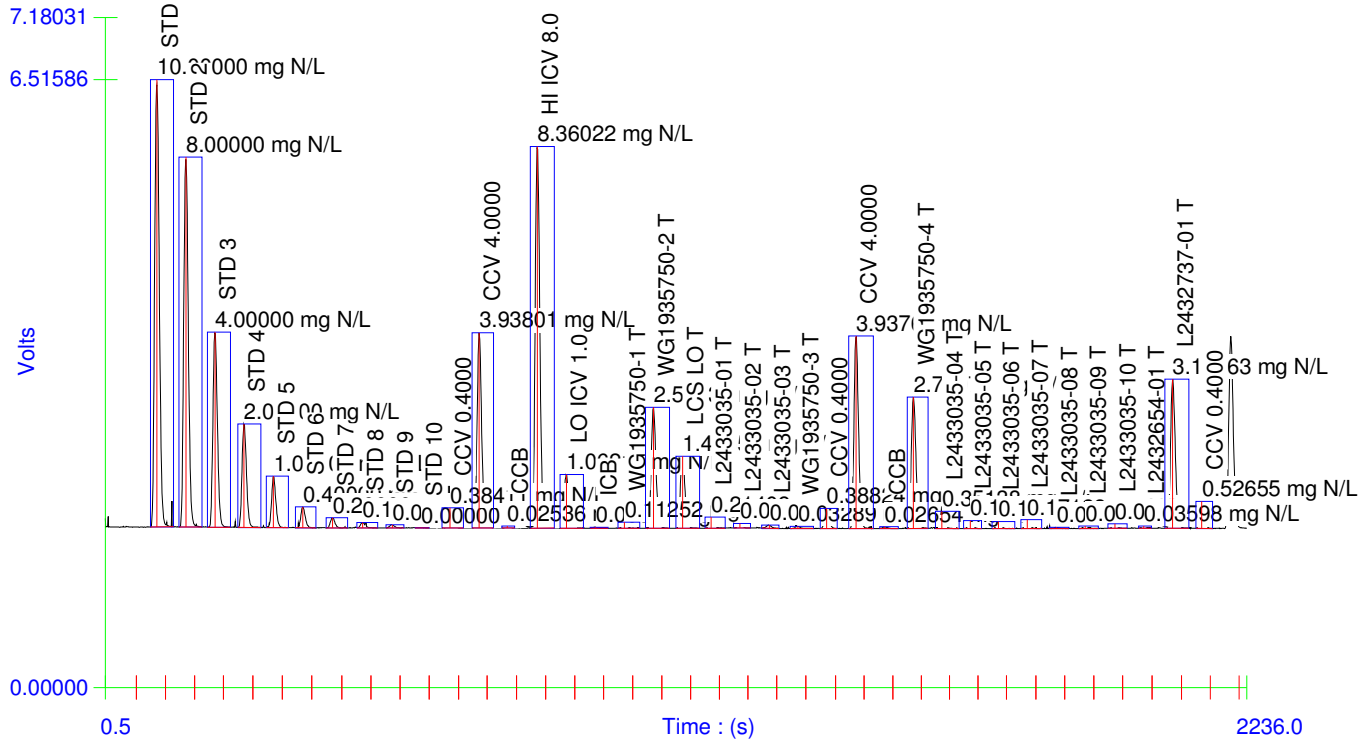
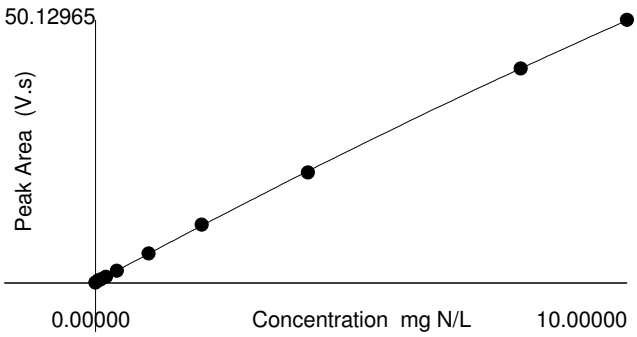


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.12965	4.79572	0.0	-0.2	10.00959	6/19/2024	10:03:00 AM
2	8.00000	1	40.86650	3.96391	0.0	0.1	8.00619	6/19/2024	10:03:57 AM
3	4.00000	1	21.03805	2.09096	0.0	1.3	3.94828	6/19/2024	10:04:54 AM
4	2.00000	1	11.09739	1.10791	0.0	-1.7	2.03217	6/19/2024	10:05:51 AM
5	1.00000	1	5.58096	0.55177	0.0	-0.6	1.00293	6/19/2024	10:06:48 AM
6	0.40000	1	2.28187	0.22341	0.0	-0.2	0.39902	6/19/2024	10:07:46 AM
7	0.20000	1	1.13141	0.11023	0.0	4.1	0.19046	6/19/2024	10:08:44 AM
8	0.10000	1	0.62478	0.05804	0.0	0.8	0.09896	6/19/2024	10:09:43 AM
9	0.05000	1	0.40072	0.03452	0.0	-13.2	0.05856	6/19/2024	10:10:40 AM
10	0.00000	1	0.04268	0.00372			-0.00592	6/19/2024	10:11:37 AM

Figure : 1 (Ammonia)



Area = - 0.05258 * Conc^2 + 5.52181 * Conc + 0.07811
Conc = 0.00040 * Area^2 + 0.17991 * Area - 0.01360
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/19/2024

Original Run Filename: OM_6-19-2024_10-44-20AM.OMN Created: 6/19/2024 10:44:20 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-19-2024_10-44-20AM.OMN Last Modified: 6/19/2024 10:58:21 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
							TRAY A
CCV 0.4000	1	S6	0.37418				94%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.90747				98%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.03192				
	Known Conc:		100.00000				
WG1935750-1 T	1	4	0.10905				+ BLANK CONFIRMS
L2432871-01 T	1	21	0.49970		3.00		
L2432871-02 T	1	22	0.68086		3.00		
L2432960-07 T	1	23	12.32143		3.00		
CCV 0.4000	1	S6	0.43669				109%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.87533				97%
	Known Conc:		100.00000				
CCB	1	S10	0.03646				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

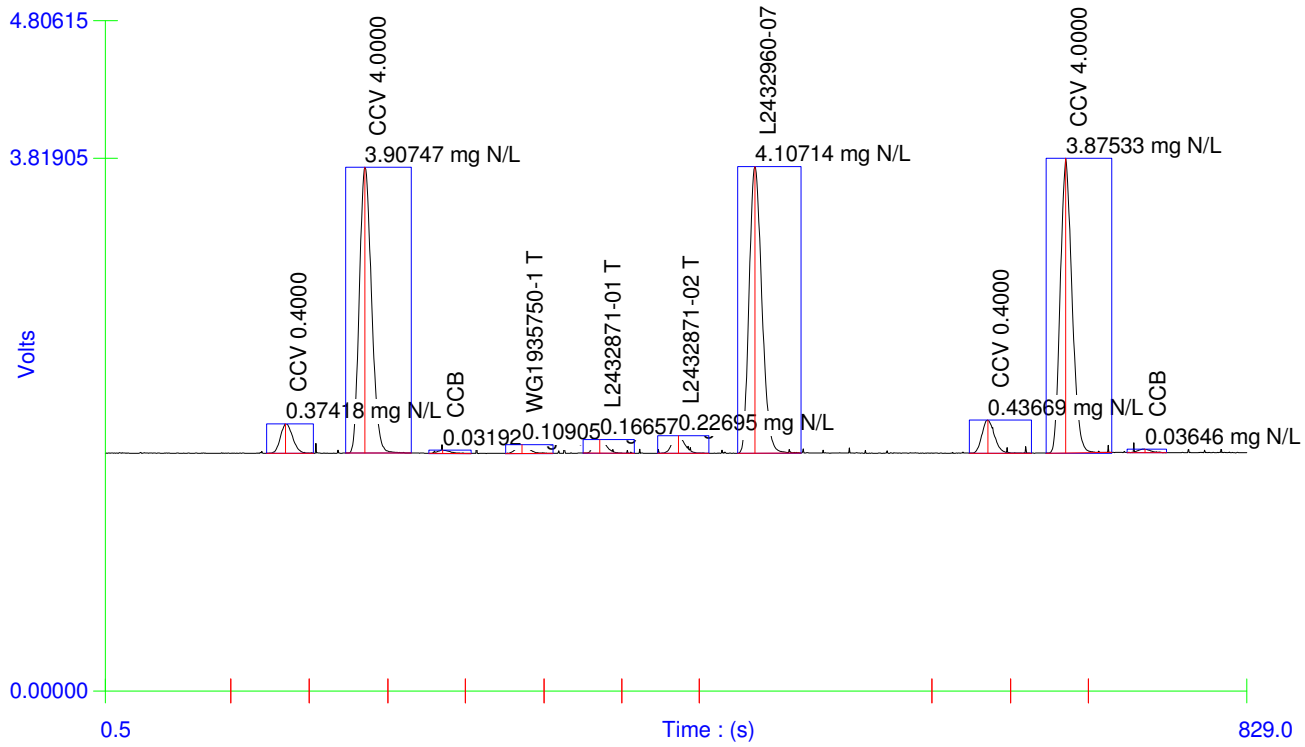
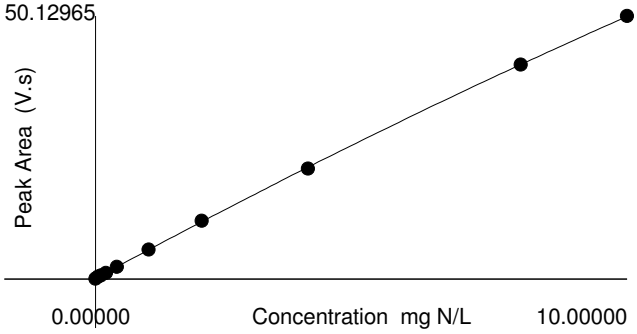


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.12965	4.79572	0.0	-0.2	10.00959	6/19/2024	10:03:00 AM
2	8.00000	1	40.86650	3.96391	0.0	0.1	8.00619	6/19/2024	10:03:57 AM
3	4.00000	1	21.03805	2.09096	0.0	1.3	3.94828	6/19/2024	10:04:54 AM
4	2.00000	1	11.09739	1.10791	0.0	-1.7	2.03217	6/19/2024	10:05:51 AM
5	1.00000	1	5.58096	0.55177	0.0	-0.6	1.00293	6/19/2024	10:06:48 AM
6	0.40000	1	2.28187	0.22341	0.0	-0.2	0.39902	6/19/2024	10:07:46 AM
7	0.20000	1	1.13141	0.11023	0.0	4.1	0.19046	6/19/2024	10:08:44 AM
8	0.10000	1	0.62478	0.05804	0.0	0.8	0.09896	6/19/2024	10:09:43 AM
9	0.05000	1	0.40072	0.03452	0.0	-13.2	0.05856	6/19/2024	10:10:40 AM
10	0.00000	1	0.04268	0.00372			-0.00592	6/19/2024	10:11:37 AM

Figure : 1 (Ammonia)



Area = - 0.05258 * Conc^2 + 5.52181 * Conc + 0.07811
Conc = 0.00040 * Area^2 + 0.17991 * Area - 0.01360
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_6-19-2024_11-00-43AM.OMN Created: 6/19/2024 11:00:43 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-19-2024_11-00-43AM.OMN Last Modified: 6/19/2024 11:32:03 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.38916				97%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.86159				97%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02220				
	Known Conc:		100.00000				
WG1935578-1 T	1	1	0.02417				
WG1935578-2 T	1	2	35.60462		15.00		89%
LCS LO T	1	3	3.82647		3.00		96%
L2430639-01 T	1	4	0.42474		3.00		
L2431805-03 T	1	5	1.28989		3.00		
L2432633-03 T	1	6	0.61739		3.00		
L2432633-04 T	1	7	0.07213		3.00		
WG1935578-4 T	1	8	7.65658		3.00		96%
WG1935578-3 T	1	9	0.49490		3.00		RPD=NC
L2433105-01 T	1	10	0.27233		3.00		
CCV 0.4000	1	S6	0.39286				98%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.90406				98%
	Known Conc:		100.00000				
CCB	1	S10	0.03193				
	Known Conc:		100.00000				
L2433105-02 T	1	11	0.05512		3.00		
L2433105-03 T	1	12	0.46032		3.00		
L2433105-04 T	1	13	0.10145		3.00		
L2433105-05 T	1	14	0.06064		3.00		
L2433105-06 T	1	15	0.14677		3.00		
L2433105-07 T	1	16	0.04091		3.00		
L2433105-08 T	1	17	0.13389		3.00		
L2433105-09 T	1	18	0.01646		3.00		
L2433161-01 T	1	19	0.15457		3.00		
L2433161-02 T	1	20	0.13436		3.00		
CCV 0.4000	1	S6	0.38142				96%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.85302				96%
	Known Conc:		100.00000				
CCB	1	S10	0.02707				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT Date : 6/19/2024

Channel 2 (Ammonia High) - Current View

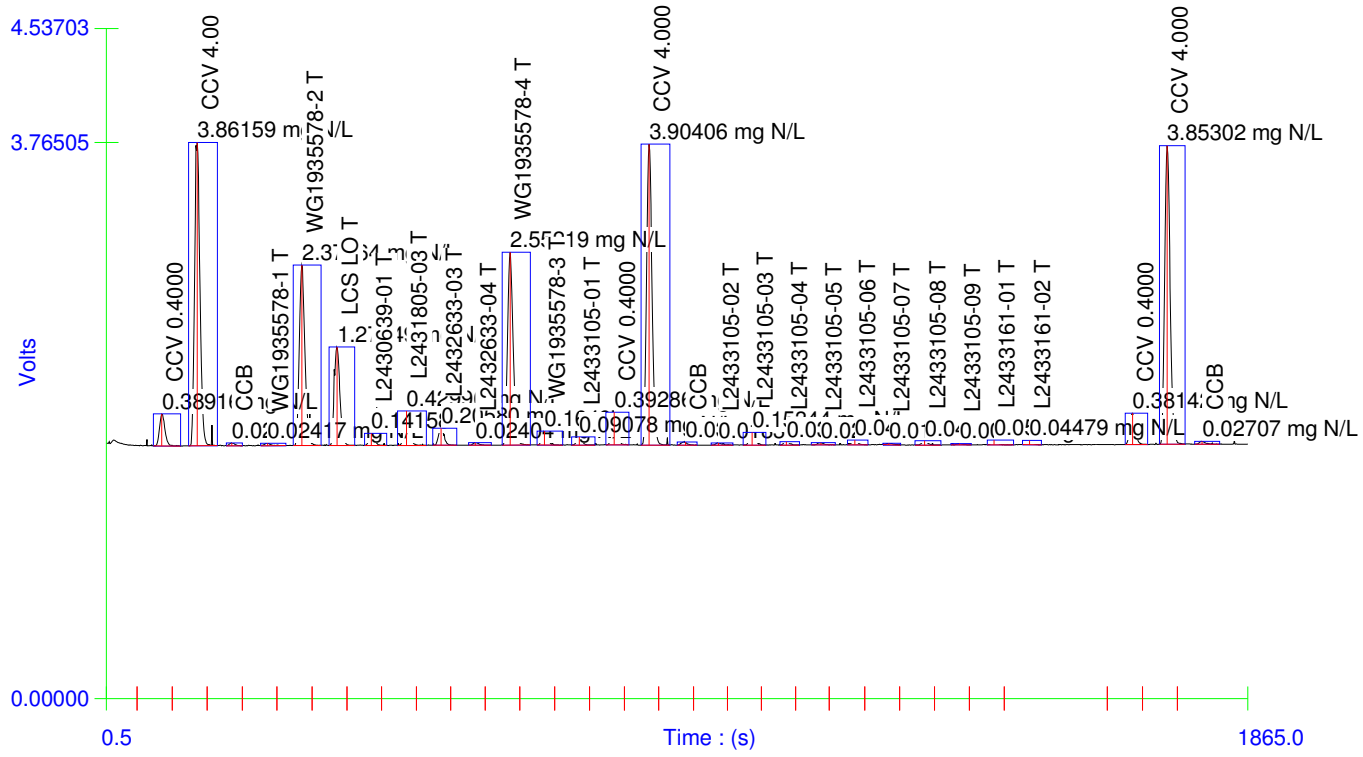
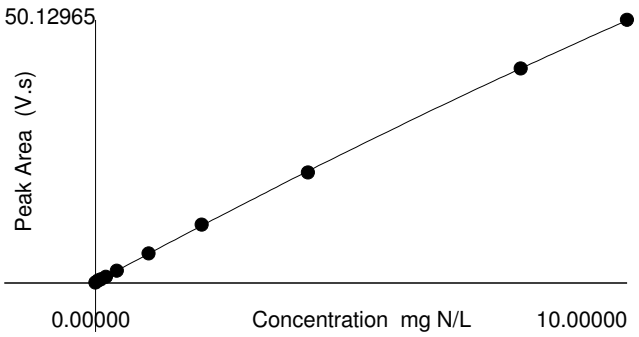


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.12965	4.79572	0.0	-0.2	10.00959	6/19/2024	10:03:00 AM
2	8.00000	1	40.86650	3.96391	0.0	0.1	8.00619	6/19/2024	10:03:57 AM
3	4.00000	1	21.03805	2.09096	0.0	1.3	3.94828	6/19/2024	10:04:54 AM
4	2.00000	1	11.09739	1.10791	0.0	-1.7	2.03217	6/19/2024	10:05:51 AM
5	1.00000	1	5.58096	0.55177	0.0	-0.6	1.00293	6/19/2024	10:06:48 AM
6	0.40000	1	2.28187	0.22341	0.0	-0.2	0.39902	6/19/2024	10:07:46 AM
7	0.20000	1	1.13141	0.11023	0.0	4.1	0.19046	6/19/2024	10:08:44 AM
8	0.10000	1	0.62478	0.05804	0.0	0.8	0.09896	6/19/2024	10:09:43 AM
9	0.05000	1	0.40072	0.03452	0.0	-13.2	0.05856	6/19/2024	10:10:40 AM
10	0.00000	1	0.04268	0.00372			-0.00592	6/19/2024	10:11:37 AM

Figure : 1 (Ammonia)



Area = - 0.05258 * Conc^2 + 5.52181 * Conc + 0.07811
Conc = 0.00040 * Area^2 + 0.17991 * Area - 0.01360
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2432633-02		
Matrix Spike	: WG1934694-4	**MS Analysis Date**	: 06/16/24 14:09
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	0.167J	8	7.98	100					77-111	24

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13D	**Matrix**	: DW
Lab Sample ID	: L2432633-04		
Matrix Spike	: WG1935578-4	**MS Analysis Date**	: 06/19/24 11:11
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	0.072J	8	7.66	96					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2432633-02	**Analysis Date**	: 06/16/24 14:09
Dup Sample ID	: WG1934694-3	**DUP Analysis Date**	: 06/16/24 14:10

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.167J	0.456	NC	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13D	**Matrix**	: DW
Lab Sample ID	: L2432633-04	**Analysis Date**	: 06/19/24 11:10
Dup Sample ID	: WG1935578-3	**DUP Analysis Date**	: 06/19/24 11:12

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.072J	0.495	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934694-2	**LCS Analysis Date**	: 06/16/24 14:04
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**38.3**	**96.**					**78-122**	**24**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: WG1935578-2	**LCS Analysis Date**	: 06/19/24 11:05
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**35.6**	**89.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

tf-A (11-57-49Am)
p-p 6/5/24 P1059

1	Hi FW 8.0
2	Lo FW 1.0
3	ICB
4	WL-193469b-1; Blk 6/15
5	WL-193469b-2; Hi WS Fp
6	6 WS
7	32580.2
8	WL-193469b-4; 32580.2 MS
9	WL-193469b-3; 32580.2 Dup
10	32580.4

tf-B (12-24-30pm)
p-p 6/5/24 P1211

1	WL-193480Z-1; Blk 6/15
2	WL-193480Z-2; Hi WS Fp
3	6 WS
4	WL-193480Z-7; LOQ1
5	31020.1
6	.2
7	WL-193480Z-4; 31020.2 MS
8	WL-193480Z-3; 31020.2 Dup
9	31020.3
10	.4
X 11	31562.1 -10+
X 12	.2
13	31603.1 (10+)
14	WL-193480Z-6; 31603.1 MS
15	WL-193480Z-5; 31603.1 Dup
16	31603.2 (20+)
17	.3 (20+)
18	.4 (20+)
19	31958.1 (2+)
20	.2
21	.3 (2+)
22	.4
23	31805.1
24	.2
25	.3 (20+)
26	.4 (2+)
27	.5
28	.6

Date: 6/16/24
Sodium Phenolate: 5/27/24 R-4065
Sodium Hypochlorate: 5/27/24 stop shop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 R-4076
ICV 1.0: 6/4/24 WC-3433
ICV 8.0:
Cal. Std: 6/4/24 WC-3392
See Front Page for Instructions:

To Page No. ____

tfx.C (01-11-22pm)
Pkg 6/15/24 @ 1057

1 WR-934690.1; Blue 6/15
2 WR-934690.2; Hi ws. ST
3 Lo ws
4 31485.1
5 31543.1 -10T
6 31550.1
7 31557.2
8 31635.1 -10T
9 31645.1 (5T)
10 31664.1
11 31654.1 (5T)
12 31663.1
13 31670.2
14 31671.1 (5T)
15 .2
16 31715.1 (5T)
17 .2
18 31687.1
19 .2
20 31575.2
21 WR-934690.4; 31575.2WS
22 WR-934690.3; 31575.2LS
23 31677.1
24 31683.1 -10T
25 31645.2

tfx.D (01-57-22pm)
Pkg 6/15/24 @ 1127

1 WR-934694.1T; Blue 6/15
2 WR-934694.2T; Hi ws ST
3 Lo ws T
4 32721.1T (5T)
5 32752T
6 32633.1T
7 .2T
8 WR-934694.4T; 32633.2WS
9 WR-934694.3T; 32633.2LS
10 32728.1T
11 .2T
12 .3T (2T)
13 .4T
14 32729.1T
15 .2T
16 .3T
17 .4T
18 .5T
19 .6T
20 .7T

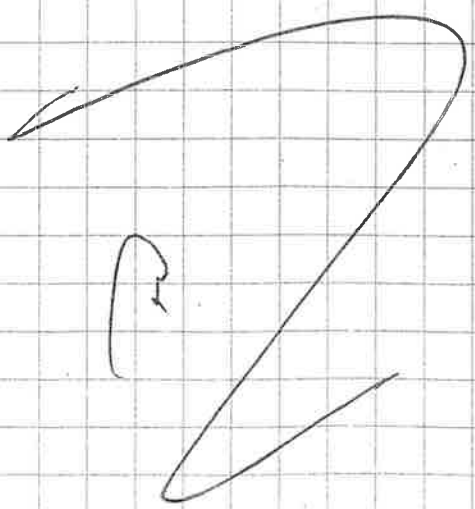
Witnessed & Understood by me, Date
Invented by: Date
Recorded by:

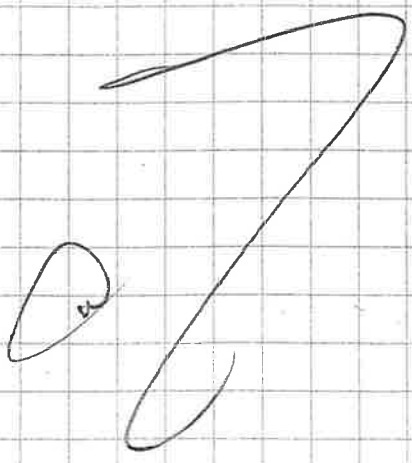
tg-E (02-43-40Pm)
Prep 6/15/24 @ 1121

1 WL-934693-1T-Blu 6/15
2 WL-934693-2T; Hi vis T+P
3 Low T
4 30662.1 T
5 .2 T
6 .3 T
7 .4 T
8 .5 T
9 .6 T
10 .7 T
11 .8 T
12 .9 T
13 .10 T
14 .12 T
15 32108-1 T
16 .2 T
17 WL-934693-4T; 32108.2 MS
18 WL-934693-3T; 32108.2 Dup
19 32108.3 T
20 .4 T

tg-F (03-46-35Pm)
Prep 6/15/24 @ 1116

1 WL-934691-1T-Blu 6/15
2 WL-934691-2T Hi vis T+
3 Low T
4 31603.1 T (5+)
5 WL-934691-4T; 31603.1 MS
6 WL-934691-3T; 31603.1 Dup
7 31603.2 T (5+)
8 .4 T (5+)
9 31805 .6 T
10 31988-1 T
11 .2 T
12 .3 T
13 .4 T
14 32352-1 T -10 +
15 .2 T (5+)
16 .3 T
17 .4 T
18 .5 T
19 .6 T
20 .7 +





To Page No. ____

From Page No. ____

Tray A (10-01-48AM, 10-44-20AM)
prep 6/18/24 @14:17

1	Hi Lev 8.0
2	Lo Lev 1.0
3	ICB
⊗ 4	WG19355750-1T. Blk; reman
5	(5766)-2T. LCS Hi; 5x
6	LCS Lo 7
7	33035-01T
8	-02T
9	-03T
10	-03T Dup
11	-03T MS
12	-04T
13	-05T
14	-06T
15	-07T
16	-08T
17	-09T
18	-10T
19	32654-01T (5x)
20	32737-01T
21	32871-01T
22	-02T
23	32960-07T

Tray B (11-00-43AM)
prep 6/18/24 @9:00

1	WG19355778-1T; Blk
2	-2T; LCS Hi; 5x
3	LCS Lo 7
4	30639-01T
5	31805-03T
6	32633-03T
7	-04T
8	-04T MS
9	-04T Dup
10	33105-01T
11	-02T
12	-03T
13	-04T
14	-05T
15	-06T
16	-07T
17	-08T
18	-09T
19	33161-01T
20	-02T

Date: 6/19/24
Sodium Phenolate: 5/27/24 R-4065
Sodium Hypochlorate: 5/27/24 Staplshop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 R-3969
ICV 1.0:
ICV 8.0: 6/4/24 WC-3433
Cal. Std: 6/4/24 WC-3392
See Front Page for Instructions:

VCP

VCP

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Sample Preparation

TLE _____

From Page No. ____

WG1935578

Sample	vol. 50ml	Dil. 1X	Final vol. 150 mL
Blank			
Low			
High			
L2430639-01			
1805-03			
2633-03			
-04 PA			
-04 Dup			
-04 MS			
3105-01			
-02			
-03			
-04			
-05			
-06			
-07			
-08			
-09			
3161-01			
-02			

Same Standards and reagents as previous page #48

06/18/24 EAB @ 09:00

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

WG1934694

Sample	Vol.	Dil:	Final vol.
	50mL	1X	150 mL
Blank			
Low			
High			
L2432352-08			
2633-01			
-02 PA			
-02 Dup			
-02 MS			
2721-01		5X (10/50) matrix	
2728-01		1X	
-02			
-03		2X (25/50) N=7.7	
-04		1X	
2729-01			
-02			
-03			
-04			
-05			
-06			
-07			

~~Sample vol~~ 06/15/24 ERB

Same standards and reagents as Previous page #40

06/15/24 @ 11:27 ERB

To Page No. ____

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 05:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240613-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.1	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 05:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240613-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.31	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 05:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240613-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.8	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 05:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240613-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**2.2**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933613-1	**Date Collected**	: NA
Client ID	: WG1933613-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/13/24 02:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240613-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933613-3	**Date Collected**	: 06/12/24 09:20
Client ID	: WG1933613-3 DUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/13/24 05:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240613-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.23	0.10	0.05	

Sample Raw Data

Original Run Filename: OM_6-13-2024_02-01-52AM.OMN Created: 6/13/2024 2:01:52 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-13-2024_02-01-52AM.OMN Last Modified: 6/13/2024 7:05:55 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

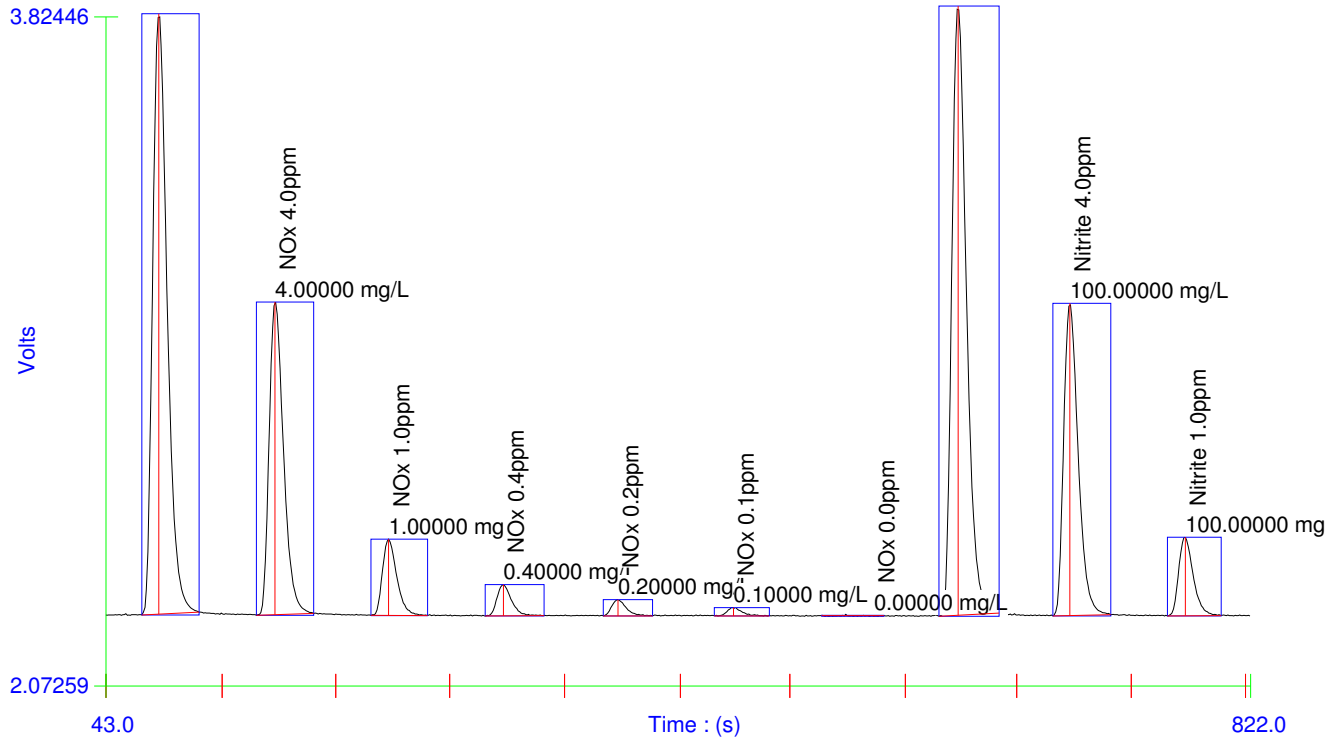
Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	0.99803	-0.01214			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.03803	1.06897			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00938	-0.00986			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.02751	-0.00992			
ICV NO2 5.0	1	2	5.10640	5.08300			
ICV NO3 0.5	1	3	0.50121	-0.01414			
ICV NO2 0.5	1	4	0.50440	0.51886			
ICB	1	5	-0.00030	-0.00589			
DILUTER CHK 8PPM	1	6	8.44520	-0.04453	5.00		
BLK NO3	1	7	-0.00749	-0.01716			
LCS NO3	1	8	5.05924	-0.00947			
BLK NO2	1	9	0.00706	-0.00726			
LCS NO2	1	10	5.13596	5.06048			
CCV NO3	1	S2	1.01011	-0.01795			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04311	1.06650			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00382	-0.01170			
	Known Conc:		0.00000	0.00000			
WG1933605-1; NO2	1	11	0.00491	-0.00608			
WG1933605-2; NO2	1	12	5.12111	5.06753			
WG1933607-1; NO2	1	13	-0.00074	-0.00833			
WG1933607-2; NO2	1	14	5.14336	5.12657			
WG1933609-1; NO3	1	15	-0.00193	-0.01401			
WG1933609-2; NO3	1	16	5.05539	-0.01264			
WG1933610-1; NO3	1	17	-0.00265	-0.00600			
WG1933610-2; NO3	1	18	5.05781	-0.00576			
WG1933611-1; CNO3	1	19	0.01042	-0.00895			
WG1933611-2; CNO3	1	20	5.05082	-0.00806			
CCV NO3	1	S2	1.01401	-0.01202			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05036	1.05660			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00745	-0.00664			
	Known Conc:		0.00000	0.00000			
WG1933612/613-1; CNO3	1	21	-0.00738	-0.00492			
WG1933612/613-2; CNO3	1	22	5.03863	-0.00926			
L2432701-01A	1	23	0.92545	0.50837			
L2432828-01B	1	24	0.00089	-0.01305			
L2432828-02B	1	25	0.00623	-0.01606			
L2432867-01A	1	26	9.23400	0.01135			

L2432867-01A	1	26	9.59097	-0.02296	5.00		
WG1933605-3; DUP NO2 867-01	1	29	9.27716	0.01185			
WG1933605-4; MS NO2 867-01	1	30	12.76668	4.30317			
WG1933609-3; DUP NO3 867-01	1	27	9.62229	-0.00688	5.00		
CCV NO3	1	S2	1.01577	-0.00881			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05492	1.08680			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00532	-0.00894			
	Known Conc:		0.00000	0.00000			
WG1933609-4; MS NO3 867-01	1	28	13.64940	-0.02360	5.00		
L2432868-01P	1	31	1.54250	-0.00308			
L2432868-02P	1	32	1.53500	-0.00597			
L2432868-03P	1	33	1.49630	-0.00145			
L2432868-04P	1	34	1.53574	-0.00344			
L2432885-01A	1	35	11.90434	2.73830			
L2432888-01A	1	36	13.63274	0.53585			
L2432889-01B	1	37	32.24698	0.12787			
WG1933609-5; DUP NO3 889-01	1	38	32.24495	0.12330			
WG1933609-6; MS NO3 889-01	1	39	76.51497	-0.04114	25.00		
CCV NO3	1	S2	1.02706	-0.00620			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04977	1.08339			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00597	-0.00347			
	Known Conc:		0.00000	0.00000			
WG1933605-5; DUP NO2 889-01	1	40	32.38423	0.12357			
WG1933605-6; MS NO2 889-01	1	41	32.69133	4.29657			
L2432885-01A	1	35	12.91682	2.97187	5.00		
L2432888-01A	1	36	14.97985	0.50705	5.00		
L2432889-01B	1	37	72.94738	-0.01710	25.00		
WG1933609-5; DUP NO3 889-01	1	38	73.58340	-0.02957	25.00		
L2432889-01B	1	37	73.59157	-0.04352	25.00		
WG1933605-5; DUP NO2 889-01	1	40	32.40301	0.12504			
L2432888-01A	1	36	15.01870	0.50950	5.00		
L2433034-01B	1	42	3.22667	0.00447			
CCV NO3	1	S2	1.01036	-0.01002			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04957	1.08173			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.01563	-0.00799			
	Known Conc:		0.00000	0.00000			
L2432885-01A	1	35	12.16034	2.88187			
L2433034-02B	1	43	3.33833	0.00555			
L2433034-03B	1	44	3.38569	0.00306			
L2433034-04B	1	45	3.41125	0.00171			
L2433034-05B	1	46	-0.00445	0.01779			
L2433036-02B	1	47	0.66075	0.41002			
L2433083-01B	1	48	6.49295	0.44338			
L2433084-01B	1	49	0.05234	0.01700			
L2433086-01D	1	50	10.31487	2.00856			
L2433087-01B	1	51	3.07112	2.99512			
CCV NO3	1	S2	1.03137	-0.00885			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.07041	1.07973			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00514	-0.00917			
	Known Conc:		0.00000	0.00000			
L2433034-02B	1	43	3.32017	0.00572			
L2433086-01D	1	50	10.96381	2.02283	5.00		
L2433087-01B	1	51	3.06815	2.99370			
L2433093-01B	1	52	0.84445	0.61603			
L2433040-01C	1	53	17.25094	0.01774			
WG1933610-3; DUP NO3 040-01	1	54	17.43587	0.00607			
WG1933610-4; MS NO3 040-01	1	55	19.68086	0.03082			
WG1933607-3; DUP NO2 040-01	1	56	17.20248	0.01373			
WG1933607-4; MS NO2 040-01	1	57	19.69509	4.15146			
L2433040-01C	1	53	20.11566	-0.00566	5.00		

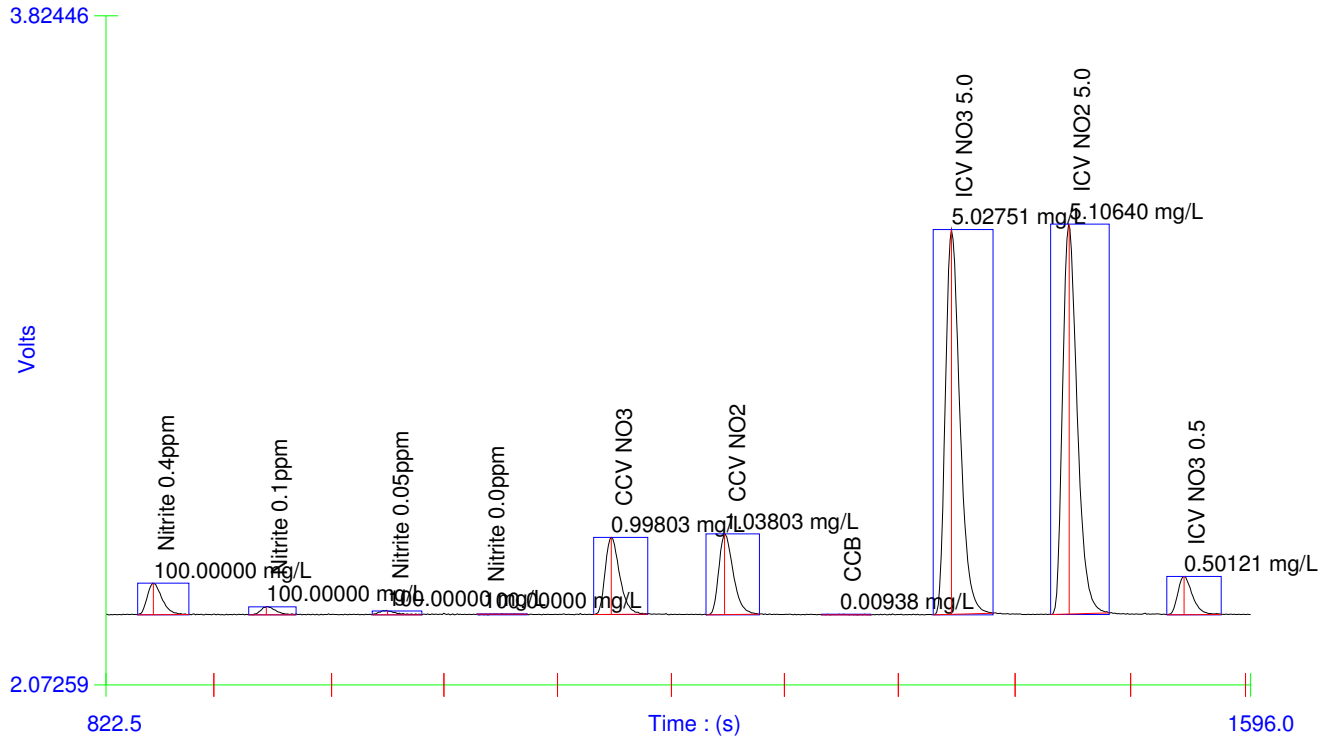
CCV NO3	1	S2	1.03358	-0.00632			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05322	1.08511			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00076	-0.00732			
	Known Conc:		0.00000	0.00000			
WG1933610-3; DUP NO3 040-01	1	54	20.31152	-0.02033	5.00		
WG1933610-4; MS NO3 040-01	1	55	24.03568	0.00301	5.00		
L2433080-01A	1	58	14.30574	1.82675			
L2432047-01B	1	59	0.14961	0.00546			
WG1933611-3; DUP CNO3 047-01	1	60	0.12956	-0.00947			
WG1933611-4; MS CNO3 047-01	1	61	4.15740	0.02206			
L2432047-02B	1	62	0.30523	0.00843			
L2432047-03B	1	63	0.16781	0.00205			
L2433080-01A	1	58	15.77410	1.81271	5.00		
L2432047-01B	1	59	0.13708	0.00400			
CCV NO3	1	S2	1.01292	0.00037			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05817	1.08396			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00033	-0.02357			
	Known Conc:		0.00000	0.00000			
L2432047-04B	1	64	0.29325	0.00922			
L2432047-05B	1	65	0.38646	0.00156			
L2431614-01F	1	66	0.08975	0.00176			
WG1933611-5; DUP CNO3 614-01	1	67	0.07523	-0.00690			
WG1933611-6; MS CNO3 614-01	1	68	4.12461	-0.01095			
L2432121-01A	1	69	0.04873	0.01441			
L2432213-01A	1	70	1.64050	0.00467			
L2432214-01A	1	71	1.56321	0.01319			
L2432351-01A	1	72	0.54789	0.03368			
L2432351-02A	1	73	0.46996	0.01258			
CCV NO3	1	S2	1.02699	-0.01118			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.06953	1.08621			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00756	-0.00614			
	Known Conc:		0.00000	0.00000			
L2432485-02A	1	74	2.94141	1.55362			
L2432541-01E	1	75	0.48727	0.00606			
L2432541-02E	1	76	0.58245	0.02471			
L2432541-03E	1	77	0.06457	0.00118			
L2432547-01L	1	78	1.25986	0.15843			
L2432550-01I	1	79	0.45138	0.02010			
L2432554-02E	1	80	3.80552	0.00166			
L2432654-01J	1	81	15.52164	0.00719			
L2432737-01G	1	82	0.26985	0.19152			
L2432654-01J	1	81	17.41475	-0.02733	5.00		
CCV NO3	1	S2	1.04864	-0.00579			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.08589	1.08872			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00873	-0.00881			
	Known Conc:		0.00000	0.00000			
L2432737-01G	1	82	0.25811	0.18955			
L2432003-01A	1	83	0.76454	0.01515			
WG1933612-3; DUP CNO3 003-01	1	84	0.76131	-0.00725			
WG1933612-4; MS CNO3 003-01	1	85	4.75918	-0.00717			
L2432633-01T	1	86	1.07568	0.00911			
L2432633-02T	1	87	0.31211	0.02030			
L2432633-03T	1	88	1.85790	0.00220			
L2432633-04T	1	89	2.24780	0.00029			
L2432795-11E	1	90	7.30782	0.00523			
L2432795-12E	1	91	3.44058	0.01158			
CCV NO3	1	S2	1.04302	-0.01016			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.07997	1.08367			
	Known Conc:		0.00000	1.00000			

CCB	1	S1	-0.00756	-0.00892			
	Known Conc:		0.00000	0.00000			
L2432795-13E	1	92	5.89323	0.01511			
L2432940-01H	1	93	0.27174	0.13062			
WG1933613-3; DUP CNO3 940-01	1	94	0.23400	0.11018			
WG1933613-4; MS CNO3 940-01	1	95	4.19598	0.11434			
L2432940-02H	1	96	0.03116	0.00279			
WG1933681-1; NO3	1	97	-0.00295	-0.01050			
WG1933681-2; NO3	1	98	5.17132	-0.00707			
WG1933676-1; NO2	1	99	-0.00526	-0.01162			
WG1933676-2; NO2	1	100	5.24804	5.12815			
L2432778-03F	1	101	0.08758	0.02044			
CCV NO3	1	S2	1.05200	-0.00668			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.08221	1.08169			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00472	-0.00935			
	Known Conc:		0.00000	0.00000			
WG1933610-5; DUP NO3 778-03	1	102	0.05982	-0.01063			
WG1933610-6; MS NO3 778-03	1	103	4.13809	0.00173			
L2433073-01A	1	104	6.92995	0.00377			
L2433073-02A	1	105	7.81455	0.01103			
L2433073-03A	1	106	1.16785	0.01396			
L2433073-04A	1	107	0.10002	0.05251			
L2433073-05A	1	108	1.56091	0.01771			
L2433073-06A	1	109	2.13639	0.00977			
L2433073-07A	1	110	6.88335	-0.00949			
L2433136-01D	1	111	0.15033	0.06668			
CCV NO3	1	S2	1.03413	-0.01377			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.08070	1.08910			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00549	-0.00750			
	Known Conc:		0.00000	0.00000			
WG1933681-3; DUP NO3 136-01	1	112	0.13804	0.06123			
WG1933681-4; MS NO3 136-01	1	113	4.17662	0.06391			
WG1933676-3; DUP NO2 136-01	1	114	0.15121	0.07510			
WG1933676-4; MS NO2 136-01	1	115	4.33464	3.40927			
L2433136-02D	1	116	0.02911	0.00756			
L2433136-03D	1	117	-0.02451	0.03353			
L2433136-04D	1	118	0.41480	0.03872			
L2433136-05D	1	119	35.07961	0.08515			
L2433136-06D	1	120	-0.00101	0.01721			
L2433136-07D	1	121	0.08246	0.03219			
CCV NO3	1	S2	1.04680	-0.00962			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.08007	1.09641			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.01317	-0.00651			
	Known Conc:		0.00000	0.00000			
L2433136-08D	1	122	0.83084	0.00991			
L2433136-09D	1	123	0.03348	0.00292			
L2433136-05D	1	119	92.70082	0.01113	10.00		
L2433136-05D	1	119	95.13788	-0.11177	25.00		
L2433136-03D	1	117	0.10268	0.04384			
L2433136-06D	1	120	0.15887	0.03705			
WG1933676-4; MS NO2 136-01	1	115	4.41195	4.25466			
L2433073-05A	1	108	1.62078	0.01085			
L2433136-06D	1	120	0.15977	0.04329			
CCV NO3	1	S2	1.05251	-0.00941			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.09207	1.09575			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00692	-0.00609			
	Known Conc:		0.00000	0.00000			

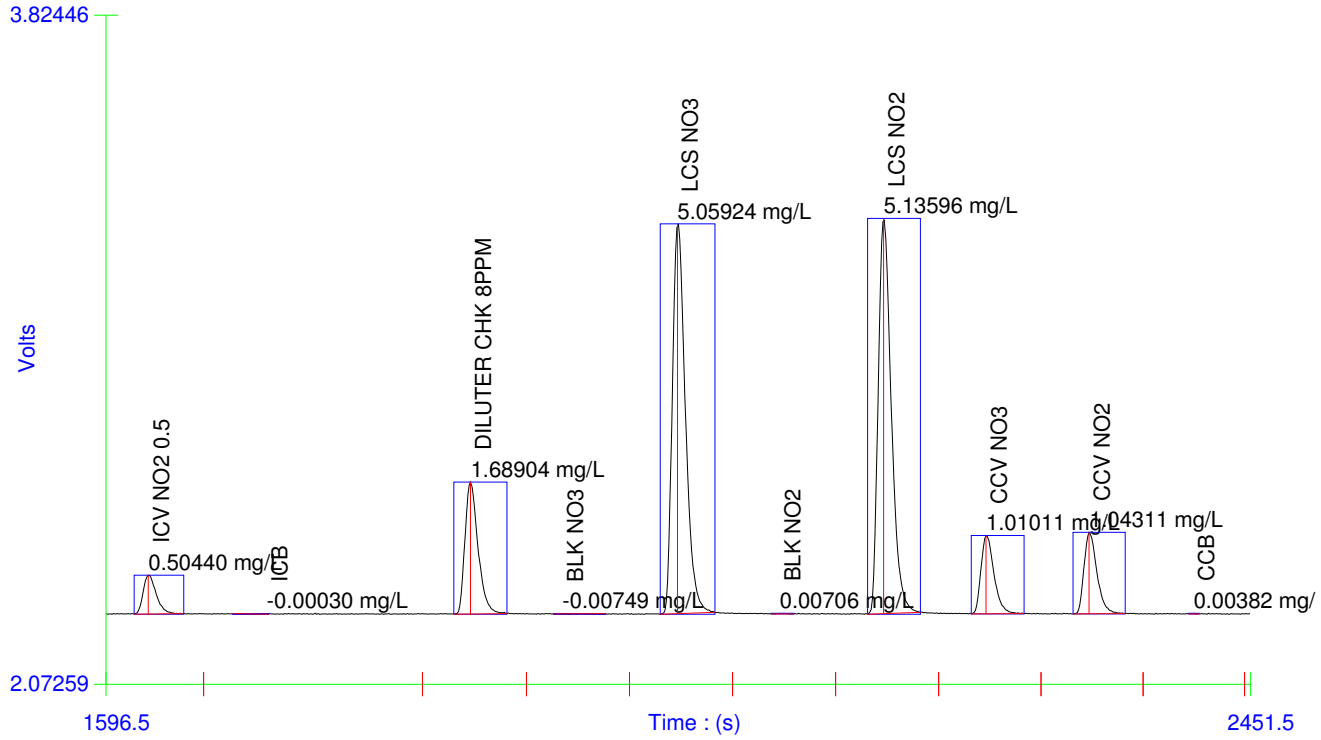
Channel 1 (NO3+NO2) - Set: 1 / 22



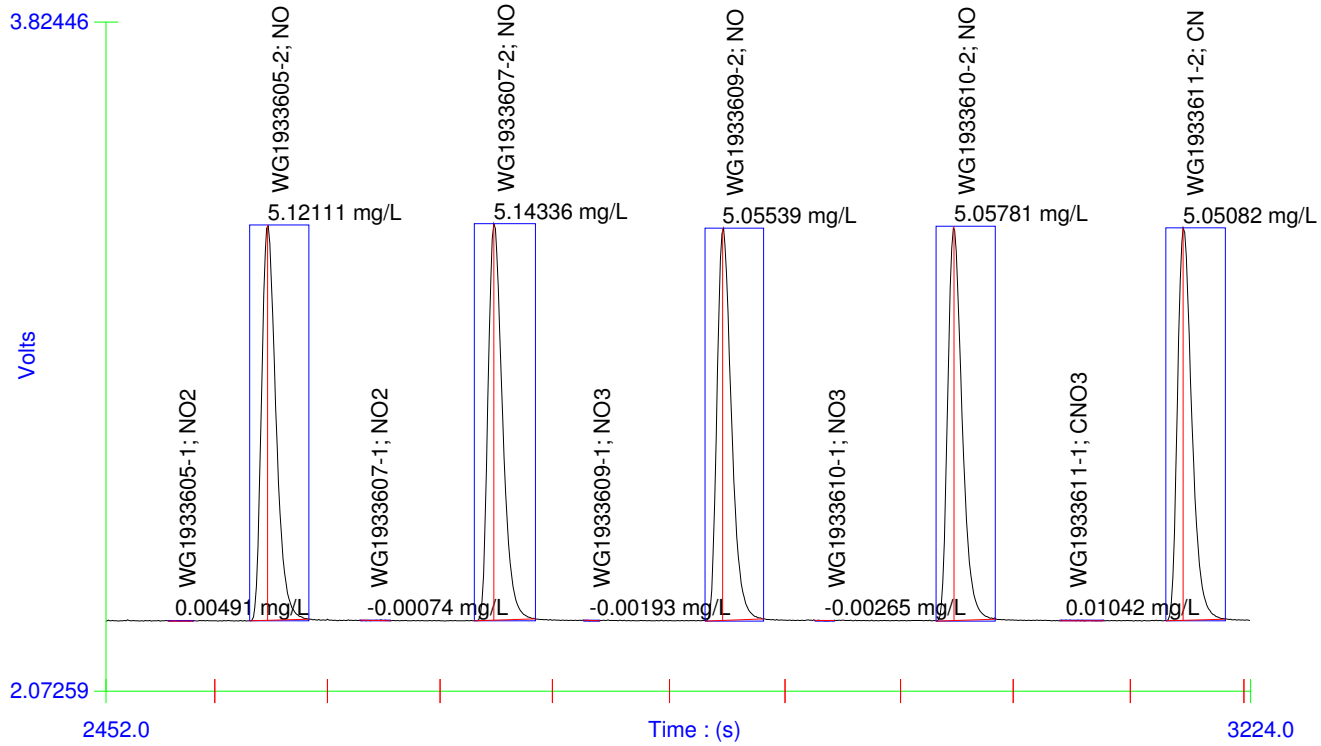
Channel 1 (NO3+NO2) - Set: 2 / 22



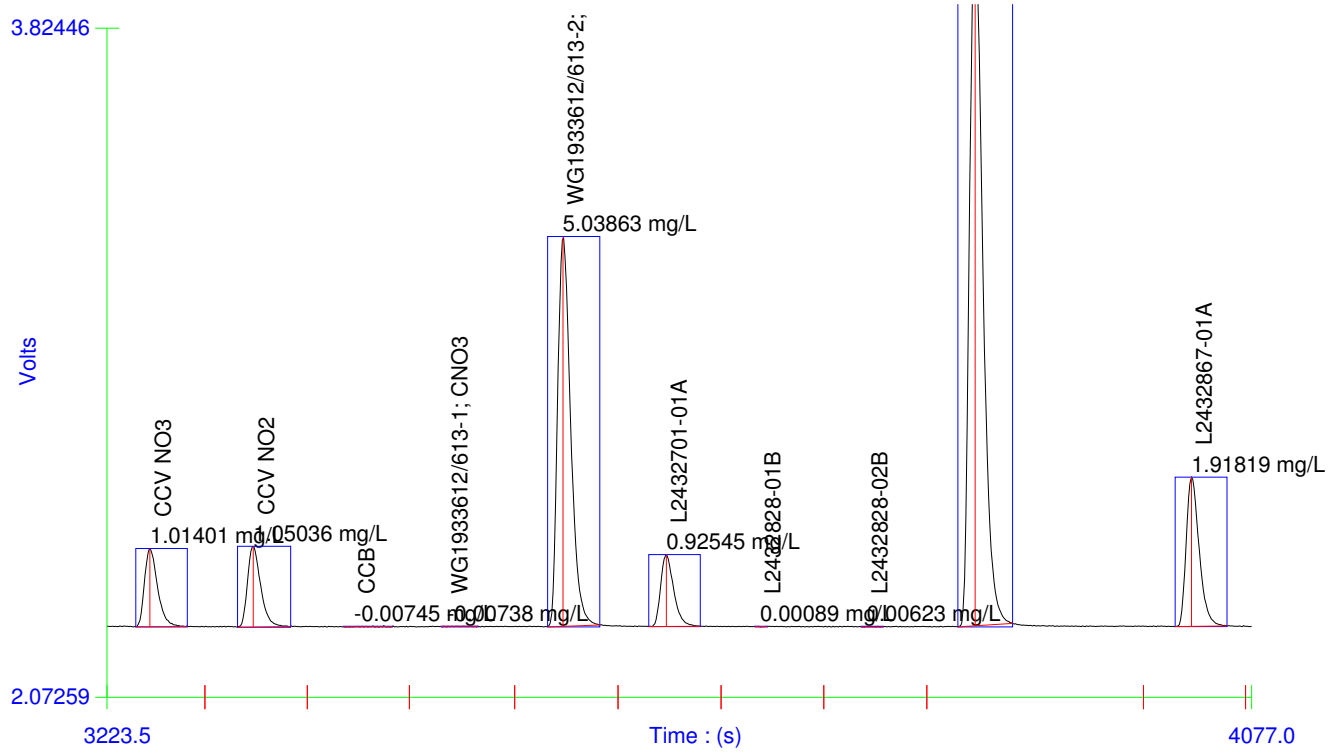
Channel 1 (NO3+NO2) - Set: 3 / 22



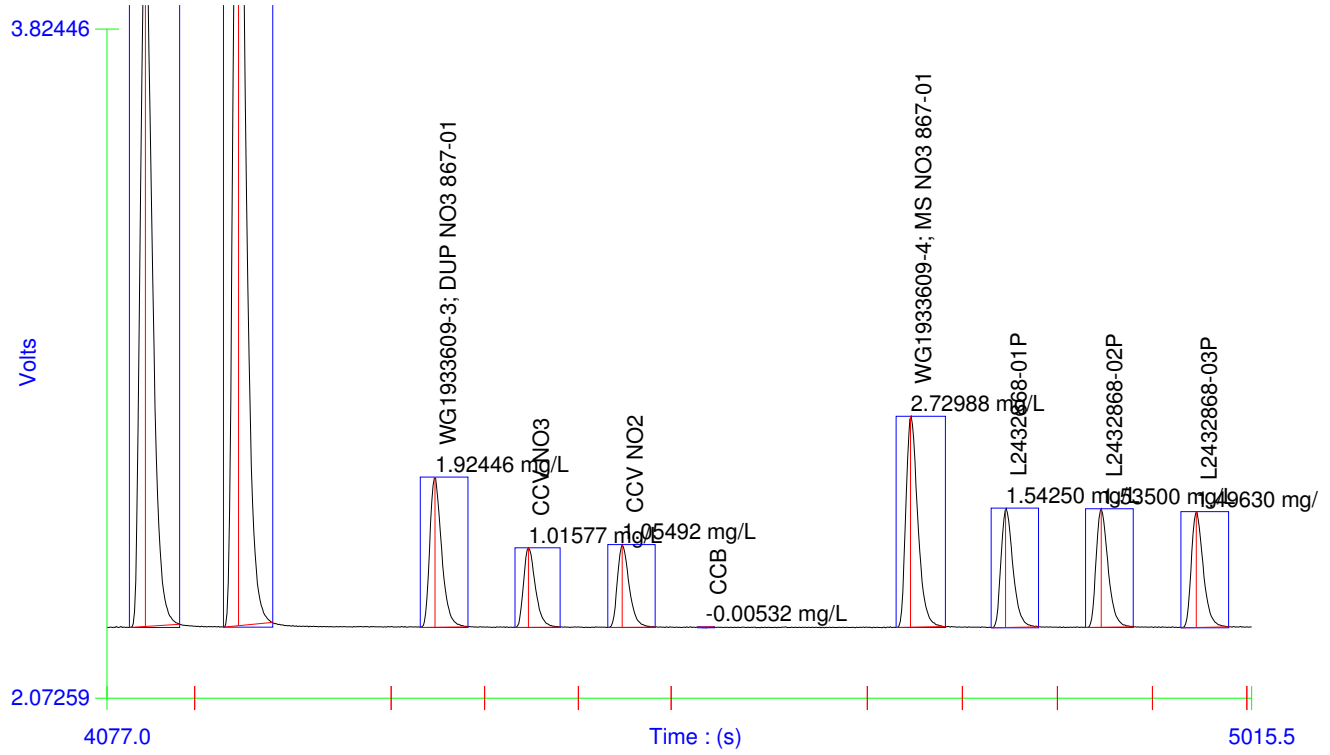
Channel 1 (NO3+NO2) - Set: 4 / 22



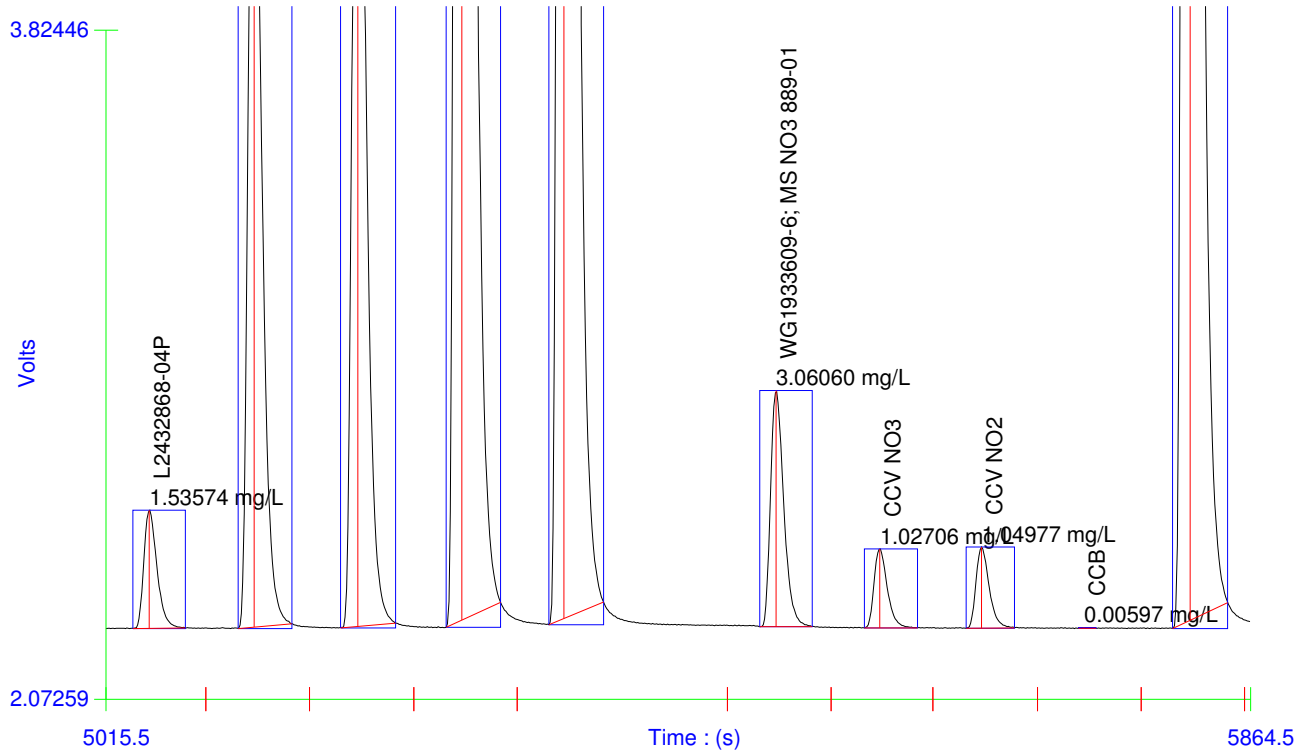
Channel 1 (NO3+NO2) - Set: 5 / 22



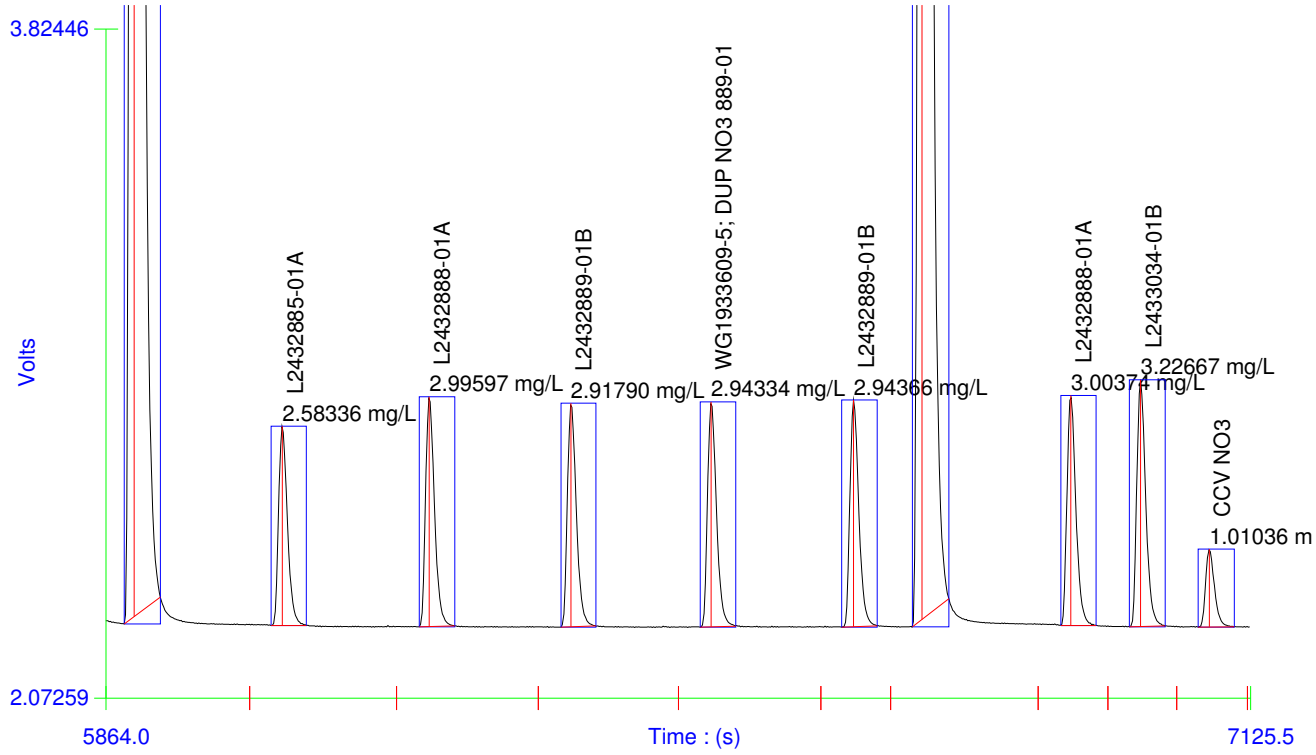
Channel 1 (NO3+NO2) - Set: 6 / 22



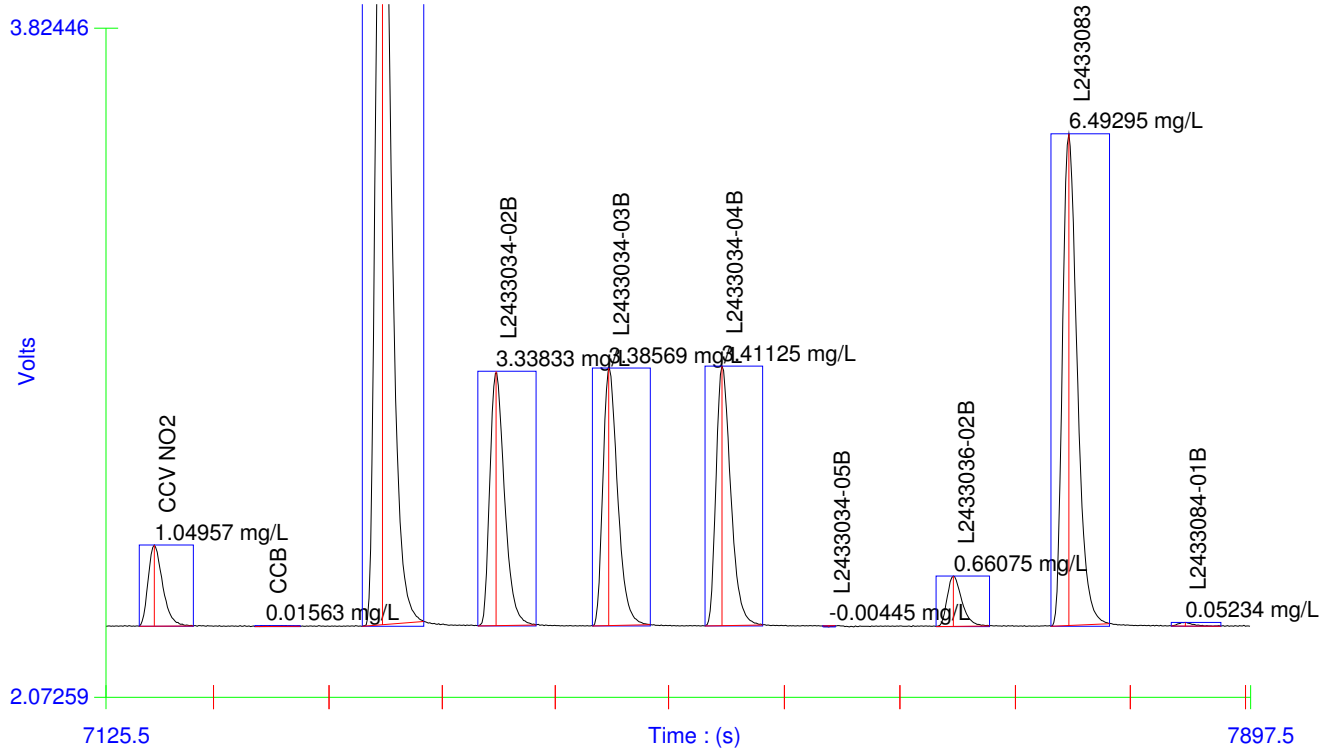
Channel 1 (NO3+NO2) - Set: 7 / 22



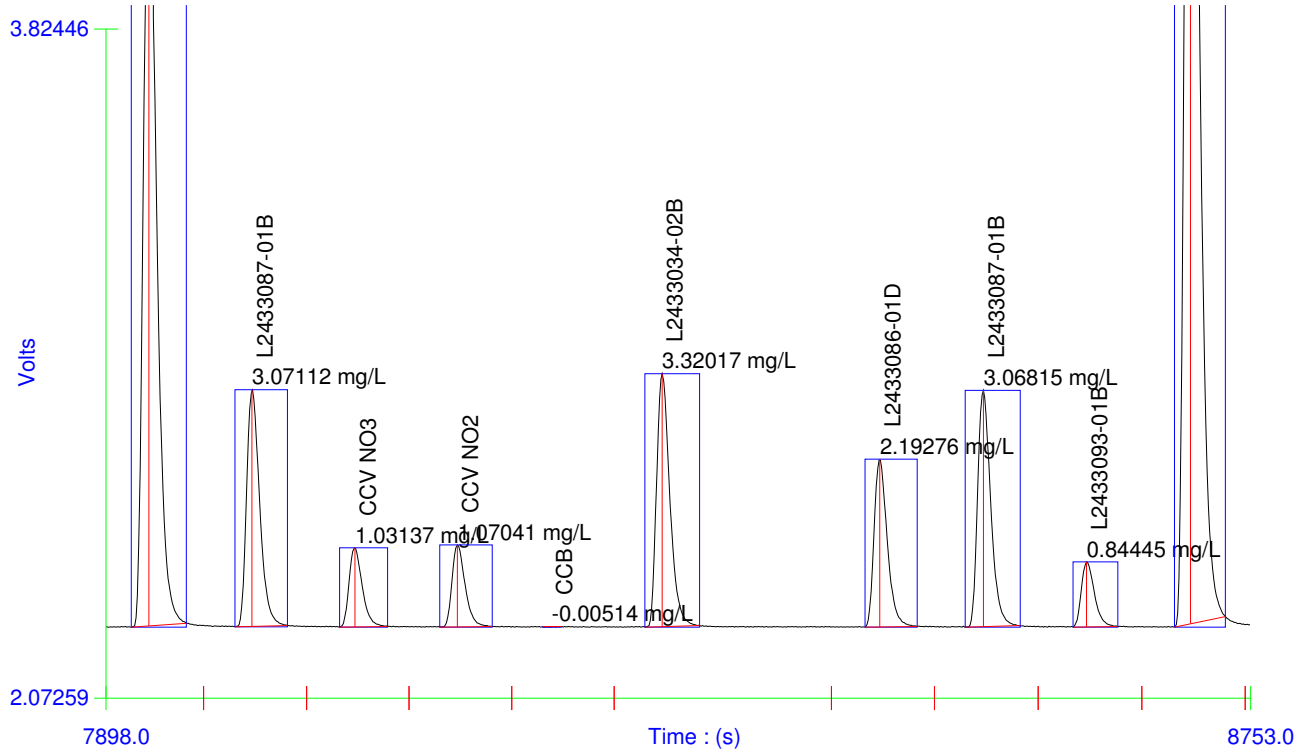
Channel 1 (NO3+NO2) - Set: 8 / 22



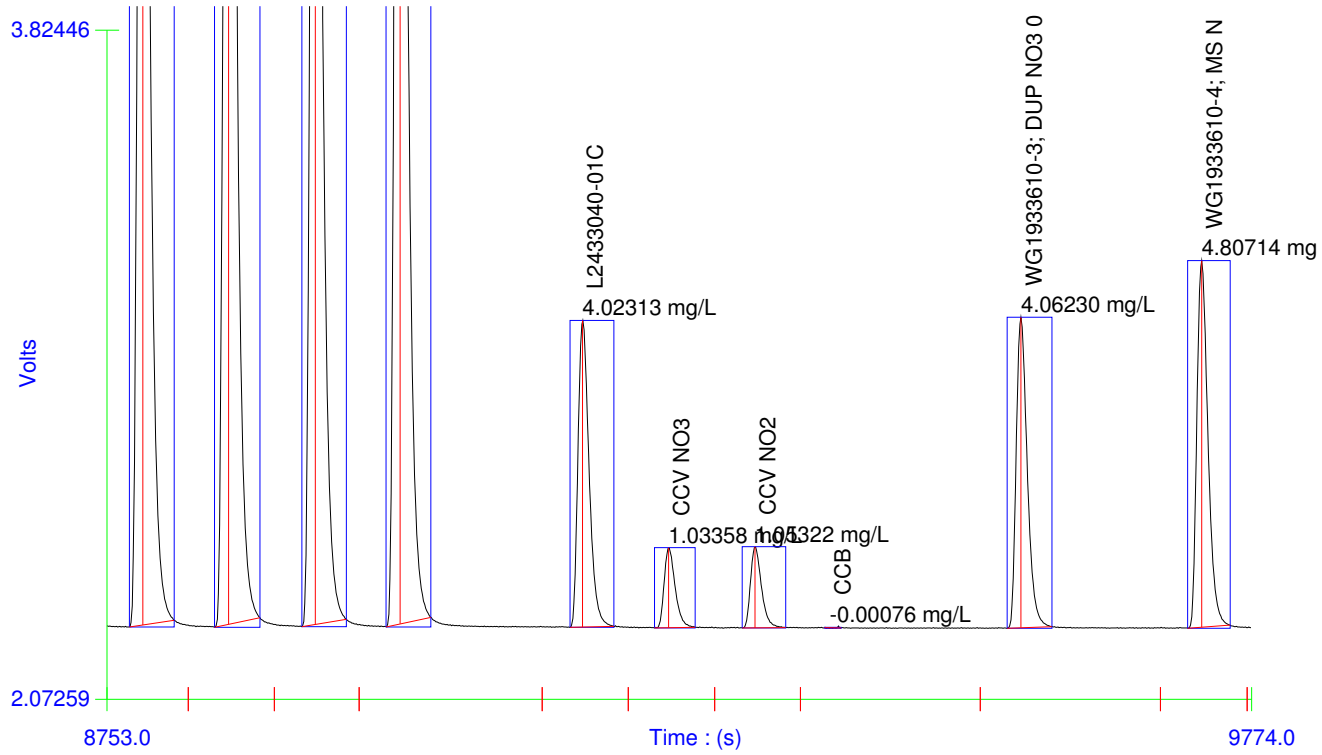
Channel 1 (NO3+NO2) - Set: 9 / 22



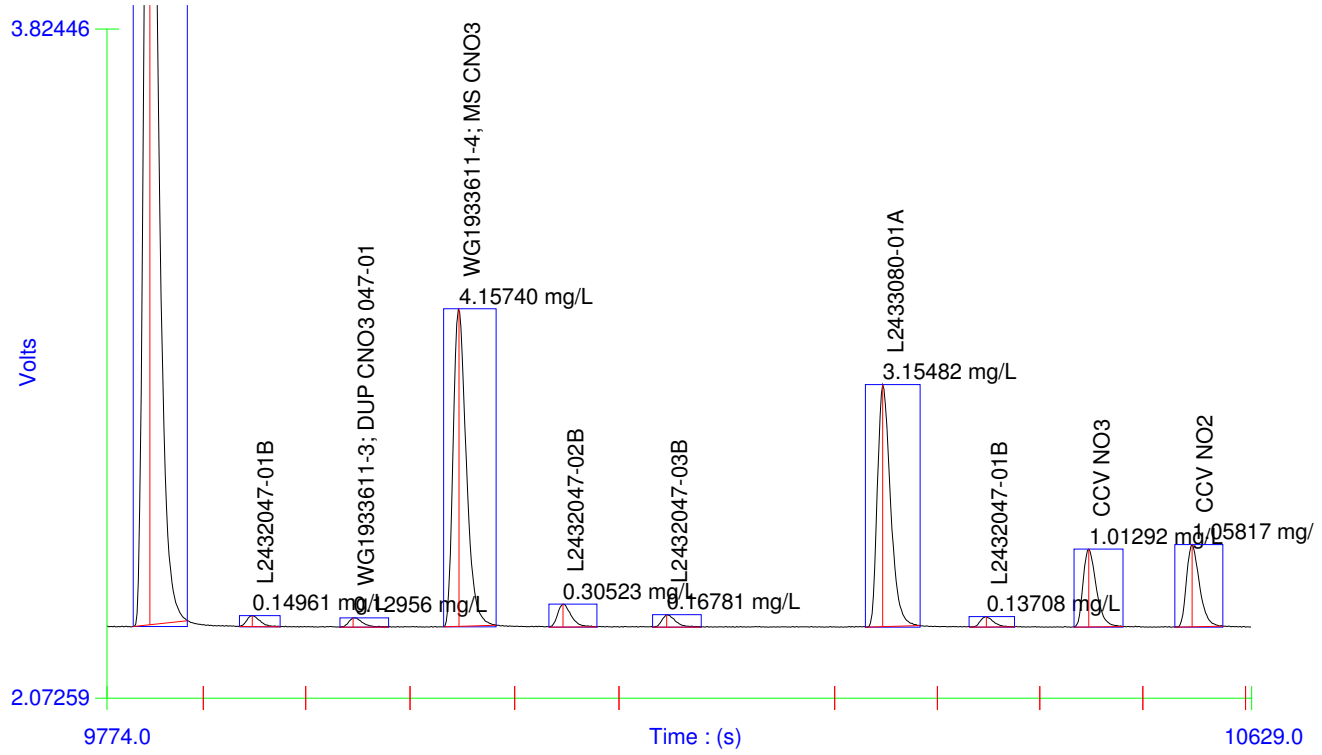
Channel 1 (NO3+NO2) - Set: 10 / 22



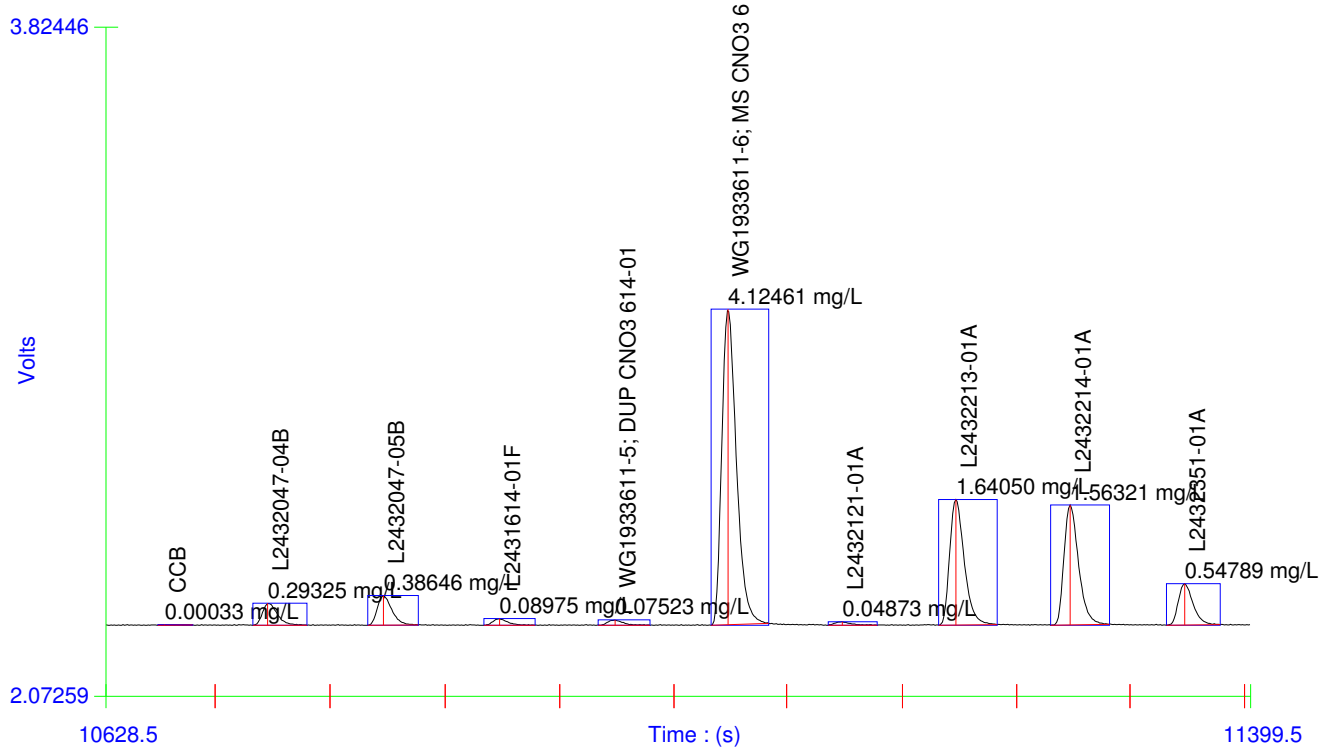
Channel 1 (NO3+NO2) - Set: 11 / 22



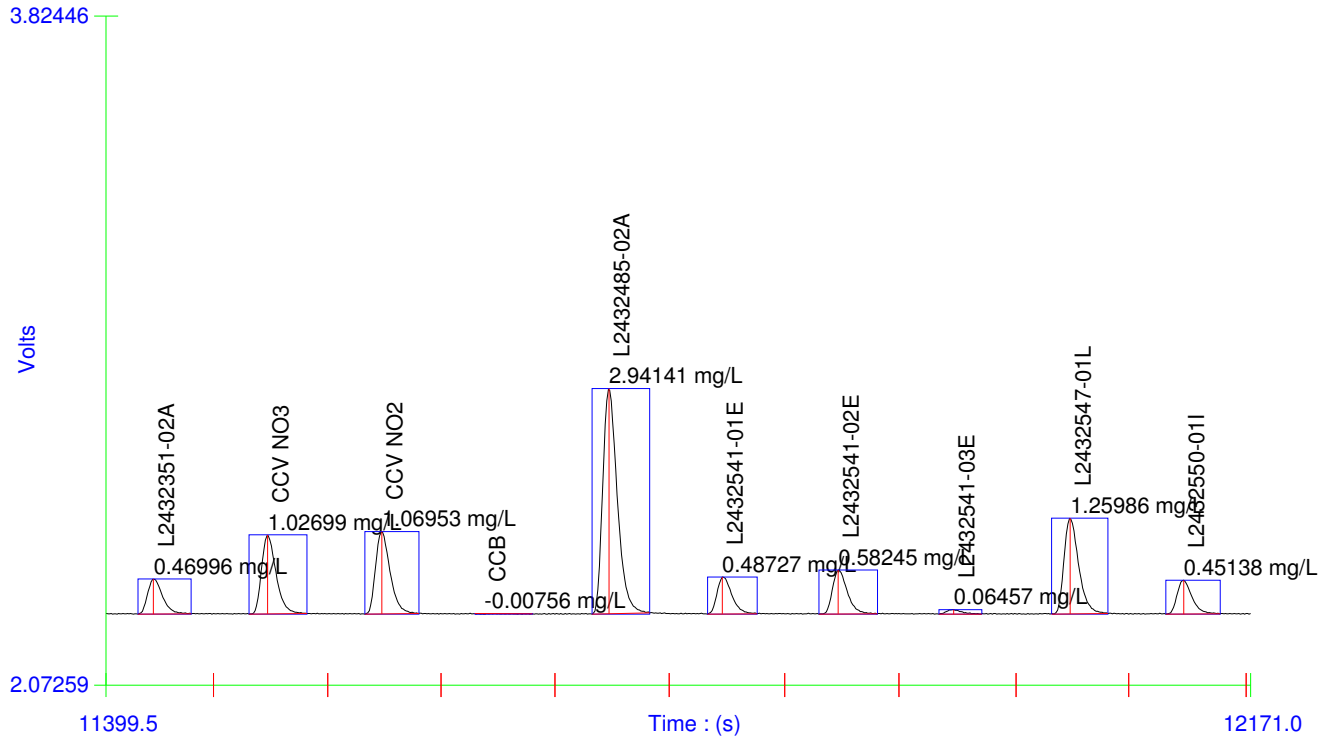
Channel 1 (NO3+NO2) - Set: 12 / 22



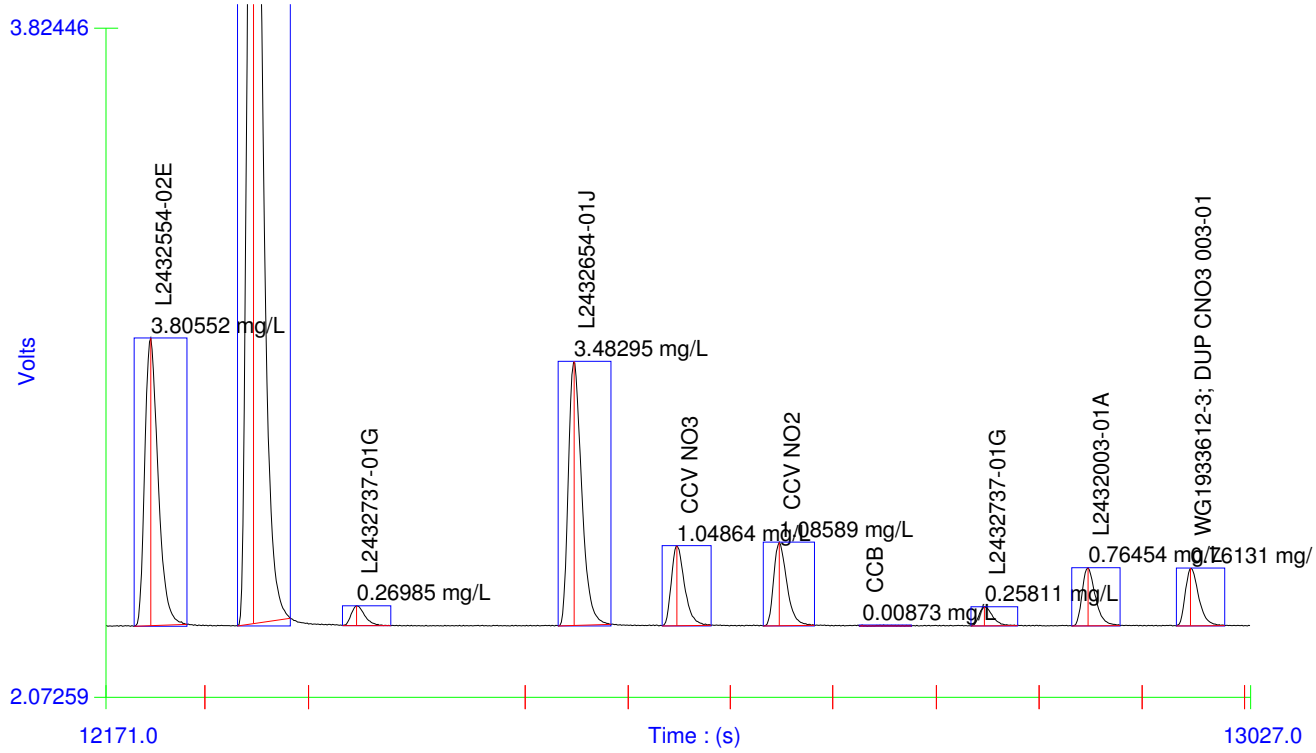
Channel 1 (NO3+NO2) - Set: 13 / 22



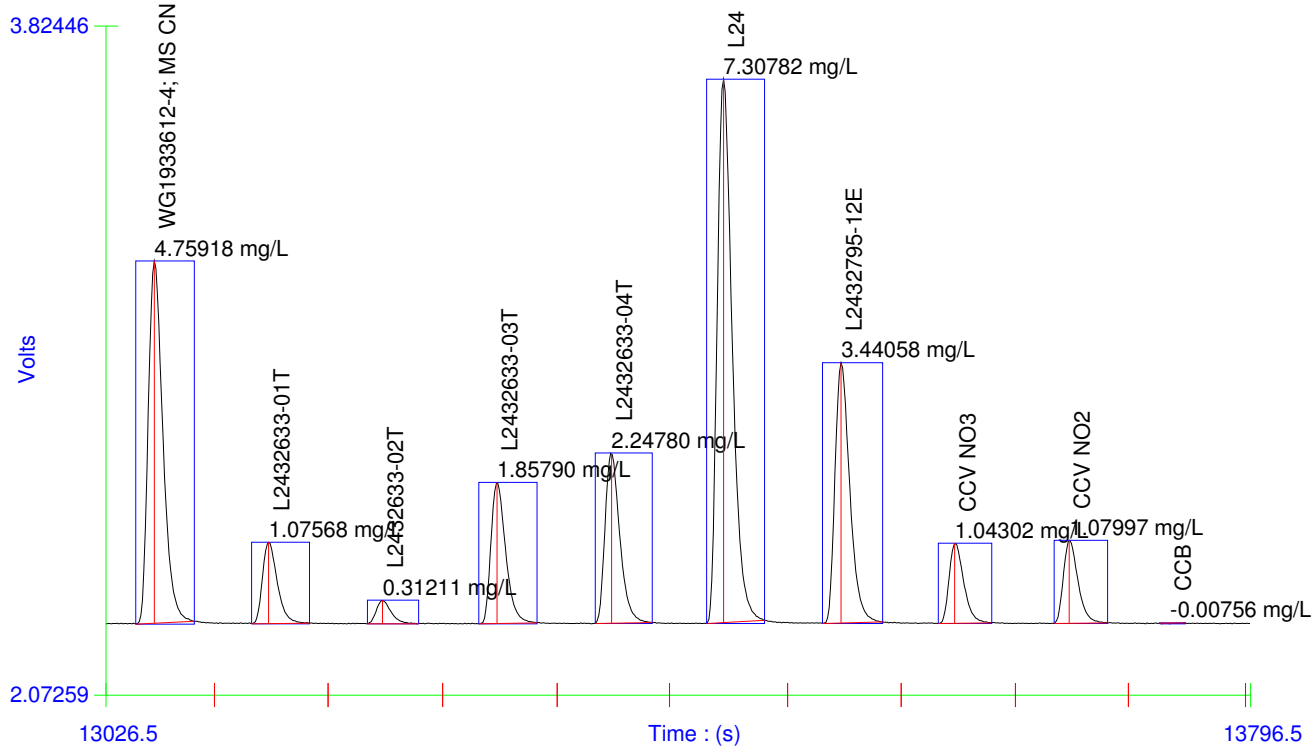
Channel 1 (NO3+NO2) - Set: 14 / 22



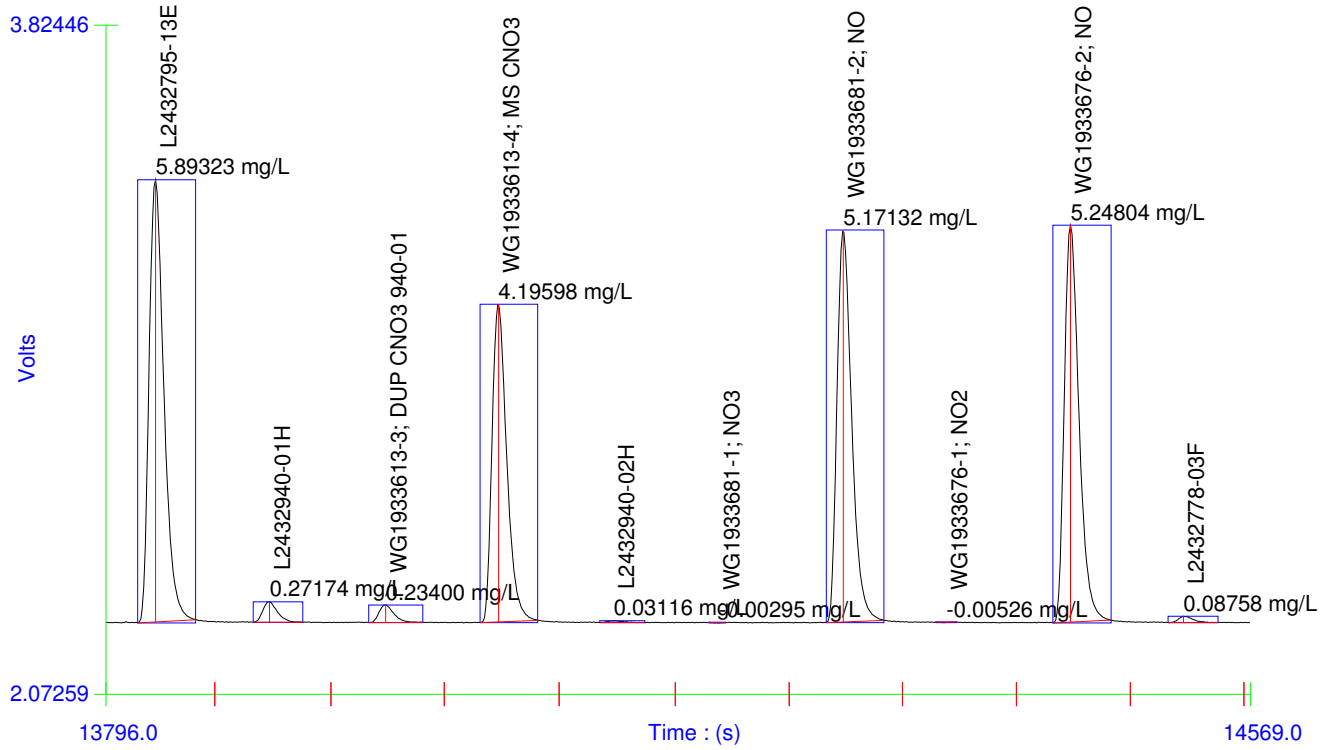
Channel 1 (NO3+NO2) - Set: 15 / 22



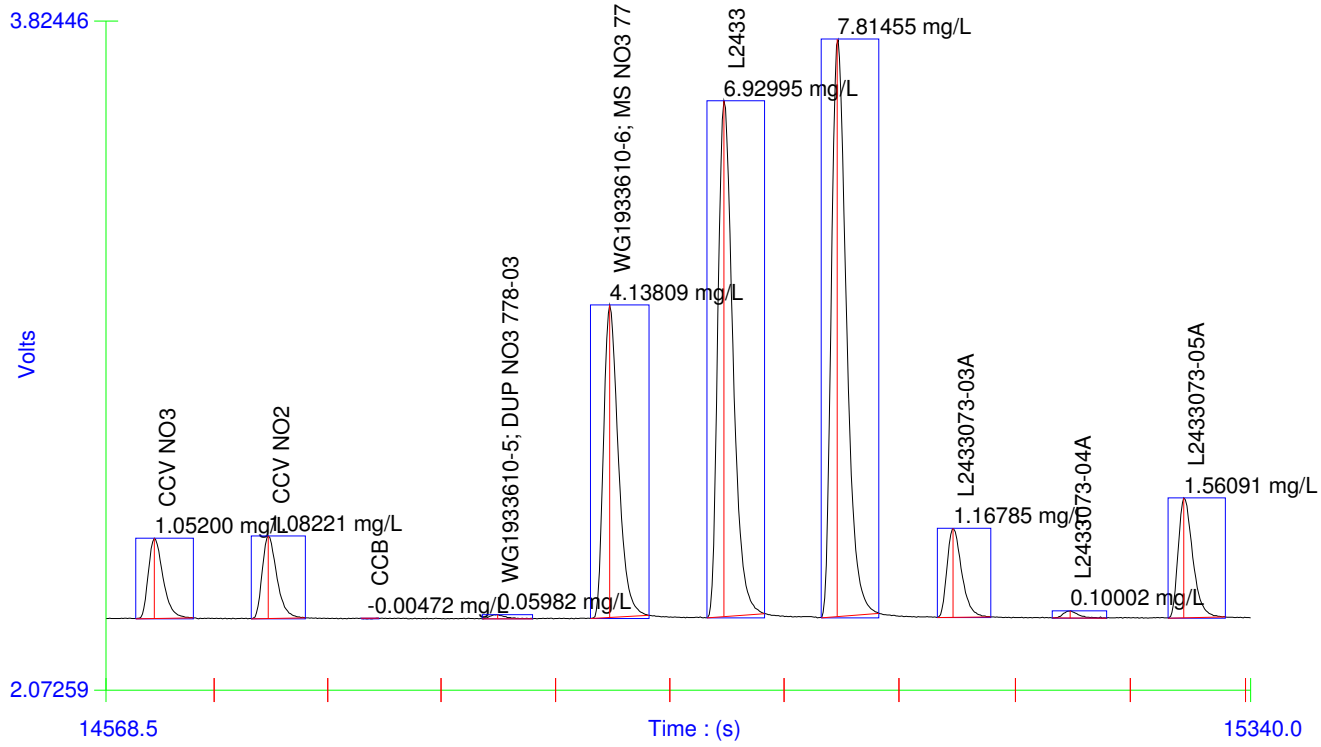
Channel 1 (NO3+NO2) - Set: 16 / 22



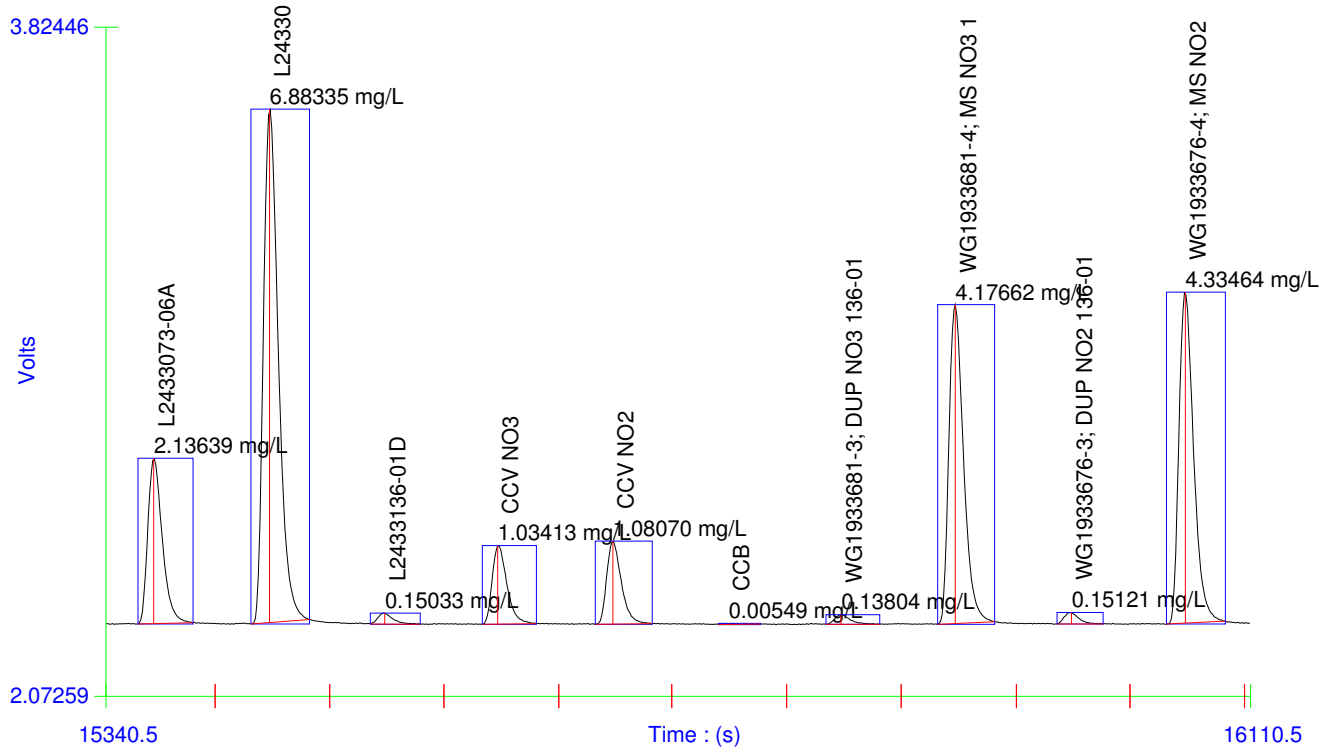
Channel 1 (NO3+NO2) - Set: 17 / 22



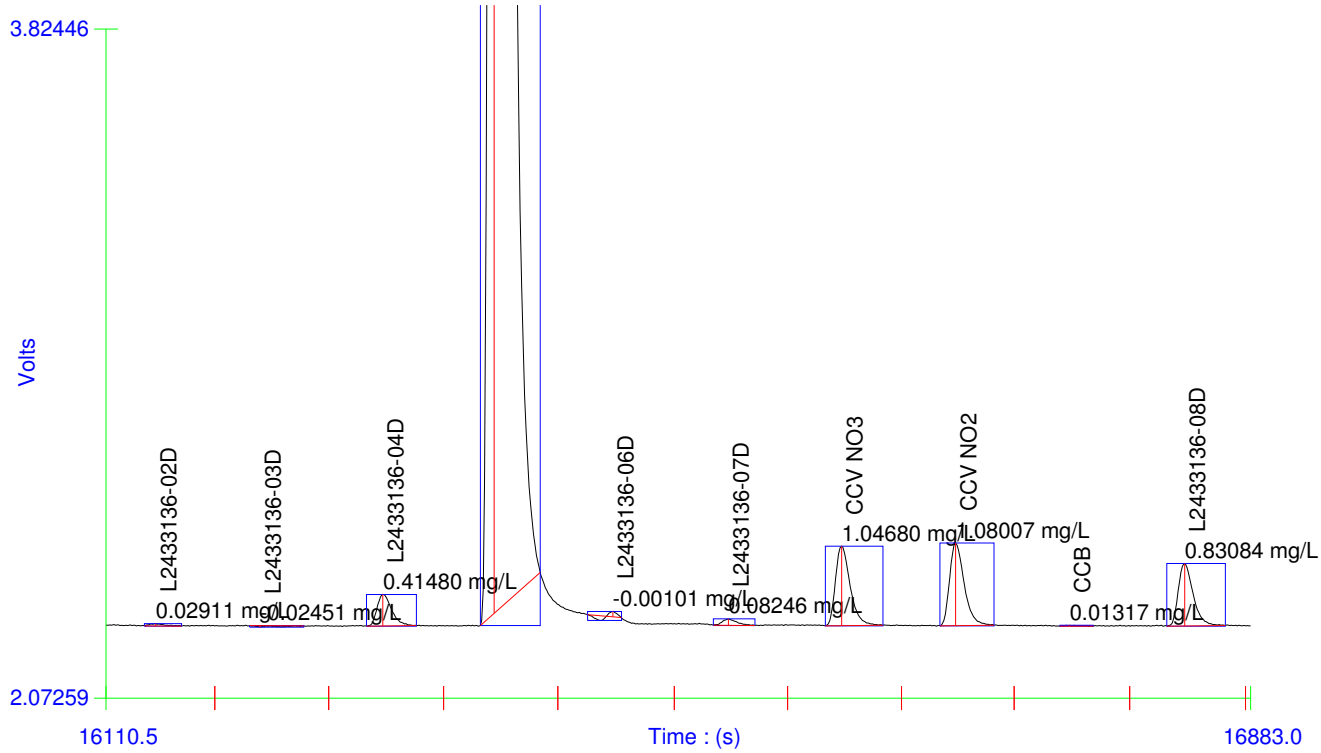
Channel 1 (NO3+NO2) - Set: 18 / 22



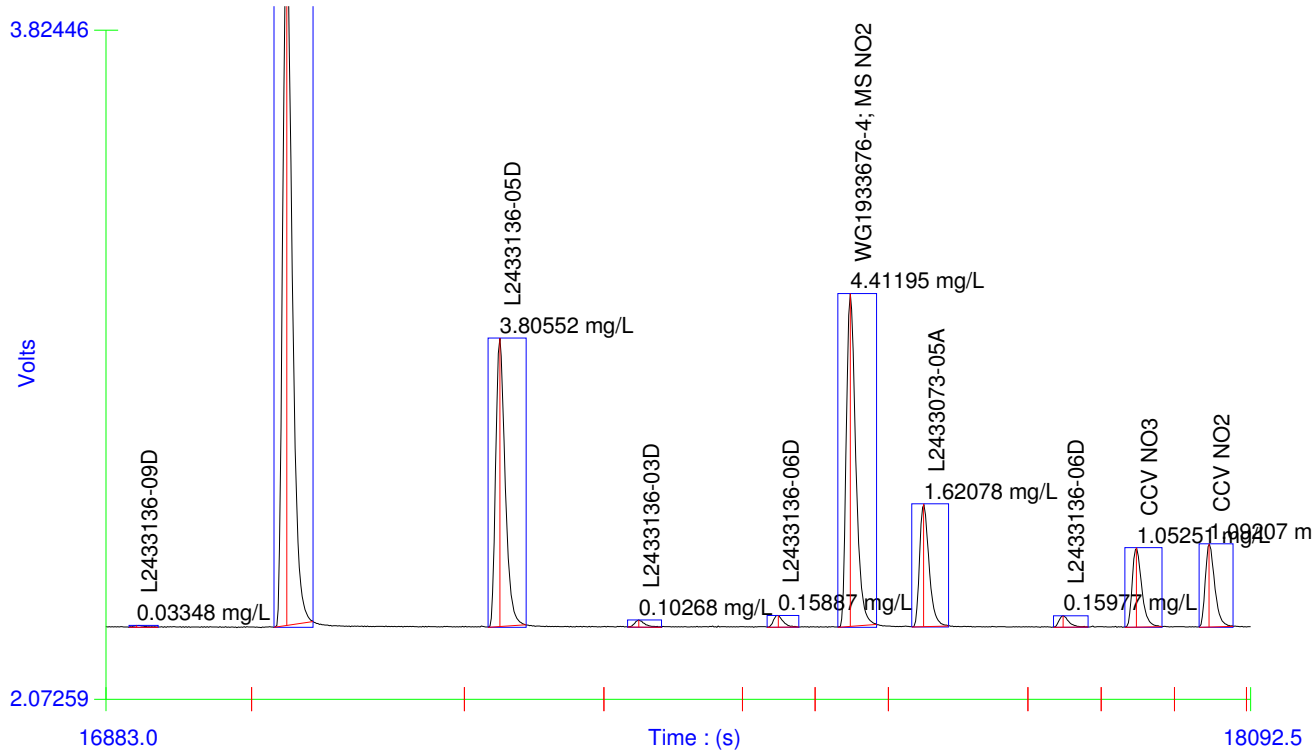
Channel 1 (NO3+NO2) - Set: 19 / 22



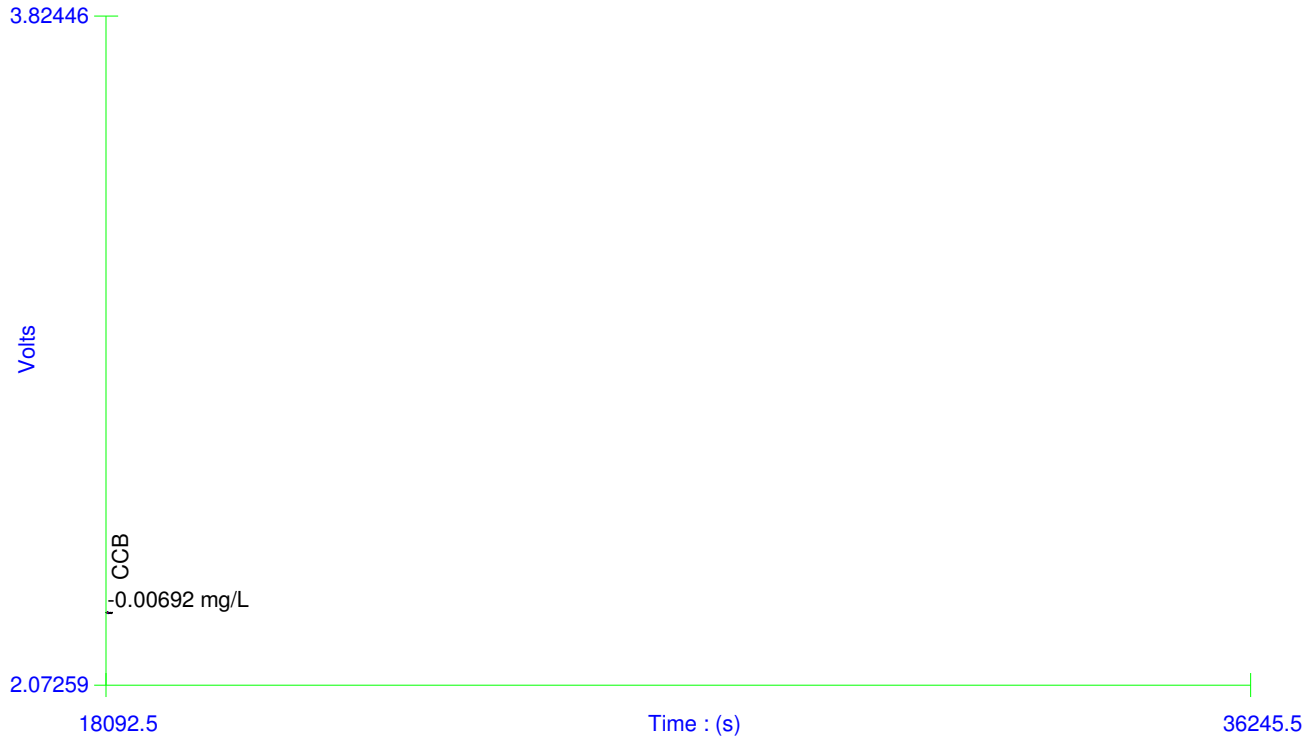
Channel 1 (NO3+NO2) - Set: 20 / 22



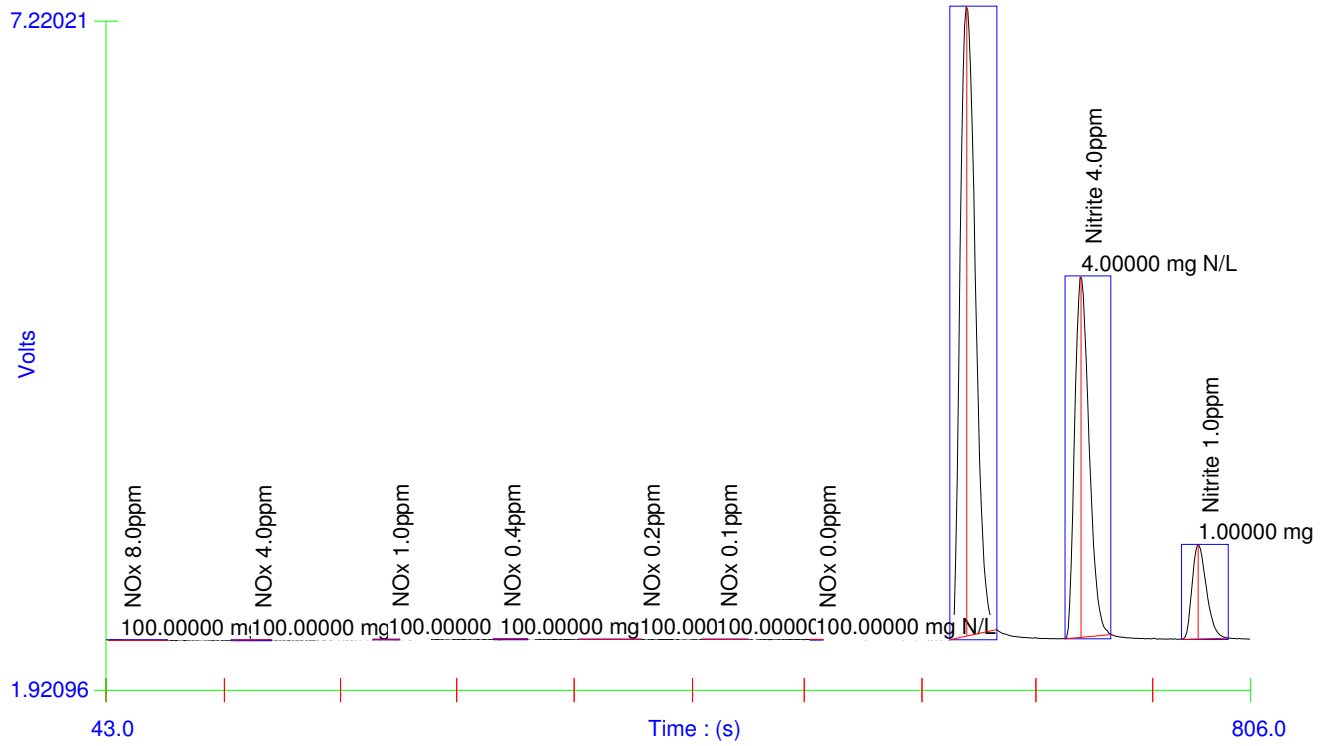
Channel 1 (NO3+NO2) - Set: 21 / 22



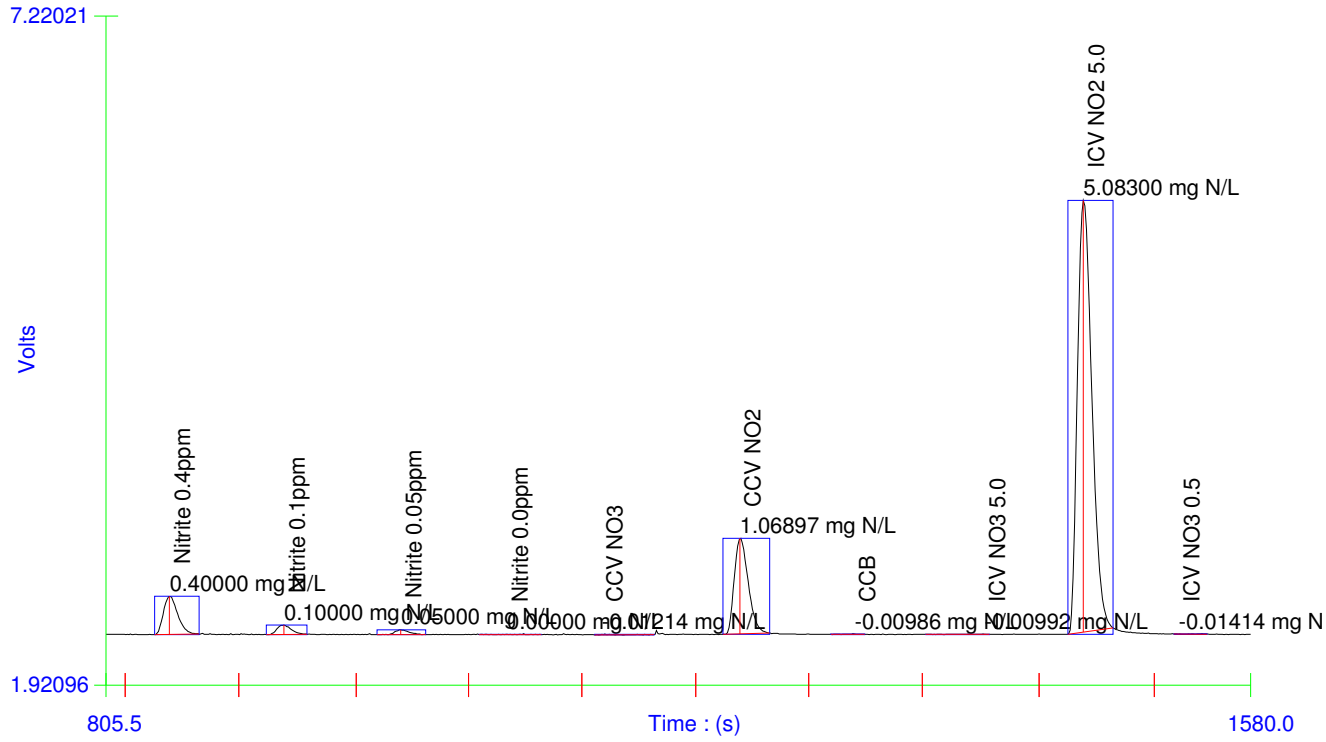
Channel 1 (NO3+NO2) - Set: 22 / 22



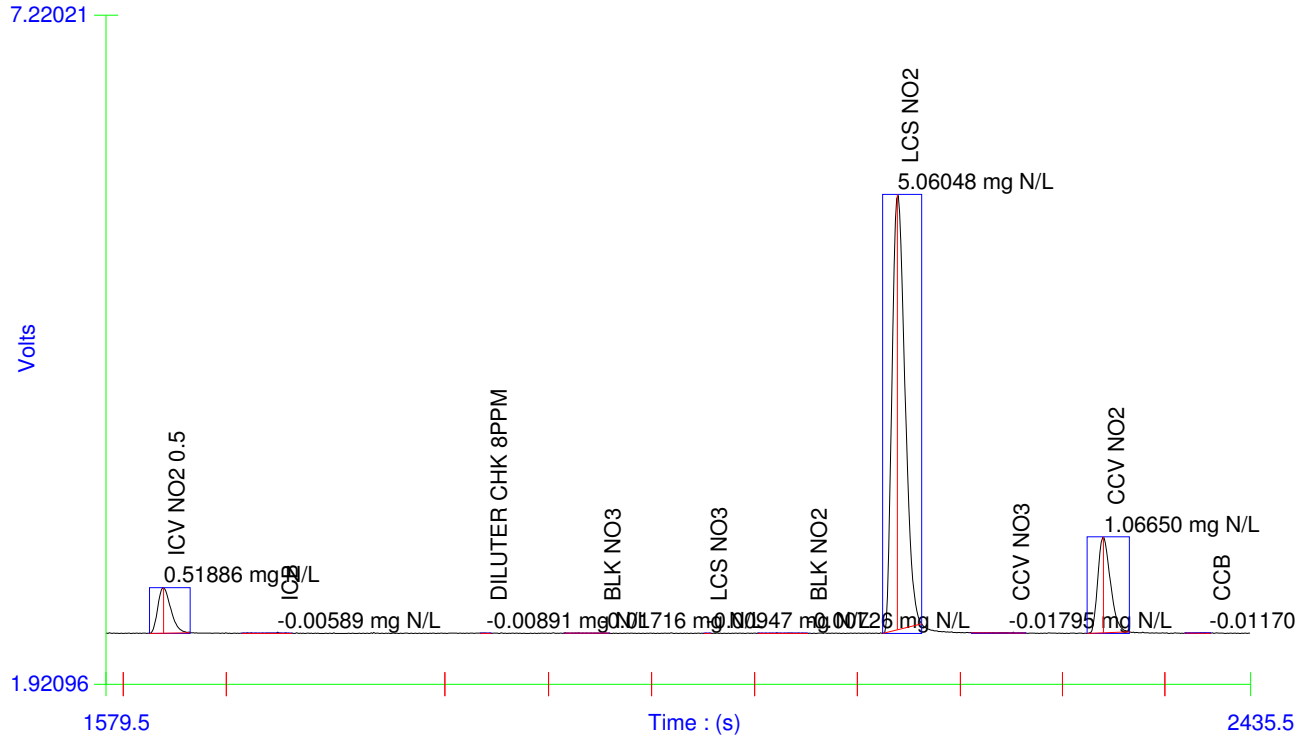
Channel 2 (NO2) - Set: 1 / 22



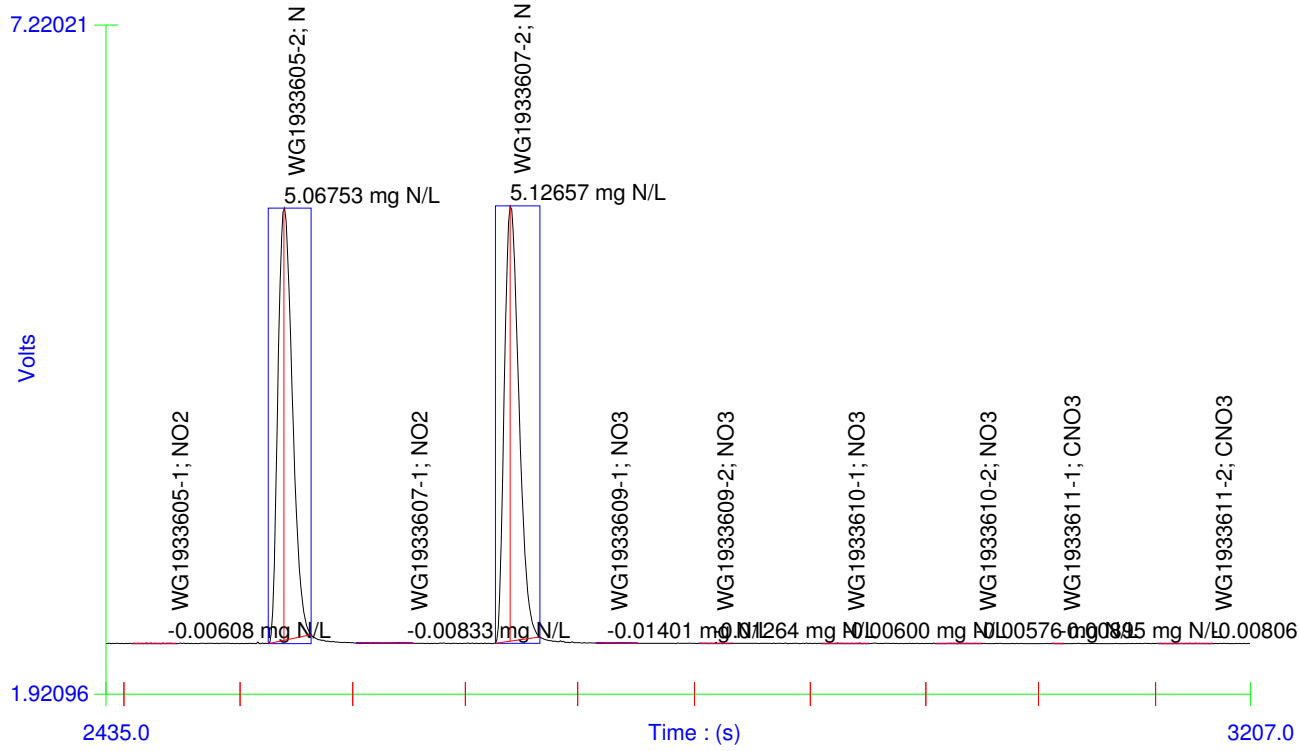
Channel 2 (NO2) - Set: 2 / 22



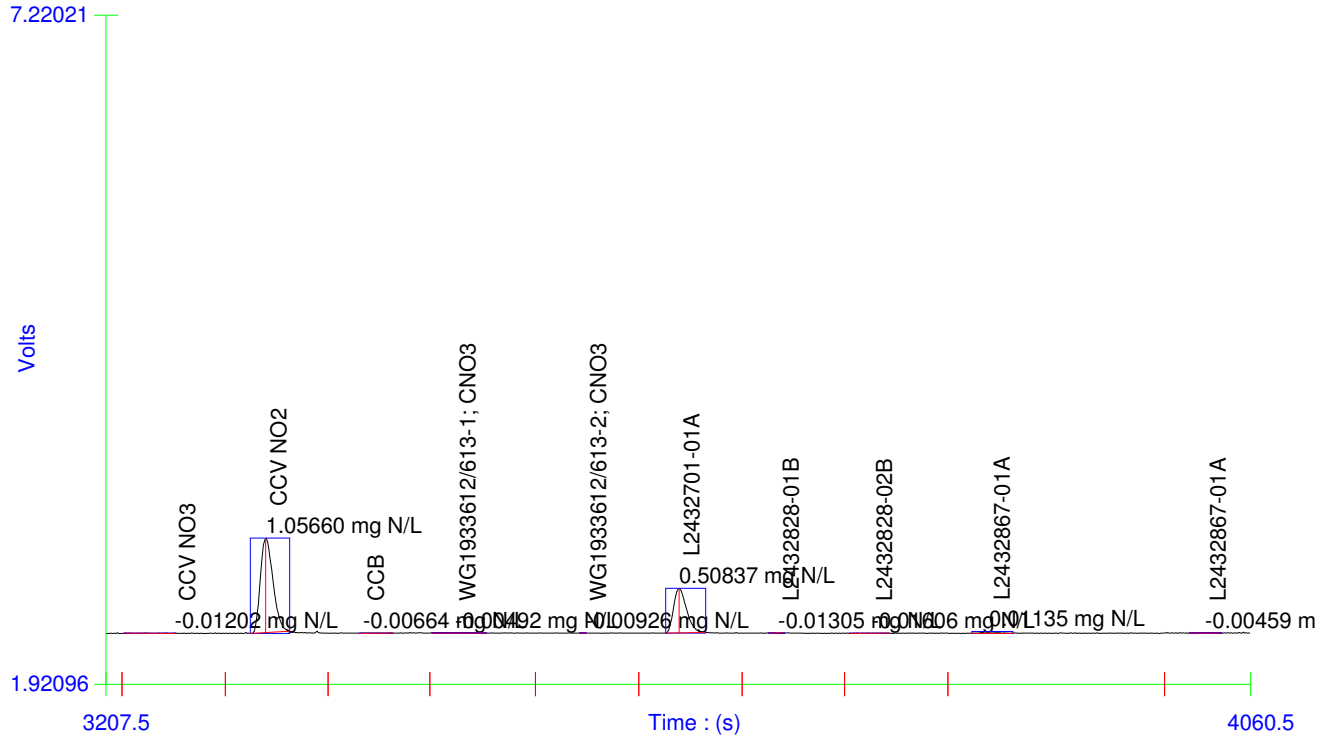
Channel 2 (NO2) - Set: 3 / 22



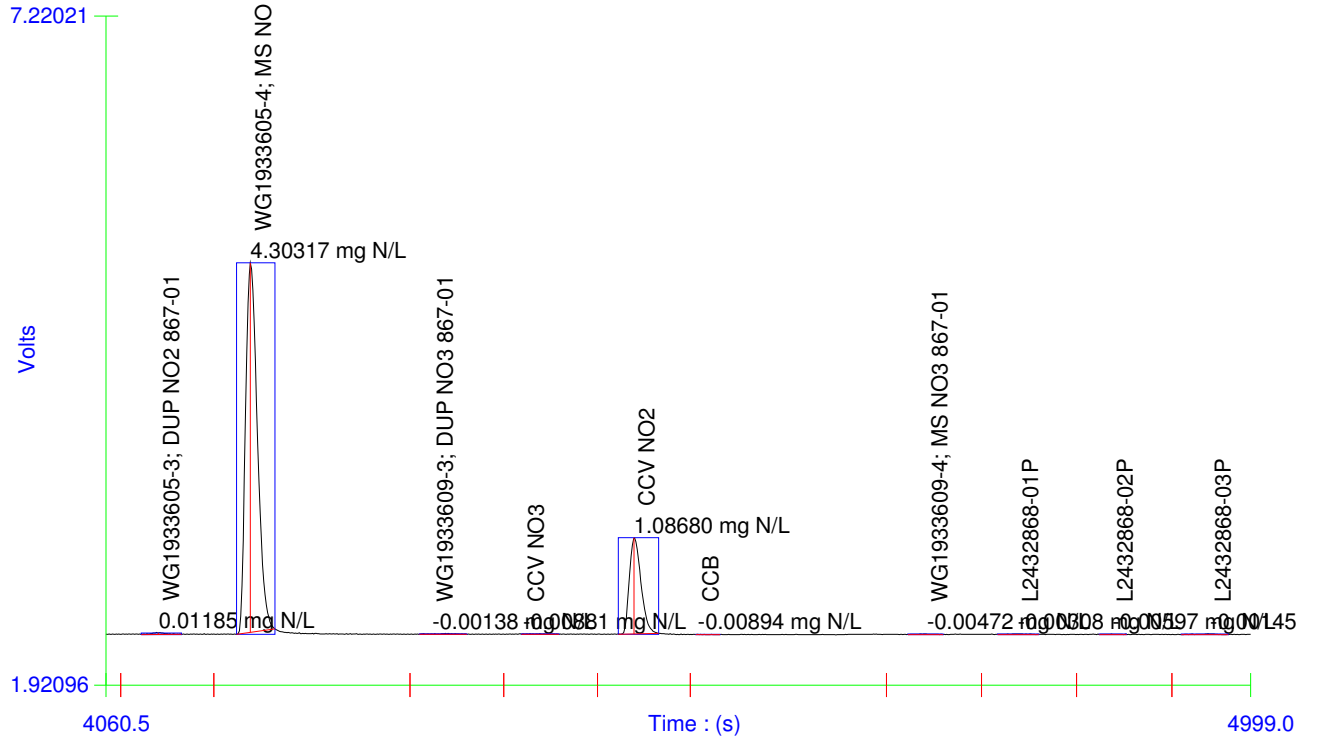
Channel 2 (NO2) - Set: 4 / 22



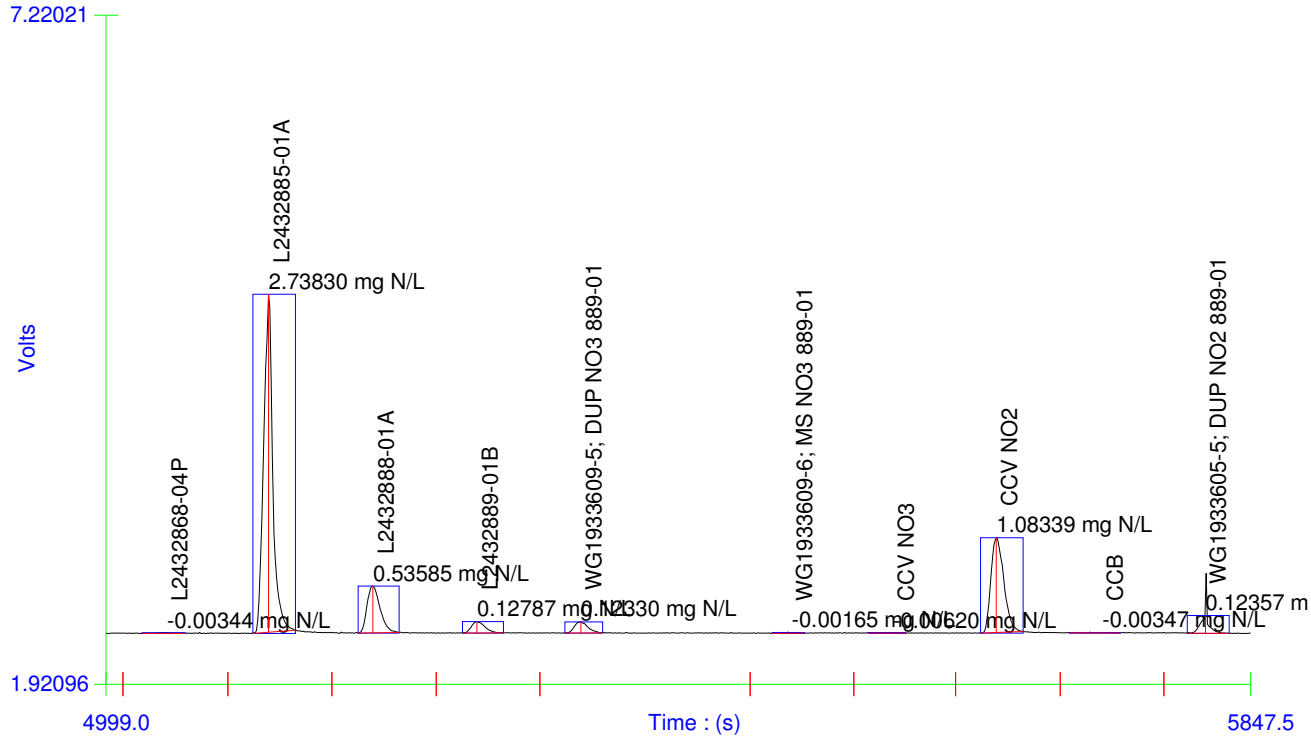
Channel 2 (NO2) - Set: 5 / 22



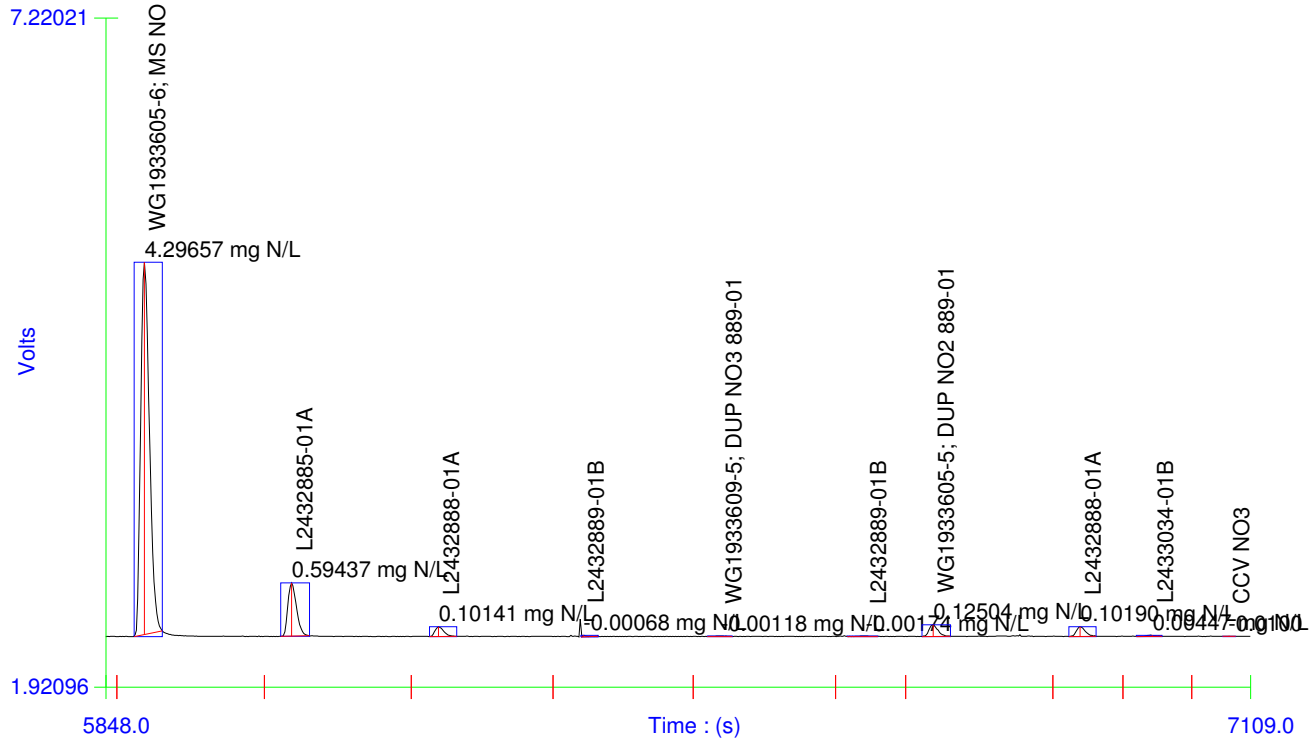
Channel 2 (NO2) - Set: 6 / 22



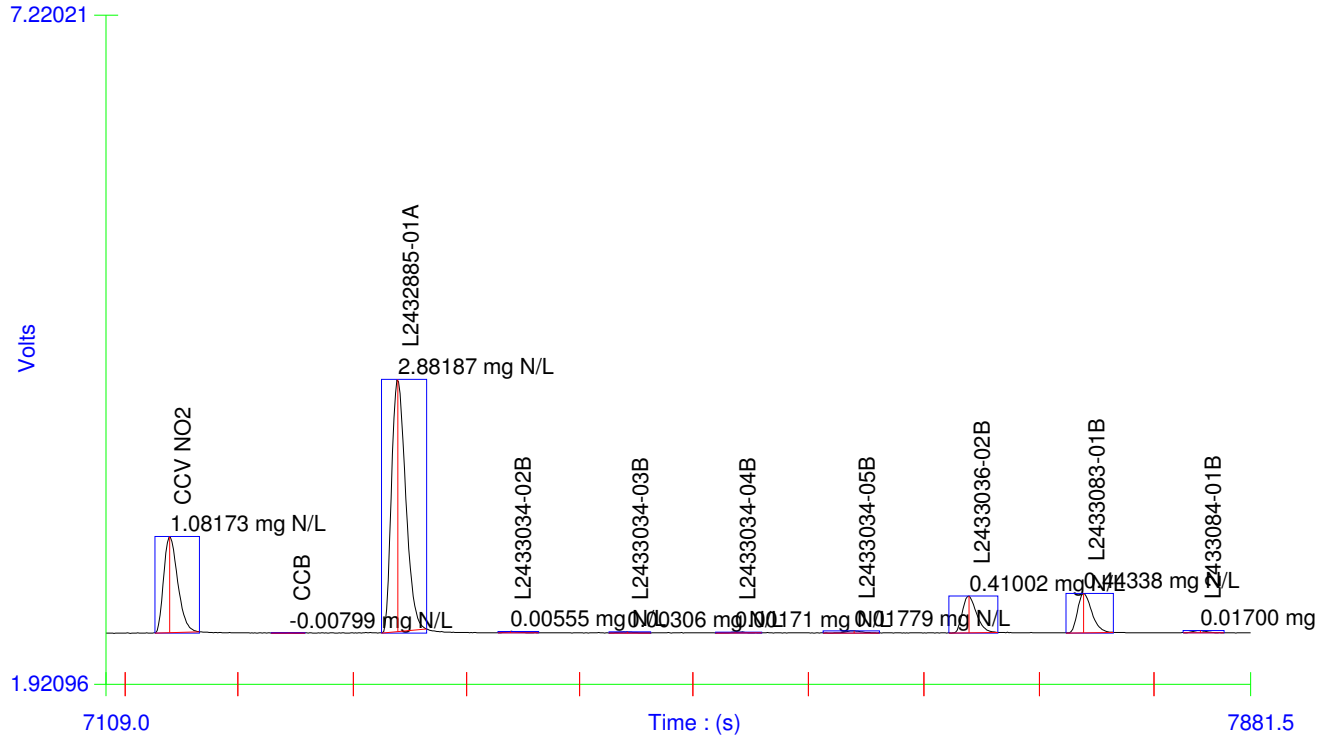
Channel 2 (NO2) - Set: 7 / 22



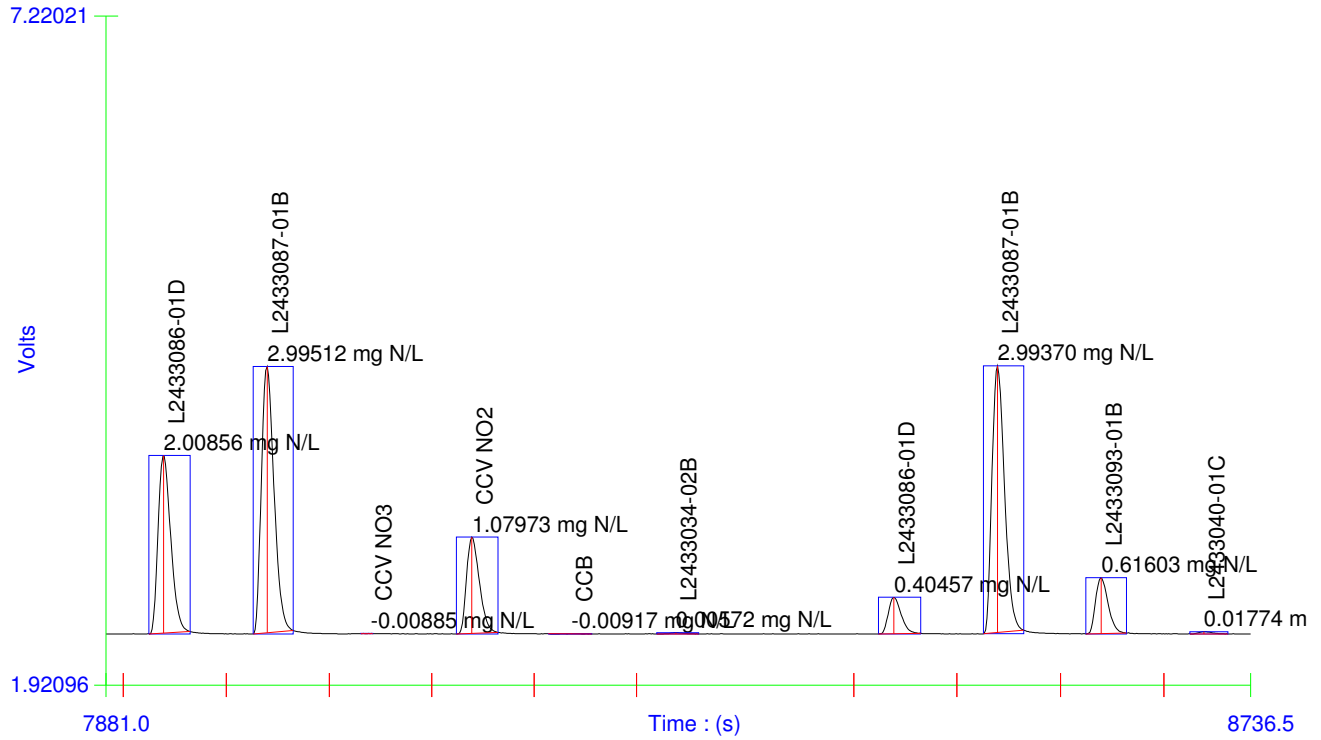
Channel 2 (NO2) - Set: 8 / 22



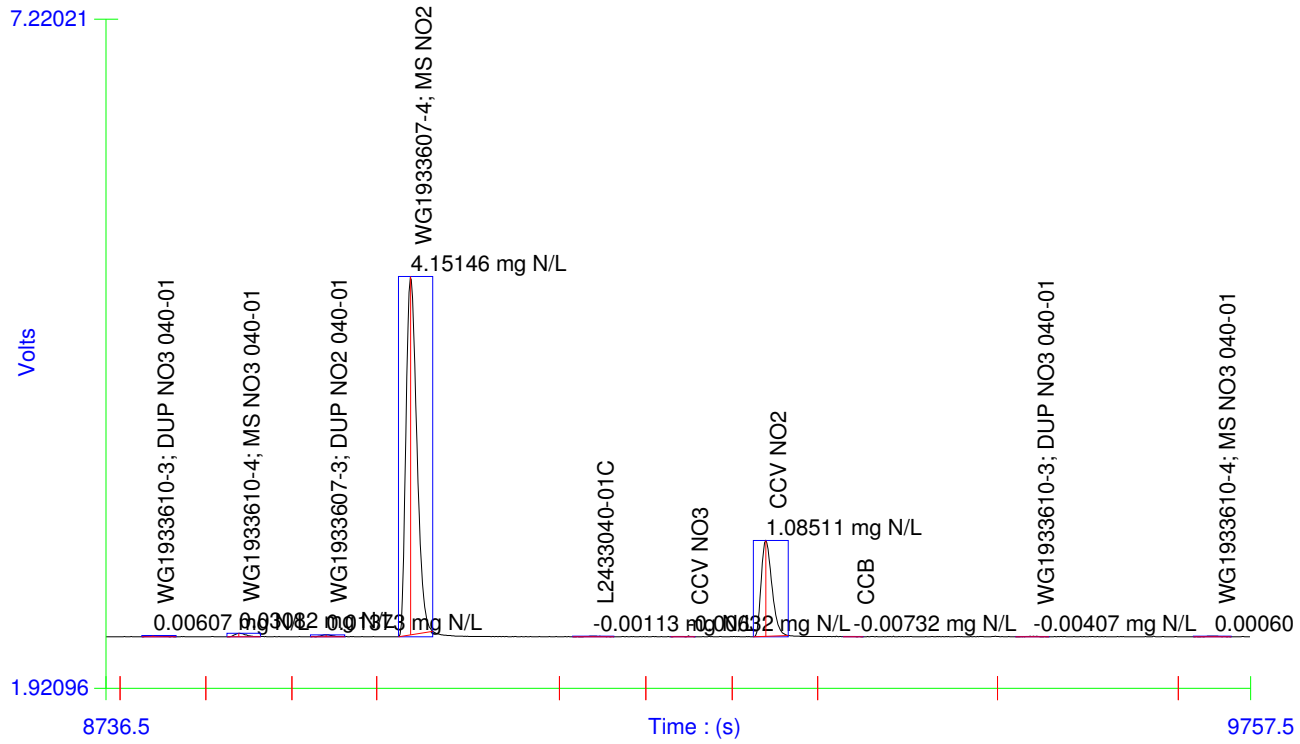
Channel 2 (NO2) - Set: 9 / 22



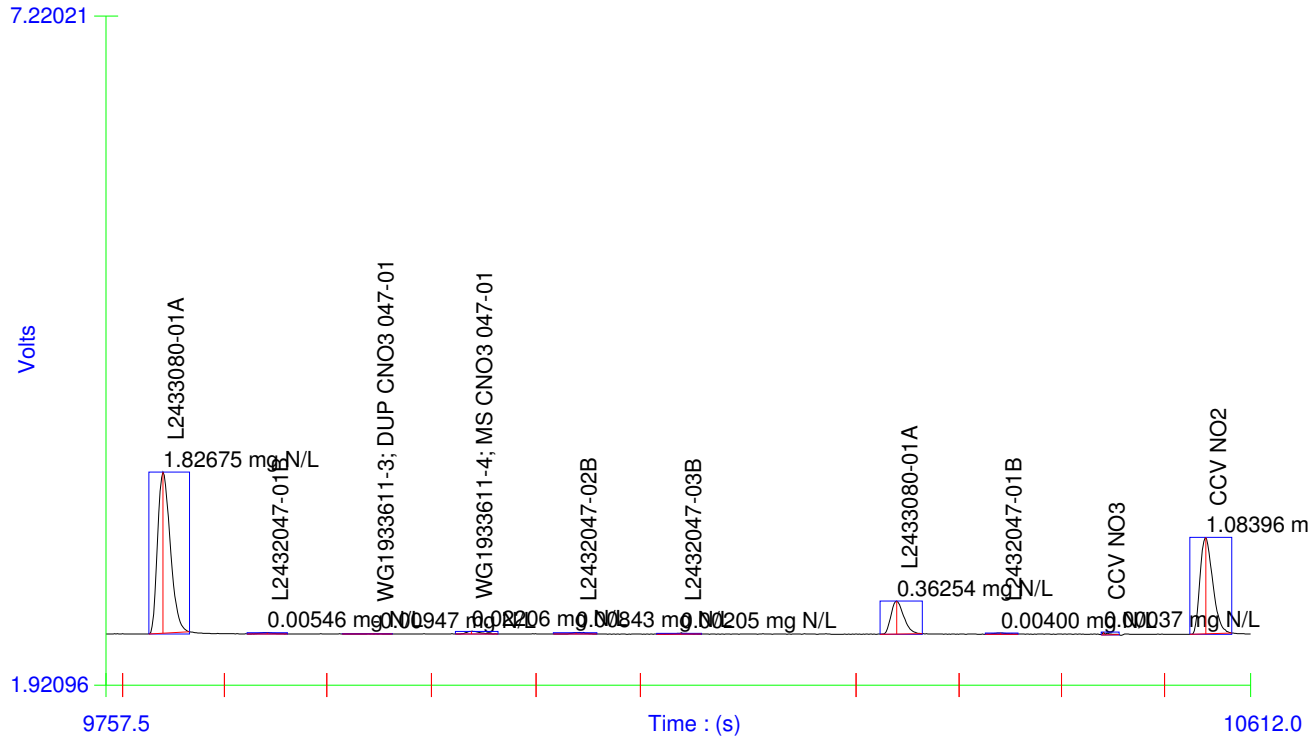
Channel 2 (NO2) - Set: 10 / 22



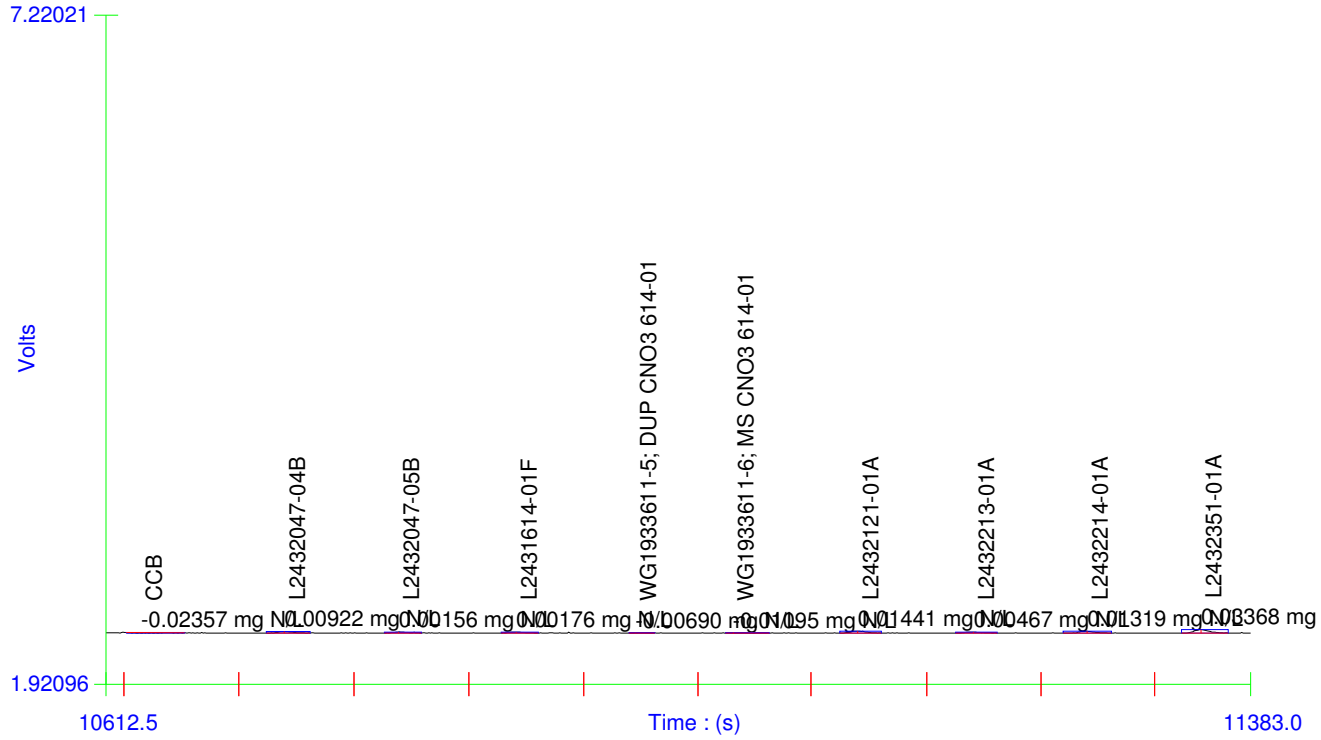
Channel 2 (NO2) - Set: 11 / 22



Channel 2 (NO2) - Set: 12 / 22



Channel 2 (NO2) - Set: 13 / 22



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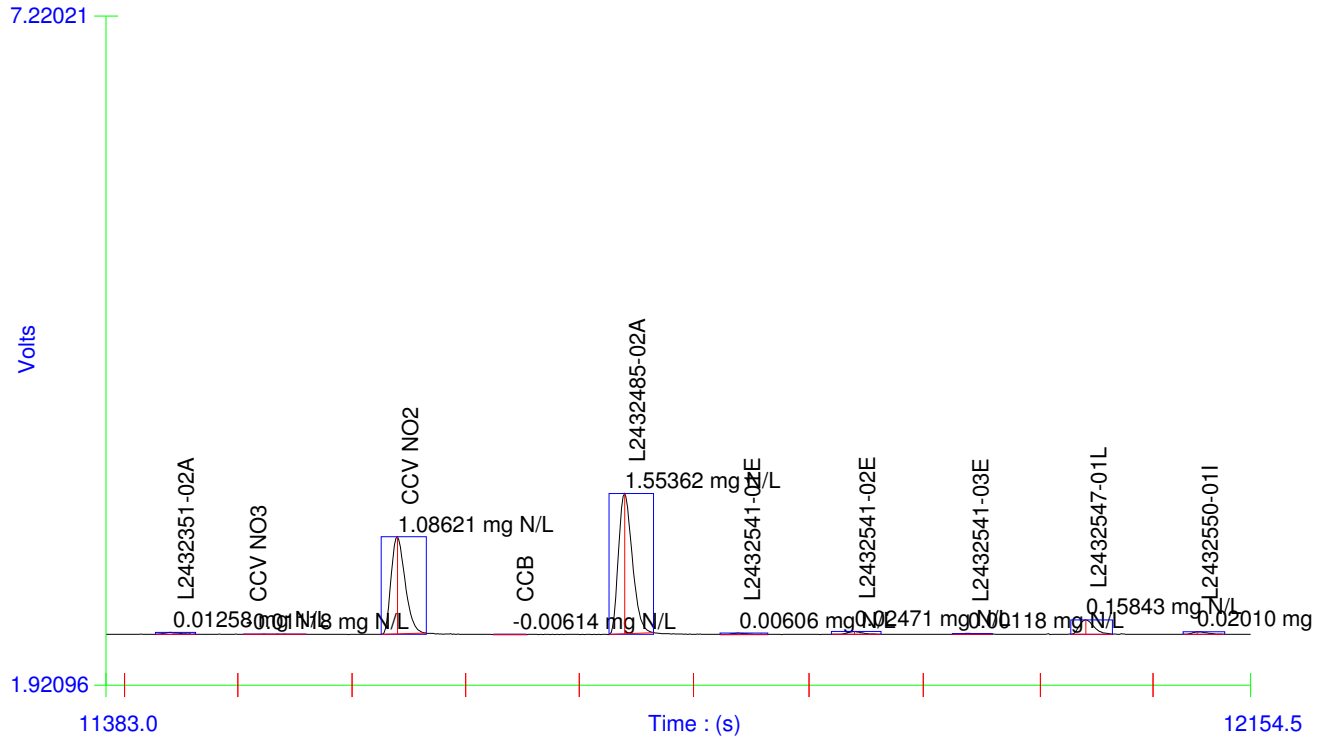
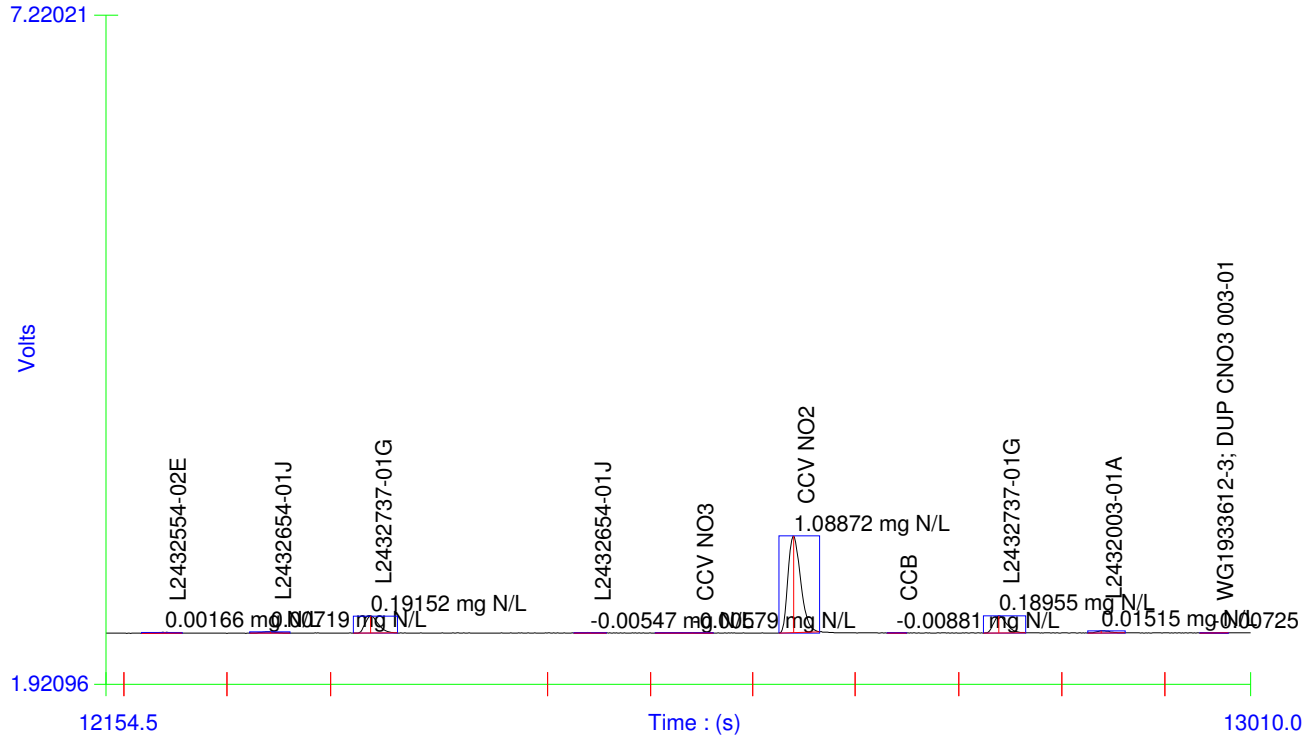


Channel 2 (NO2) - Set: 15 / 22



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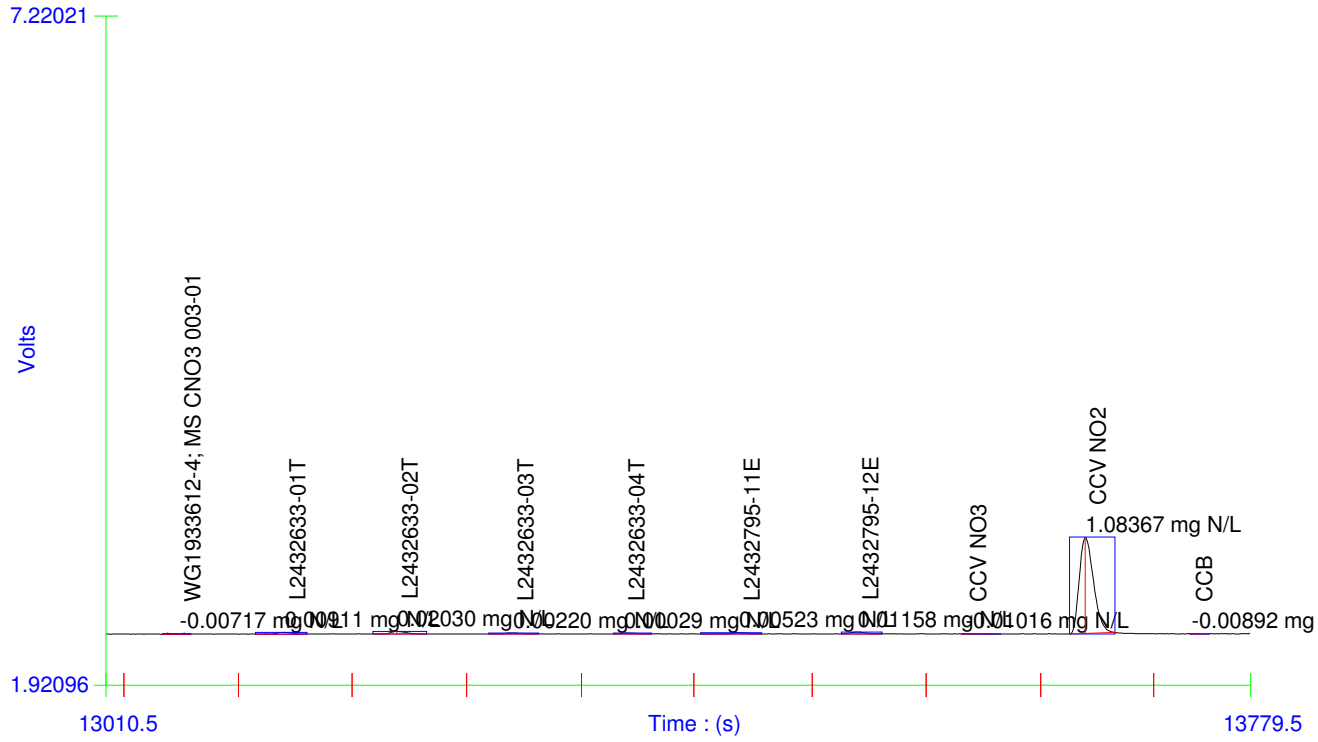

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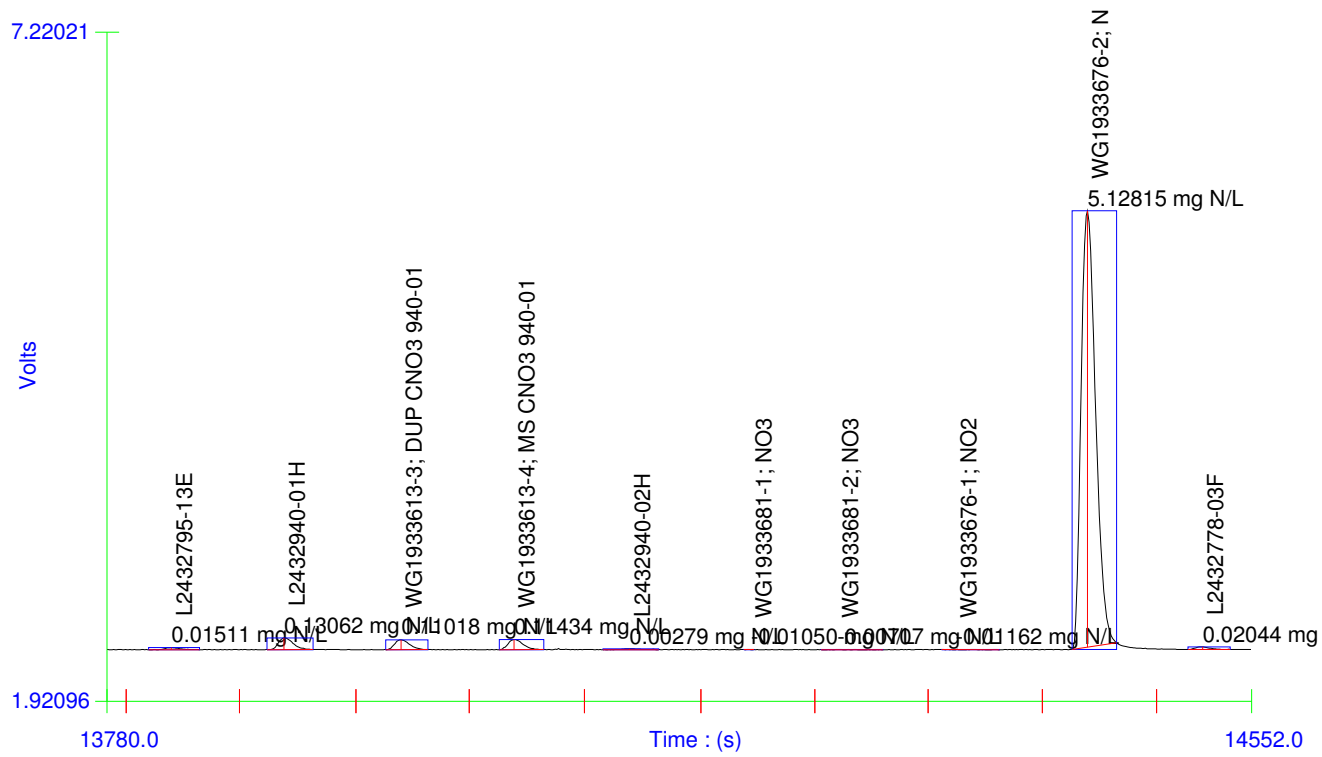

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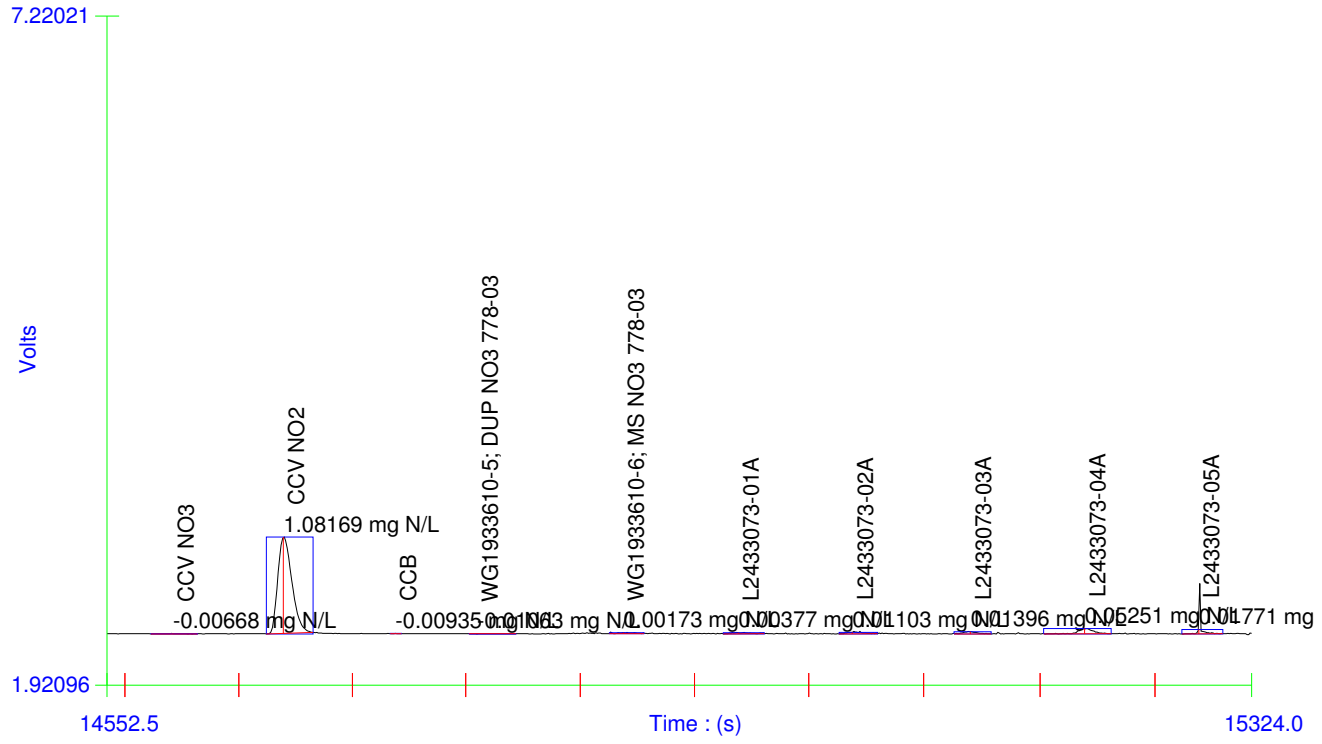

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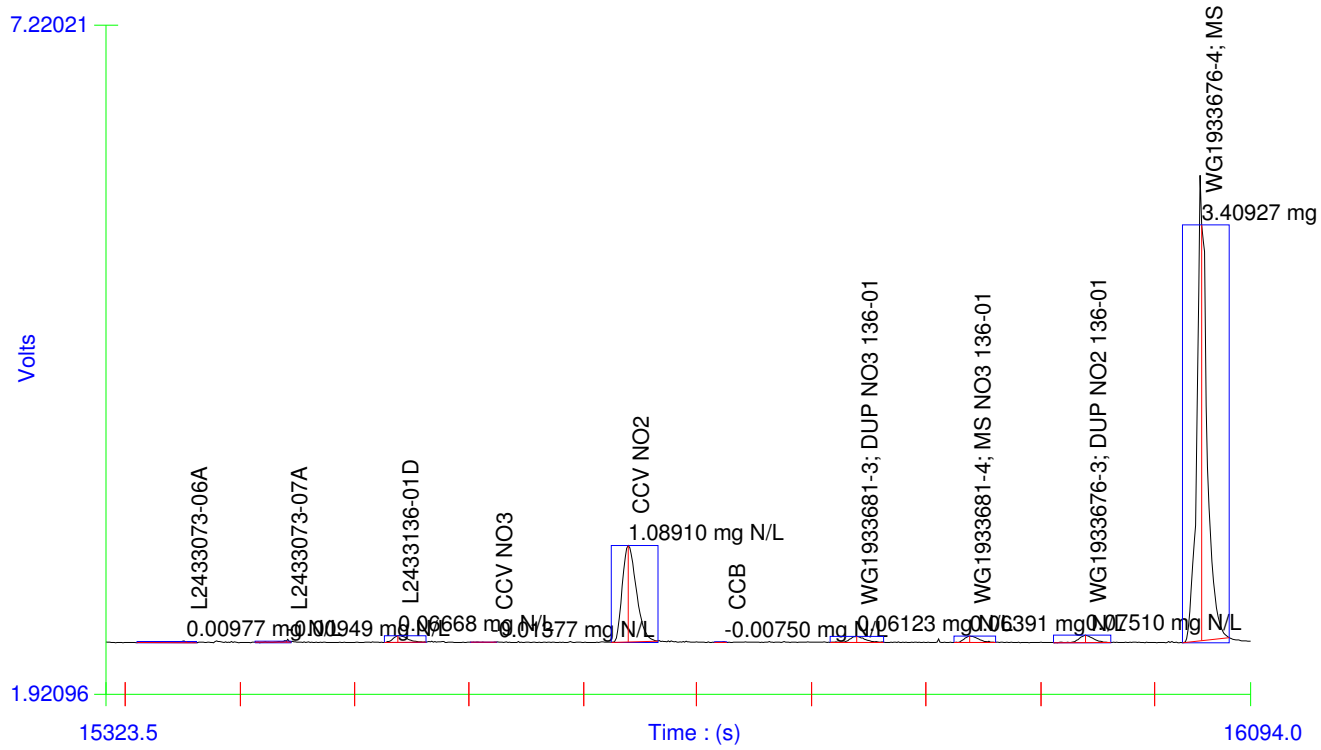

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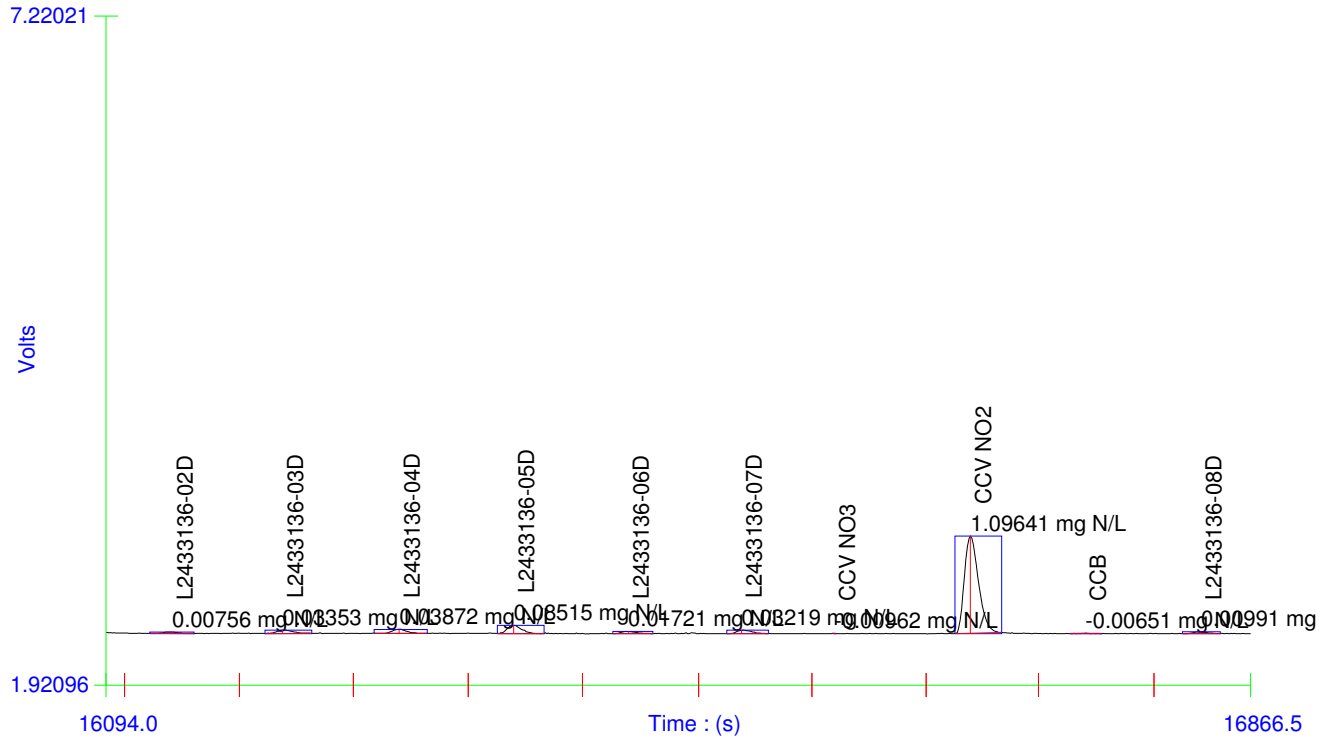
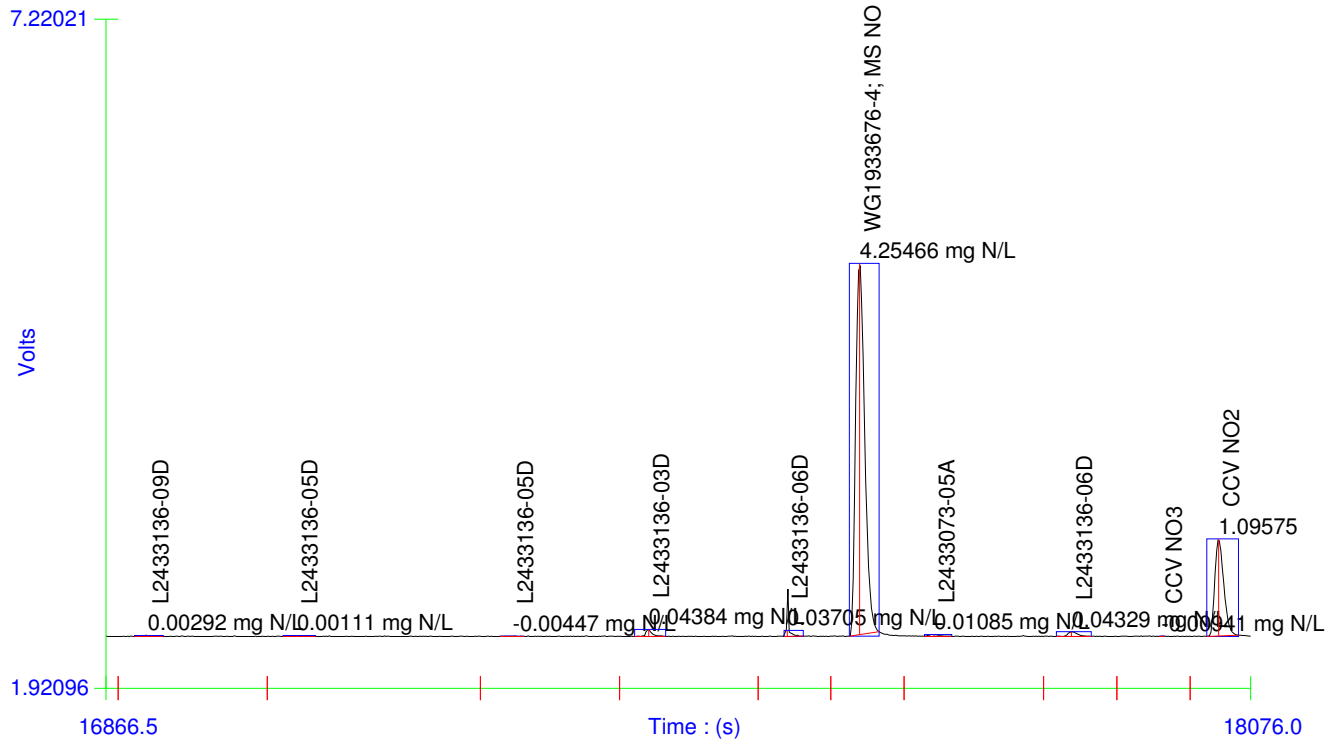


Channel 2 (NO2) - Set: 21 / 22



Channel 2 (NO2) - Set: 22 / 22

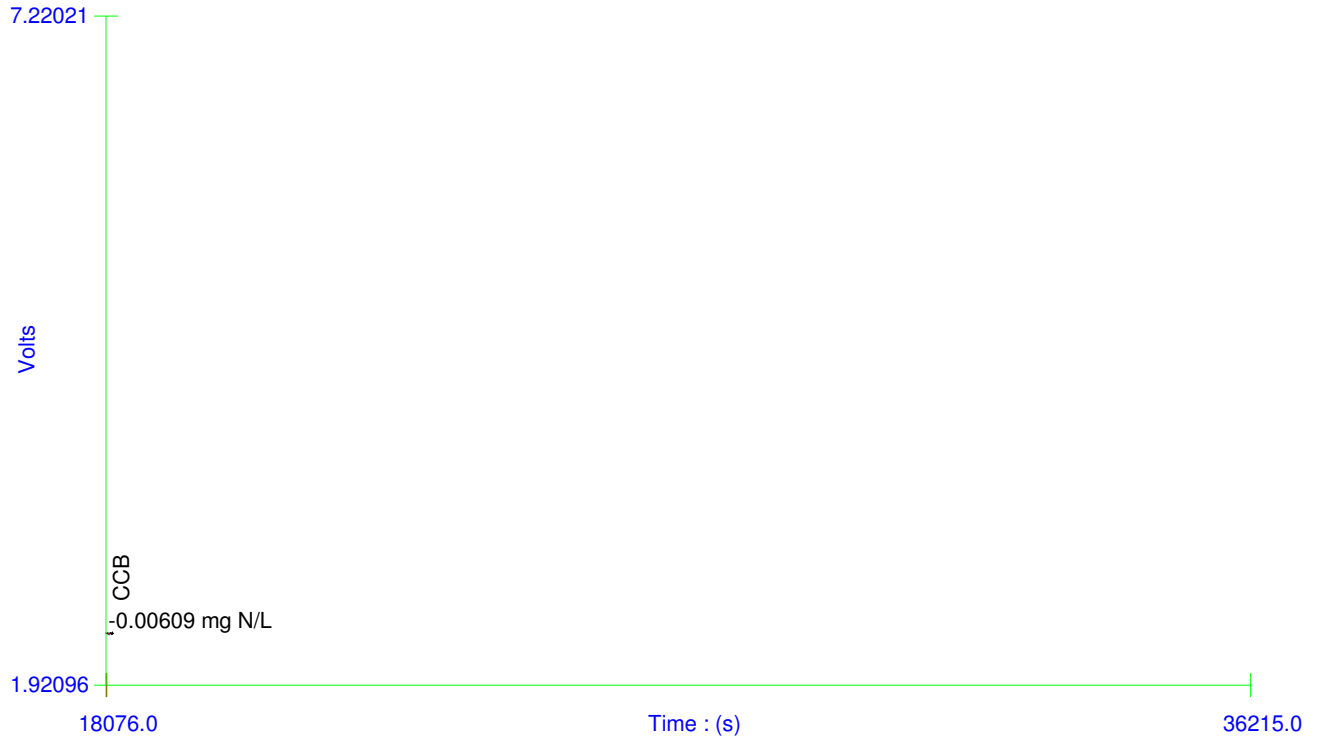


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.98513	1.57111	0.0	1.2	7.90076	6/13/2024	2:02:48 AM
2	4.00000	1	9.26567	0.81861	0.0	-1.8	4.07105	6/13/2024	2:04:08 AM
3	1.00000	1	2.25672	0.19968	0.0	0.7	0.99263	6/13/2024	2:05:25 AM
4	0.40000	1	0.91877	0.08158	0.0	-1.3	0.40498	6/13/2024	2:06:43 AM
5	0.20000	1	0.47939	0.04248	0.0	-6.0	0.21200	6/13/2024	2:08:01 AM
6	0.10000	1	0.24913	0.02150	0.0	-10.9	0.11086	6/13/2024	2:09:20 AM
7	0.00000	1	-0.04407	-0.00206			-0.01791	6/13/2024	2:10:35 AM

Figure : 1 (NO3+NO2)

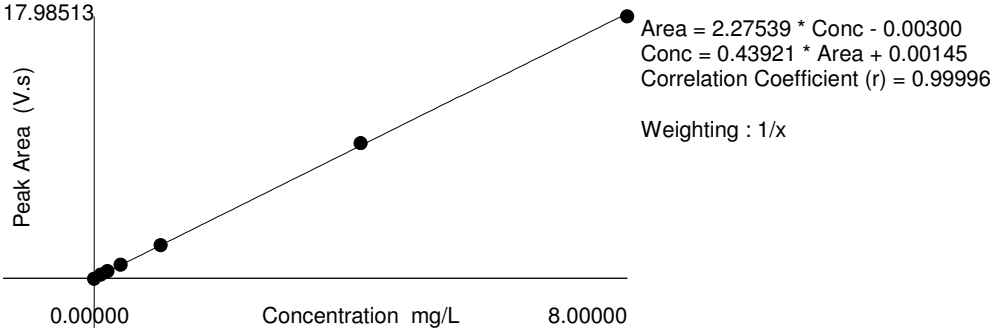
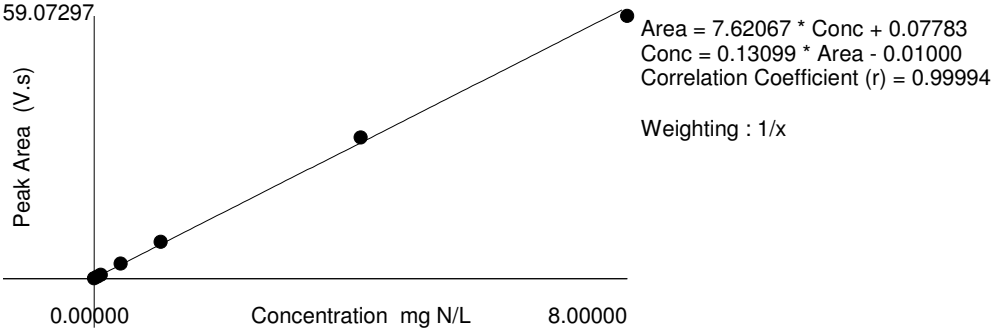


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	59.07297	4.98957	0.0	3.2	7.72791	6/13/2024	2:11:53 AM
2	4.00000	1	31.76239	2.86411	0.0	-3.9	4.15053	6/13/2024	2:13:09 AM
3	1.00000	1	8.25556	0.74860	0.0	-7.2	1.07139	6/13/2024	2:14:28 AM
4	0.40000	1	3.36005	0.30144	0.0	-7.5	0.43013	6/13/2024	2:15:45 AM
5	0.10000	1	0.84095	0.07428	0.0	-0.1	0.10016	6/13/2024	2:17:03 AM
6	0.05000	1	0.43512	0.03829	0.0	5.2	0.04700	6/13/2024	2:18:22 AM
7	0.00000	1	0.04124	0.00340			-0.00459	6/13/2024	2:19:38 AM

Figure : 2 (Nitrite)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2432940-01		
Matrix Spike	: WG1933613-4	**MS Analysis Date**	: 06/13/24 05:56
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate/Nitrite	0.27	4	4.2	98					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/13/24 05:53
Dup Sample ID	: WG1933613-3	**DUP Analysis Date**	: 06/13/24 05:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.27	0.23	16	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1933613-2	**LCS Analysis Date**	: 06/13/24 03:01
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.00**	**100.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 061324

Initals: KAF

Syringe Lot: 20230620

Filter Lot: 18048470A

Cup #:	Sample ID:
1	**ICV NO3 5**
2	**ICV NO2 5**
3	**ICV NO3 0.5**
4	**ICV NO2 0.5**
5	**ICB**
6	**5X DILUTER CHECK**
7	**BLANK NO3**
8	**LCS NO3**
9	**BLANK NO2**
10	**LCS NO2**
11	**WG1933605-1; NO2**
12	**WG1933605-2; NO2**
13	**WG1933607-1; NO2**
14	**WG1933607-2; NO2**
15	**WG1933609-1; NO3**
16	**WG1933609-2; NO3**
17	**WG1933610-1; NO3**
18	**WG1933610-2; NO3**
19	**WG1933611-1; CNO3**
20	**WG1933611-2; CNO3**
21	**WG1933612/613-1; CNO3**
22	**WG1933612/613-2; CNO3**
23	**L2432701-01**
24	**L2432828-01**
25	**L2432828-02**
26	**L2432867-01**
27	**WG1933609-3; NO3**
28	**WG1933609-4; NO3**
29	**WG1933605-3; NO2**
30	**WG1933605-4; NO2**
31	**L2432868-01**
32	**L2432868-02**
33	**L2432868-03**
34	**L2432868-04**
35	**L2432885-01**
36	**L2432888-01**
37	**L2432889-01**
38	**WG1933609-5; NO3**
39	**WG1933609-6; NO3**
40	**WG1933605-5; NO2**
41	**WG1933605-6; NO2**
42	**L2433034-01**
43	**L2433034-02**

Comments:

Buffer: NO3NO2_060624_BUFFER

Color: NO3NO2_060724_COLOR

NO3 MS: NO3_061224_200PPM_CAL

NO2 MS: NO2_060424_200PPM_CAL

ICV NO3 5: NO3_060824_5PPM_ICV

ICV NO2 5: NO2_060824_5PPM_ICV

ICV NO3 0.5: NO3_061324_0.5PPM_ICV

ICV NO2 0.5: NO2_061324_0.5PPM_ICV

OOH

DW

GOING OOH

FIELD BLANK

Cup #:	Sample ID:	Comments:
44	**L2433034-03**	
45	**L2433034-04**	
46	**L2433034-05**	
47	**L2433036-02**	
48	**L2433083-01**	
49	**L2433084-01**	
50	**L2433086-01**	
51	**L2433087-01**	
52	**L2433093-01**	
53	**L2433040-01**	
54	**WG1933610-3; NO3**	
55	**WG1933610-4; NO3**	
56	**WG1933607-3; NO2**	
57	**WG1933607-4; NO2**	
58	**L2433080-01**	
59	**L2432047-01**	
60	**WG1933611-3; CNO3**	
61	**WG1933611-4; CNO3**	
62	**L2432047-02**	
63	**L2432047-03**	
64	**L2432047-04**	
65	**L2432047-05**	
66	**L2431614-01**	
67	**WG1933611-5; CNO3**	
68	**WG1933611-6; CNO3**	
69	**L2432121-01**	
70	**L2432213-01**	
71	**L2432214-01**	
72	**L2432351-01**	
73	**L2432351-02**	
74	**L2432485-02**	
75	**L2432541-01**	
76	**L2432541-02**	
77	**L2432541-03**	
78	**L2432547-01**	
79	**L2432550-01**	
80	**L2432554-02**	
81	**L2432654-01**	
82	**L2432737-01**	
83	**L2432003-01**	
84	**WG1933612-3; CNO3**	
85	**WG1933612-4; CNO3**	
86	**L2432633-01**	
87	**L2432633-02**	
88	**L2432633-03**	
89	**L2432633-04**	

Cup #:	Sample ID:	Comments:
90	**L2432795-11**	
91	**L2432795-12**	
92	**L2432795-13**	
93	**L2432940-01**	
94	**WG1933613-3; CNO3**	
95	**WG1933613-4; CNO3**	
96	**L2432940-02**	
97	**WG1933681-1; NO3**	
98	**WG1933681-2; NO3**	
99	**WG1933676-1; NO2**	
100	**WG1933676-2; NO2**	
101	**l2432778-03f**	
102	**WG1933610-5; NO3**	
103	**WG1933610-6; NO3**	
104	**l2433073-01a**	
105	**l2433073-02a**	
106	**l2433073-03a**	
107	**l2433073-04a**	
108	**l2433073-05a**	
109	**l2433073-06a**	
110	**l2433073-07a**	
111	**l2433136-01d**	
112	**WG1933681-3; NO3**	
113	**WG1933681-4; NO3**	
114	**WG1933676-3; NO2**	
115	**WG1933676-4; NO2**	
116	**l2433136-02d**	
117	**l2433136-03d**	
118	**l2433136-04d**	
119	**l2433136-05d**	
120	**l2433136-06d**	
121	**l2433136-07d**	
122	**l2433136-08d**	
123	**l2433136-09d**	
124		
125		
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133		
134		
135		

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**150**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	94.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	270	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	100	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933626-1	**Date Collected**	: NA
Client ID	: WG1933626-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933626-3	**Date Collected**	: 06/10/24 10:30
Client ID	: WG1933626-3 DUP	**Date Received**	: 06/10/24
Sample Location	:	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**10000**	**40**	**12.**	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933626-4	**Date Collected**	: 06/11/24 09:45
Client ID	: WG1933626-4 DUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/13/24 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1933626.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	1400	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: JUN-14-24 07:58:32

WorkGroup	WG1933626	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	13-JUN-24 18:00	**Time In**	14-JUN-24 02:26	**Time In**	14-JUN-24 05:19	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	14-JUN-24 02:26	**Time Out**	14-JUN-24 05:12	**Time Out**	14-JUN-24 06:41	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	13-JUN-24 10:27	060524A	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2432271-02	13-JUN-24 03:27	DEB WHELAN	AZ	71913376	71.496	25	71.7614	71.7611				10604.00	4	
L2432352-01	13-JUN-24 03:27	DEB WHELAN	FO	71913376	72.1587	80	72.2188	72.2188				751.25	1.3	
L2432352-02	13-JUN-24 03:27	DEB WHELAN	EX	71913376	66.3238	80	66.3485	66.3486				308.75	1.3	
L2432352-03	13-JUN-24 03:27	DEB WHELAN	AA3	71913376	67.8048	80	67.8132	67.8128				100.00	1.3	
L2432352-04	13-JUN-24 03:27	DEB WHELAN	CE	71913376	64.7604	80	64.7834	64.7832				285.00	1.3	
L2432352-05	13-JUN-24 03:27	DEB WHELAN	GA	71913376	65.7447	80	65.8198	65.8196				936.25	1.3	
L2432352-06	13-JUN-24 03:27	DEB WHELAN	W6	71913376	72.6352	80	72.6633	72.6636				351.25	1.3	
L2432352-07	13-JUN-24 03:27	DEB WHELAN	PG	71913376	61.7296	80	61.8266	61.8286	61.8285			1212.50	1.3	
L2432352-08	13-JUN-24 03:27	DEB WHELAN	RA	71913376	73.3063	80	73.3844	73.3846				976.25	1.3	T4
L2432521-01	13-JUN-24 03:27	DEB WHELAN	TL	71913376	65.2302	25	65.3582	65.3579				5108.00	4	
L2432547-01	13-JUN-24 03:27	DEB WHELAN	BU	71913376	106.5568	80	106.6622	106.662				1315.00	1.3	
L2432550-01	13-JUN-24 03:27	DEB WHELAN	CD	71913376	69.0925	80	69.2024	69.2021				1370.00	1.3	
L2432570-01	13-JUN-24 03:27	DEB WHELAN	SE	71913376	83.8713	80	83.9867	83.9869				1442.50	1.3	
L2432570-03	13-JUN-24 03:27	DEB WHELAN	BI	71913376	84.5071	80	84.6224	84.6223				1440.00	1.3	
L2432570-05	13-JUN-24 03:27	DEB WHELAN	AA	71913376	113.1677	80	113.2843	113.2842				1456.25	1.3	
L2432633-01	13-JUN-24 03:27	DEB WHELAN	MQ	71913376	89.4591	80	89.4711	89.4715				150.00	1.3	
L2432633-02	13-JUN-24 03:27	DEB WHELAN	PT	71913376	109.4775	80	109.485	109.4853				93.75	1.3	
L2432633-03	13-JUN-24 03:27	DEB WHELAN	QG	71913376	107.0288	80	107.051	107.0506				272.50	1.3	
L2432633-04	13-JUN-24 03:27	DEB WHELAN	RG	71913376	137.1313	80	137.1398	137.1396				103.75	1.3	
L2432654-01	13-JUN-24 03:27	DEB WHELAN	AD2	71913376	128.8056	80	128.9346	128.935				1612.50	1.3	
WG1933626-1	13-JUN-24 03:27	DEB WHELAN	EU	71913376	63.7581	100	63.758	63.7582				-1.00	1	T3
WG1933626-2	13-JUN-24 03:27	DEB WHELAN	BE	71913376	66.6947	50	66.7172	66.717				446.00	2	
WG1933626-3	13-JUN-24 03:27	DEB WHELAN	EZ	71913376	61.2955	25	61.5594	61.5612	61.5577			10488.00	4	

Alpha Analytical

Wet Chemistry Gravimetric ELN

Printed: JUN-14-24 07:58:32

WorkGroup	WG1933626	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	13-JUN-24 18:00	**Time In**	14-JUN-24 02:26	**Time In**	14-JUN-24 05:19	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	14-JUN-24 02:26	**Time Out**	14-JUN-24 05:12	**Time Out**	14-JUN-24 06:41	**Time Out**		**Time Out**					

Temp In (C)	**Time In**
90	13-JUN-24 10:27

LCS Lot #	**TrueValue**	**Units**
060524A	500	mg/l

Sample #	**Analysis Date**	**Analyst**	**Cup ID**			**Sample Volume (ml)**						**Result mg/L**	**Dil**	**Comment**
WG1933626-4	13-JUN-24 03:27	DEB WHELAN	FR	71913376	59.188	80	59.2961	59.2979	59.2977			1351.25	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/13/24 03:27
Dup Sample ID	: WG1933626-3	**DUP Analysis Date**	: 06/13/24 03:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	11000	10000	10	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/13/24 03:27
Dup Sample ID	: WG1933626-4	**DUP Analysis Date**	: 06/13/24 03:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	1300	1400	7	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1933626-2	**LCS Analysis Date**	: 06/13/24 03:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**450.**	**89.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935404.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	6.5	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935404.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	4.2	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935404.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	24.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935404.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	12.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935404-1	**Date Collected**	: NA
Client ID	: WG1935404-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935404.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	1.7	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935404-3	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13SDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/17/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935404.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	22.	10	1.4	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4072
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number:_____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml):0.5
Spike Concentration (mg/l):1000

Product: SO4-4500
Curve Calibration Date :06/17/24
Curve Identifier: 6/17/2024
Analysis Analyte: Sulfate
Analysis Date: 6/17/2024 15:15
Preparation Date: 6/17/2024 15:15
Technician: MRW
Work group: WG1935404
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.62
10	0.153	1.0	8.05
20	0.430	1.0	19.7
40	0.929	1.0	40.6

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.023806	-0.0386

Correlation Coefficient
0.996050

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0	0.000	1.747	1	1.0	1.7	**Recovery**
	ICV	25	25	0	0.436	0.436	19.917	1	1.0	19.9	100%
SAMP	L2432633-01	25	25	0.007	0.121	0.114	6.498	1	1.0	6.5	
SAMP	L2432633-02	25	25	0.065	0.125	0.060	4.247	1	1.0	4.2	
SAMP	L2432633-03	25	25	0.008	0.549	0.541	24.293	1	1.0	24.3	
SAMP	L2432633-04	25	25	0.015	0.268	0.253	12.291	1	1.0	12.3	
	CCV	25	25	0	0.426	0.426	19.500	1	1.0	19.5	
	CCB	25	25	0	0.002	0.002	1.830	1	1.0	1.8	
		25	25					1	1.0		
		25	25					1	1.0		
LOQ2	WG1935404-5	25	25	0	0.156	0.156	8.248	1	1.0	8.2	
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
BLANK	WG1935404-1	25	25	0.000	0.000	0.000	1.747	1	1.0	1.7	
DUP	WG1935404-3	25	25	0.007	0.496	0.489	22.126	1	1.0	22.1	**L2432633-03**

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1935404-4	12.5	25	0.005	0.669	0.664	24.300	25	40.0000	59	**86**
											L2432633-03
LCS	WG1935404-2	25	25	0	0.436	0.436		1	20.0000	20	**100**

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13S	**Matrix**	: WATER
Lab Sample ID	: L2432633-03		
Matrix Spike	: WG1935404-4	**MS Analysis Date**	: 06/17/24 15:15
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	24.	40	59.	88					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13S	**Matrix**	: WATER
Lab Sample ID	: L2432633-03	**Analysis Date**	: 06/17/24 15:15
Dup Sample ID	: WG1935404-3	**DUP Analysis Date**	: 06/17/24 15:15

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	24.	22.	9	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935404-2	**LCS Analysis Date**	: 06/17/24 15:15
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Sulfate	20.0	20.0	100.					90-110	14

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV1.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	119.	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV1.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	35.9	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV1.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	222.	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV1.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	19.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935720-1	**Date Collected**	: NA
Client ID	: WG1935720-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 08:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV1.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935720-3	**Date Collected**	: 06/04/24 16:50
Client ID	: WG1935720-3 DUP	**Date Received**	: 06/05/24
Sample Location	:	**Date Analyzed**	: 06/18/24 08:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV1.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	6.966	pH		-56.01	mV/pH						

Results Editor

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.01	pH		6/18/2024 7	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.846 mL	OK
		Consumption 4.2 R3	0.852 mL	OK
		Content R5	16.920 mg/L	OK
		ALK LOW R6	16.800 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.024 mL	OK
		Consumption 4.2 R3	0.034 mL	OK
		Content R5	0.480 mg/L	OK
		ALK LOW R6	0.280 mg/L	OK
3	WG1935720-1	Sample size	50 mL	
		Potential R4	4.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.009 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1935720-2	Sample size	50 mL	
		Potential R4	11.03 pH	OK
		Consumption 8.3 R1	4.919 mL	OK
		Consumption 4.5 R2	5.383 mL	OK
		Consumption 4.2 R3	5.383 mL	OK
		Content R5	107.660 mg/L	OK
		ALK LOW R6	107.660 mg/L	OK
5	I2431182-16	Sample size	50 mL	
		Potential R4	4.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.809 mL	OK
		Consumption 4.2 R3	0.884 mL	OK
		Content R5	16.180 mg/L	OK
		ALK LOW R6	14.680 mg/L	OK
6	I2431182-18	Sample size	50 mL	

Titration report

		Potential R4	4.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.168 mL	OK
		Consumption 4.2 R3	0.308 mL	OK
		Content R5	3.360 mg/L	OK
		ALK LOW R6	0.560 mg/L	OK
7	WG1935720-3	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.205 mL	OK
		Consumption 4.2 R3	0.325 mL	OK
		Content R5	4.100 mg/L	OK
		ALK LOW R6	1.700 mg/L	OK
8	WG1935720-4	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.111 mL	OK
		Consumption 4.2 R3	5.207 mL	OK
		Content R5	102.220 mg/L	OK
		ALK LOW R6	100.300 mg/L	OK
9	I2431182-20	Sample size	50 mL	
		Potential R4	4.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.136 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
10	I2431182-22	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.109 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
11	I2431182-24	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.263 mL	OK
		Consumption 4.2 R3	6.386 mL	OK
		Content R5	125.260 mg/L	OK
		ALK LOW R6	122.800 mg/L	OK
12	I2431182-26	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.943 mL	OK
		Consumption 4.2 R3	17.429 mL	OK
		Content R5	338.860 mg/L	OK

Titration report

		ALK LOW R6	329.140 mg/L	OK
13	I2431182-28	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.121 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
14	I2432633-01	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.955 mL	OK
		Consumption 4.2 R3	6.018 mL	OK
		Content R5	119.100 mg/L	OK
		ALK LOW R6	117.840 mg/L	OK
15	I2432633-02	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.796 mL	OK
		Consumption 4.2 R3	1.813 mL	OK
		Content R5	35.920 mg/L	OK
		ALK LOW R6	35.580 mg/L	OK
16	I2432633-03	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.080 mL	OK
		Consumption 4.2 R3	11.280 mL	OK
		Content R5	221.600 mg/L	OK
		ALK LOW R6	217.600 mg/L	OK
17	I2432633-04	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.980 mL	OK
		Consumption 4.2 R3	1.000 mL	OK
		Content R5	19.600 mg/L	OK
		ALK LOW R6	19.200 mg/L	OK
18	WG1935730-2	Sample size	50 mL	
		Potential R4	11.14 pH	OK
		Consumption 8.3 R1	4.790 mL	OK
		Consumption 4.5 R2	5.107 mL	OK
		Consumption 4.2 R3	5.114 mL	OK
		Content R5	102.140 mg/L	OK
		ALK LOW R6	102.000 mg/L	OK
19	WG1935730-1	Sample size	50 mL	
		Potential R4	4.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.027 mL	OK

Titration report

		Consumption 4.2 R3	0.035 mL	OK
		Content R5	0.540 mg/L	OK
		ALK LOW R6	0.380 mg/L	OK
20	I2431182-30	Sample size	50 mL	
		Potential R4	4.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.166 mL	OK
		Consumption 4.2 R3	5.726 mL	OK
		Content R5	3.320 mg/L	OK
		ALK LOW R6	-107.880 mg/L	OK
21	I2431182-30	Sample size	50 mL	
		Potential R4	4.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.176 mL	OK
		Consumption 4.2 R3	0.230 mL	OK
		Content R5	3.520 mg/L	OK
		ALK LOW R6	2.440 mg/L	OK
22	WG1935730-3	Sample size	50 mL	
		Potential R4	4.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.159 mL	OK
		Consumption 4.2 R3	0.226 mL	OK
		Content R5	3.180 mg/L	OK
		ALK LOW R6	1.840 mg/L	OK
23	WG1935730-4	Sample size	50 mL	
		Potential R4	9.46 pH	OK
		Consumption 8.3 R1	2.168 mL	OK
		Consumption 4.5 R2	5.654 mL	OK
		Consumption 4.2 R3	5.665 mL	OK
		Content R5	113.080 mg/L	OK
		ALK LOW R6	112.860 mg/L	OK
24	I2431182-32	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.985 mL	OK
		Consumption 4.2 R3	6.046 mL	OK
		Content R5	119.700 mg/L	OK
		ALK LOW R6	118.480 mg/L	OK
25	I2431182-34	Sample size	50 mL	
		Potential R4	5.88 pH	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.919 mL	**Minimum**	2.168 mL

Titration report

Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	24	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	16.943 mL	**Minimum**	0.024 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	24	**Samples excluded**	0

R3

Mean	3.347 mL		
Maximum	17.429 mL	**Minimum**	0.009 mL
Standard deviation	4.318 mL	**Rel. standard deviation**	129.010 %
Total samples	24	**Samples excluded**	0

R4

Mean	5.85 pH		
Maximum	11.14 pH	**Minimum**	4.37 pH
Standard deviation	1.92 pH	**Rel. standard deviation**	32.770 %
Total samples	25	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	338.860 mg/L	**Minimum**	0.480 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	24	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	329.140 mg/L	**Minimum**	-107.880 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	24	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/18/2024 8:00:24 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/18/24 08:09
Dup Sample ID	: WG1935720-3	**DUP Analysis Date**	: 06/18/24 08:10

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	ND	ND	NC	9

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240618	LCS 7.0	7.01	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse	42
2	Rinse	43
3	blank	44
4	lcs	45
5	l2431182-16	46
6	l2431182-18	47
7	DUP	48
8	MS	49
9	l2431182-20	50
10	l2431182-22	51
11	l2431182-24	52
12	l2431182-26	53
13	l2431182-28	54
14	l2432633-01	55
15	l2432633-02	56
16	l2432633-03	57
17	l2432633-04	58
18	CCV	59
19	CCB	60
20		61
21		62
22		63
23		64
24		65
25		66
26		67
27		68
28		69
29		70
30		71
31		72
32		73
33		74
34		75
35		76
36		
37		
38		
39		
40		
41		

Chloride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/12/24 20:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: TLH
Lab File ID	: CL240612-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	5.3	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/12/24 20:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: TLH
Lab File ID	: CL240612-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	12.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/12/24 20:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: TLH
Lab File ID	: CL240612-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	2.9	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/12/24 20:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: TLH
Lab File ID	: CL240612-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	25.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933453-1	**Date Collected**	: NA
Client ID	: WG1933453-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/12/24 20:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: TLH
Lab File ID	: CL240612-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933453-3	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11SDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/12/24 20:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: TLH
Lab File ID	: CL240612-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	5.4	1.0	0.89	

Sample Raw Data

Author:

Date : 6/12/2024

Original Run Filename: OM_6-12-2024_08-16-49PM.OMN Created: 6/12/2024 8:16:49 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-12-2024_08-16-49PM.OMN Last Modified: 6/12/2024 10:25:32 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
Sample1	1	S1	100.00000			
Sample2	1	S2	80.00000			
Sample3	1	S3	20.00000			
Sample4	1	S4	10.00000			
Sample5	1	S5	5.00000			
Sample6	1	S6	2.00000			
Sample7	1	S7	1.00000			
Sample8	1	S9	0.00000			
CCV	1	S3	18.79238	✓		
	Known Conc:		20.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S9	0.19223	✓		
	Known Conc:		0.00000			
ICV 5.0	1	1	5.24609	105		
ICV 30.0	1	2	29.77970	99		
ICV 80.0	1	3	86.83980	108		
ICB	1	4	0.30752			
100 PPM	1	5	91.73552	10.00	✓	
WG1933453/70-1; BLK	1	6	0.01214			
WG1933453/70-2; LCS	1	7	28.26061	94		
L2432633-01	1	8	5.33905			
WG1933453-3; DUP	1	9	5.36454			
WG1933453-4; MS	1	10	21.90496	10.00		
CCV	1	S3	19.11366	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.18738	✓		
	Known Conc:		0.00000			
WG1933473/74-1; BLK	1	11	0.05652			
WG1933473/74-2; LCS	1	12	28.13170	94		
WG1933453-5; LOQ2	1	13	1.63955			
L2432633-02	1	14	12.38137			
L2432633-03	1	15	2.90801			
L2432633-04	1	16	24.60744			
L2432732-02	1	17	39.81013			
L2432747-01	1	18	526.40942			
L2432747-02	1	19	551.61182			
L2432282-01	1	20	521.51367	10.00		
CCV	1	S3	20.24745	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.43363	✓		
	Known Conc:		0.00000			
L2432282-02	1	21	58.07020			
L2432668-01	1	22	147.37453			
L2432668-02	1	23	120.41980			
WG1933470-3; DUP	1	24	120.70440			
WG1933470-4; MS	1	25	131.37769			
L2432668-03	1	26	126.66710			
L2432668-04	1	27	147.23030			
L2432668-05	1	28	170.38893			
L2432668-06	1	29	185.04204			
L2430597-01	1	30	5.10513	10.00		
CCV	1	S3	19.35115	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.22715	✓		
	Known Conc:		0.00000			
WG1933473-3; DUP	1	31	3.56849			
WG1933473-4; MS	1	32	22.61024			
L2430597-02	1	33	0.33281			

L2432410-01	1	34	317.23331			
WG1933474-3; DUP	1	35	315.65555			
WG1933474-4; MS	1	36	320.33453			
L2432410-02	1	37	186.58418			
L2432410-03	1	38	209.04967			
L2432410-04	1	39	308.72339			
L2432410-05	1	40	51.61921	10.00		
CCV	1	S3	19.10244	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.20392	✓		
	Known Conc:		0.00000			
L2432410-06	1	41	273.71921			
L2432410-08	1	42	1.06661			
L2432770-01	1	43	244.71523			
L2432770-02	1	44	262.36725			
L2432770-03	1	45	151.26857			
L2432770-04	1	46	242.45277			
L2432770-05	1	47	211.15707			
L2432770-08	1	48	1.07286			
L2432770-09	1	49	365.40359	10.00		
WG1933500-1; BLK	1	50	3.88133			0.10020 g
CCV	1	S3	18.94217	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.21145	✓		
	Known Conc:		0.00000			
WG1933500-2; LCS	1	51	381.45825	96		0.10050 g
L2432776-01	1	52	4.83774			0.10170 g
L2432776-02	1	53	60.12264			0.10140 g
L2432776-03	1	54	1.98930			0.10000 g
WG1933500-3; DUP	1	55	3.19821			0.10080 g
WG1933500-4; MS	1	56	386.26285			0.10180 g
WG1933500-5; LOQ1	1	57	13.22681			0.10000 g
L2432776-04	1	58	6.53089			0.10050 g
WG1933453-4; MS	1	10	24.98816			
L2432747-01	1	18	2965.64331	10.00		
CCV	1	S3	20.31653			
	Known Conc:		20.00000			
CCB	1	S9	0.26923	✓		
	Known Conc:		0.00000			
L2432747-02	1	19	2954.75122	10.00		
L2432668-01	1	22	177.79839	10.00		
L2432668-02	1	23	131.01454	10.00		
WG1933470-3; DUP	1	24	131.34656	10.00		
WG1933470-4; MS	1	25	150.51134	10.00		
L2432668-03	1	26	140.65793	10.00		
L2432668-04	1	27	172.81500	10.00		
L2432668-05	1	28	205.10916	10.00		
L2432668-06	1	29	234.86761	10.00		
L2432410-01	1	34	602.20514	10.00		
CCV	1	S3	19.32931	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.09208	✓		
	Known Conc:		0.00000			
WG1933474-3; DUP	1	35	586.13159	10.00		
WG1933474-4; MS	1	36	595.67804	10.00		
L2430597-01	1	30	3.63265			
L2432410-02	1	37	241.22205	10.00		
L2432410-03	1	38	290.73273	10.00		
L2432410-04	1	39	567.83789	10.00		
L2432410-06	1	41	453.06699	10.00		
L2432770-01	1	43	372.57953	10.00		
L2432770-02	1	44	404.24622	10.00		
L2432770-03	1	45	179.19910	10.00		
CCV	1	S3	18.83694	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.07420	✓		
	Known Conc:		0.00000			
L2432770-04	1	46	366.23322	10.00		

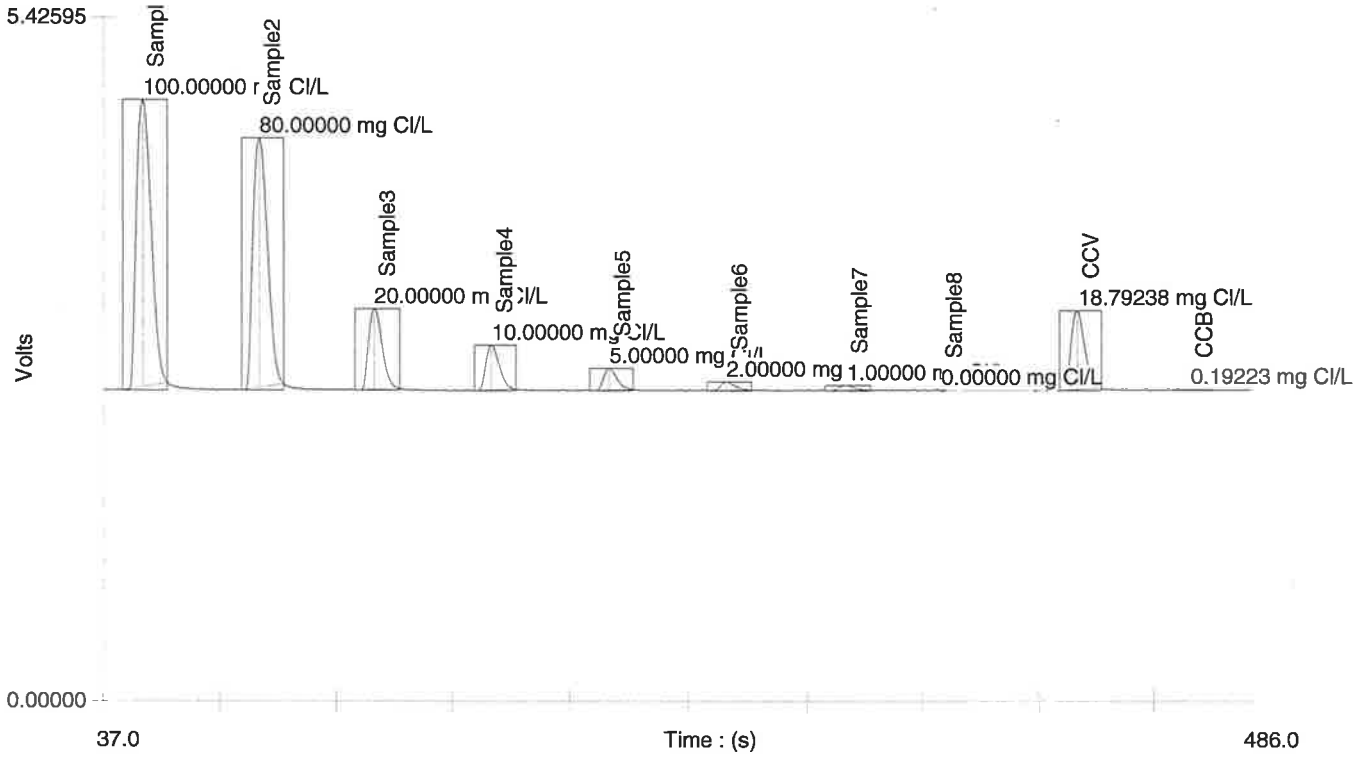
49 812
92%

Author:

Date : 6/12/2024

L2432410-05	1	40	55.71055			
L2432770-05	1	47	294.44031	10.00		
L2432410-08	1	42	0.34644			
L2432747-01	1	18	4743.79785	100.00		
L2432747-02	1	19	4877.73389	100.00		
CCV	1	S3	18.68257	✓		
	Known Conc:		20.00000			
CCB	1	S9	0.20442	✓		
	Known Conc:		0.00000			

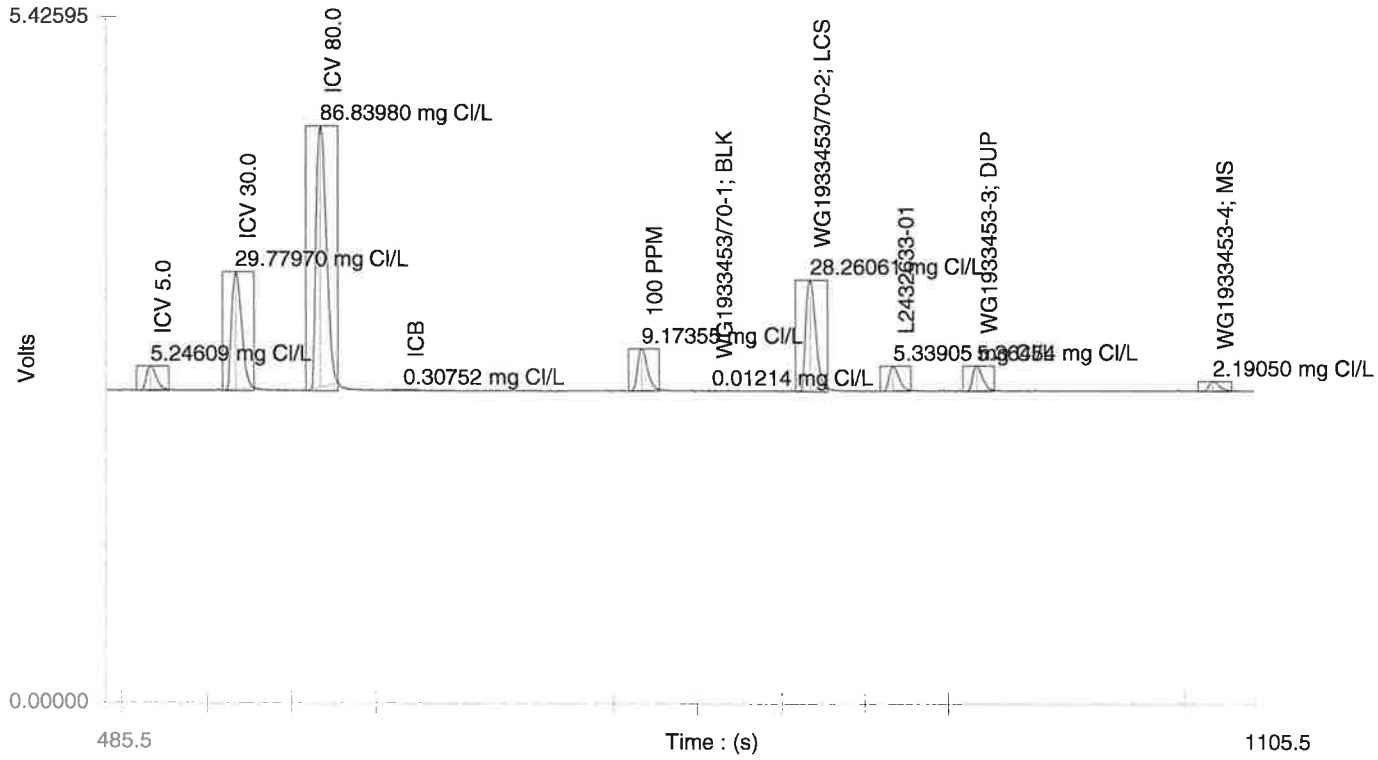
Channel 1 (Chloride) - Set: 1 / 12



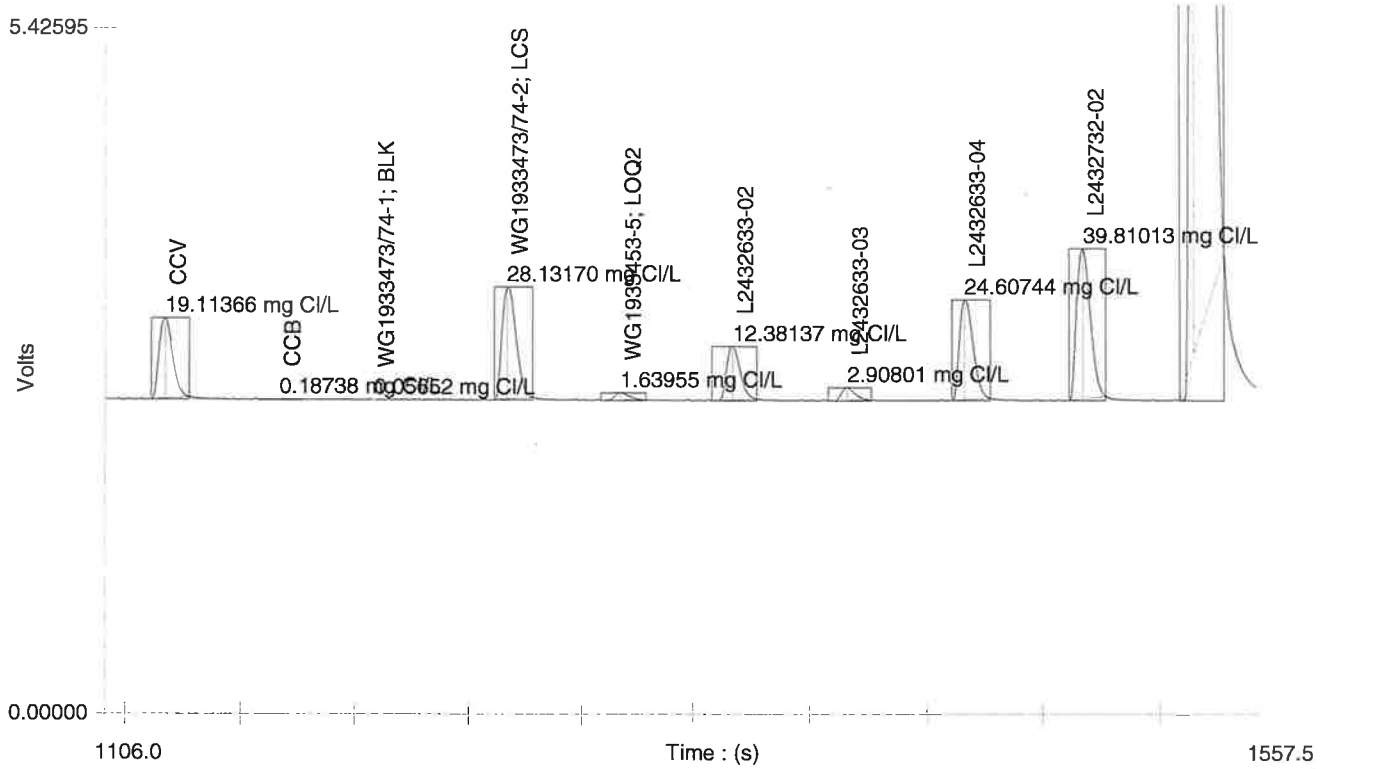
Author:

Date : 6/12/2024

Channel 1 (Chloride) - Set: 2 / 12



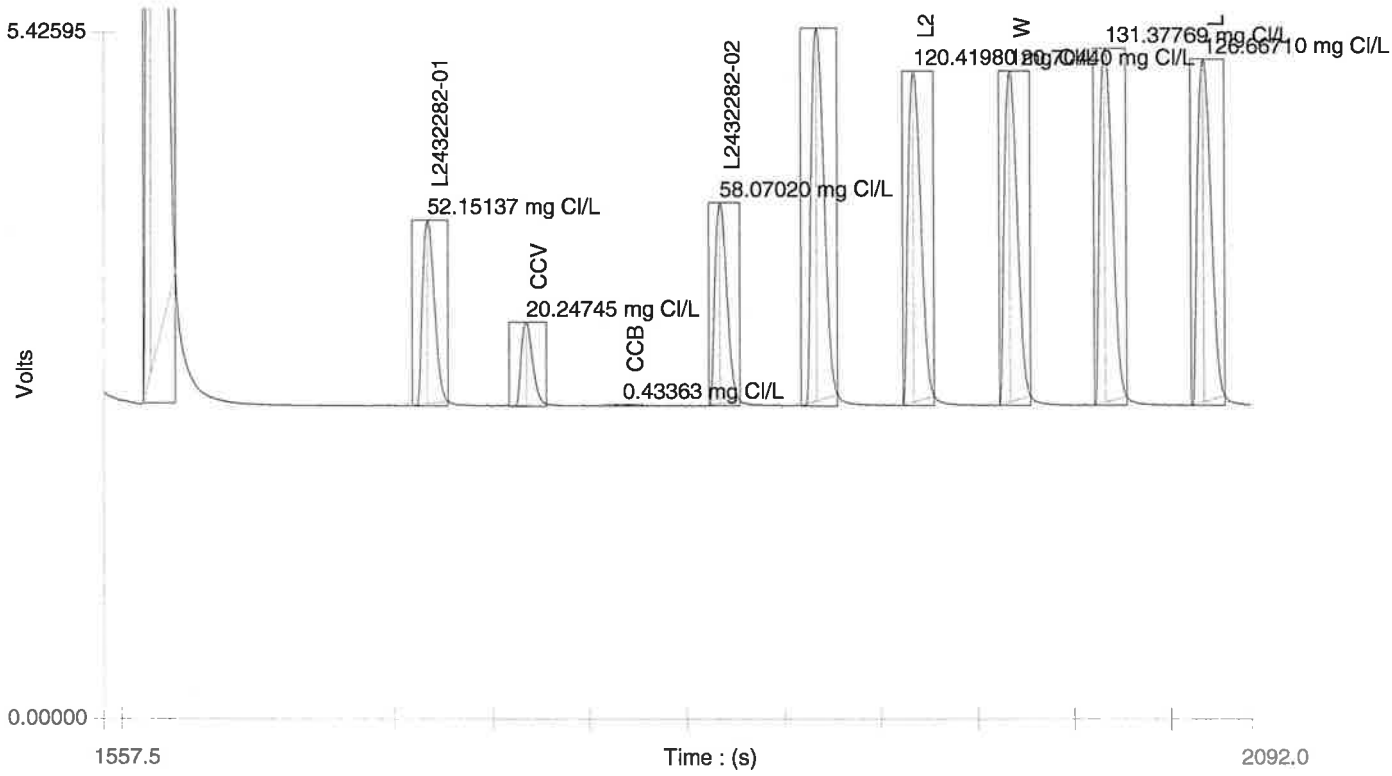
Channel 1 (Chloride) - Set: 3 / 12



Author:

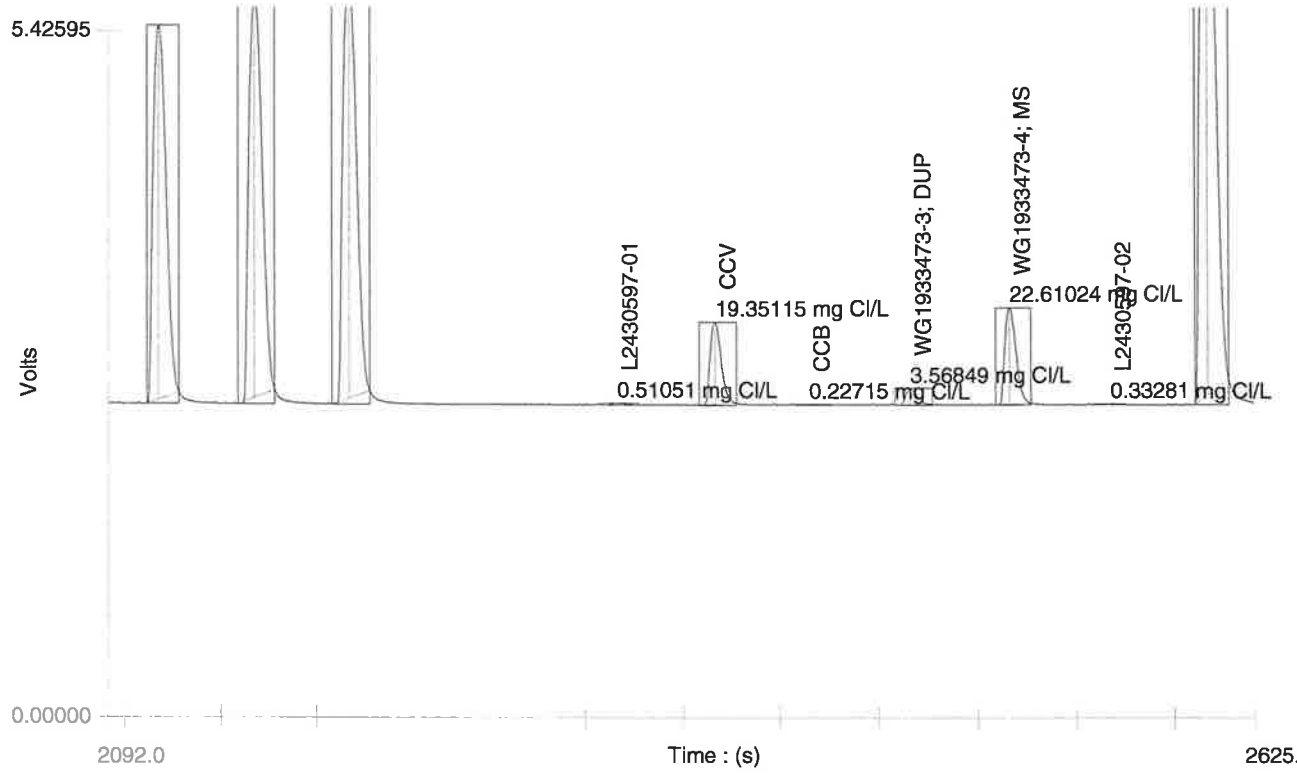
Date : 6/12/2024

Channel 1 (Chloride) - Set: 4 / 12

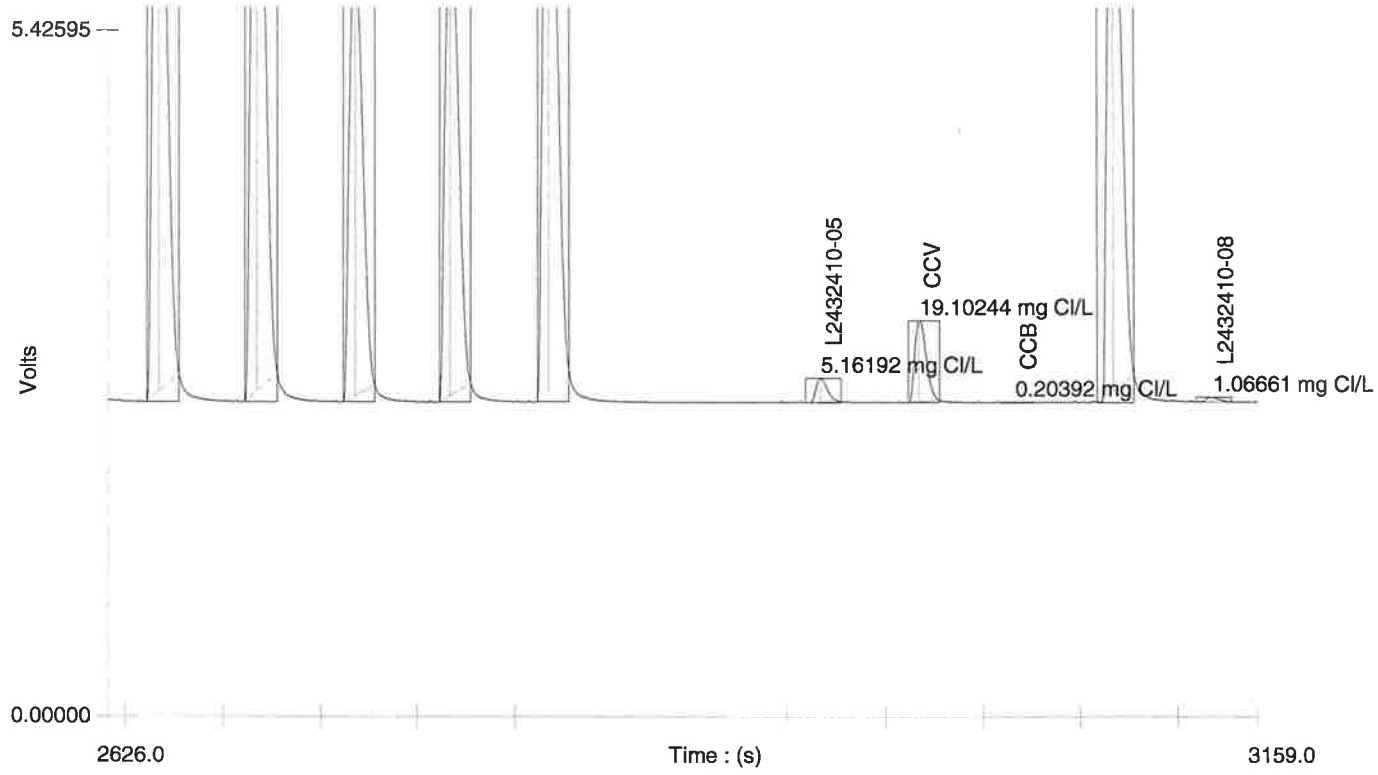


Author: Date : 6/12/2024

Channel 1 (Chloride) - Set: 5 / 12



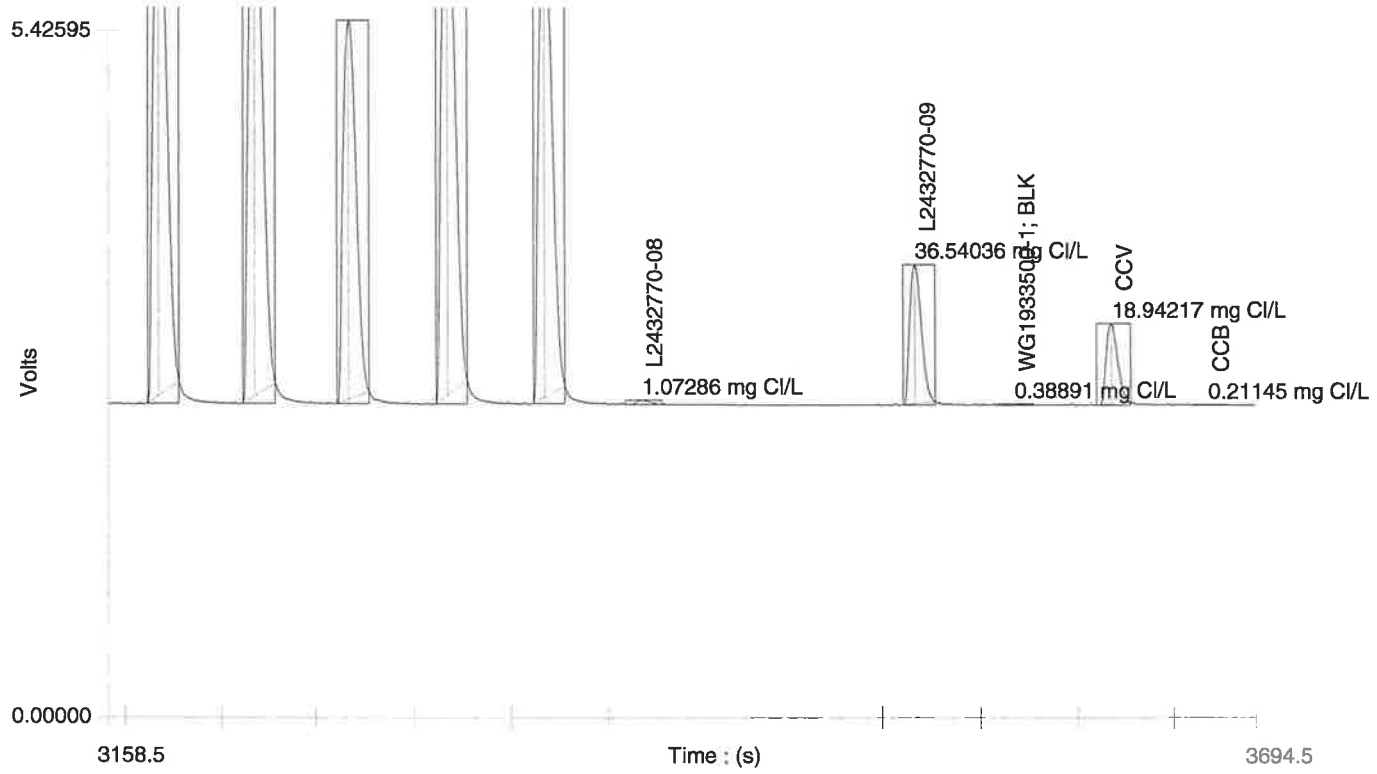
Channel 1 (Chloride) - Set: 6 / 12



Author:

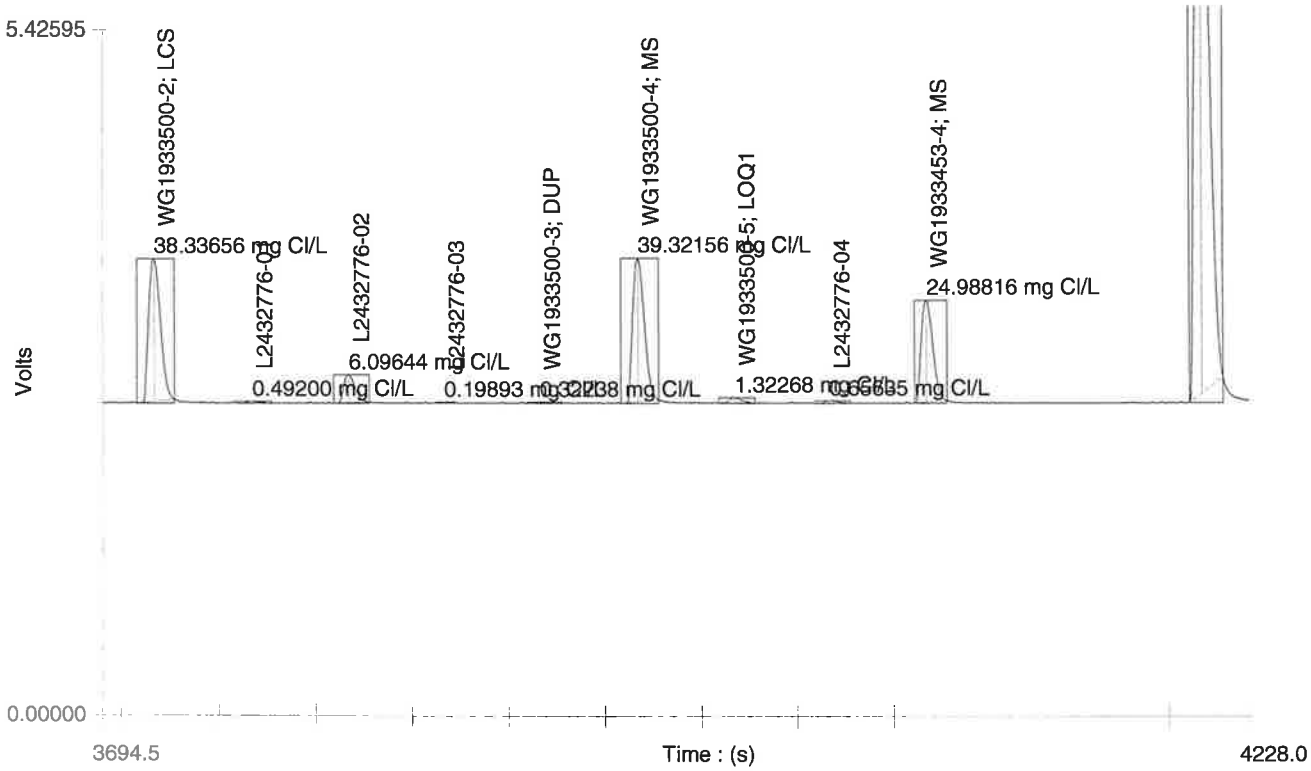
Date : 6/12/2024

Channel 1 (Chloride) - Set: 7 / 12

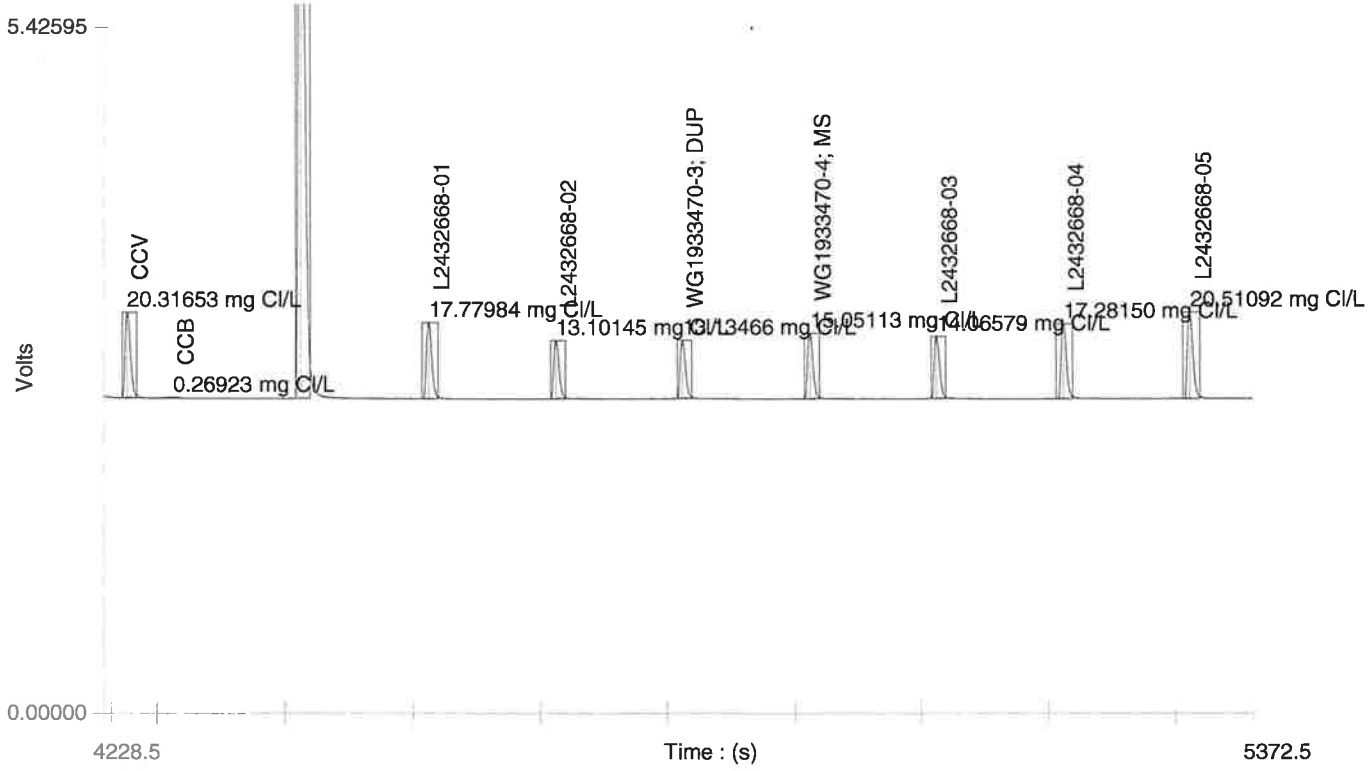


Author: Date : 6/12/2024

Channel 1 (Chloride) - Set: 8 / 12



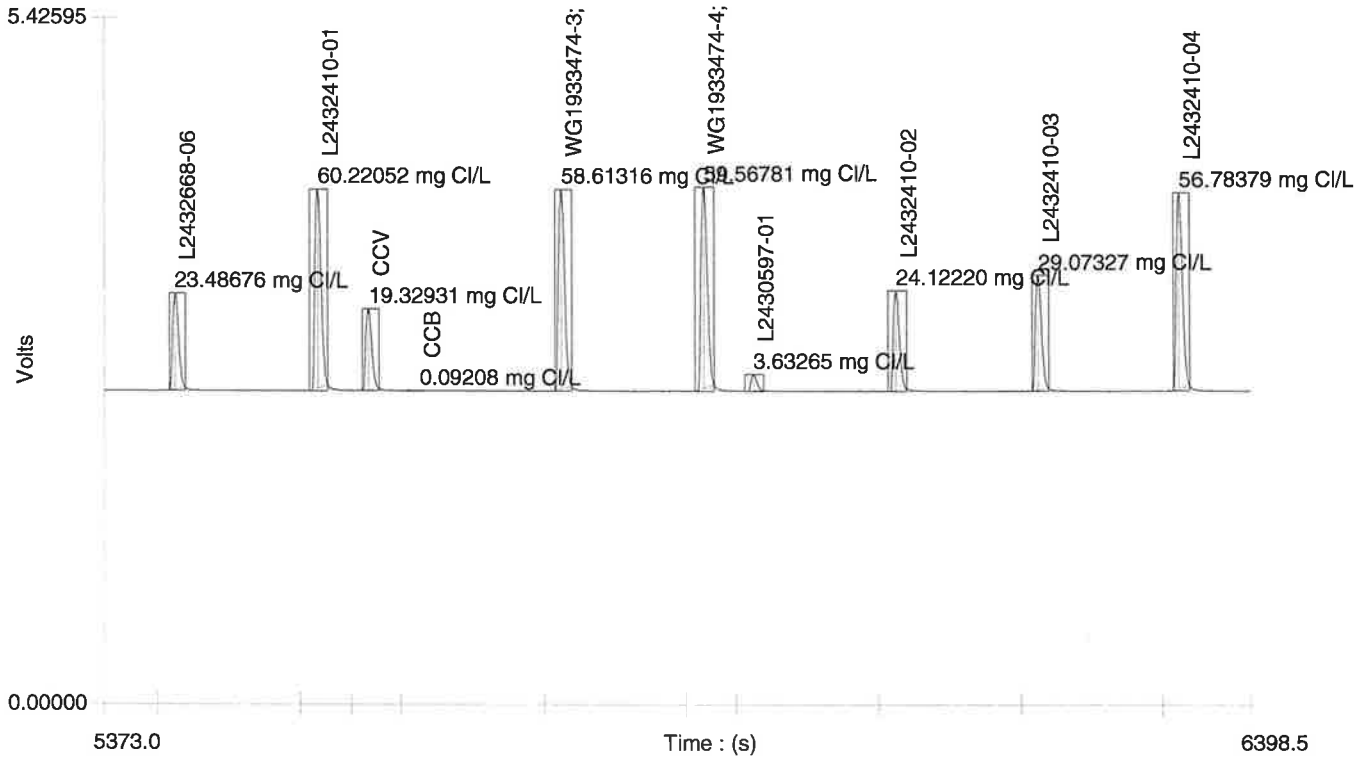
Channel 1 (Chloride) - Set: 9 / 12



Author:

Date : 6/12/2024

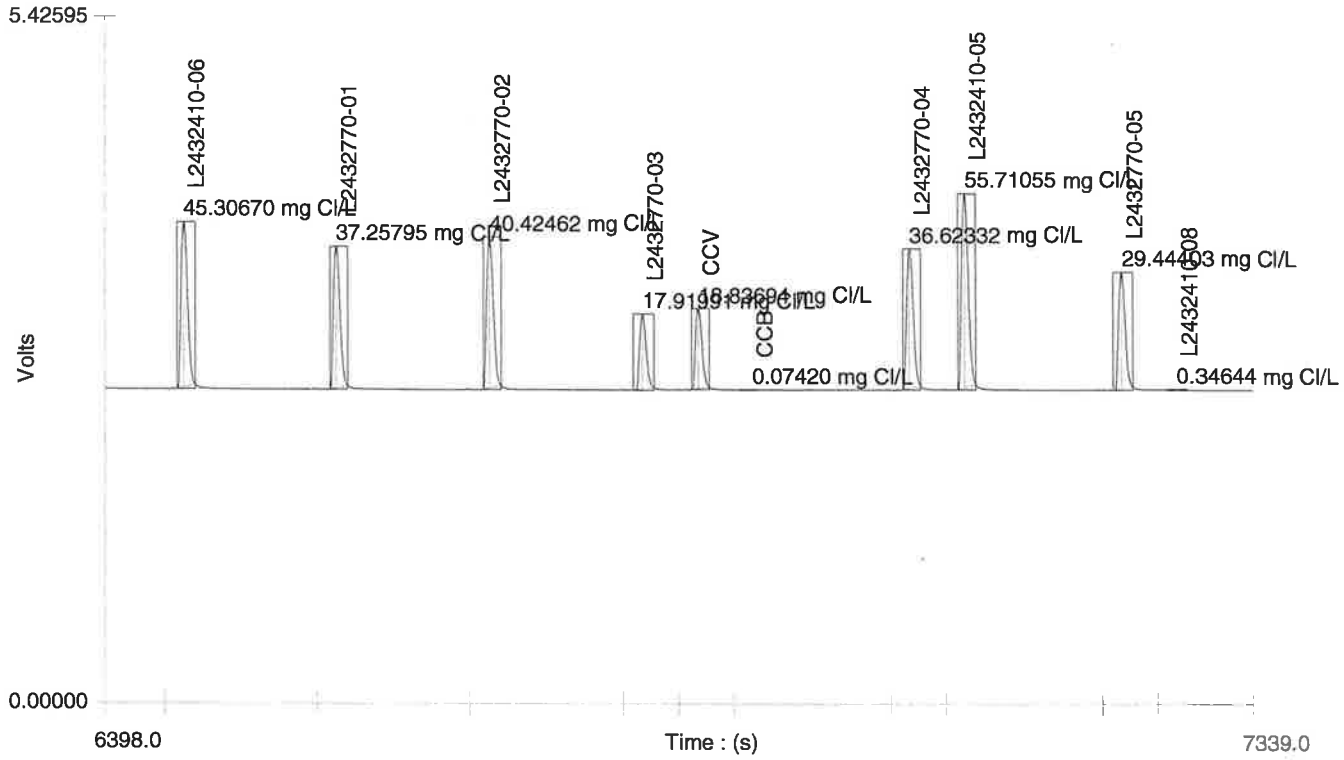
Channel 1 (Chloride) - Set: 10 / 12



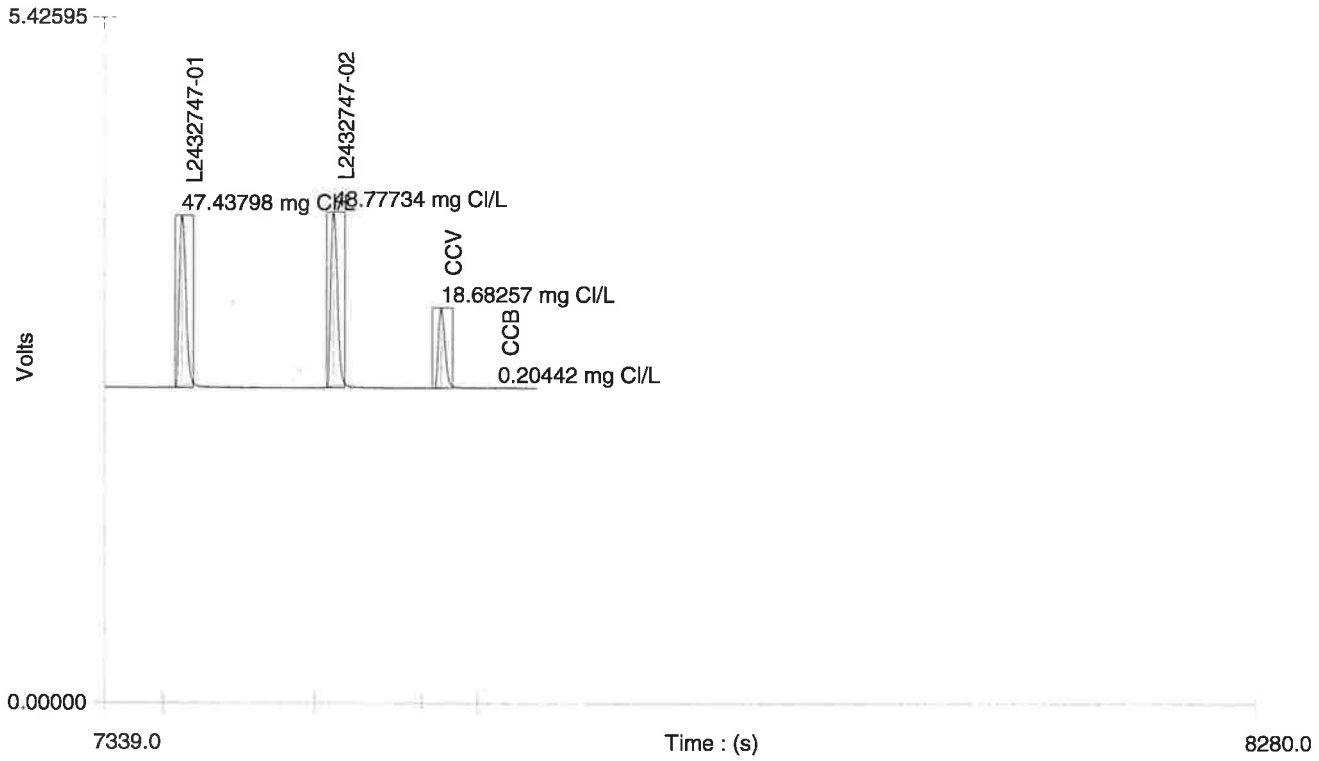
Author:

Date : 6/12/2024

Channel 1 (Chloride) - Set: 11 / 12



Channel 1 (Chloride) - Set: 12 / 12

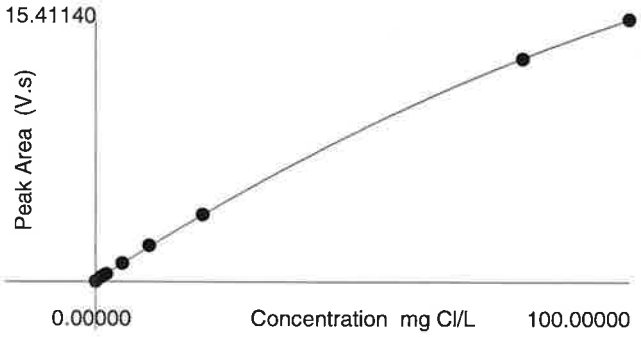


Author: Date : 6/12/2024

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.41140	2.27590	0.0	-0.2	99.58113	6/12/2024	8:17:39 PM
2	80.00000	1	13.09416	1.97889	0.0	0.3	80.61868	6/12/2024	8:18:25 PM
3	20.00000	1	3.94451	0.64348	0.0	-0.1	19.57123	6/12/2024	8:19:10 PM
4	10.00000	1	2.11953	0.35714	0.0	-3.6	10.03413	6/12/2024	8:19:57 PM
5	5.00000	1	1.06587	0.17301	0.0	-0.6	4.92752	6/12/2024	8:20:43 PM
6	2.00000	1	0.42426	0.06914	0.0	7.0	1.96126	6/12/2024	8:21:29 PM
7	1.00000	1	0.26707	0.04144	0.0	-5.5	1.25107	6/12/2024	8:22:16 PM
8	0.00000	1	-0.00101	-0.00136			0.05498	6/12/2024	8:23:01 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00051 * Conc^2 + 0.20482 * Conc + 0.04877
Conc = 0.13178 * Area^2 + 4.42678 * Area + 0.05943
Correlation Coefficient (r) = 0.99998

Weighting : None

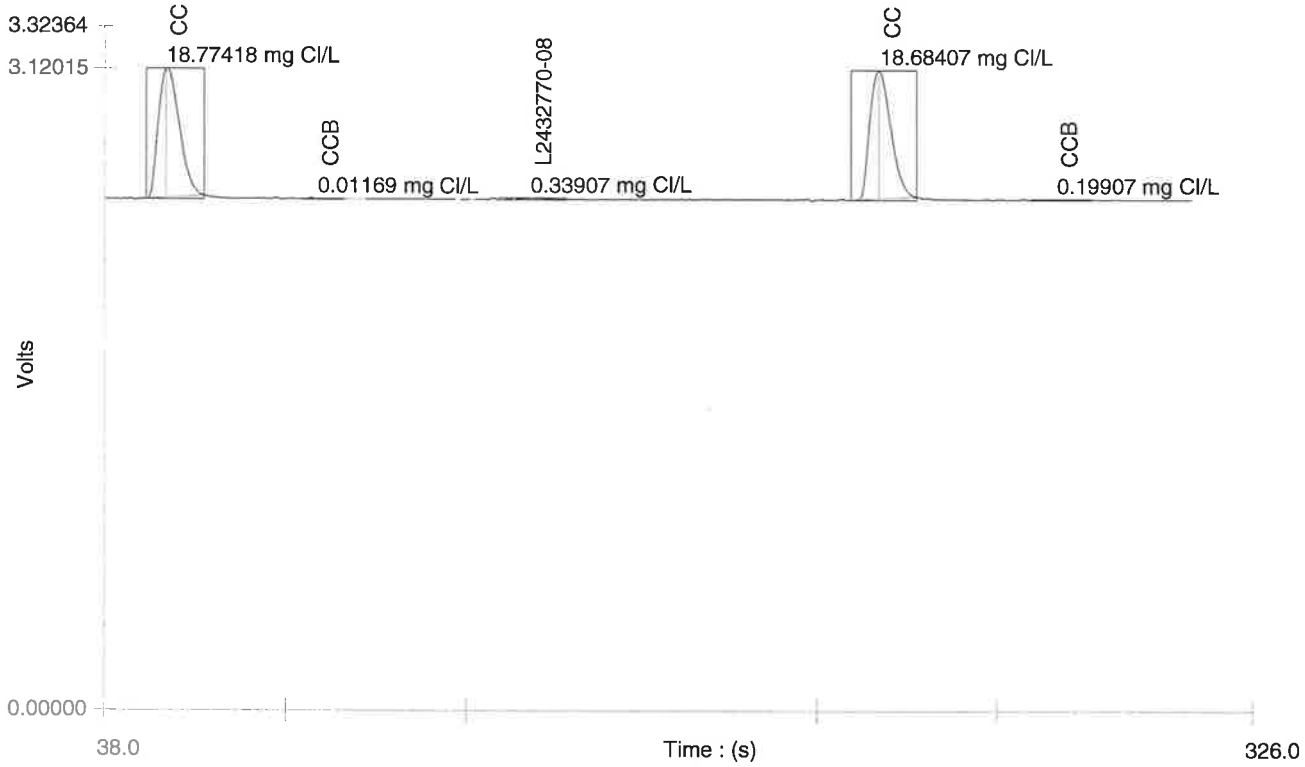
Author:

Date : 6/12/2024

Original Run Filename: OM_6-12-2024_10-45-03PM.OMN Created: 6/12/2024 10:45:03 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-12-2024_10-45-03PM.OMN Last Modified: 6/12/2024 10:50:27 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	18.77418			
	Known Conc:		20.00000			
CCB	1	S9	0.01169			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2432770-08	1	48	0.33907			
CCV	1	S3	18.68407			
	Known Conc:		20.00000			
CCB	1	S9	0.19907			
	Known Conc:		0.00000			

Channel 1 (Chloride) - Set: 1 / 1



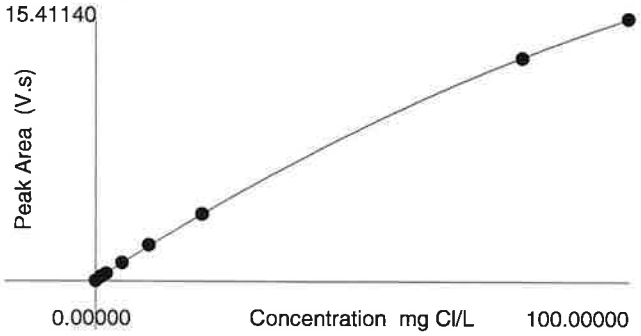
Author:

Date : 6/12/2024

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.41140	2.27590	0.0	-0.2	99.58113	6/12/2024	8:17:39 PM
2	80.00000	1	13.09416	1.97889	0.0	0.3	80.61868	6/12/2024	8:18:25 PM
3	20.00000	1	3.94451	0.64348	0.0	-0.1	19.57123	6/12/2024	8:19:10 PM
4	10.00000	1	2.11953	0.35714	0.0	-3.6	10.03413	6/12/2024	8:19:57 PM
5	5.00000	1	1.06587	0.17301	0.0	-0.6	4.92752	6/12/2024	8:20:43 PM
6	2.00000	1	0.42426	0.06914	0.0	7.0	1.96126	6/12/2024	8:21:29 PM
7	1.00000	1	0.26707	0.04144	0.0	-5.5	1.25107	6/12/2024	8:22:16 PM
8	0.00000	1	-0.00101	-0.00136			0.05498	6/12/2024	8:23:01 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00051 * Conc^2 + 0.20482 * Conc + 0.04877
Conc = 0.13178 * Area^2 + 4.42678 * Area + 0.05943
Correlation Coefficient (r) = 0.99998

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01		
Matrix Spike	: WG1933453-4	**MS Analysis Date**	: 06/12/24 21:24
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Chloride	5.3	20	25.	98					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2432633-01	**Analysis Date**	: 06/12/24 20:32
Dup Sample ID	: WG1933453-3	**DUP Analysis Date**	: 06/12/24 20:32

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	5.3	5.4	2	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1933453-2	**LCS Analysis Date**	: 06/12/24 20:31
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**28.0**	**93.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____ Confidenti

TITLE CL 6/12/24 TH Book No. _____

From Page No. ____

1 Rev 5
2 30
3 80
4 Rev
5 100 ppm 10%
6 WCT193345 3/70-1 3/4
7 -2 ms
8 32633-1
9 WCT193345 3 dp
10 -4 ms
11 WCT193347 3/74-1 3/4
12 -2 ms
13 -5 100 2
14 2
15 3
16 4
17 32732-2
18 32747-1
19 2
20 32282-1
21 2
22 32668-1
23 2
24 WCT193347 0-3 dp
25 -4 ms
26 3
27 4
28 5
29 6
30 30597-1
31 WCT193347 3-3 dp
32 -4 ms
33 2
34 32410-1
35 WCT193347 4-3 dp
36 -4 ms
37 2
38 32410-3
39 4
40 5
41 6
42 8
43 32770-1
44 2
45 3
46 4
47 5
48 8
49 9
50 WCT193500-1 3/4-5.0112-0.1002
51 -2 ms-5.0286-0.1005
52 32776-1-5.0873-0.1017
53 2-5.0727-0.1014
54 3-5.0046-0.1000
55 WCT193500-3 dp -5.0853 5.0441-0.10
56 -4 ms-5.0927-0.1018
57 -5 100-5.0002-0.1000
58 4-5.0283-0.1005

To Page No. ___

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 11:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: KEP
Lab File ID	: WG1935113.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 11:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: KEP
Lab File ID	: WG1935113.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 11:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: KEP
Lab File ID	: WG1935113.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 11:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: KEP
Lab File ID	: WG1935113.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935113-1	**Date Collected**	: NA
Client ID	: WG1935113-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 11:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: KEP
Lab File ID	: WG1935113.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935113-3	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13DDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/17/24 11:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: KEP
Lab File ID	: WG1935113.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.02	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis: FLUORIDE
Analysis Date: 6/17/2024 11:05
Method: SM 4500F-BC
Technician: KEP
LCS Concentration (mg/l): 2
Work group: WG1935113
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 6/17/2024 7:45

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	125.6	-0.696	0.2015	101	-58.9392617	84.6
0.5	-0.301	102.6	-0.305	0.4950	99		
1.0	0.000	84.6	0.000	1.0000	100	Correlation	Coefficient
10	1.000	25.6	1.001	10.024	100	0.99998994	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	1.06	1.00	1.06	106%
SAMP	L2432633-01	50	50		YES	1.00	0.0316	1.00	0.03	
SAMP	L2432633-02	50	50		YES	1.00	0.0484	1.00	0.05	
SAMP	L2432633-03	50	50		YES	1.00	0.037	1.00	0.04	
SAMP	L2432633-04	50	50		YES	1.00	0.0312	1.00	0.03	
	CCV	50	50		YES	1.00	1.02	1.00	1.02	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	1.02	1.00	1.02	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
BLANK	WG1935113-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG1935113-3	50	50		YES	1.00	0.0316	1.00	0.03	L2432633-04

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1935113-4	50	50		YES	0	0.916	1	0.92	92
LCS	WG1935113-2	50	50		YES		1.86	2	1.86	93

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13D	**Matrix**	: WATER
Lab Sample ID	: L2432633-04		
Matrix Spike	: WG1935113-4	**MS Analysis Date**	: 06/17/24 11:05
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.03J	1	0.92	92					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13D	**Matrix**	: WATER
Lab Sample ID	: L2432633-04	**Analysis Date**	: 06/17/24 11:05
Dup Sample ID	: WG1935113-3	**DUP Analysis Date**	: 06/17/24 11:05

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.03J	0.03J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935113-2	**LCS Analysis Date**	: 06/17/24 11:05
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.90**	**93.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

From Page No. ____

Tube	Sample	Volume	Final Vol	Blank	Comments
1	Blank	50mL	50mL	Phenol#2	Kep 6/17/24 @7:45
2	LCS				1.0mL F031724-100ppm
3	32103-01				
4	-02				
5	-03				
6	-04				
7	-05				
8	32117-01				
9	-02				
10	-03				
11	-04			Phenol#3	
12	-05				
13	-06				
14	-07				
15	KEP ~~32660~~ 32633-01				
16	-02				
17	-03				
18	-04				
19	-04 Dup				
20	-04 MS				0.5mL F031724-100ppm

To Page No. ____

TITLE

Project No.

Book No.

Confide

From Page No.

WG1935111

WG1935113

Std	mV
0.2	125.6
0.5	102.6
1.0	84.6
10.0	25.6

distilled @7:45

Analyst: KBP
Date & Time: 6/17/24 11:50
ICV:F F031724
LCS:F F031724
Spike:F F031724
Curve:WC- 3420
TISAB III: R- 4133

Sample	Volume 50mL	Final vol 50mL	Meter
ICV			1.06
ICB			0.0
Blank			0.0
LCS			1.86
32103-01			0.677
-02			0.0847
-03			0.501
-04			0.470
-05			0.00894
32117-01			1.05
-02			1.28
-03			1.15
CCV -04 KBP			1.02
CCB -05			0.0
32117-04			0.122
-05			1.05
-06			0.962
-07			0.621
32633-01			0.0316
-02			0.0484
-03			0.0370
-04			0.0312
-04 Dup			0.0316
-04 MS			0.916
CCV			1.02
CCB			0.0

To Page No.

Witnessed & Understood by me,

Date

Invented by:

Date

Recorded by:

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061724-WG1935363	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061724-WG1935363	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.150	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061724-WG1935363	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.077	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-04	**Date Collected**	: 06/11/24 12:35
Client ID	: MW-13D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 17:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061724-WG1935363	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935363-1	**Date Collected**	: NA
Client ID	: WG1935363-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 17:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061724-WG1935363	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935363-3	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11DDUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/17/24 17:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061724-WG1935363	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.160	0.031	0.012	

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	MFlaherty
Date & Time:	17-Jun-2024 20:27:37
Tray Number:	2
Tray Name:	WG1935360,63

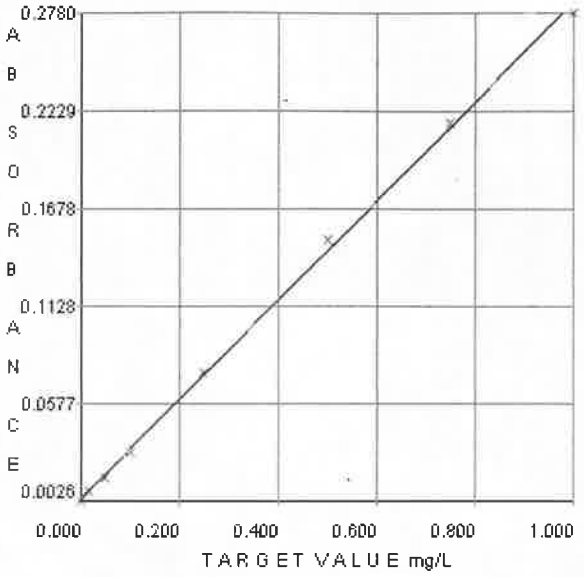
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0026	-0.005	0.000	.
S90	0.0084	0.016	0.020	-20.83
S91	0.0162	0.044	0.050	-12.37
S92	0.0305	0.095	0.100	-5.30
S93	0.0759	0.257	0.250	2.84
S94	0.1504	0.523	0.500	4.62
S95	0.2170	0.761	0.750	1.49
S96	0.2780	0.979	1.000	-2.08
S0	0.0031	-0.003	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9994
Carryover(%):	0.2
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-1.423446E-002
b =:	3.573460E+000
Date & Time:	17-Jun-2024 17:23:09

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	061324-tp color	Maeve Flaherty	04-Jul-2024 22:00:00
TP ascorbic	061124-aa	Maeve Flaherty	18-Jun-2024 22:00:00

Test Results

Cup	Type	ID	Details	Result	Units	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1		0.003				MEF	17-Jun-2024 17:14:07
	S90	STANDARD 90		0.008				MEF	17-Jun-2024 17:15:14
	S91	STANDARD 91		0.016				MEF	17-Jun-2024 17:16:21
	S92	STANDARD 92		0.030				MEF	17-Jun-2024 17:17:28
	S93	STANDARD 93		0.076				MEF	17-Jun-2024 17:18:35
	S94	STANDARD 94		0.150				MEF	17-Jun-2024 17:19:43
	S95	STANDARD 95		0.217				MEF	17-Jun-2024 17:20:50
	S96	STANDARD 96		0.278				MEF	17-Jun-2024 17:22:00
	S0	STANDARD 0		0.003				MEF	17-Jun-2024 17:23:09
2	ICV	ICV	17-JUNE-2024 16:47	0.518	mg/L			MEF	17-Jun-2024 17:24:17
3	ICB	ICB	17-JUNE-2024 16:47	-0.007	mg/L			MEF	17-Jun-2024 17:25:25
4	U1	WG1935360-1	17-JUNE-2024 16:47	-0.006ELL	mg/L			MEF	17-Jun-2024 17:26:32
5	U2	WG1935360-2	17-JUNE-2024 16:47	0.531	mg/L			MEF	17-Jun-2024 17:27:40

6	U3	L2432494-01	17-JUNE-2024 16:47	0.102	mg/L			MEF	17-Jun-2024 17:28:48
7	U4	WG1935360-3	17-JUNE-2024 16:47	0.102	mg/L			MEF	17-Jun-2024 17:29:56
8	U5	WG1935360-4	17-JUNE-2024 16:47	0.657	mg/L			MEF	17-Jun-2024 17:31:04
9	U6	L2432518-02	17-JUNE-2024 16:47	3.154	mg/L	x5.0000		MEF	17-Jun-2024 18:16:13
10	U7	L2432525-01	17-JUNE-2024 16:47	0.018	mg/L			MEF	17-Jun-2024 17:33:20
	CCV	C C V		0.545	mg/L			MEF	17-Jun-2024 17:34:28
	CCB	C C B		-0.004	mg/L			MEF	17-Jun-2024 17:35:37
11	U8	L2432525-02	17-JUNE-2024 16:47	0.018	mg/L			MEF	17-Jun-2024 17:36:46
12	U9	L2432530-01-5	17-JUNE-2024 16:47	3.520	mg/L		x5.0000	MEF	17-Jun-2024 17:37:54
13	U10	L2432530-02	17-JUNE-2024 16:47	0.266	mg/L			MEF	17-Jun-2024 17:39:02
14	U11	L2432540-01	17-JUNE-2024 16:47	0.197	mg/L			MEF	17-Jun-2024 17:40:10
15	U12	L2432683-01-5	17-JUNE-2024 16:47	1.397	mg/L		x5.0000	MEF	17-Jun-2024 17:41:18
16	U13	L2432683-02	17-JUNE-2024 16:47	0.420	mg/L			MEF	17-Jun-2024 17:42:25
17	U14	L2432683-03	17-JUNE-2024 16:47	0.548	mg/L			MEF	17-Jun-2024 17:43:32
18	U15	L2432683-04-5	17-JUNE-2024 16:47	1.261	mg/L		x5.0000	MEF	17-Jun-2024 17:44:40
19	U16	L2432683-05-5	17-JUNE-2024 16:47	1.280	mg/L		x5.0000	MEF	17-Jun-2024 17:45:47
20	U17	L2432685-01-5	17-JUNE-2024 16:47	0.863	mg/L		x5.0000	MEF	17-Jun-2024 17:46:54
	CCV	C C V		0.536	mg/L			MEF	17-Jun-2024 17:48:01
	CCB	C C B		-0.004	mg/L			MEF	17-Jun-2024 17:49:10
21	U18	L2432685-02	17-JUNE-2024 16:47	0.038	mg/L			MEF	17-Jun-2024 17:50:20
22	U19	L2432685-03	17-JUNE-2024 16:47	0.125	mg/L			MEF	17-Jun-2024 17:51:14
23	U20	L2432633-01D	17-JUNE-2024 16:47	0.002	mg/L			MEF	17-Jun-2024 17:52:16
24	U21	L2432633-02D	17-JUNE-2024 16:47	0.049	mg/L			MEF	17-Jun-2024 17:53:09
25	U22	WG1935363-3D	17-JUNE-2024 16:47	0.052	mg/L			MEF	17-Jun-2024 17:54:03
26	U23	WG1935363-4D	17-JUNE-2024 16:47	0.601	mg/L			MEF	17-Jun-2024 17:54:56
27	U24	L2432633-03D	17-JUNE-2024 16:47	0.025	mg/L			MEF	17-Jun-2024 17:55:50
28	U25	L2432633-04D	17-JUNE-2024 16:47	0.001	mg/L			MEF	17-Jun-2024 17:56:43
29	U26	L2432440-04T	17-JUNE-2024 16:47	1.352	mg/L	x5.0000		MEF	17-Jun-2024 18:17:07
30	U27	L2432440-04O	17-JUNE-2024 16:47	12.797	mg/L	x25.0000		MEF	17-Jun-2024 18:35:24
	CCV	C C V		0.543	mg/L			MEF	17-Jun-2024 17:59:24
	CCB	C C B		-0.003	mg/L			MEF	17-Jun-2024 18:00:18
	CCV	CCV		0.530	mg/L				17-Jun-2024 18:14:22
	CCB	CCB		-0.003	mg/L				17-Jun-2024 18:15:18
	CCV	CCV		0.540	mg/L				17-Jun-2024 18:18:54
	CCB	CCB		-0.002	mg/L				17-Jun-2024 18:19:50
	CCV	CCV		0.538	mg/L				17-Jun-2024 18:33:36
	CCB	CCB		-0.003	mg/L				17-Jun-2024 18:34:30
	CCV	CCV		0.543	mg/L				17-Jun-2024 18:36:18
	CCB	CCB		-0.003	mg/L				17-Jun-2024 18:37:12

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2432633-02		
Matrix Spike	: WG1935363-4	**MS Analysis Date**	: 06/17/24 17:54
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.150	1.53	1.84	110					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2432633-02	**Analysis Date**	: 06/17/24 17:53
Dup Sample ID	: WG1935363-3	**DUP Analysis Date**	: 06/17/24 17:54

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.150	0.160	6	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935363-2	**LCS Analysis Date**	: 06/17/24 17:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.63**	**106.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-01	**Date Collected**	: 06/11/24 10:50
Client ID	: MW-11S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 18:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1933982-983-990	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-02	**Date Collected**	: 06/11/24 10:52
Client ID	: MW-11D	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 19:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1933982-983-990	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.045	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2432633-03	**Date Collected**	: 06/11/24 12:23
Client ID	: MW-13S	**Date Received**	: 06/11/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/13/24 19:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1933982-983-990	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2432633
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2432633-04	Date Collected	:	06/11/24 12:35
Client ID	:	MW-13D	Date Received	:	06/11/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	06/13/24 19:29
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1933982-983-990	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.040	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933990-1	**Date Collected**	: NA
Client ID	: WG1933990-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/13/24 11:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1933990	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1933990-4	**Date Collected**	: 06/03/24 13:35
Client ID	: WG1933990-4 DUP	**Date Received**	: 06/03/24
Sample Location	:	**Date Analyzed**	: 06/13/24 19:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1933982-983-990	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

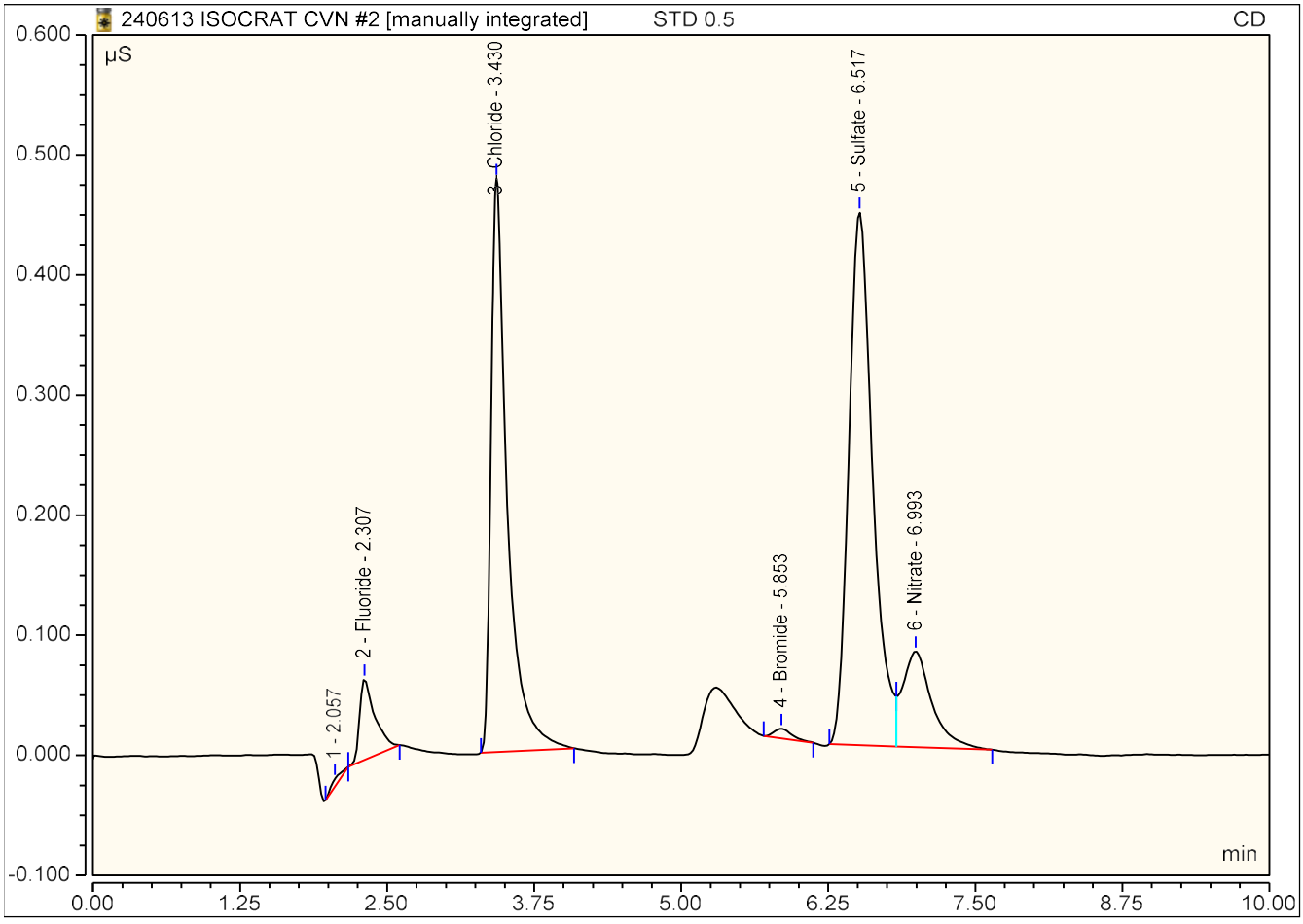
Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 16:46**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB	0.002	0.014	0.2384
3	6.51	**Sulfate**	BMB	0.002	0.009	0.4226
TOTAL:				0.00	0.02	0.66

Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 16:58**	*Run Time:*	**10.00**

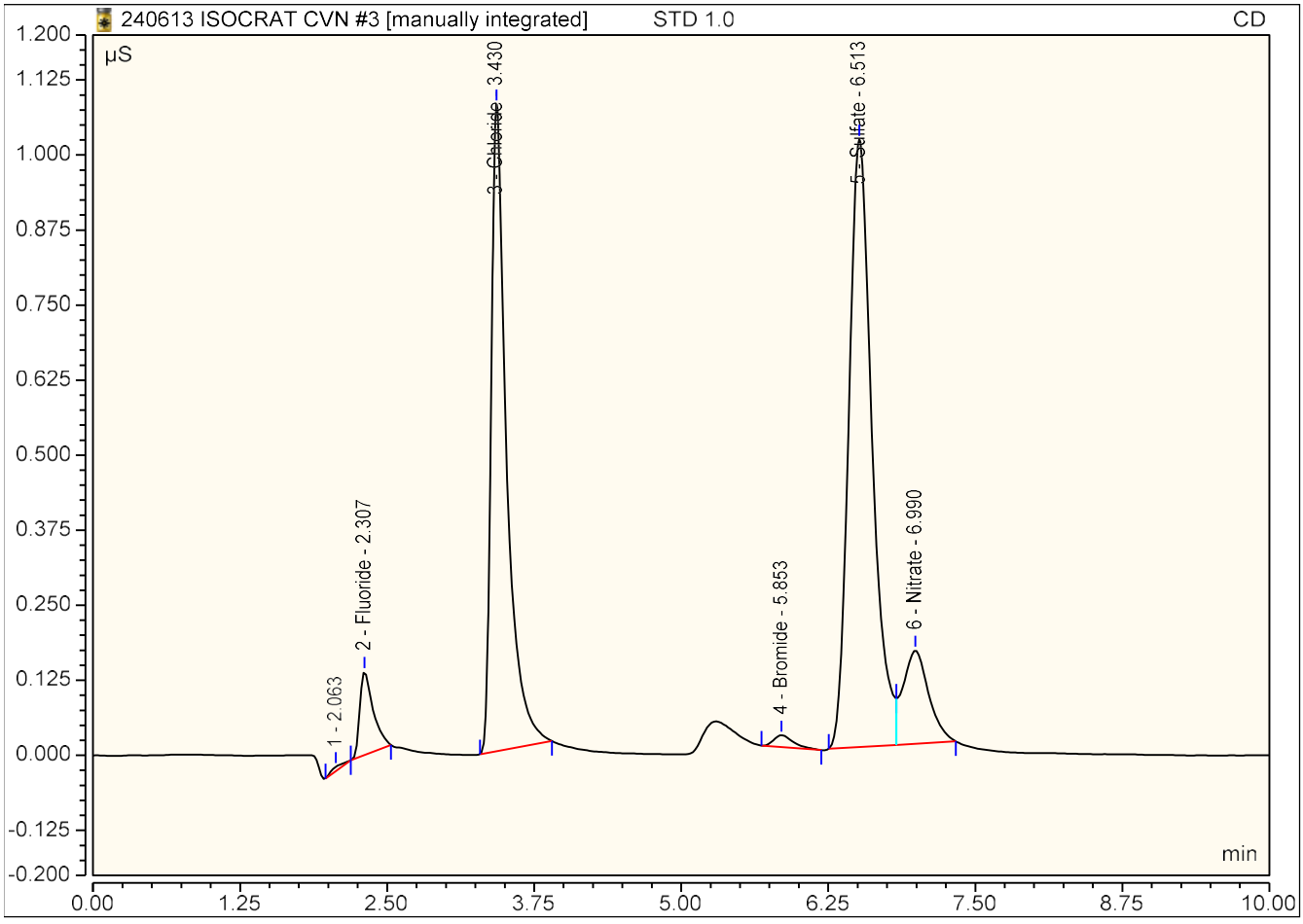
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	bMB*	0.010	0.067	0.0680
3	3.43	**Chloride**	BMB*	0.077	0.478	0.4130
4	5.85	**Bromide**	BMB	0.001	0.008	0.0483
5	6.52	**Sulfate**	BM *	0.105	0.444	0.7547
6	6.99	**Nitrate**	MB*	0.023	0.080	0.0513
TOTAL:				0.22	1.08	1.34



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:10**	*Run Time:*	**10.00**

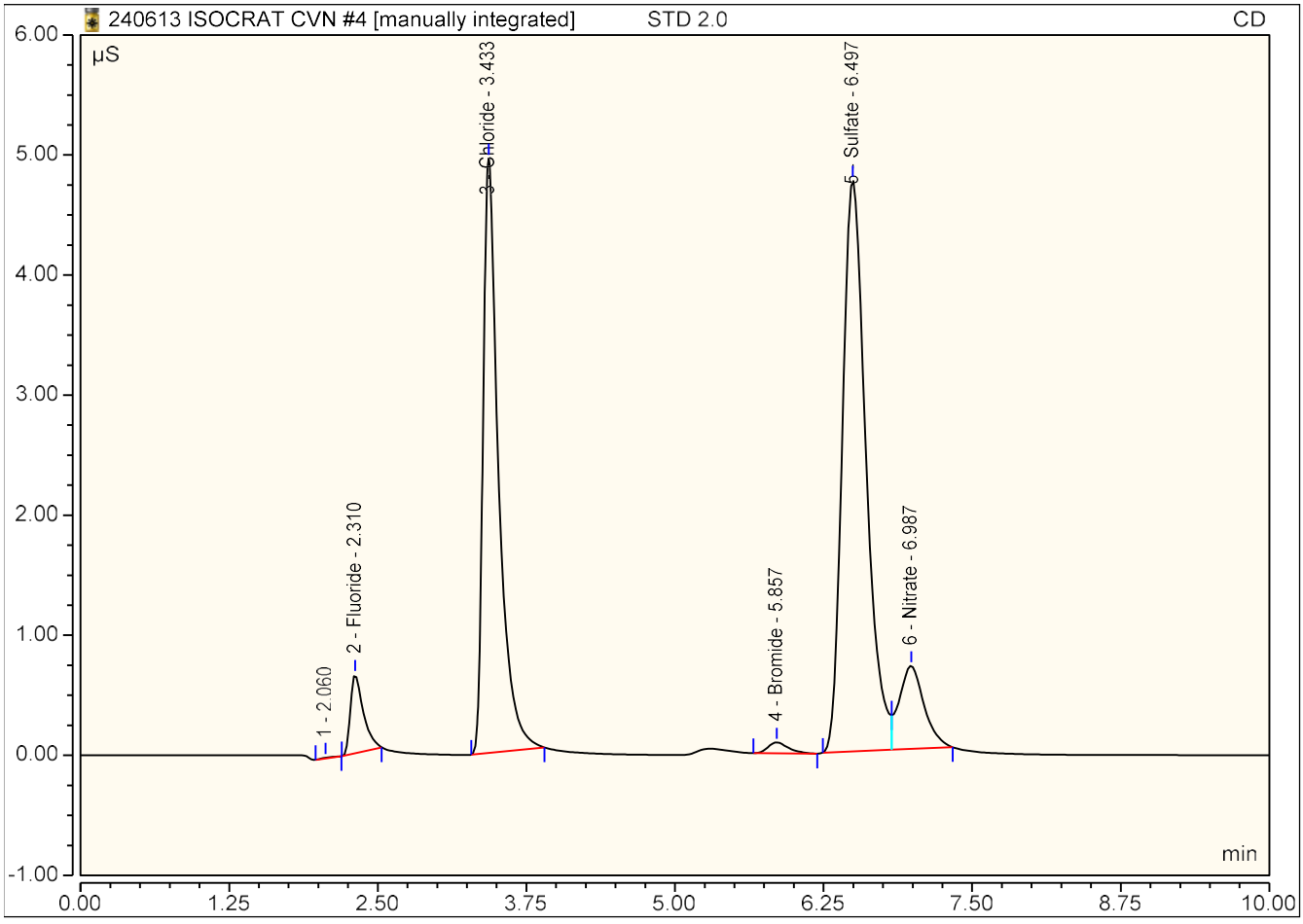
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.018	0.139	0.0818
3	3.43	**Chloride**	BMB*	0.163	1.078	0.6145
4	5.85	**Bromide**	BMB	0.004	0.020	0.0688
5	6.51	**Sulfate**	BM *	0.232	1.012	1.1659
6	6.99	**Nitrate**	MB*	0.039	0.156	0.0661
TOTAL:				0.46	2.40	2.00



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:22**	*Run Time:*	**10.00**

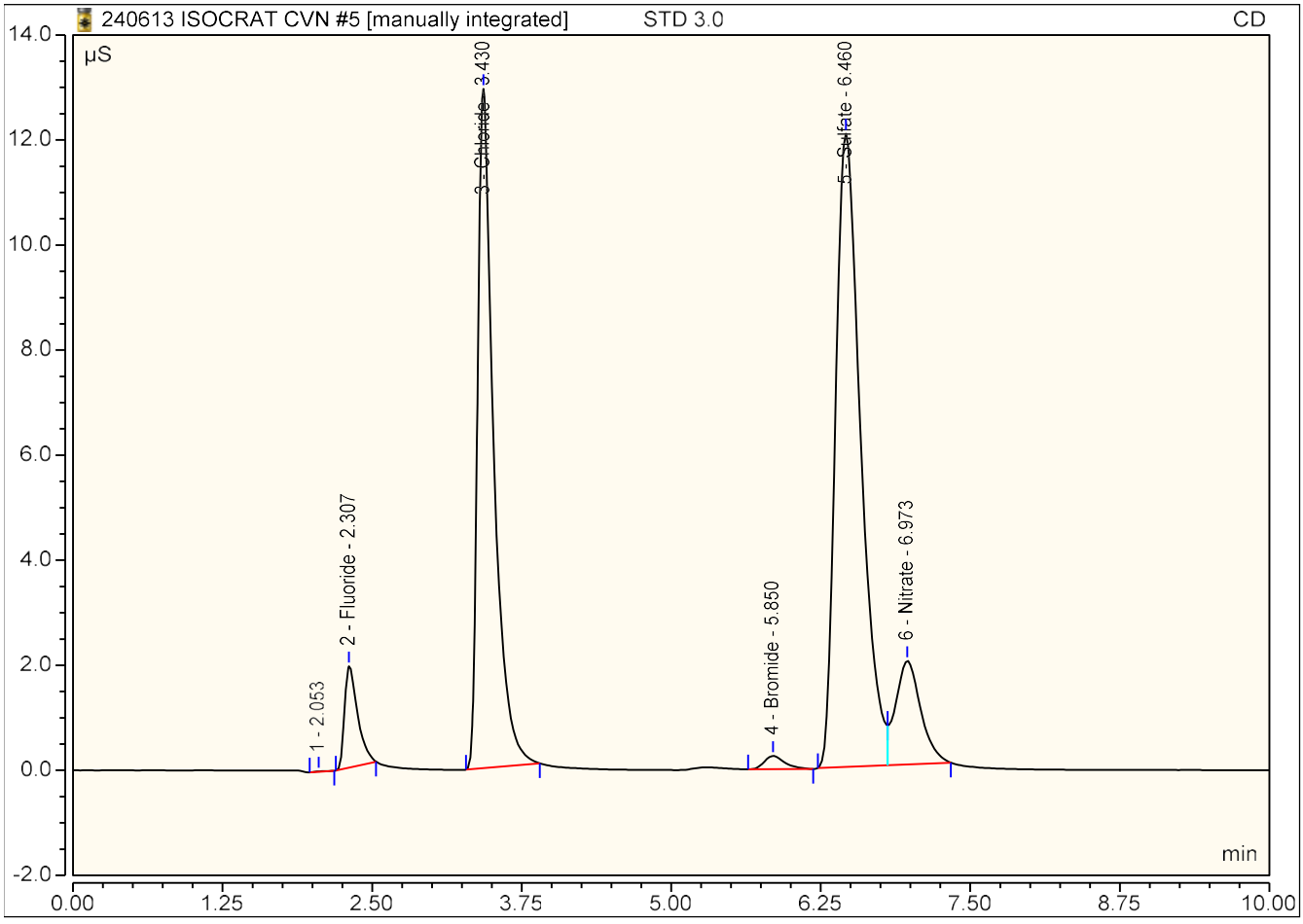
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.083	0.654	0.1890
3	3.43	**Chloride**	BMB*	0.750	4.952	1.9848
4	5.86	**Bromide**	BMB	0.018	0.092	0.1901
5	6.50	**Sulfate**	BM *	1.092	4.757	3.9467
6	6.99	**Nitrate**	MB*	0.168	0.692	0.1826
TOTAL:				2.11	11.15	6.49



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:34**	*Run Time:*	**10.00**

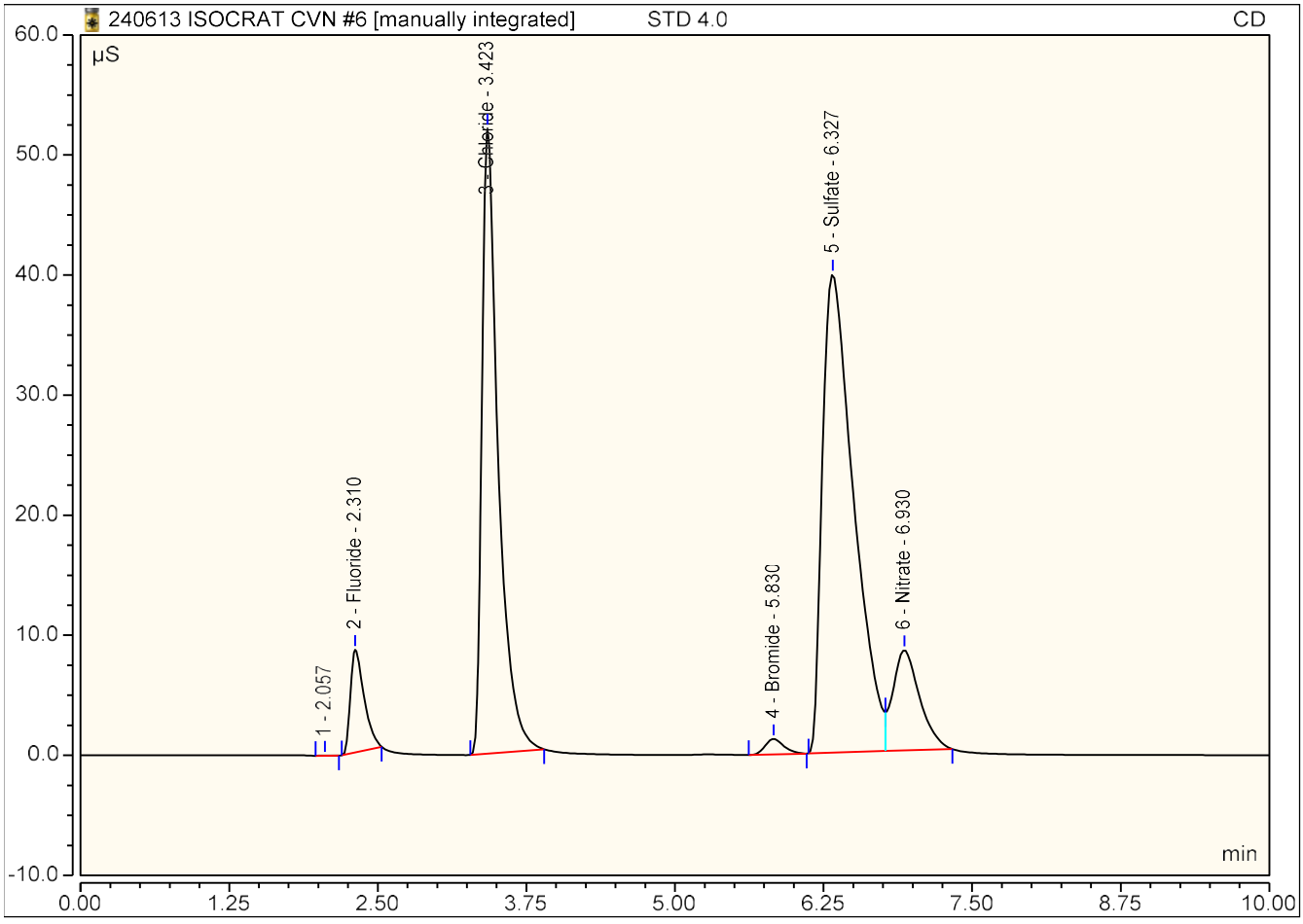
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.244	1.931	0.4596
3	3.43	**Chloride**	BMB*	1.999	12.931	4.9033
4	5.85	**Bromide**	BMB	0.050	0.253	0.4567
5	6.46	**Sulfate**	BM *	2.926	12.055	9.8731
6	6.97	**Nitrate**	MB*	0.482	1.971	0.4653
TOTAL:				5.70	29.14	16.16



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:46**	*Run Time:*	**10.00**

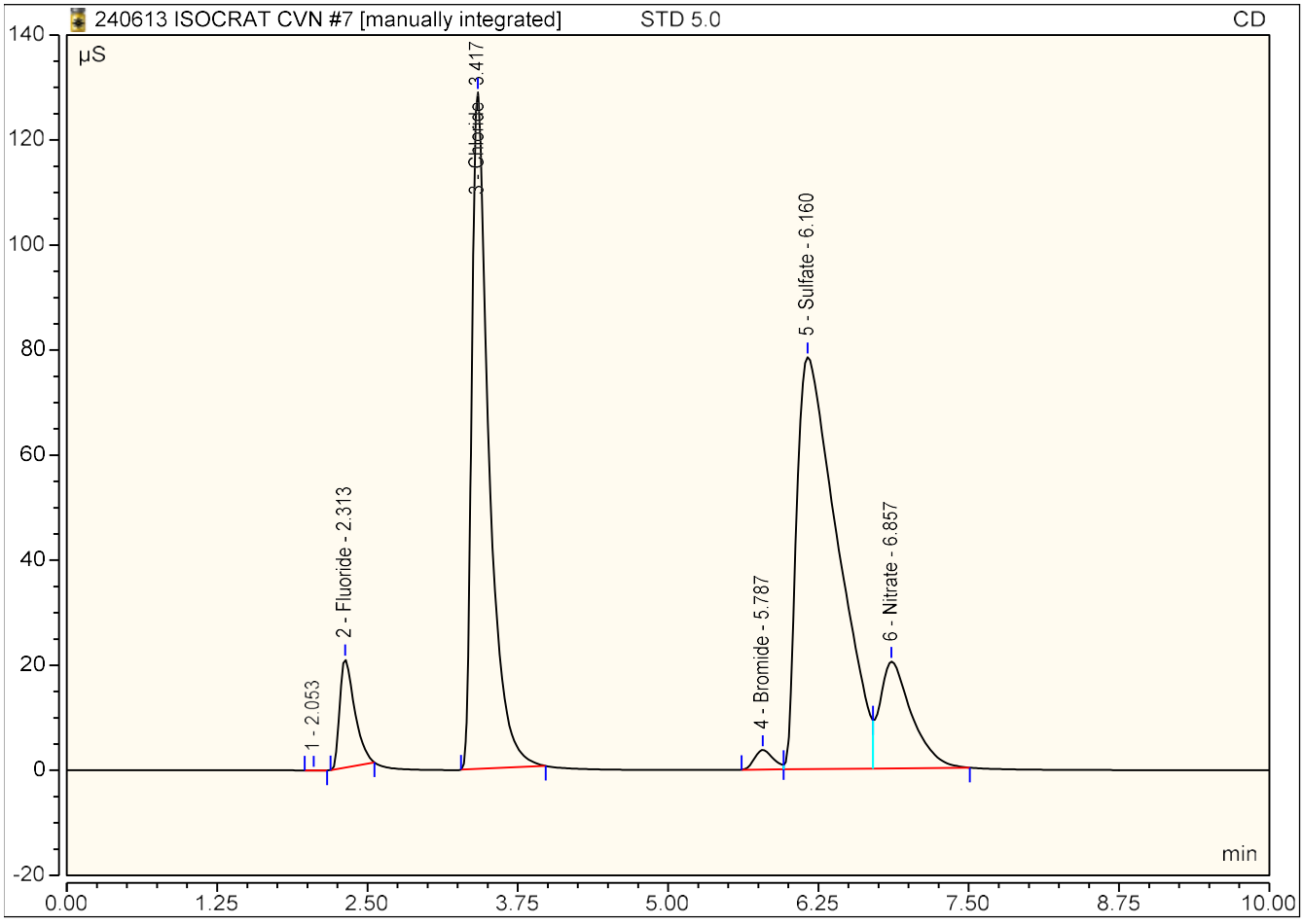
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.138	8.552	1.9544
3	3.42	**Chloride**	BMB*	8.338	52.076	19.7101
4	5.83	**Bromide**	BMB	0.236	1.280	2.0111
5	6.33	**Sulfate**	BM *	12.119	39.833	39.5794
6	6.93	**Nitrate**	MB*	2.193	8.359	2.0097
TOTAL:				24.02	110.10	65.26



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:58**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	2.972	20.624	5.0222
3	3.42	**Chloride**	BMB*	21.360	128.769	50.1243
4	5.79	**Bromide**	BM *	0.676	3.745	5.7054
5	6.16	**Sulfate**	M *	30.872	78.460	100.1801
6	6.86	**Nitrate**	MB*	6.286	20.353	5.7047
TOTAL:				62.17	251.95	166.74



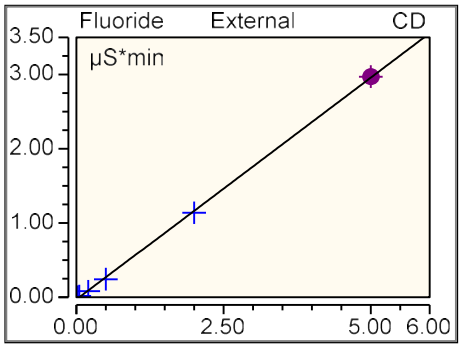
Calibration Batch Report

Sequence:	**240613 ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:58**	*Run Time:*	**10**

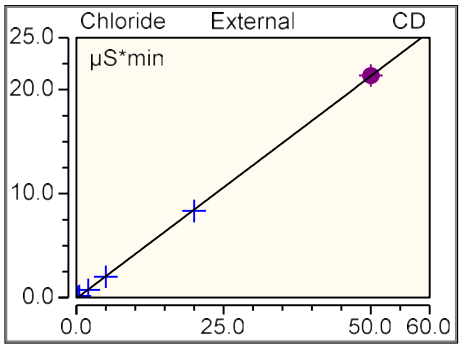
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.030	0.598	0.000	99.9626
Chloride	Area	in, WithOffse	6.000	-0.100	0.428	0.000	99.9923
Bromide	Area	in, WithOffse	5.000	-0.004	0.119	0.000	99.8913
Sulfate	Area	in, WithOffse	6.000	-0.129	0.309	0.000	99.9958
Nitrate	Area	in, WithOffse	5.000	-0.034	1.108	0.000	99.9073
		AVERAGE:		-0.0595	0.5125	0.0000	99.9499

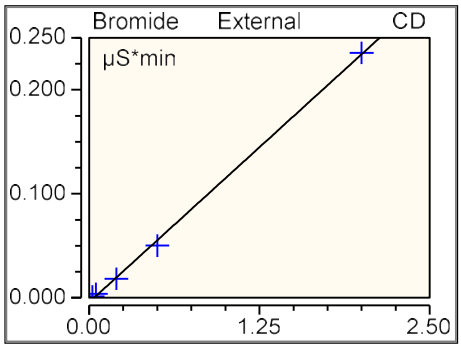
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.307	0.0102	0.067	0.068
STD 1.0	2.307	0.0184	0.139	0.082
STD 2.0	2.310	0.0825	0.654	0.189
STD 3.0	2.307	0.2443	1.931	0.460
STD 4.0	2.310	1.1378	8.552	1.954
STD 5.0	2.313	2.9718	20.624	5.022
Average	2.309			
Rel. Std. Dev.	0.118 %			



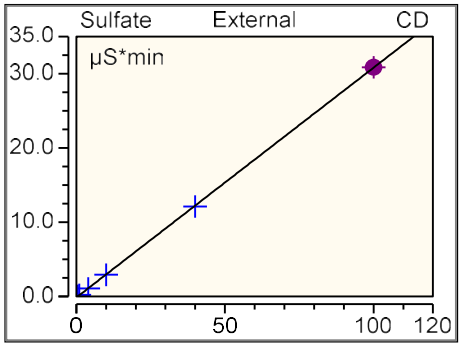
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.430	0.0769	0.478	0.413
STD 1.0	3.430	0.1631	1.078	0.614
STD 2.0	3.433	0.7498	4.952	1.985
STD 3.0	3.430	1.9993	12.931	4.903
STD 4.0	3.423	8.3385	52.076	19.710
STD 5.0	3.417	21.3595	128.769	50.124
Average	3.427			
Rel. Std. Dev.	0.178 %			



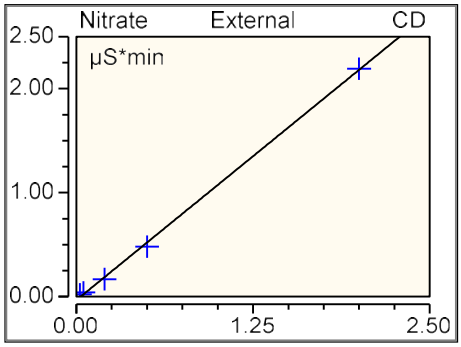
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.853	0.0014	0.008	0.048
STD 1.0	5.853	0.0038	0.020	0.069
STD 2.0	5.857	0.0183	0.092	0.190
STD 3.0	5.850	0.0501	0.253	0.457
STD 4.0	5.830	0.2356	1.280	2.011
STD 5.0	5.787	0.6763	3.745	5.705
Average	5.838			
Rel. Std. Dev.	0.463 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.517	0.1047	0.444	0.755
STD 1.0	6.513	0.2319	1.012	1.166
STD 2.0	6.497	1.0925	4.757	3.947
STD 3.0	6.460	2.9264	12.055	9.873
STD 4.0	6.327	12.1190	39.833	39.579
STD 5.0	6.160	30.8719	78.460	100.180
Average	6.412			
Rel. Std. Dev.	2.222 %			



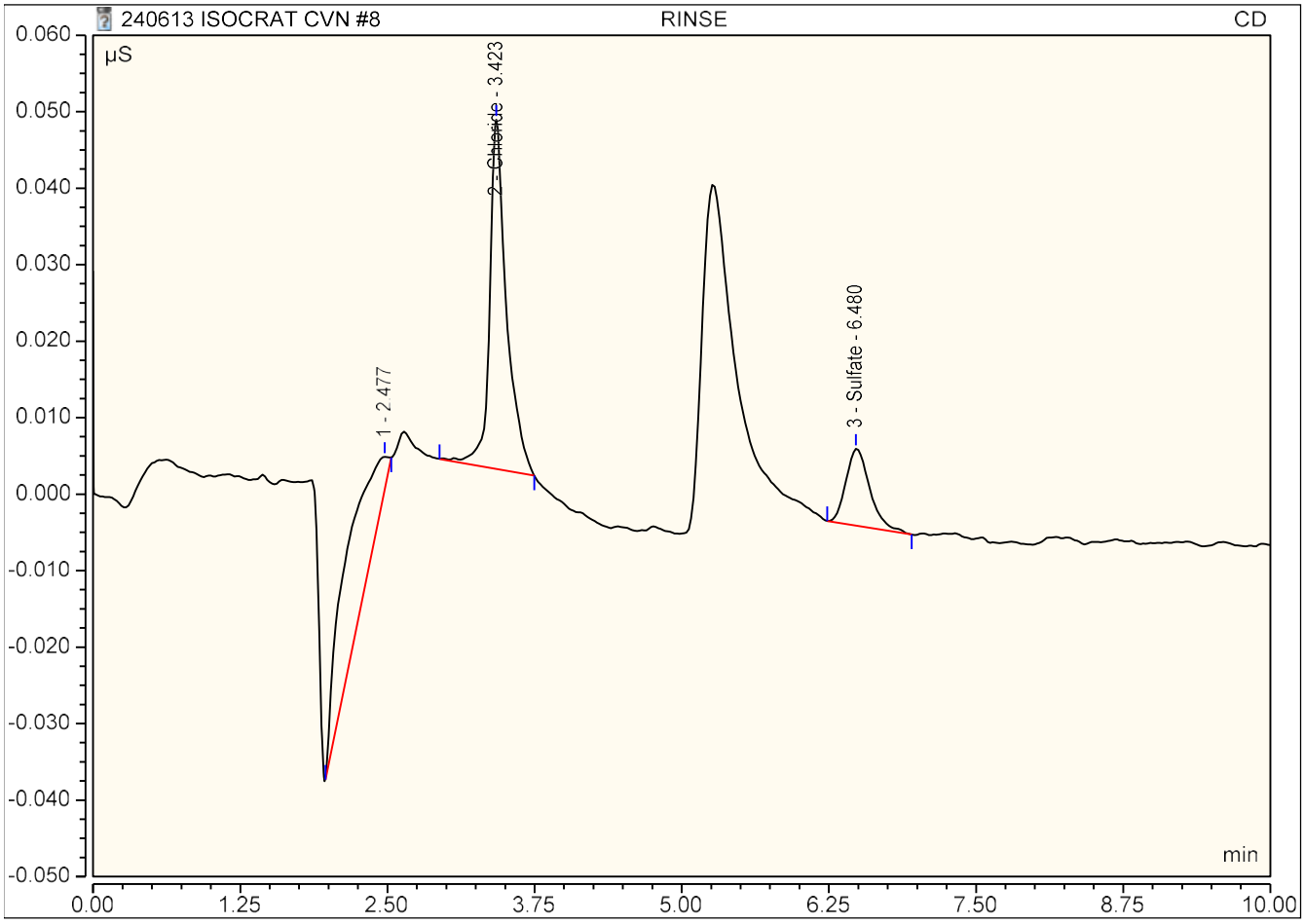
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.993	0.0229	0.080	0.051
STD 1.0	6.990	0.0393	0.156	0.066
STD 2.0	6.987	0.1684	0.692	0.183
STD 3.0	6.973	0.4816	1.971	0.465
STD 4.0	6.930	2.1927	8.359	2.010
STD 5.0	6.857	6.2864	20.353	5.705
Average	6.955			
Rel. Std. Dev.	0.770 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 10:37**	*Run Time:*	**10.00**

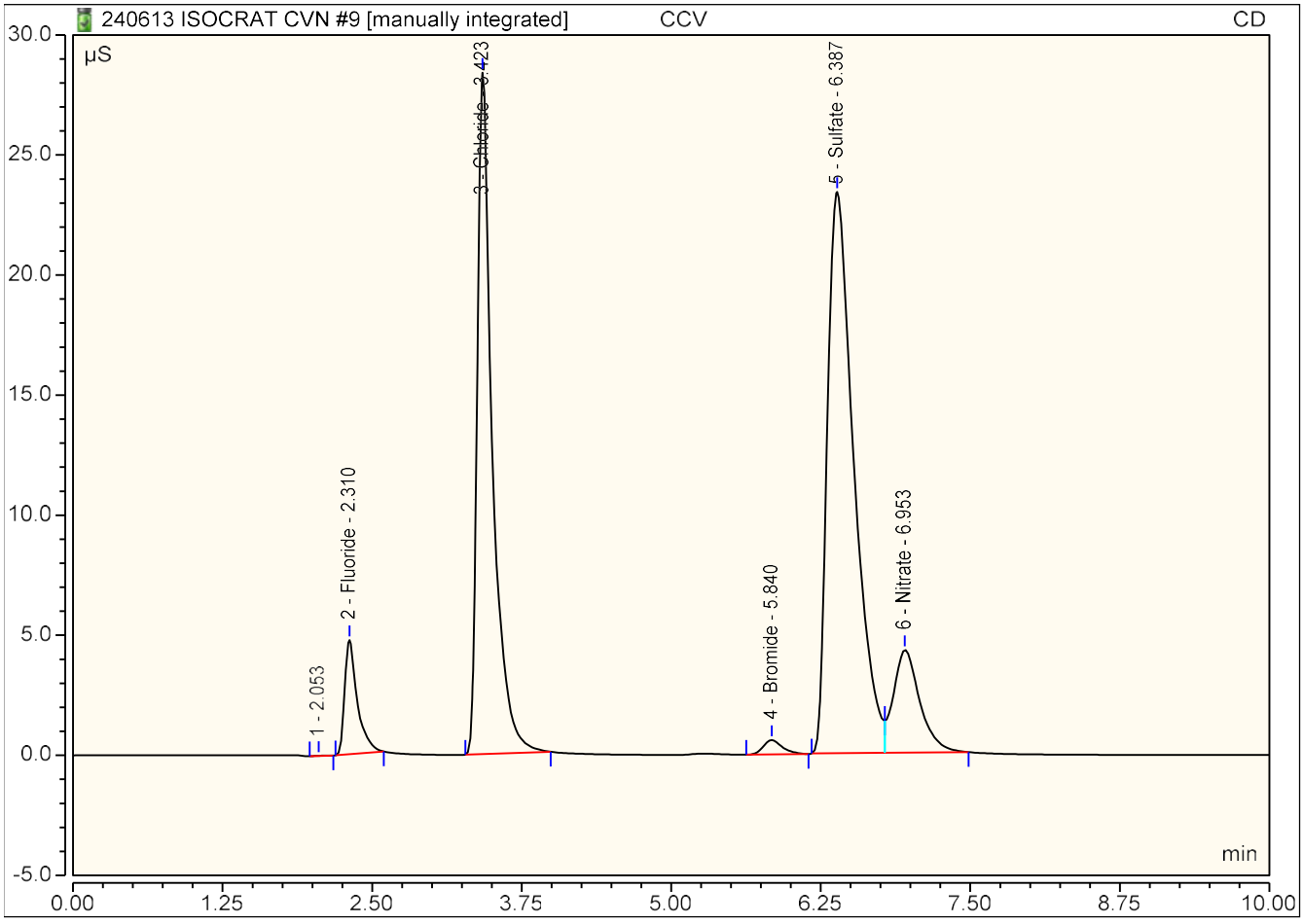
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.008	0.046	0.2511
3	6.48	**Sulfate**	BMB	0.002	0.010	0.4240
TOTAL:				0.01	0.06	0.68



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 10:49**	*Run Time:*	**10.00**

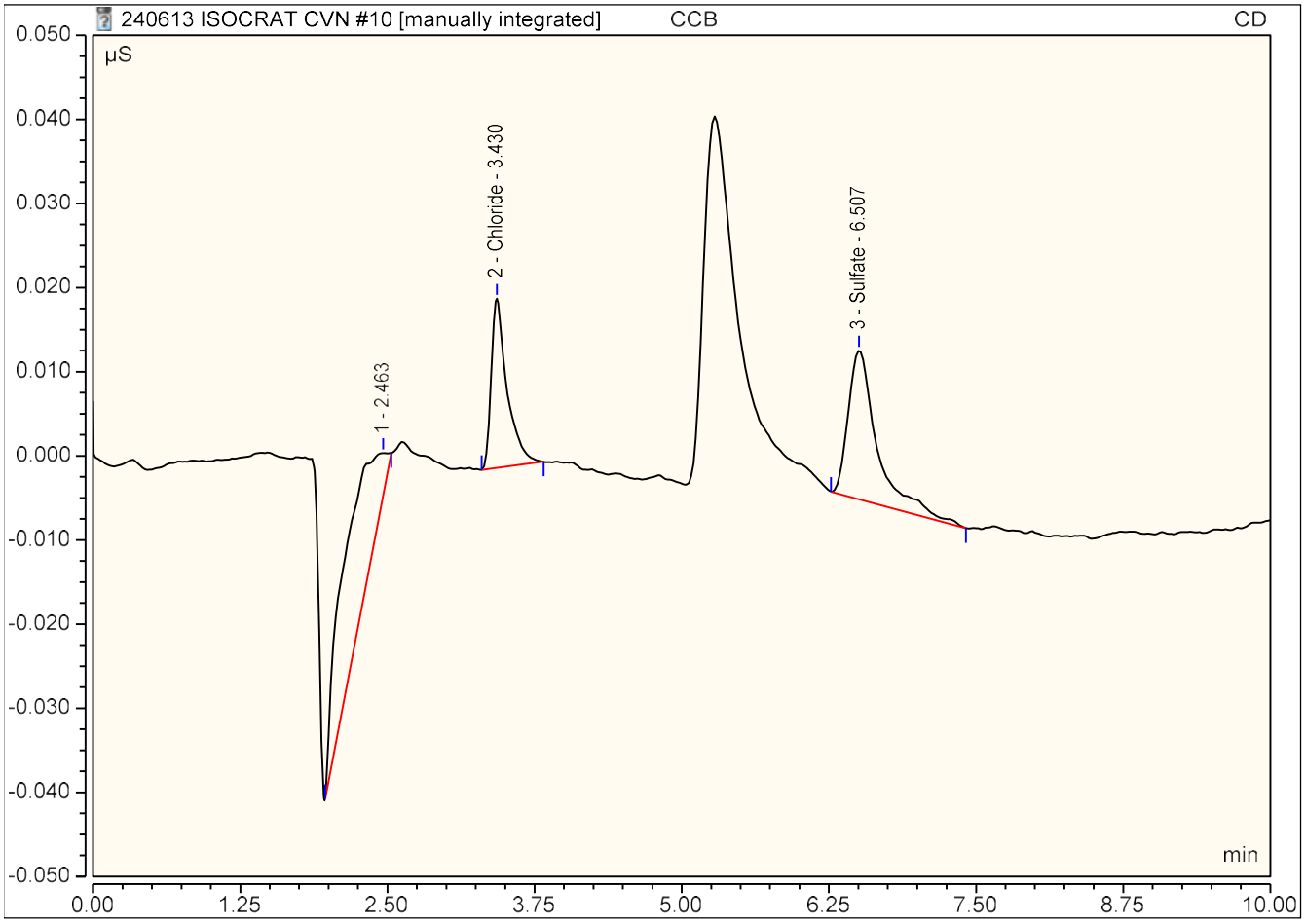
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.580	4.752	1.0217
3	3.42	**Chloride**	BMB*	4.135	28.381	9.8927
4	5.84	**Bromide**	BMB	0.111	0.600	0.9686
5	6.39	**Sulfate**	BM *	5.990	23.378	19.7747
6	6.95	**Nitrate**	MB*	1.095	4.276	1.0187
TOTAL:				11.91	61.39	32.68



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 11:01**	*Run Time:*	**10.00**

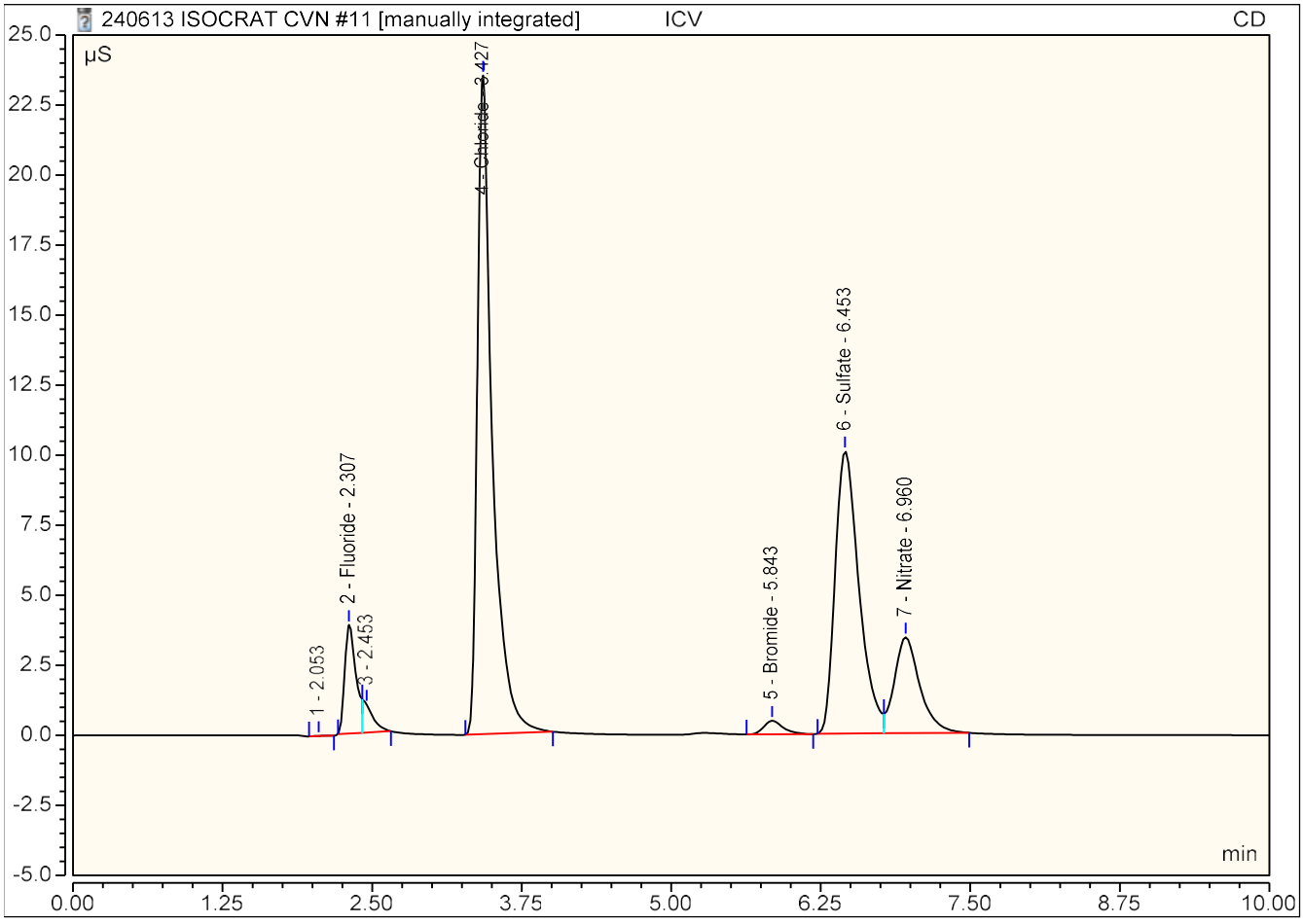
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.003	0.020	0.2407
3	6.51	**Sulfate**	BMB	0.005	0.018	0.4326
TOTAL:				0.01	0.04	0.67



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 11:14**	*Run Time:*	**10.00**

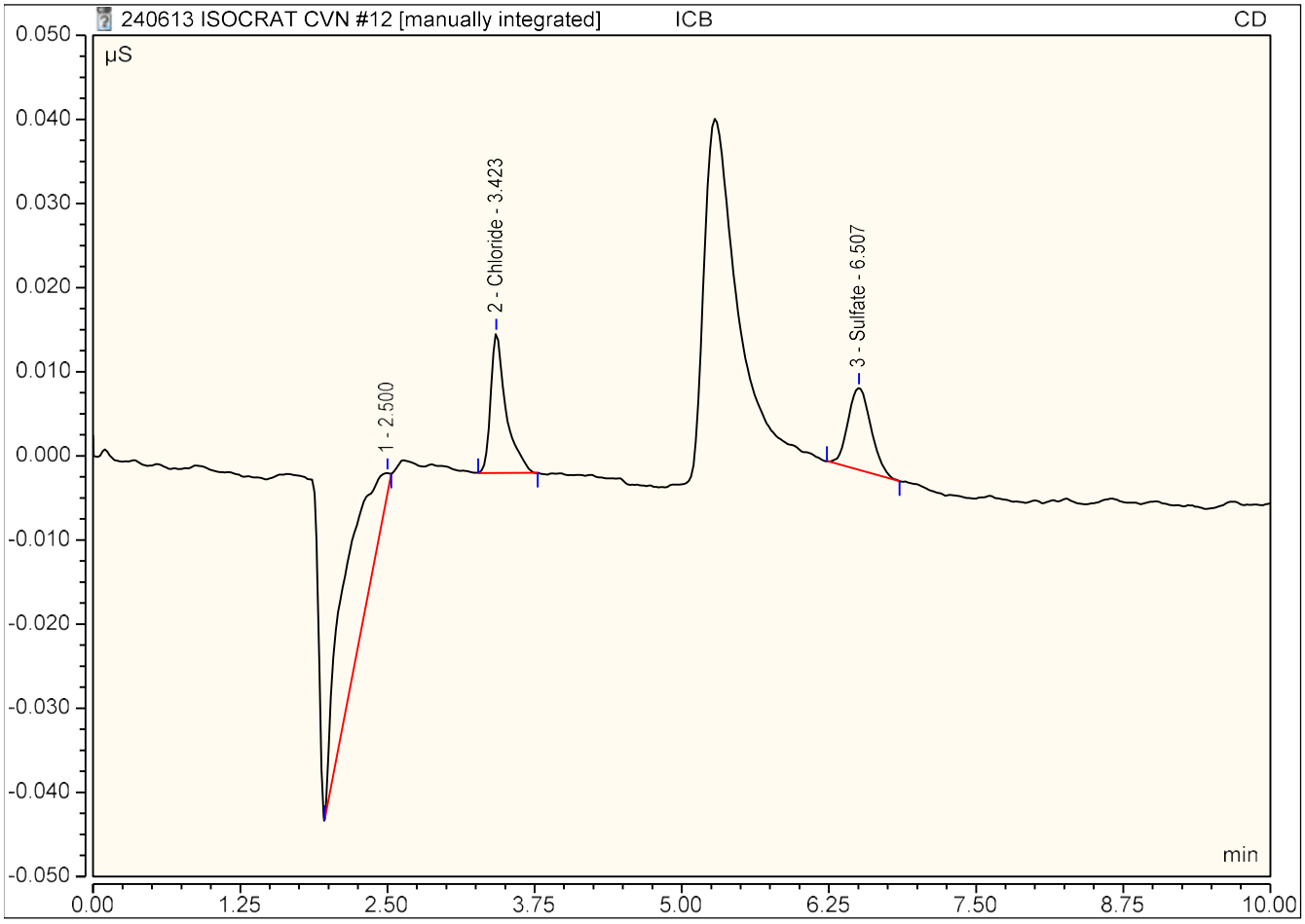
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.417	3.873	0.7481
4	3.43	**Chloride**	BMB*	3.407	23.509	8.1903
5	5.84	**Bromide**	BMB	0.093	0.490	0.8123
6	6.45	**Sulfate**	BM *	2.334	10.076	7.9583
7	6.96	**Nitrate**	MB*	0.846	3.423	0.7940
TOTAL:				7.10	41.37	18.50



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 11:26**	*Run Time:*	**10.00**

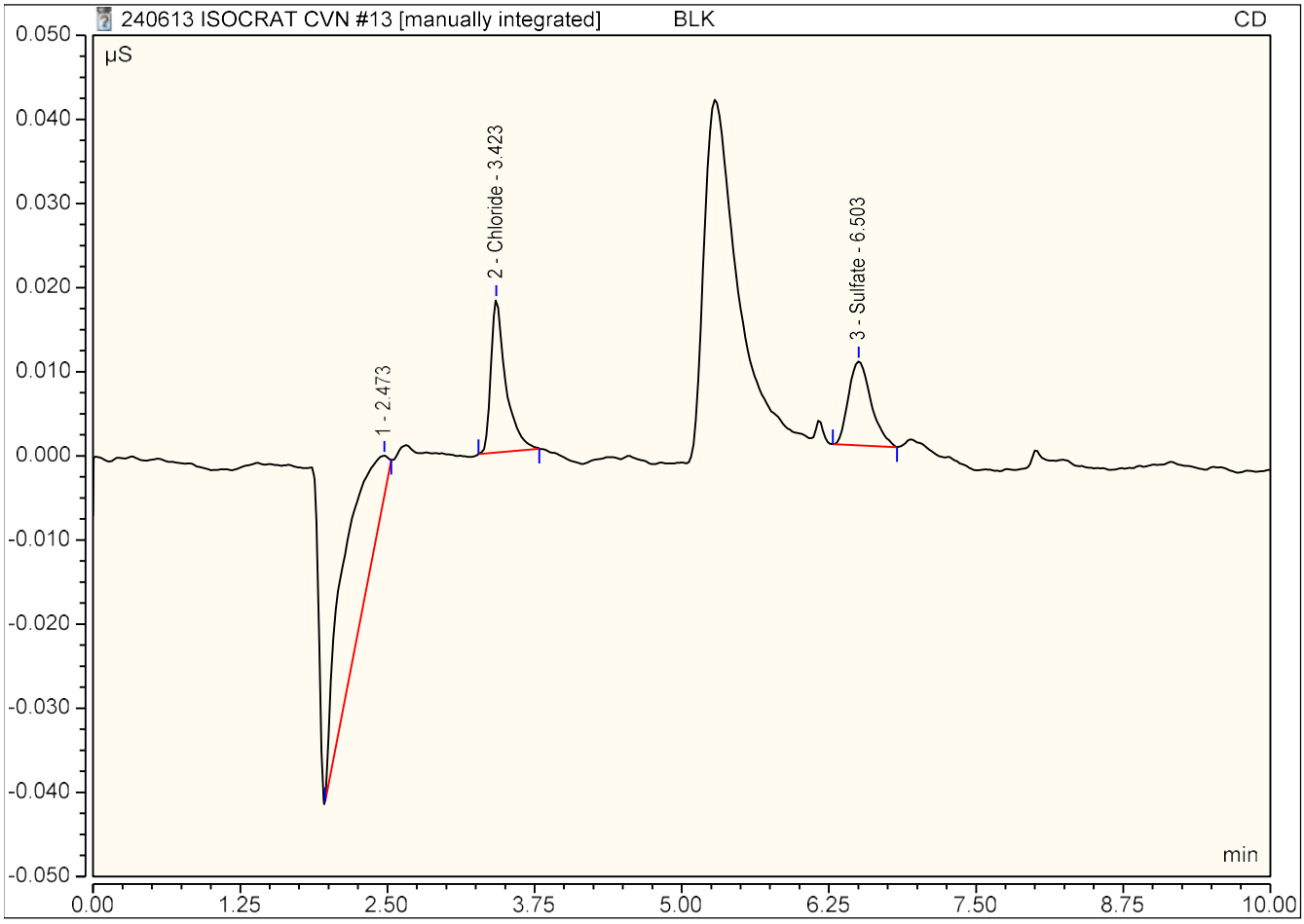
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.003	0.017	0.2393
3	6.51	**Sulfate**	BMB	0.002	0.010	0.4236
TOTAL:				0.00	0.03	0.66



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 11:38**	*Run Time:*	**10.00**

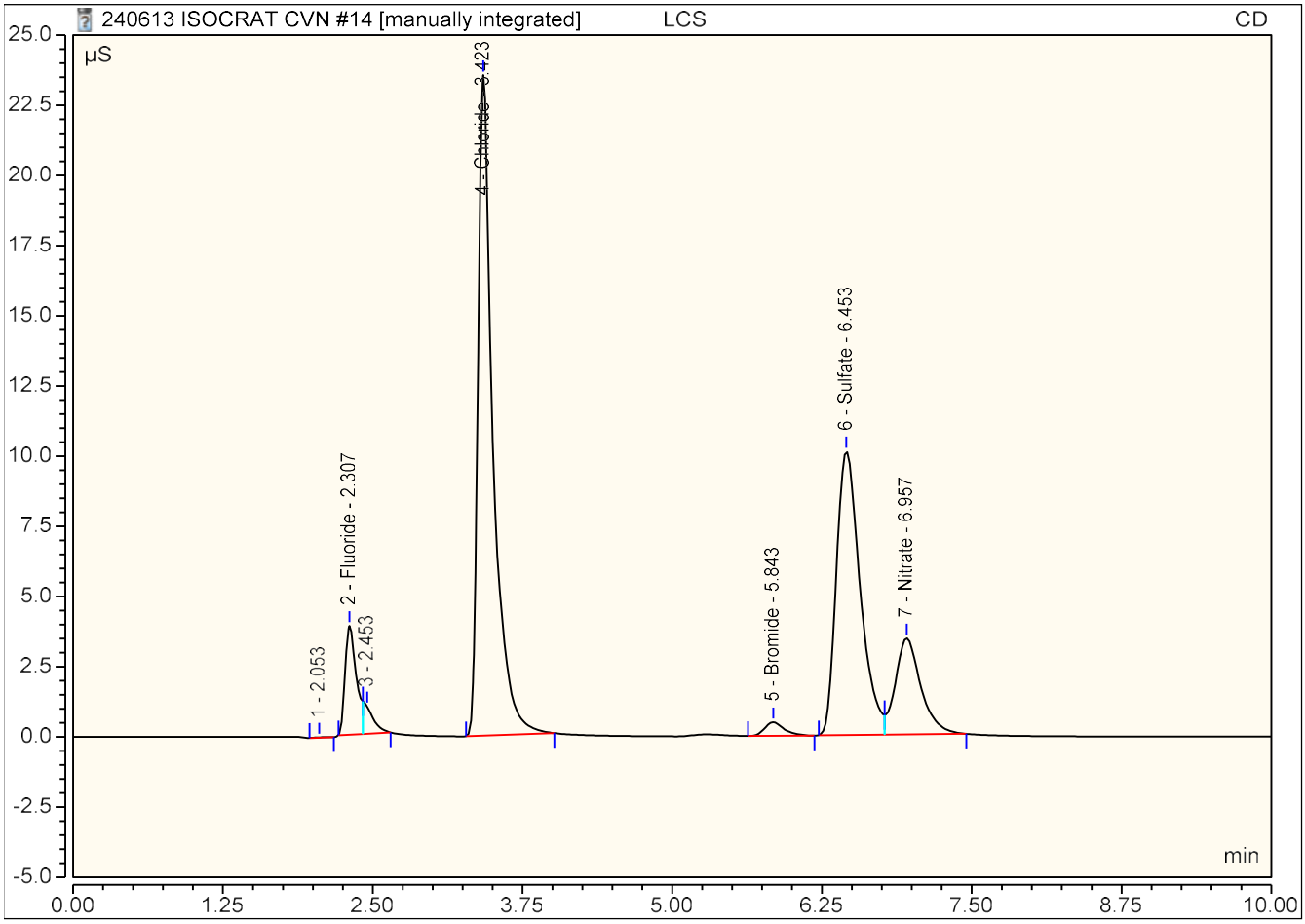
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.003	0.018	0.2396
3	6.50	**Sulfate**	BMB	0.002	0.010	0.4236
TOTAL:				0.00	0.03	0.66



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 11:50**	*Run Time:*	**10.00**

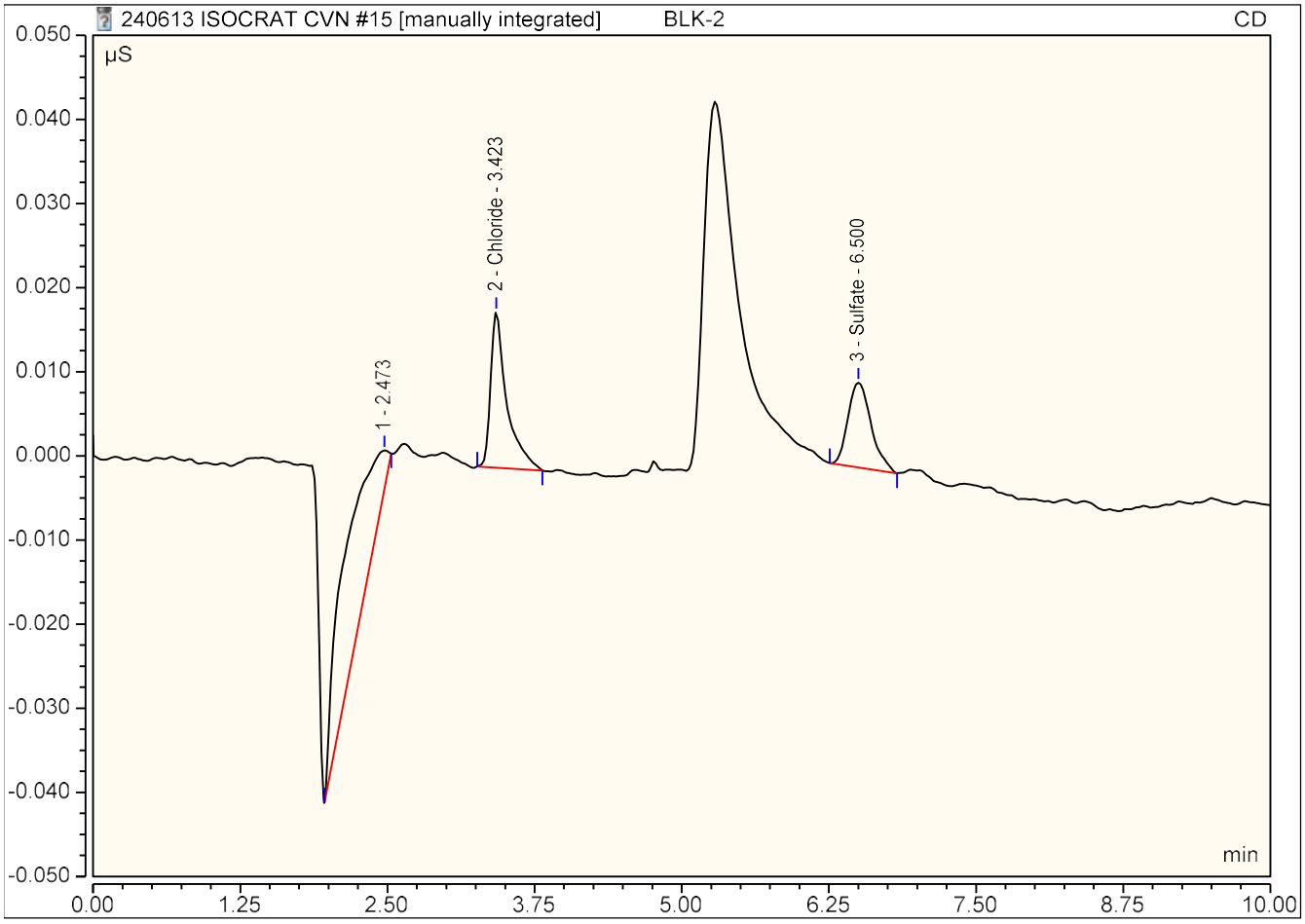
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.416	3.880	0.7474
4	3.42	**Chloride**	BMB*	3.411	23.525	8.2017
5	5.84	**Bromide**	BMB	0.092	0.489	0.8101
6	6.45	**Sulfate**	BM *	2.327	10.103	7.9377
7	6.96	**Nitrate**	MB*	0.843	3.424	0.7915
TOTAL:				7.09	41.42	18.49



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 12:02**	*Run Time:*	**10.00**

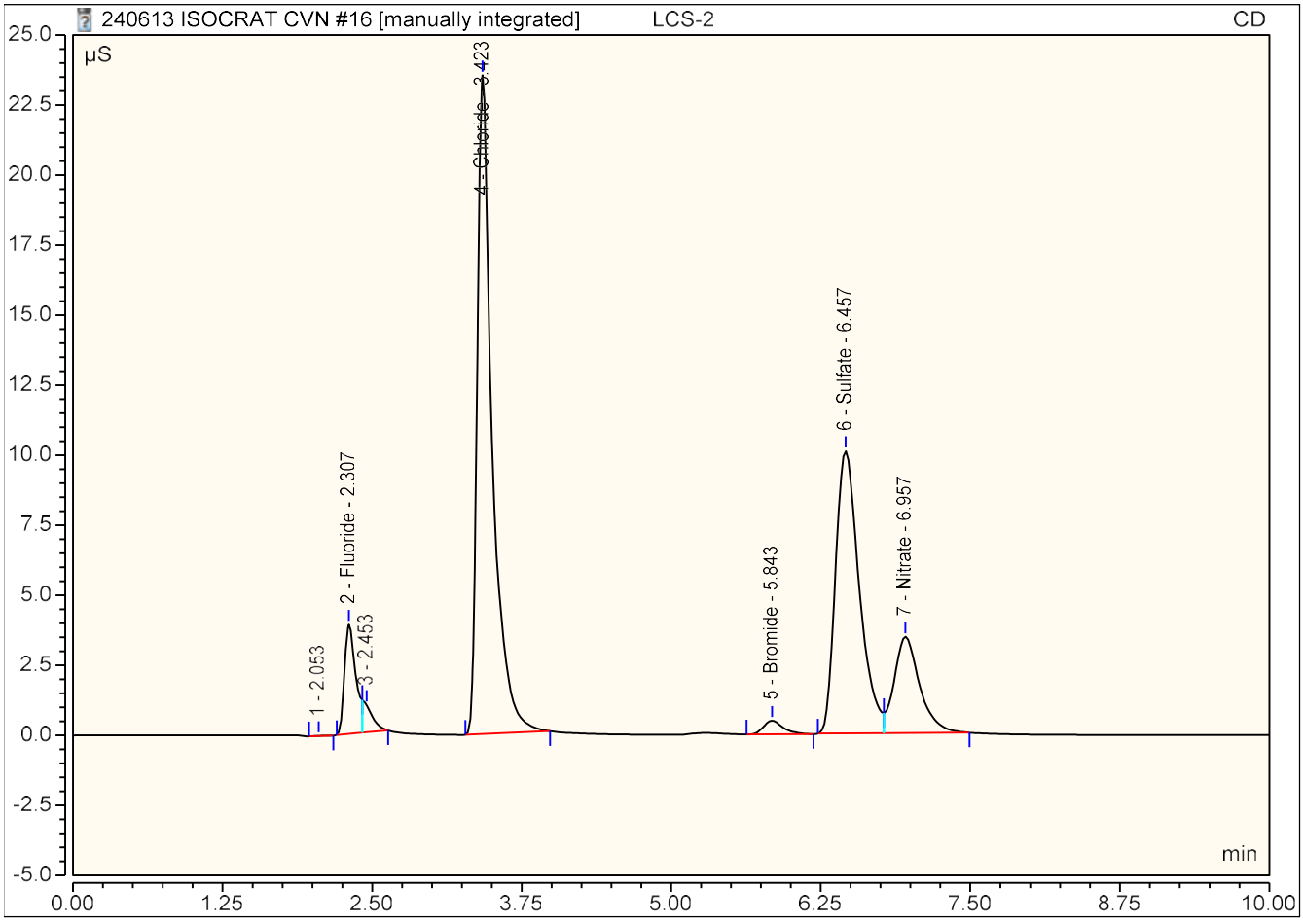
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.003	0.018	0.2402
3	6.50	**Sulfate**	BMB	0.002	0.010	0.4238
TOTAL:				0.01	0.03	0.66



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 12:14**	*Run Time:*	**10.00**

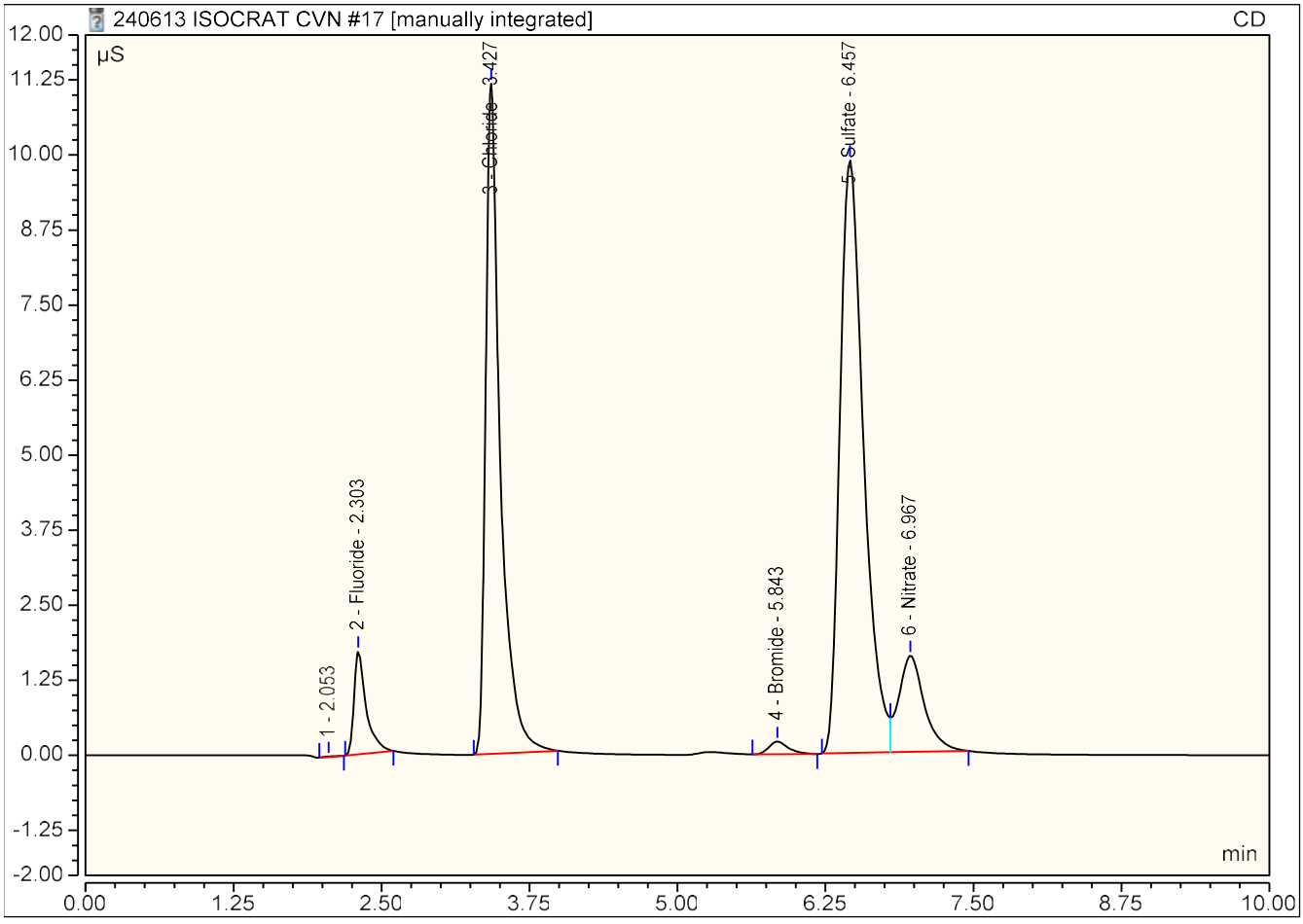
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.421	3.902	0.7547
4	3.42	**Chloride**	BMB*	3.403	23.509	8.1810
5	5.84	**Bromide**	BMB	0.092	0.489	0.8113
6	6.46	**Sulfate**	BM *	2.328	10.083	7.9397
7	6.96	**Nitrate**	MB*	0.851	3.435	0.7988
TOTAL:				7.09	41.42	18.49



Peak Integration Report

Sample Name:	**L2432828-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 12:26**	*Run Time:*	**10.00**

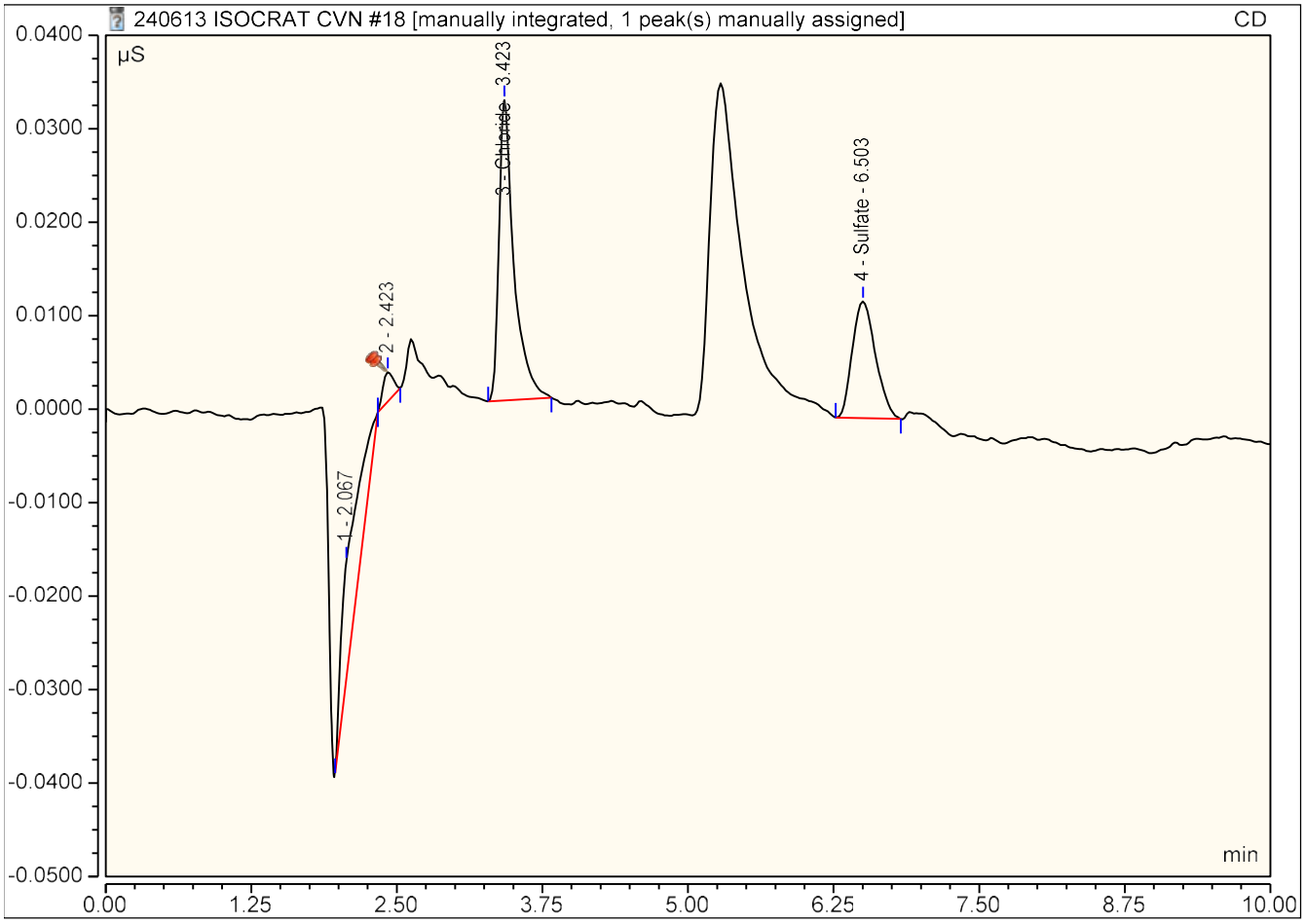
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB*	0.204	1.719	0.3919
3	3.43	**Chloride**	BMB*	1.592	11.165	3.9525
4	5.84	**Bromide**	BMB	0.041	0.213	0.3797
5	6.46	**Sulfate**	BM *	2.298	9.877	7.8424
6	6.97	**Nitrate**	MB*	0.403	1.607	0.3942
TOTAL:				4.54	24.58	12.96



Peak Integration Report

Sample Name:	**L2432828-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 12:38**	*Run Time:*	**10.00**

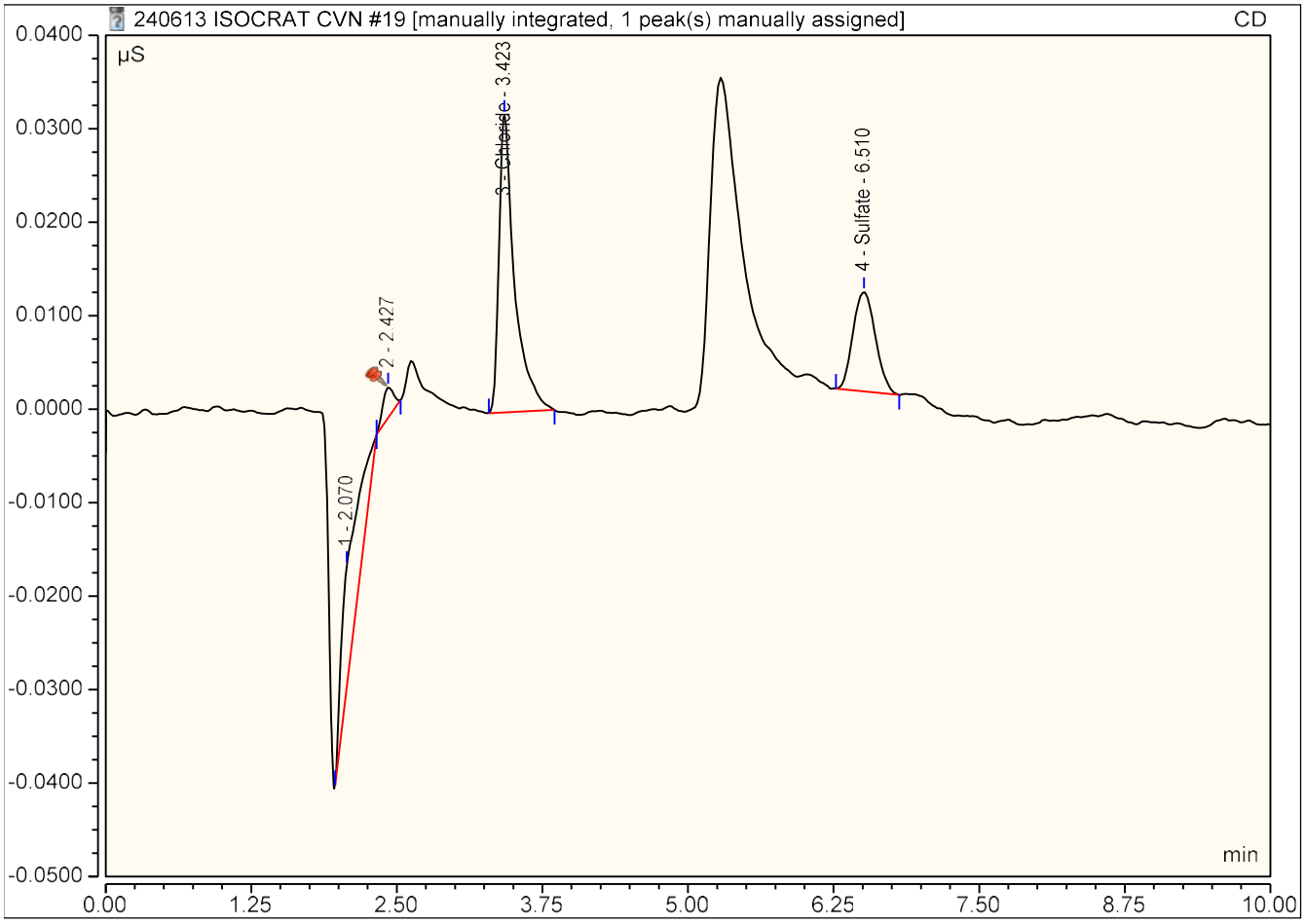
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.005	0.032	0.2445
4	6.50	**Sulfate**	BMB	0.003	0.012	0.4257
TOTAL:				0.01	0.04	0.67



Peak Integration Report

Sample Name:	**L2432828-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 12:50**	*Run Time:*	**10.00**

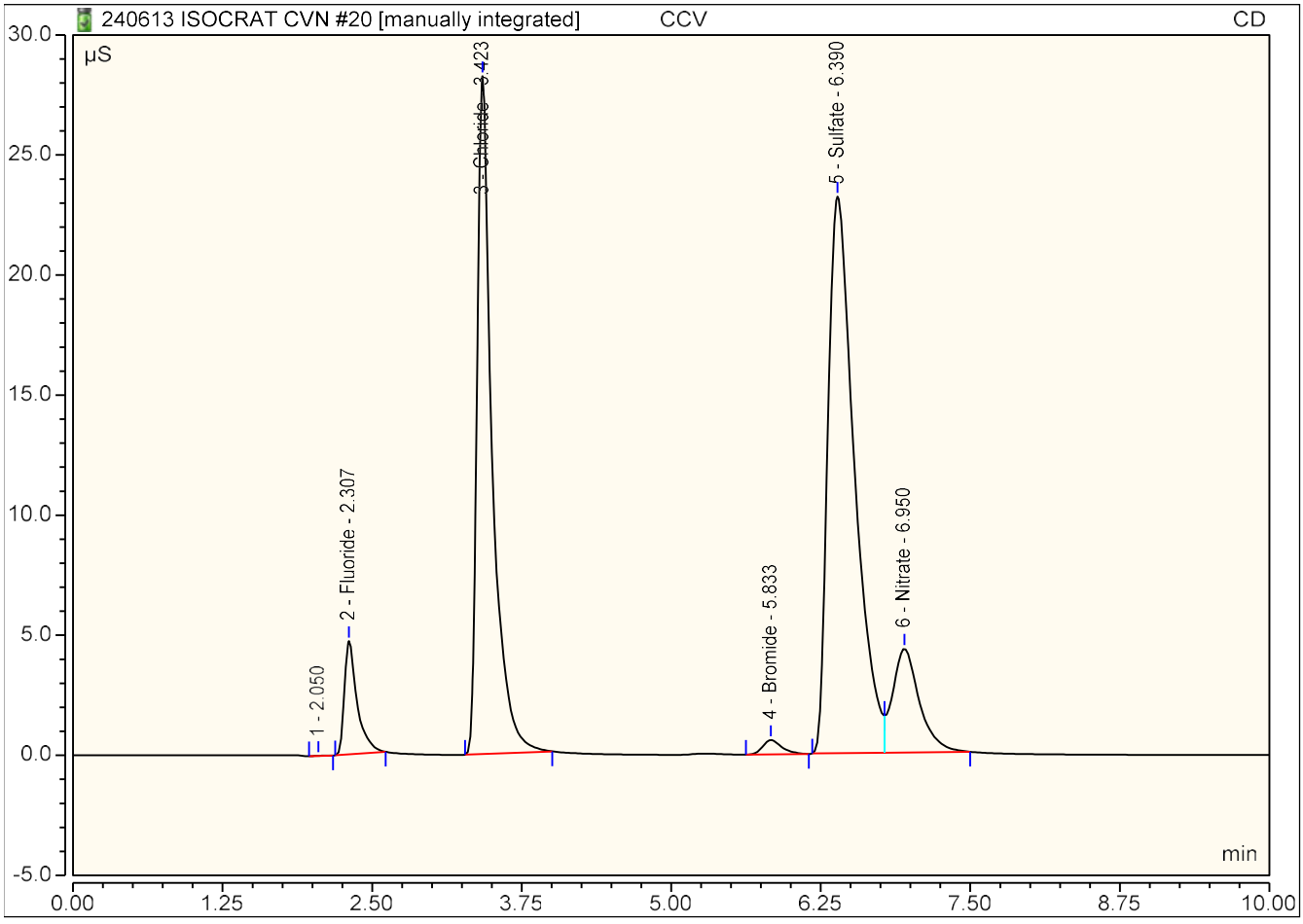
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.005	0.032	0.2448
4	6.51	**Sulfate**	BMB	0.002	0.011	0.4241
TOTAL:				0.01	0.04	0.67



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 13:02**	*Run Time:*	**10.00**

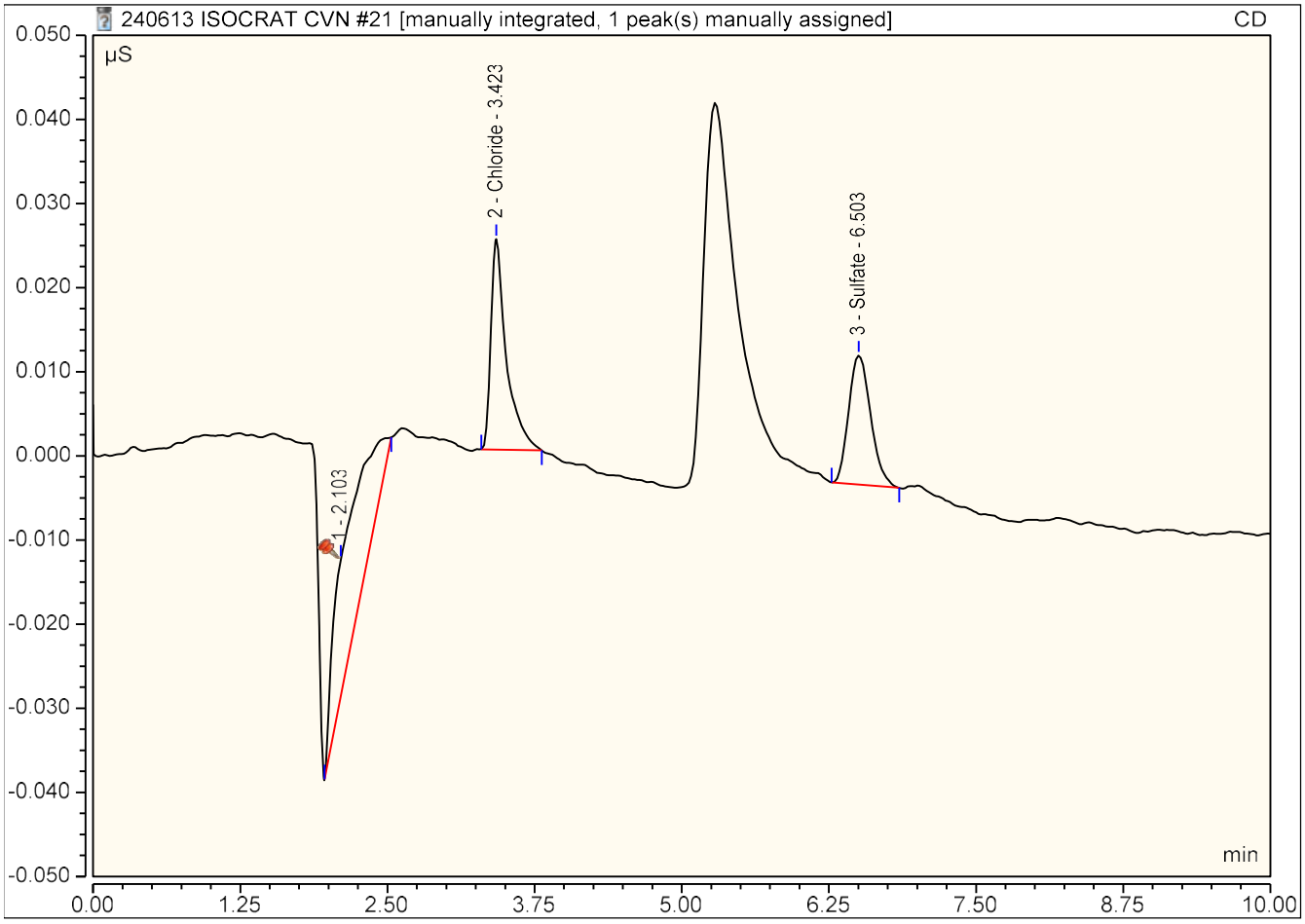
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.579	4.716	1.0194
3	3.42	**Chloride**	BMB*	4.124	28.237	9.8651
4	5.83	**Bromide**	BMB	0.111	0.597	0.9635
5	6.39	**Sulfate**	BM *	5.952	23.175	19.6496
6	6.95	**Nitrate**	MB*	1.121	4.324	1.0421
TOTAL:				11.89	61.05	32.54



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 13:14**	*Run Time:*	**10.00**

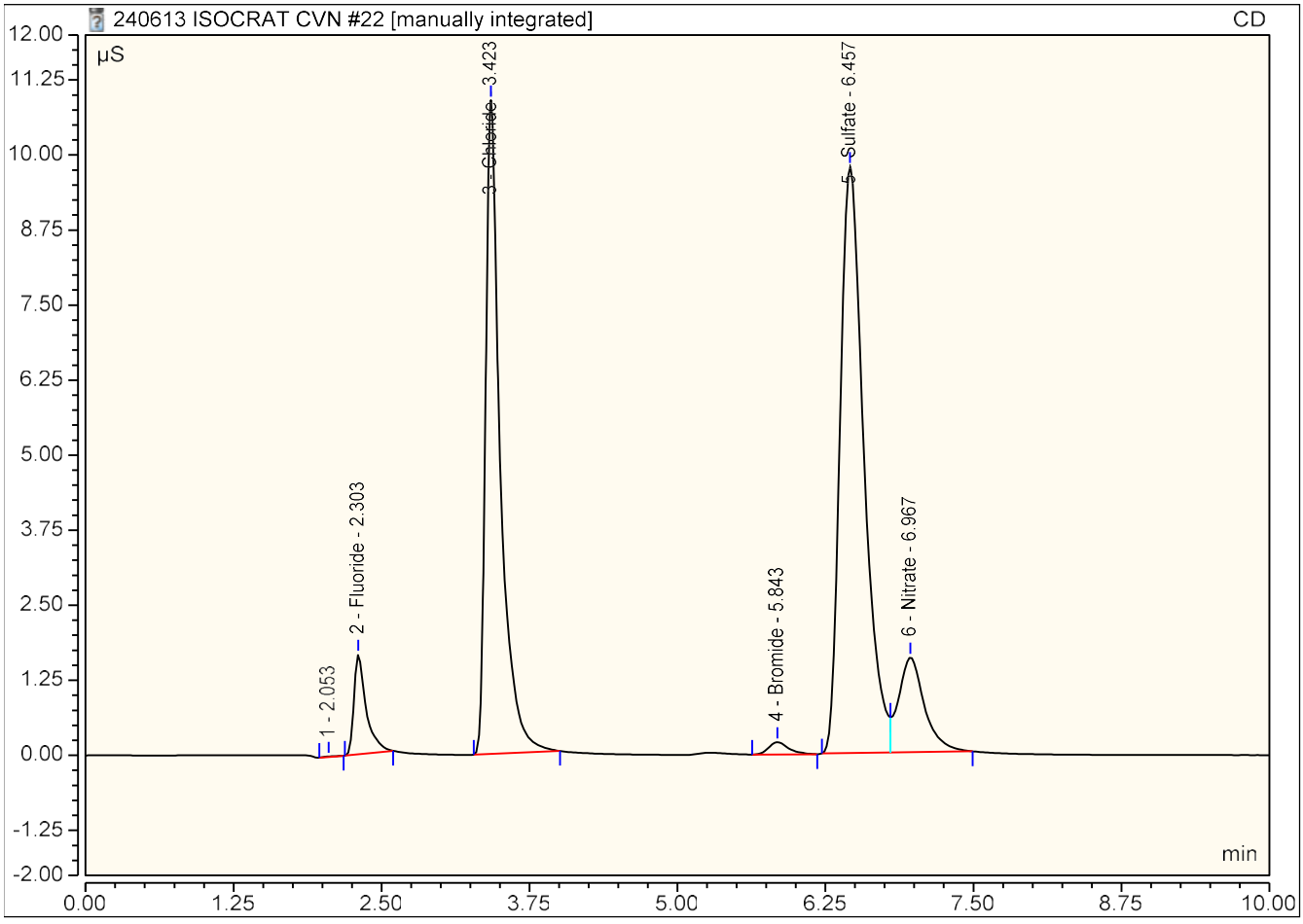
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.004	0.025	0.2423
3	6.50	**Sulfate**	BMB	0.003	0.015	0.4271
TOTAL:				0.01	0.04	0.67



Peak Integration Report

Sample Name:	**L2432828-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 13:27**	*Run Time:*	**10.00**

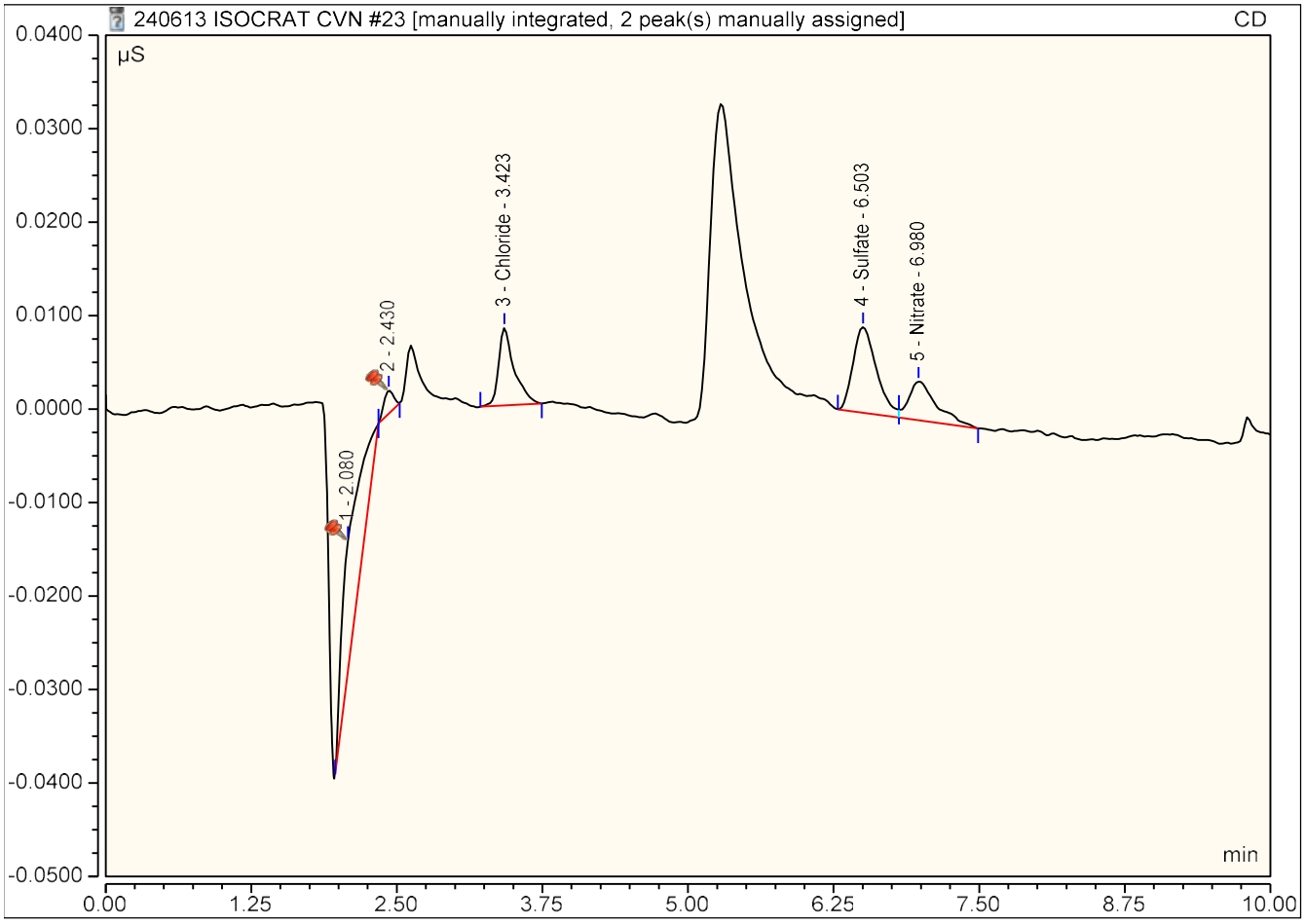
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB*	0.198	1.663	0.3830
3	3.42	**Chloride**	BMB*	1.567	10.889	3.8933
4	5.84	**Bromide**	BMB	0.040	0.206	0.3704
5	6.46	**Sulfate**	BM *	2.270	9.766	7.7505
6	6.97	**Nitrate**	MB*	0.401	1.581	0.3922
TOTAL:				4.48	24.11	12.79



Peak Integration Report

Sample Name:	**L2432828-02 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 13:39**	*Run Time:*	**10.00**

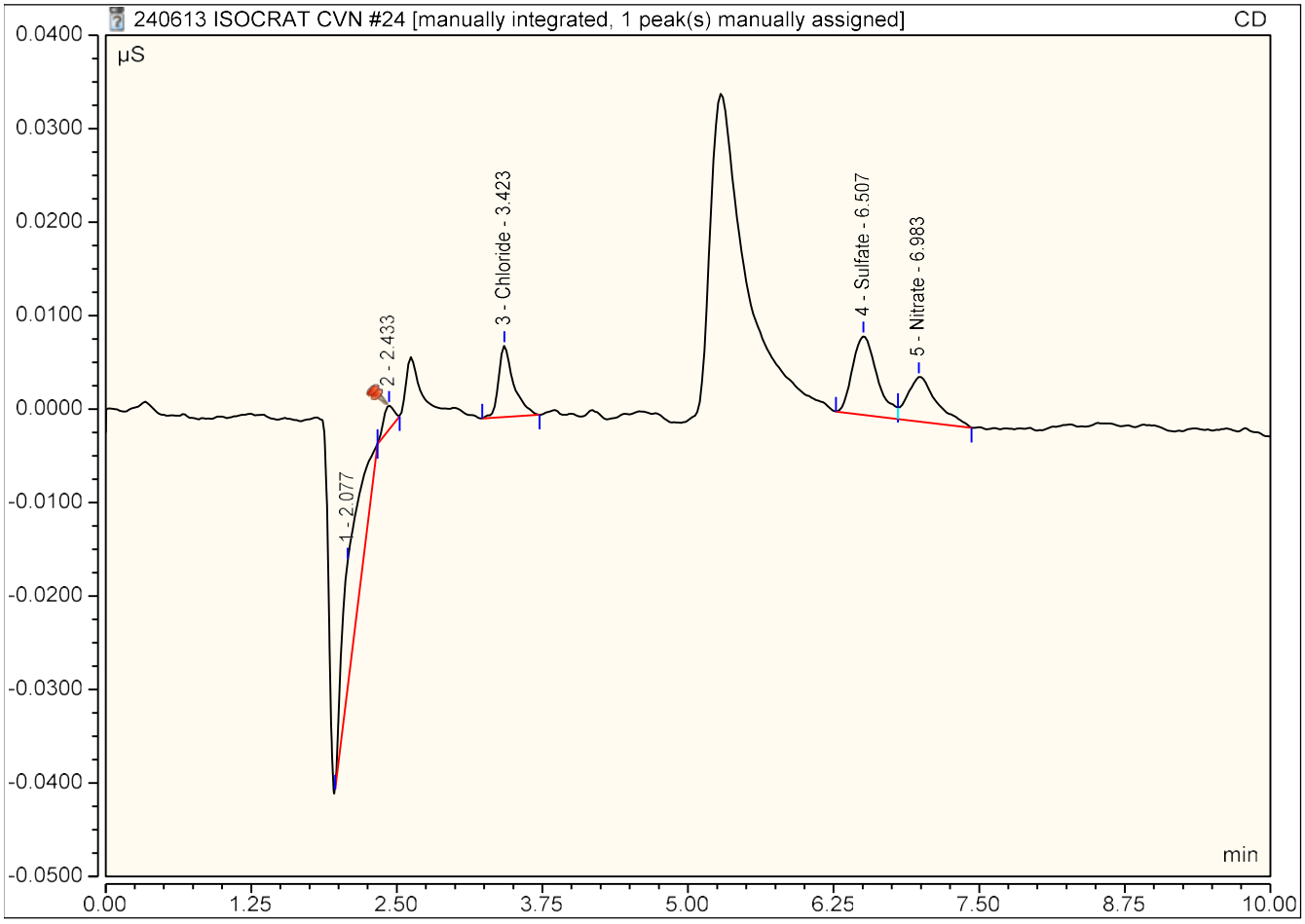
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.001	0.008	0.2364
4	6.50	**Sulfate**	BM *	0.002	0.009	0.4233
5	6.98	**Nitrate**	MB*	0.001	0.004	0.0317
TOTAL:				0.00	0.02	0.69



Peak Integration Report

Sample Name:	**L2432828-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 13:51**	*Run Time:*	**10.00**

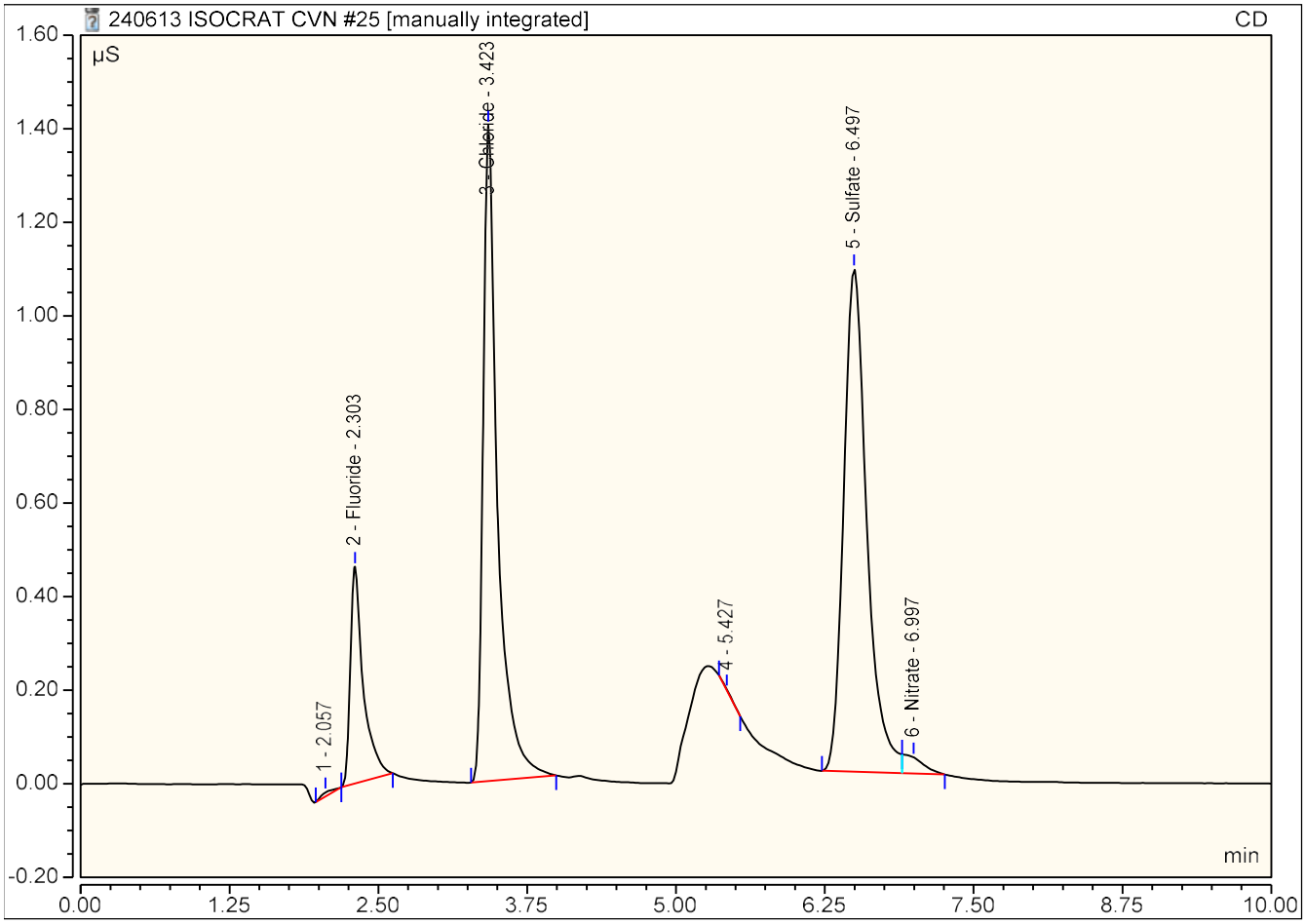
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.001	0.008	0.2361
4	6.51	**Sulfate**	BM *	0.002	0.008	0.4231
5	6.98	**Nitrate**	MB*	0.001	0.005	0.0319
TOTAL:				0.00	0.02	0.69



Peak Integration Report

Sample Name:	**XL2430662-01 BR CL SO4; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 14:03**	*Run Time:*	**10.00**

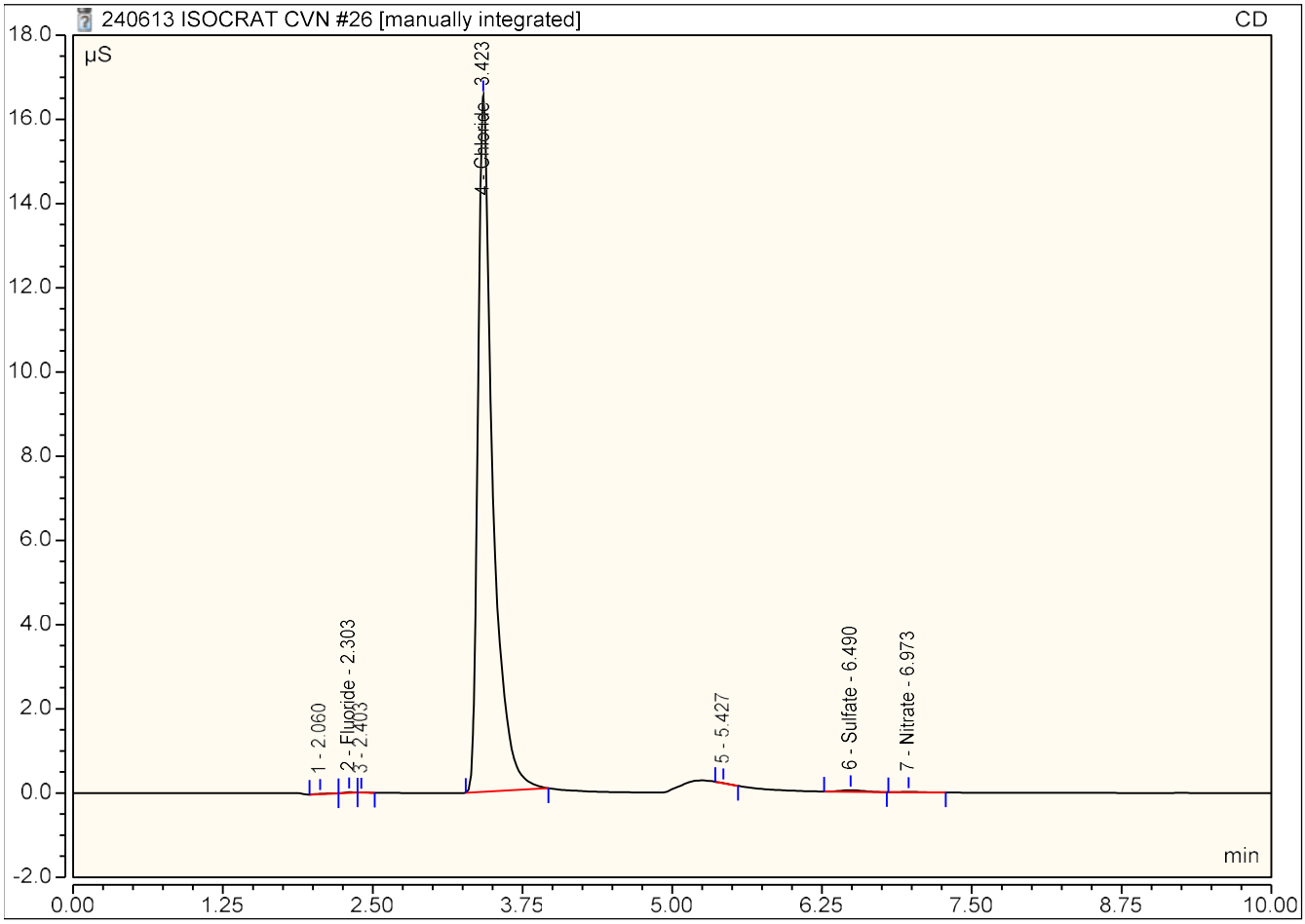
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	bMB*	0.058	0.463	1.4846
3	3.42	**Chloride**	BMB*	0.198	1.401	6.9581
5	6.50	**Sulfate**	BM *	0.243	1.074	12.0049
6	7.00	**Nitrate**	MB*	0.007	0.035	0.3727
TOTAL:				0.51	2.97	20.82



Peak Integration Report

Sample Name:	**L2430662-02; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 14:15**	*Run Time:*	**10.00**

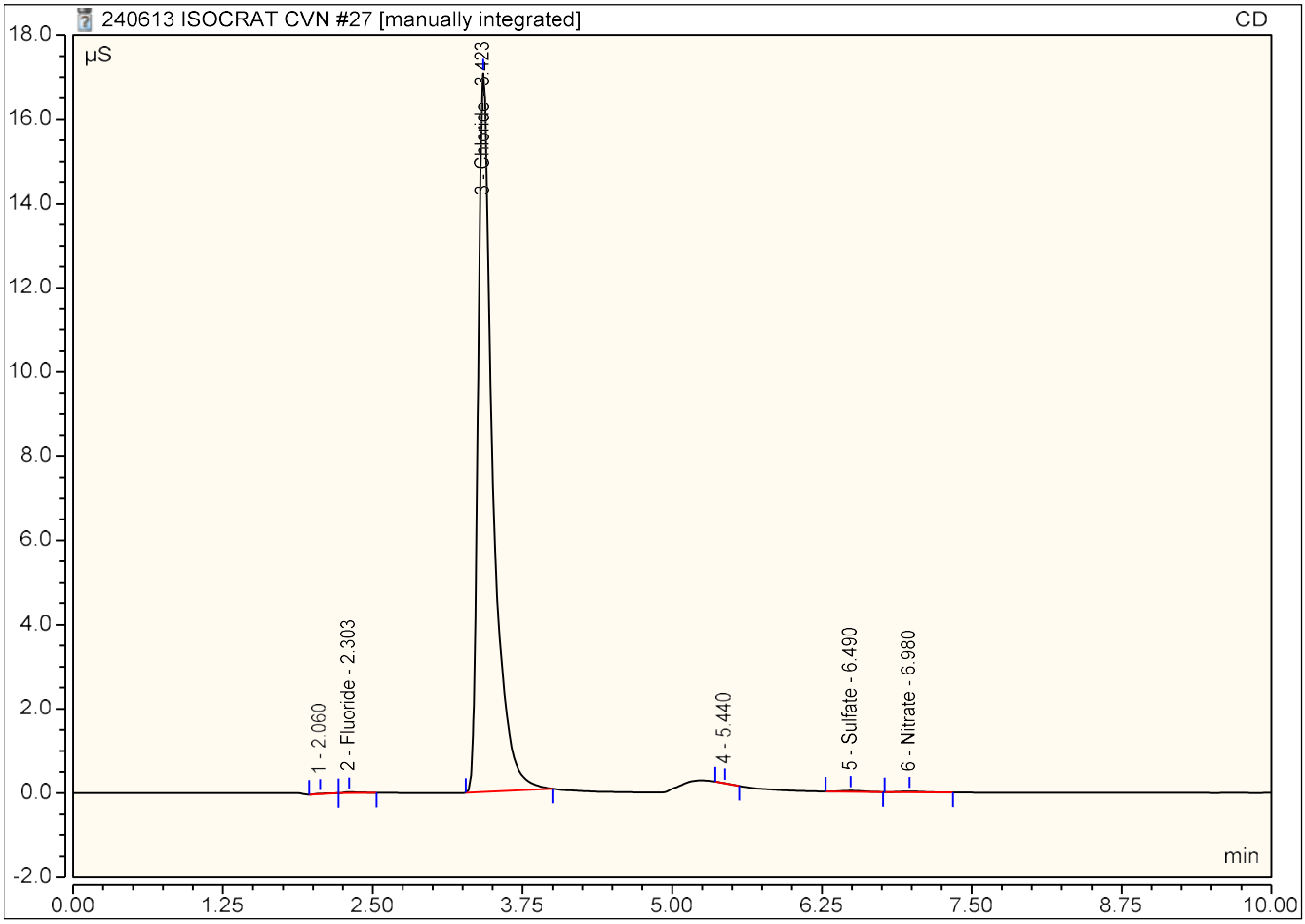
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.015	0.5291
4	3.42	**Chloride**	BMB*	2.381	16.545	57.9392
6	6.49	**Sulfate**	BMB	0.008	0.039	4.4347
7	6.97	**Nitrate**	BMB	0.002	0.010	0.3245
TOTAL:				2.39	16.61	63.23



Peak Integration Report

Sample Name:	**L2430662-03; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 14:27**	*Run Time:*	**10.00**

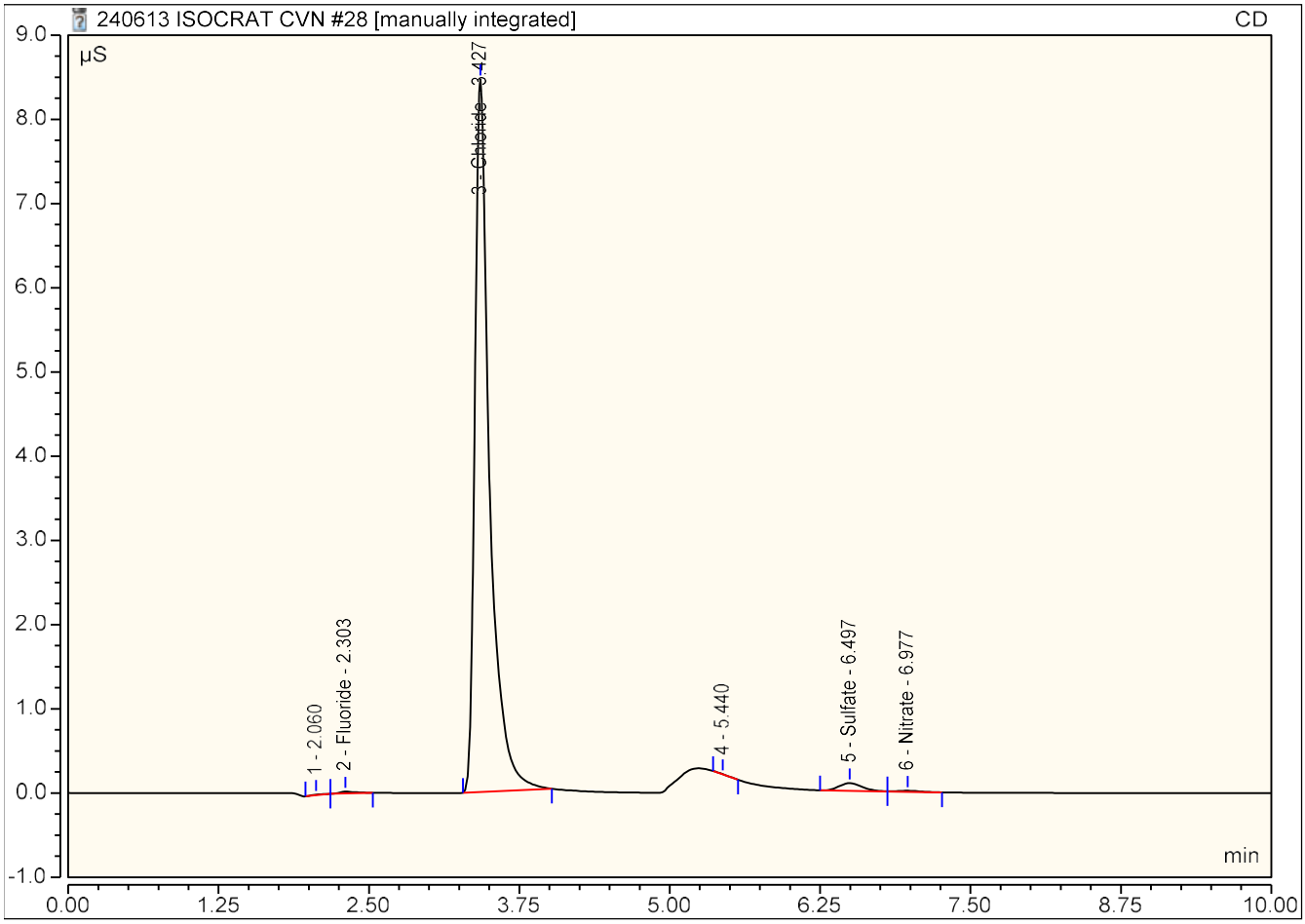
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.004	0.024	0.5700
3	3.42	**Chloride**	BMB*	2.456	17.061	59.6996
5	6.49	**Sulfate**	BMB	0.005	0.026	4.3378
6	6.98	**Nitrate**	BMB	0.004	0.019	0.3435
TOTAL:				2.47	17.13	64.95



Peak Integration Report

Sample Name:	**XL2430662-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 14:39**	*Run Time:*	**10.00**

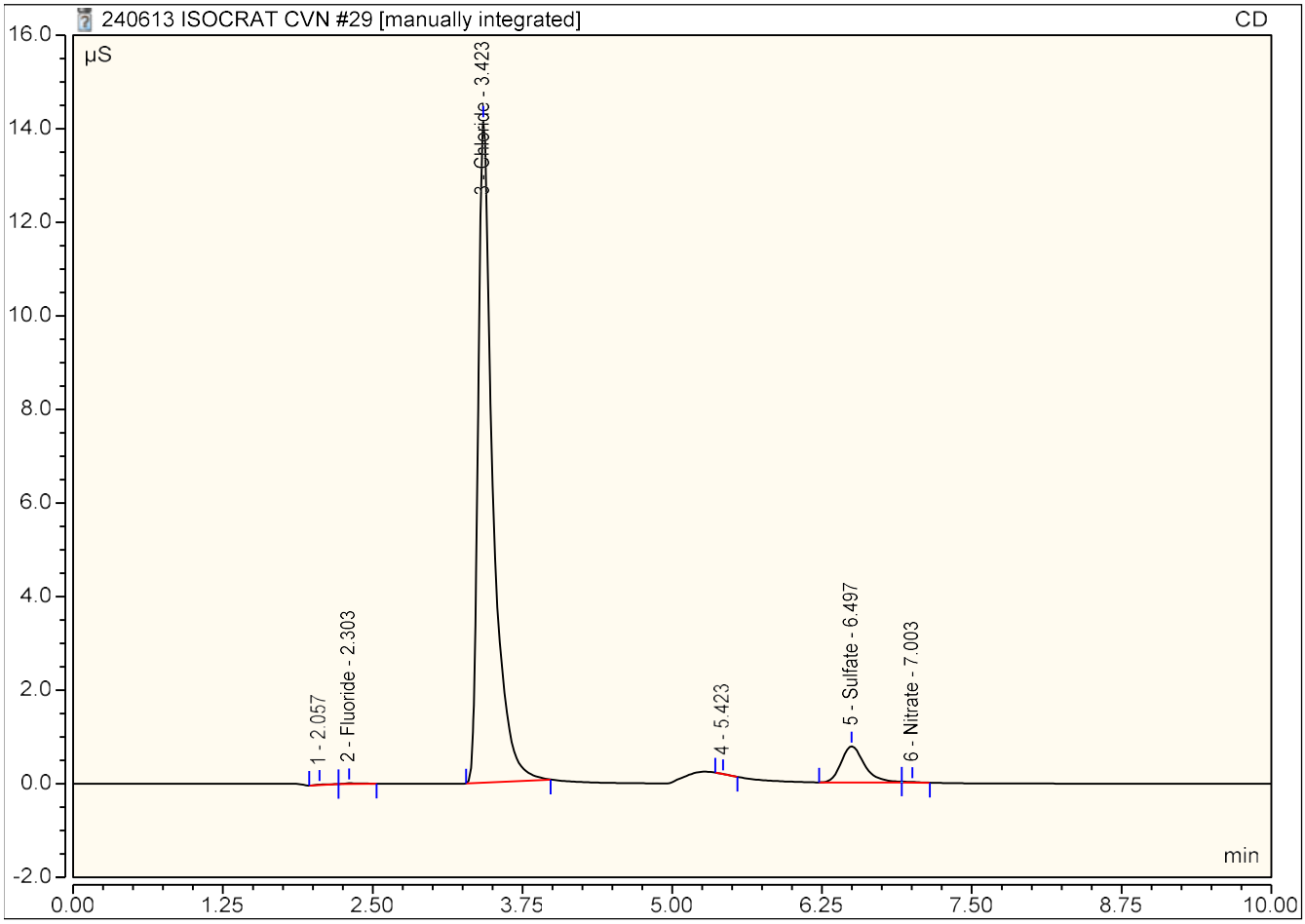
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.004	0.024	0.5687
3	3.43	**Chloride**	BMB*	1.201	8.464	30.3903
5	6.50	**Sulfate**	BM *	0.021	0.093	4.8423
6	6.98	**Nitrate**	MB*	0.003	0.014	0.3345
TOTAL:				1.23	8.59	36.14



Peak Integration Report

Sample Name:	**XL2430662-05; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 14:51**	*Run Time:*	**10.00**

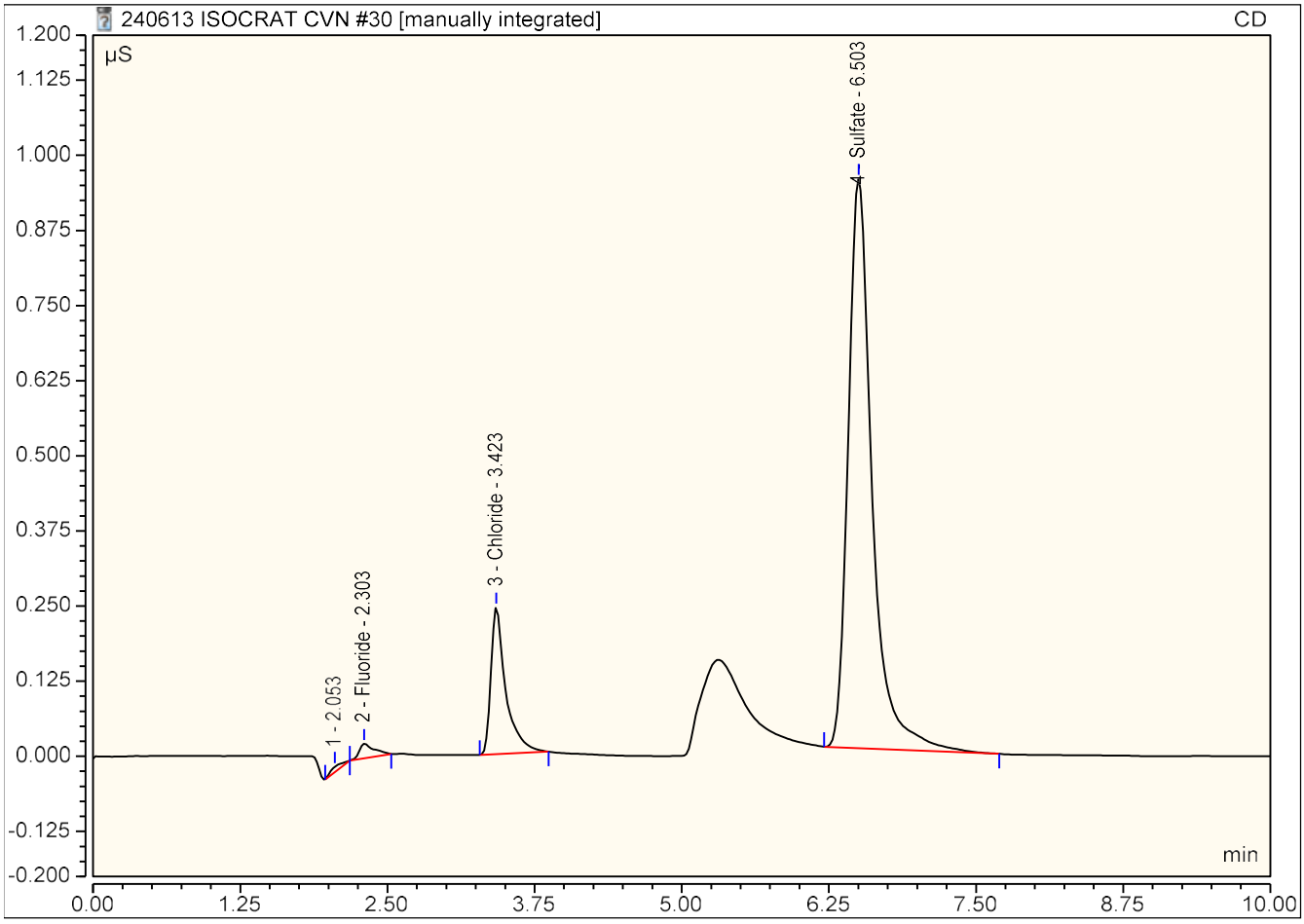
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.017	0.5520
3	3.42	**Chloride**	BMB*	2.029	14.144	49.7232
5	6.50	**Sulfate**	BM *	0.176	0.775	9.8456
6	7.00	**Nitrate**	MB*	0.003	0.015	0.3302
TOTAL:				2.21	14.95	60.45



Peak Integration Report

Sample Name:	**XL2430662-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 15:03**	*Run Time:*	**10.00**

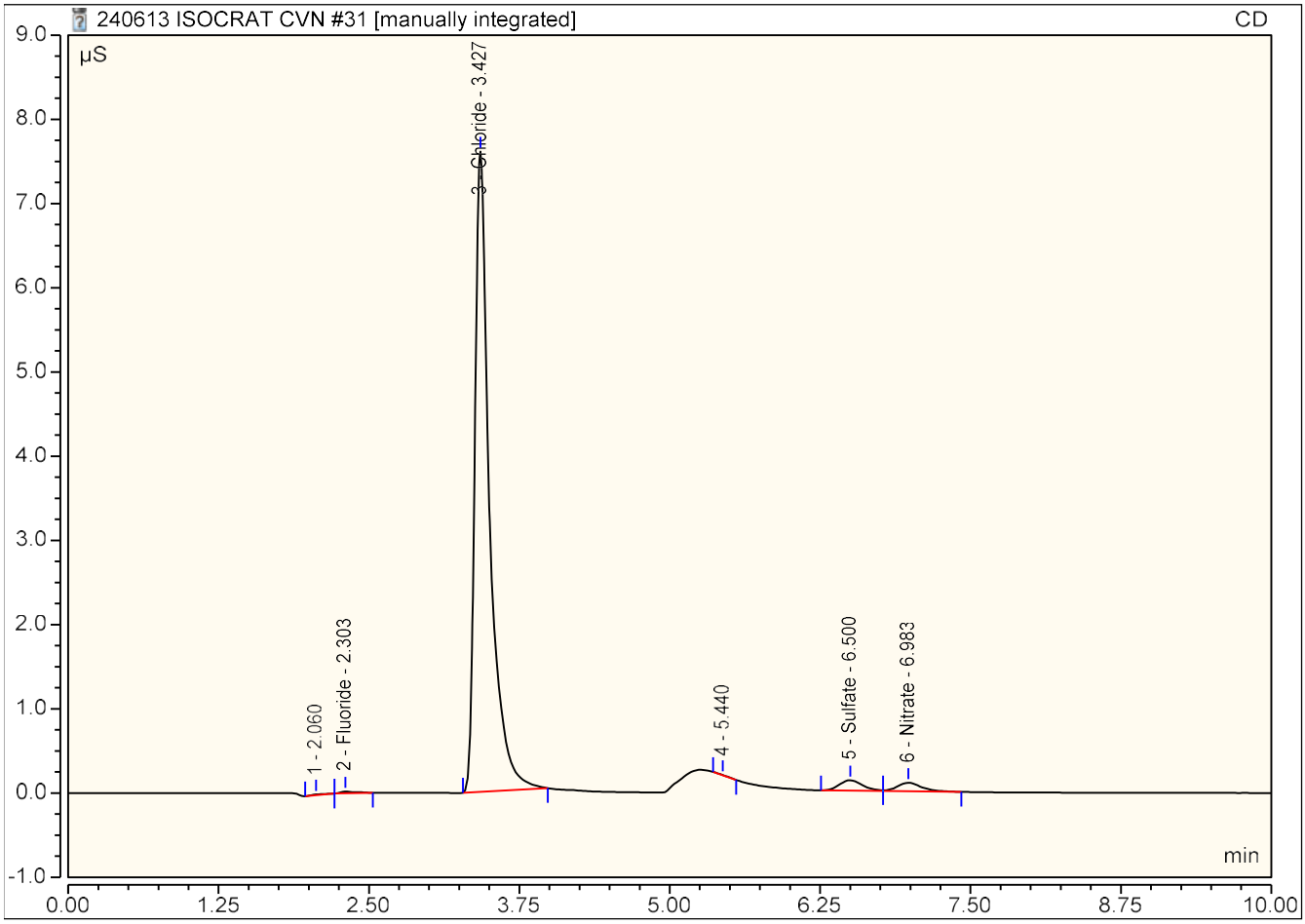
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.004	0.024	0.5688
3	3.42	**Chloride**	BMB*	0.036	0.244	3.1689
4	6.50	**Sulfate**	BMB	0.224	0.948	11.3934
TOTAL:				0.26	1.22	15.13



Peak Integration Report

Sample Name:	**XL2430662-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 15:15**	*Run Time:*	**10.00**

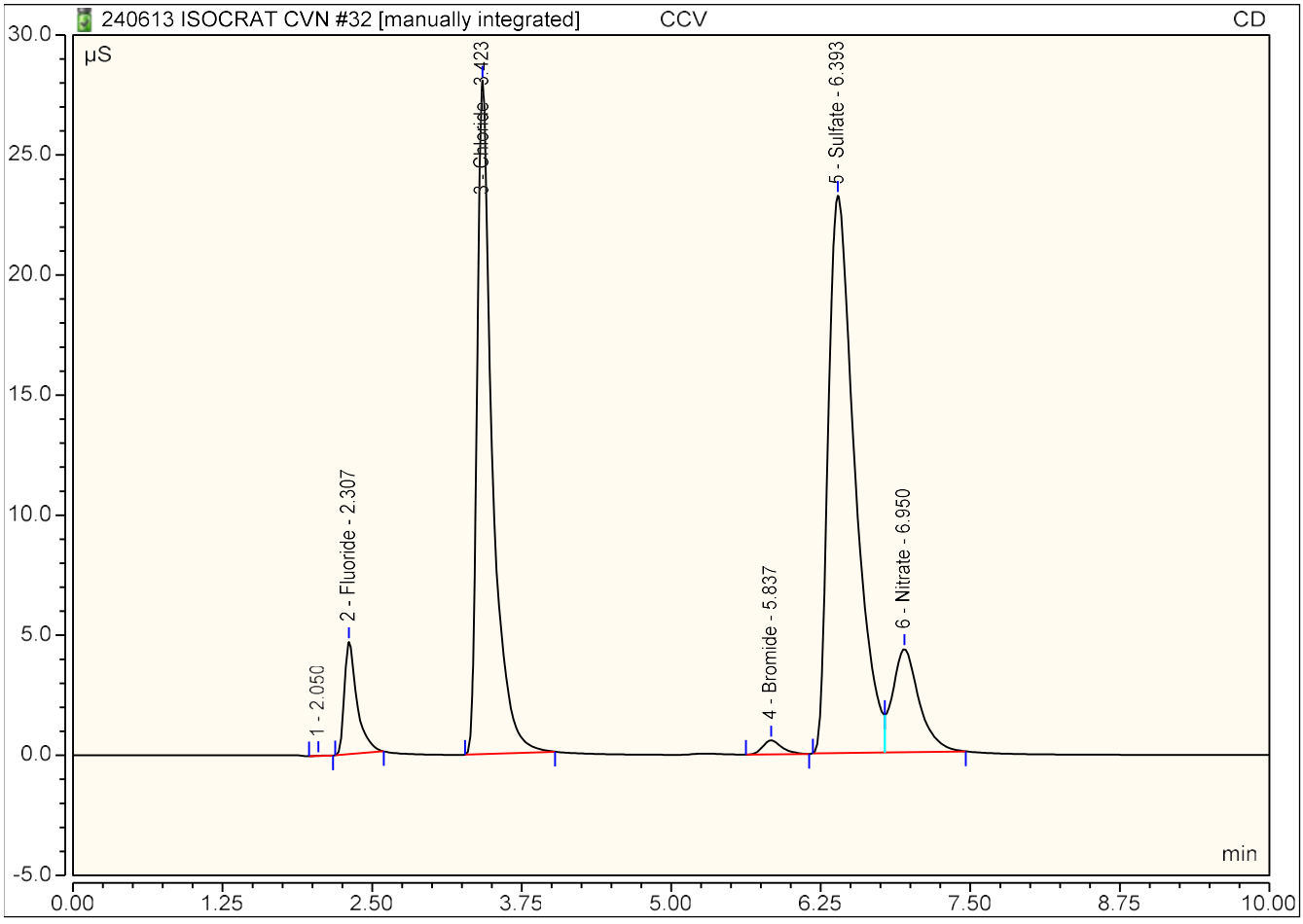
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.022	0.5657
3	3.43	**Chloride**	BMB*	1.076	7.602	27.4760
5	6.50	**Sulfate**	BM *	0.028	0.124	5.0534
6	6.98	**Nitrate**	MB*	0.024	0.102	0.5222
TOTAL:				1.13	7.85	33.62



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 15:27**	*Run Time:*	**10.00**

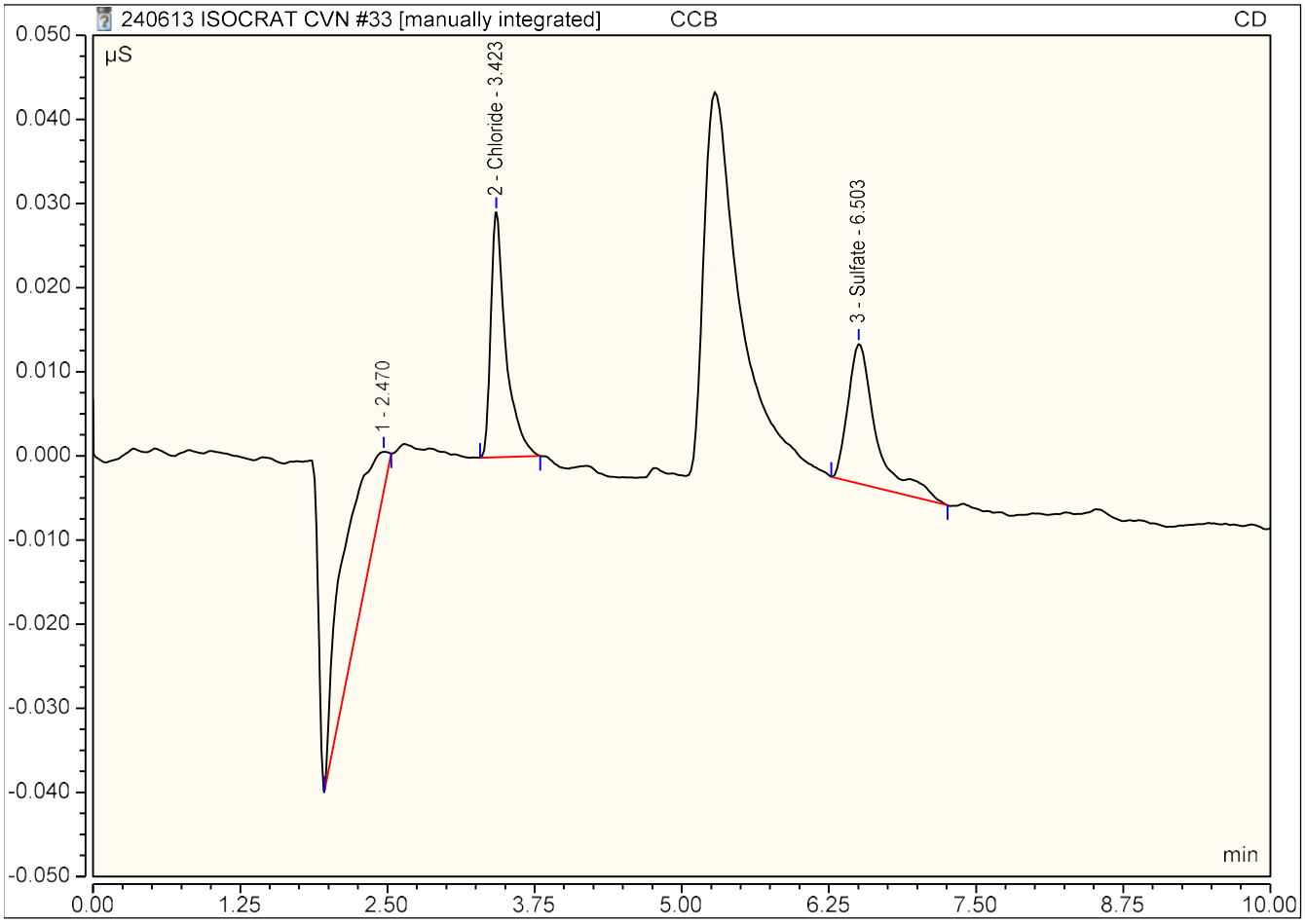
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.572	4.673	1.0086
3	3.42	**Chloride**	BMB*	4.133	28.050	9.8870
4	5.84	**Bromide**	BMB	0.109	0.589	0.9519
5	6.39	**Sulfate**	BM *	5.957	23.211	19.6663
6	6.95	**Nitrate**	MB*	1.105	4.301	1.0279
TOTAL:				11.88	60.82	32.54



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 15:40**	*Run Time:*	**10.00**

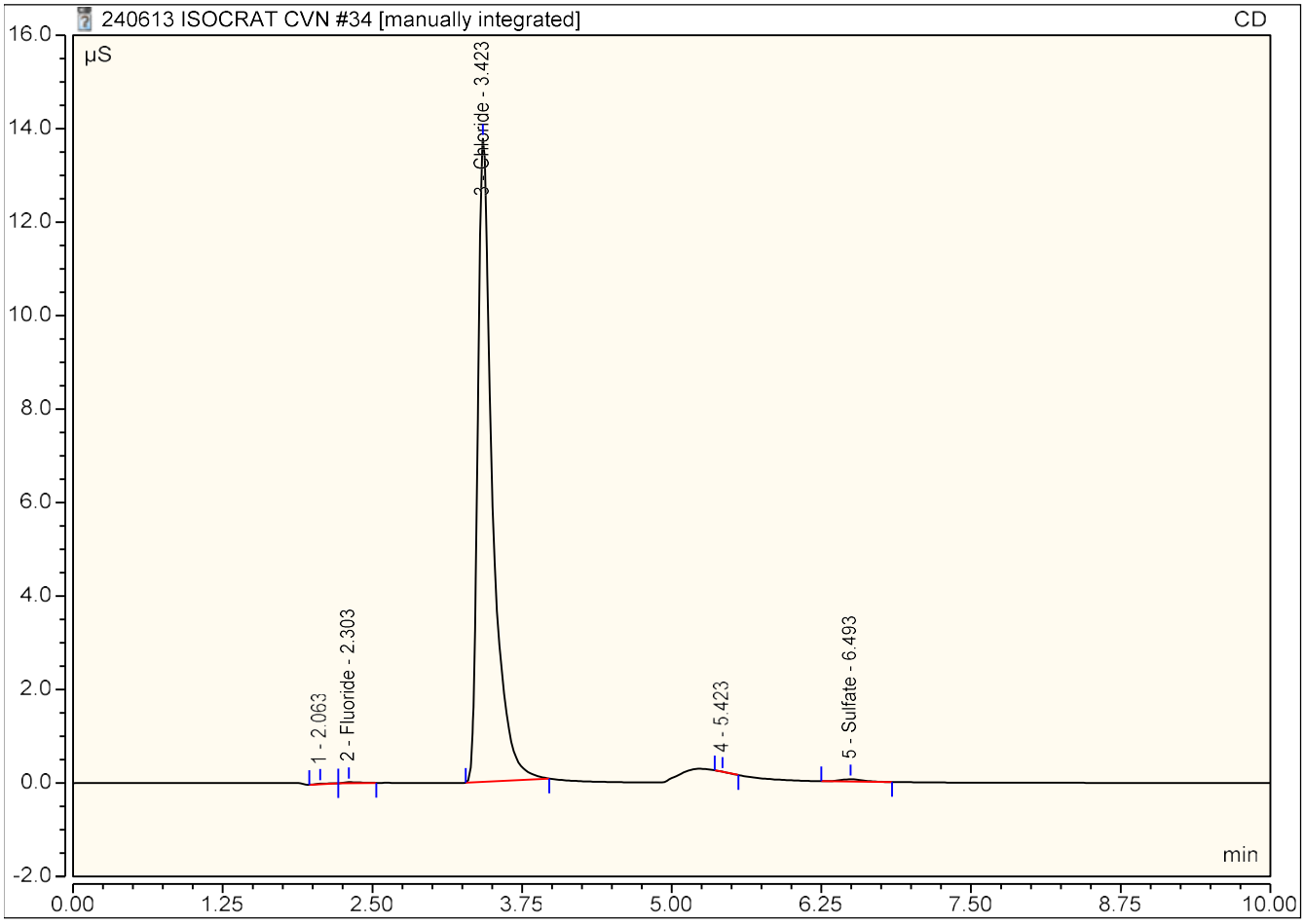
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.004	0.029	0.2434
3	6.50	**Sulfate**	BMB	0.005	0.017	0.4314
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**XL2430662-08; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 15:52**	*Run Time:*	**10.00**

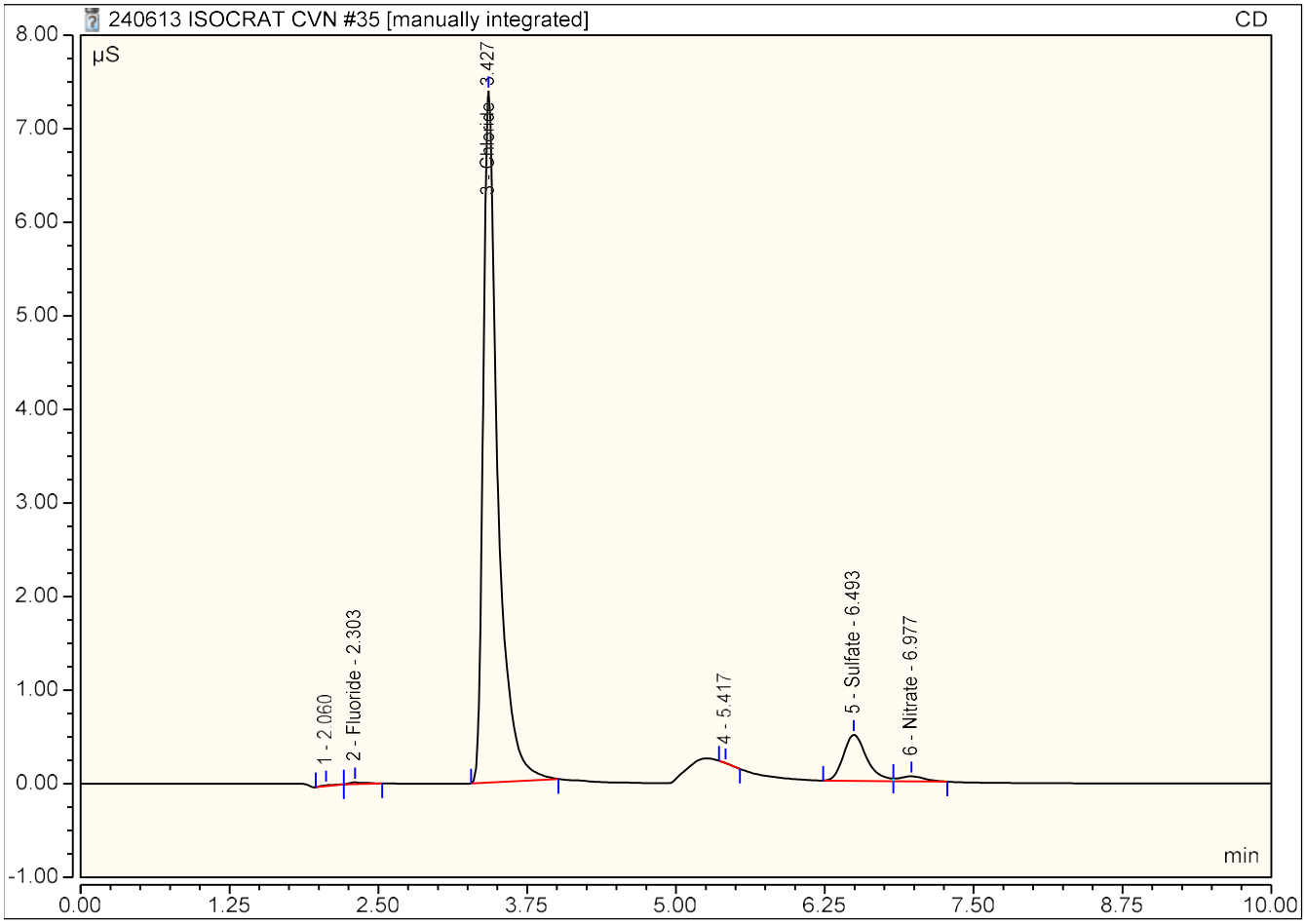
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.021	0.5607
3	3.42	**Chloride**	BMB*	1.974	13.760	48.4499
5	6.49	**Sulfate**	BMB	0.011	0.050	4.5212
TOTAL:				1.99	13.83	53.53



Peak Integration Report

Sample Name:	**XL2430662-09; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 16:04**	*Run Time:*	**10.00**

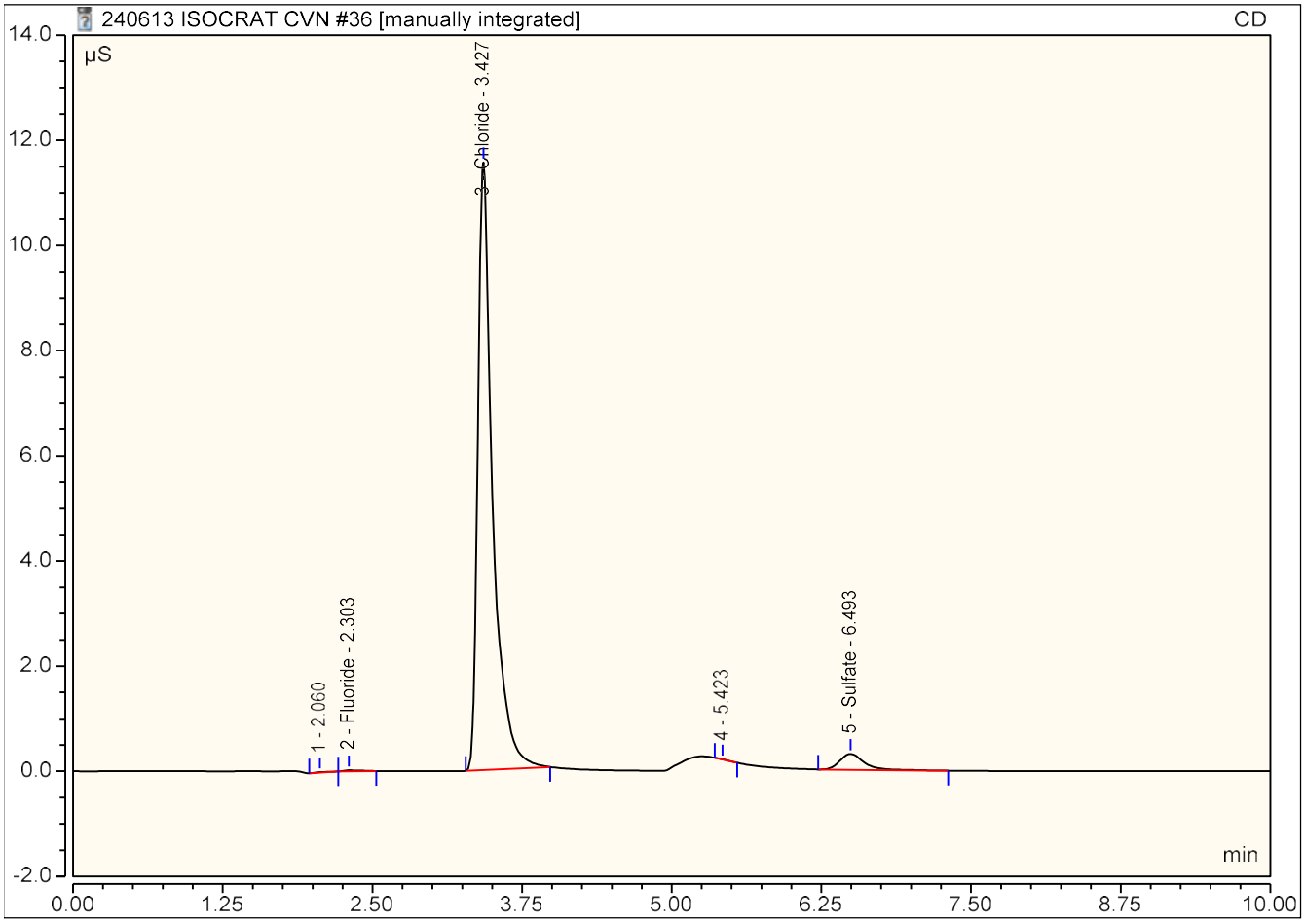
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.019	0.5574
3	3.43	**Chloride**	BMB*	1.054	7.388	26.9514
5	6.49	**Sulfate**	BM *	0.111	0.493	7.7658
6	6.98	**Nitrate**	MB*	0.013	0.055	0.4240
TOTAL:				1.18	7.95	35.70



Peak Integration Report

Sample Name:	**XL2430662-10; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 16:16**	*Run Time:*	**10.00**

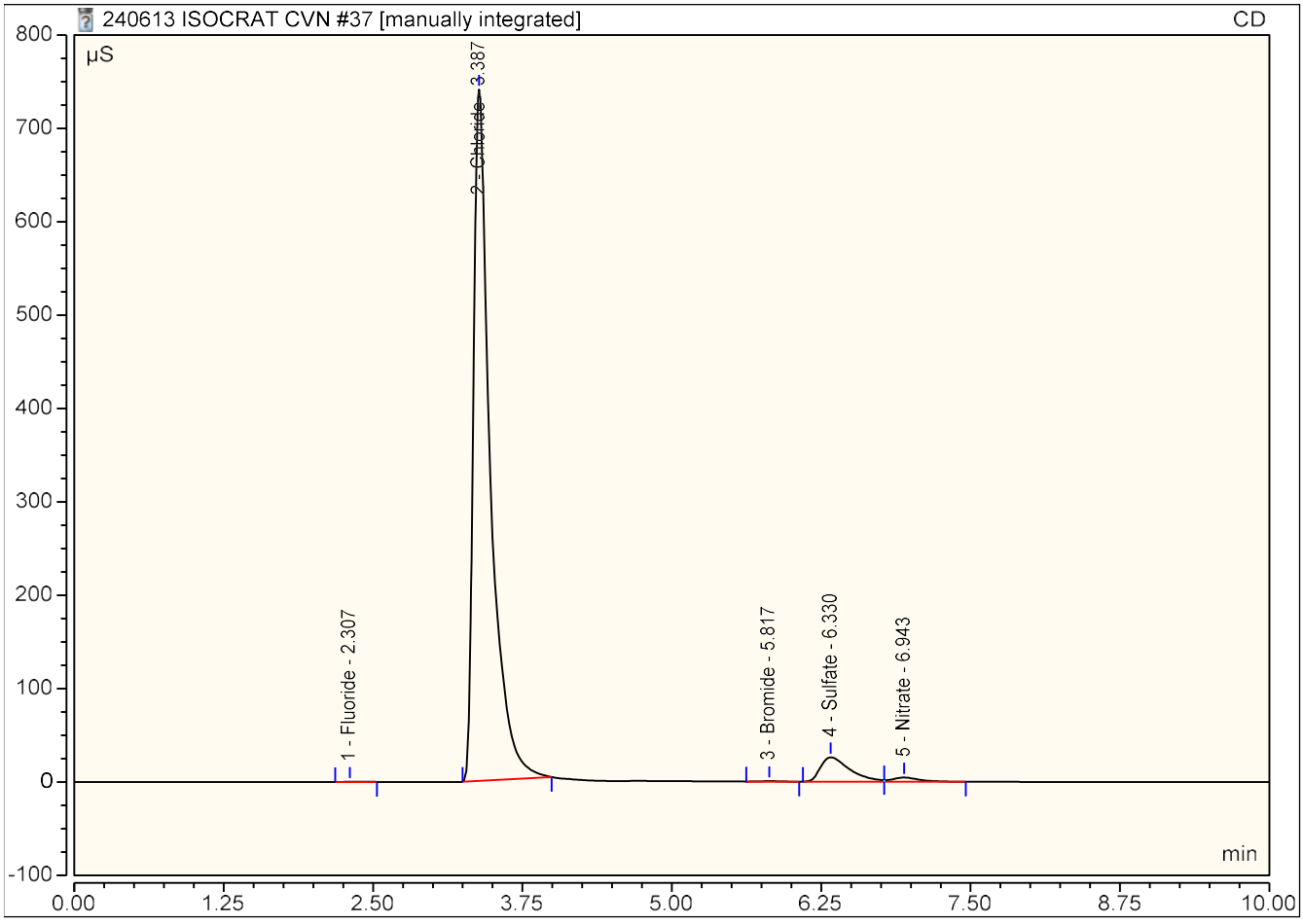
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.022	0.5655
3	3.43	**Chloride**	BMB*	1.655	11.560	40.9933
5	6.49	**Sulfate**	BMB	0.072	0.303	6.4783
TOTAL:				1.73	11.89	48.04



Peak Integration Report

Sample Name:	**L2432352-01 CL SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 16:28**	*Run Time:*	**10.00**

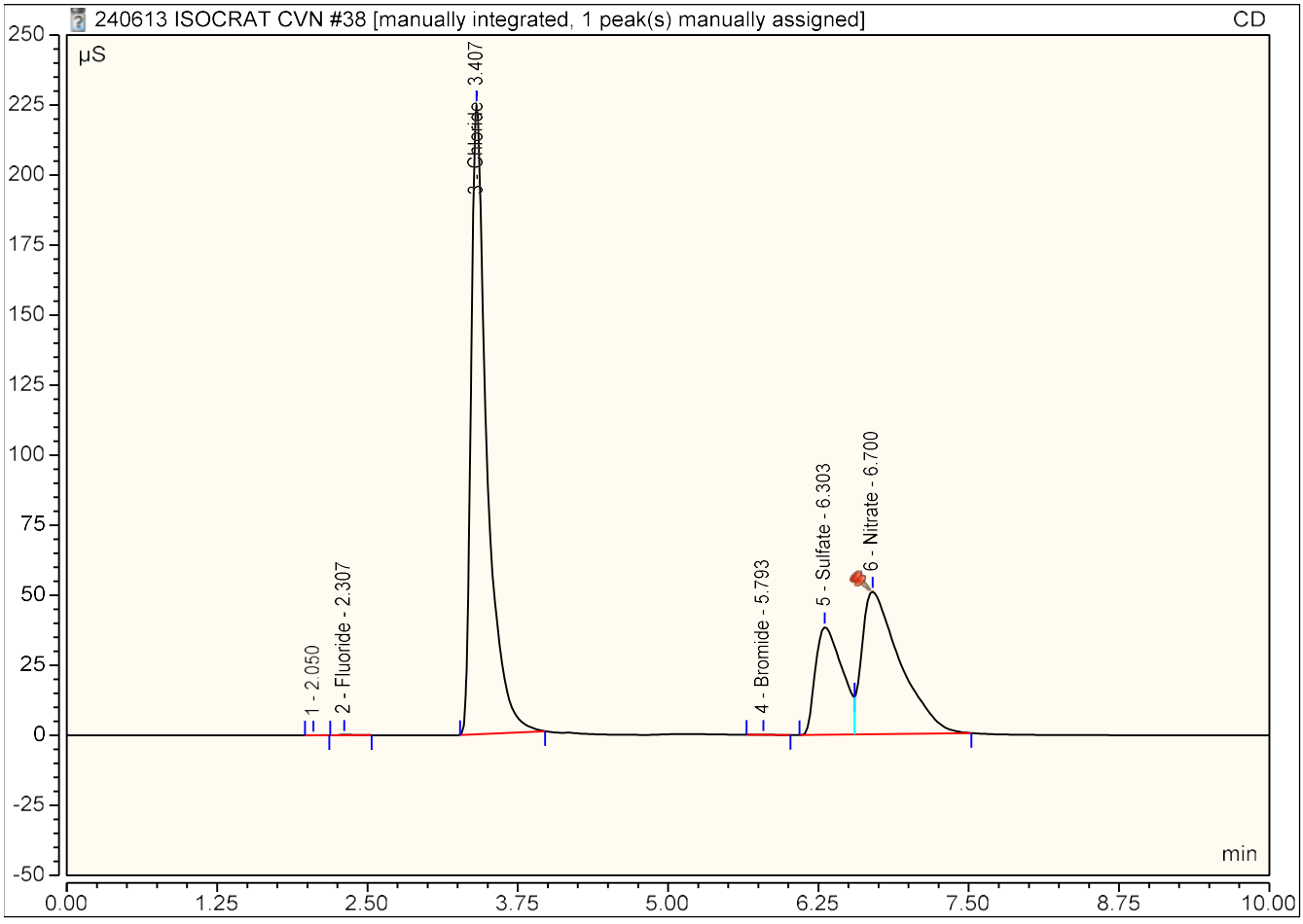
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.046	0.299	0.1286
2	3.39	**Chloride**	BMB*	121.101	740.322	283.0962
3	5.82	**Bromide**	BMB	0.090	0.509	0.7928
4	6.33	**Sulfate**	BM *	7.395	26.084	24.3126
5	6.94	**Nitrate**	MB*	1.160	4.519	1.0776
TOTAL:				129.79	771.73	309.41



Peak Integration Report

Sample Name:	**L2432352-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 16:40**	*Run Time:*	**10.00**

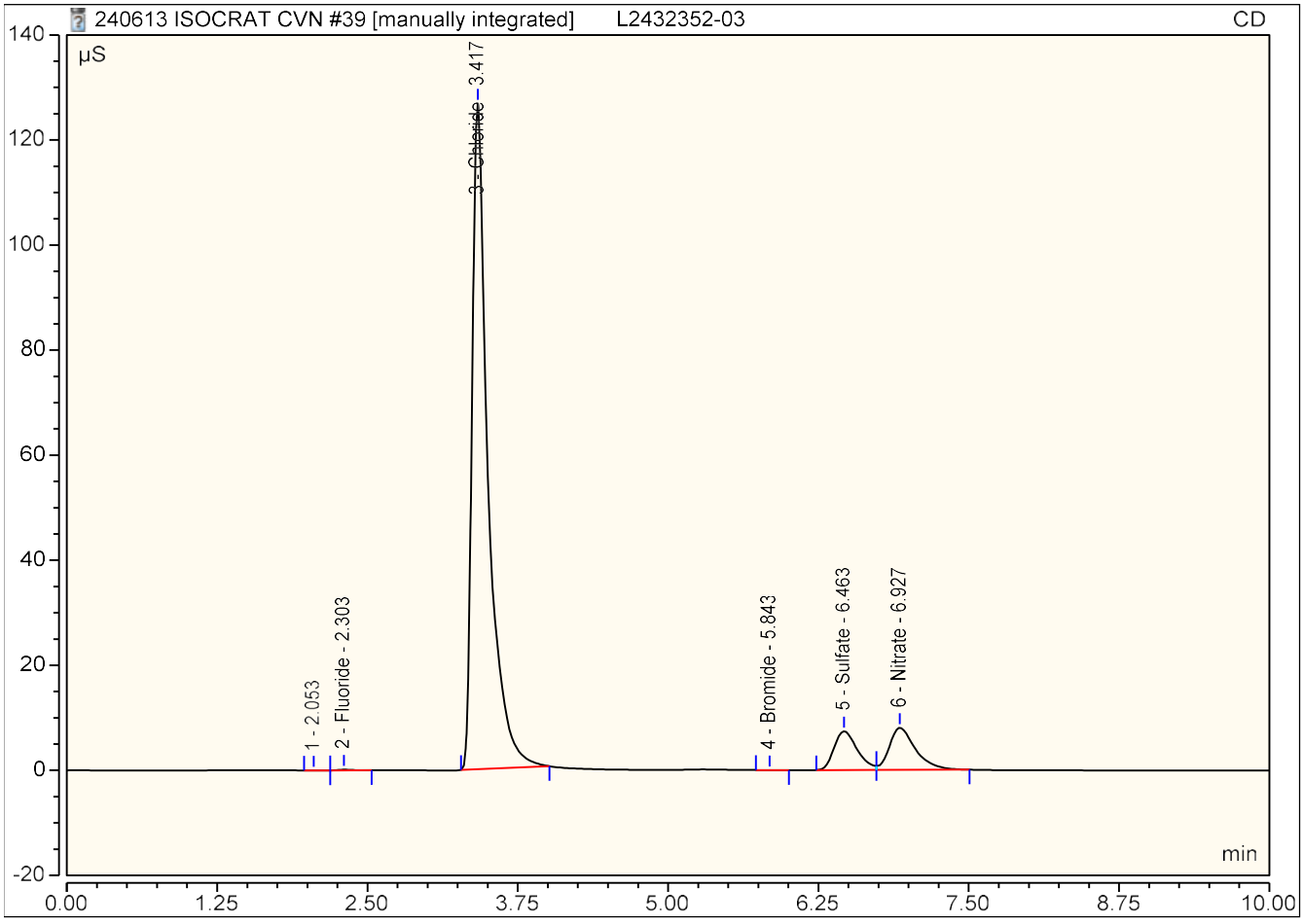
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.036	0.260	0.1118
3	3.41	**Chloride**	BMB*	34.568	224.576	80.9771
4	5.79	**Bromide**	BMB	0.010	0.061	0.1180
5	6.30	**Sulfate**	BM *	9.905	38.421	32.4236
6	6.70	**Nitrate**	MB*^	18.776	50.965	16.9777
TOTAL:				63.30	314.28	130.61



Peak Integration Report

Sample Name:	**L2432352-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 16:52**	*Run Time:*	**10.00**

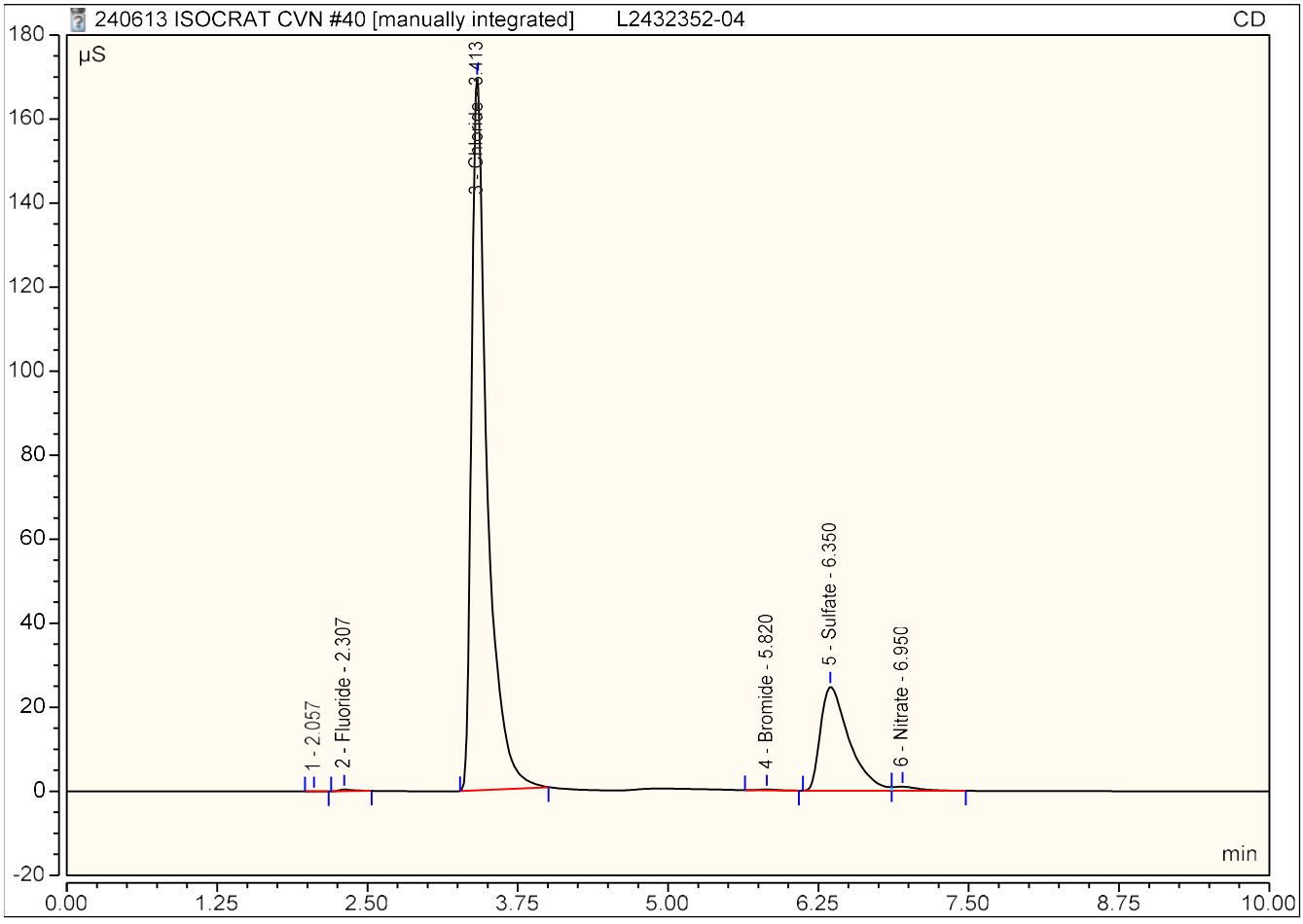
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.017	0.134	0.0788
3	3.42	**Chloride**	BMB*	19.484	126.761	45.7444
4	5.84	**Bromide**	BMB	0.000	0.003	0.0401
5	6.46	**Sulfate**	BM *	1.646	7.375	5.7355
6	6.93	**Nitrate**	MB*	2.017	8.015	1.8515
TOTAL:				23.16	142.29	53.45



Peak Integration Report

Sample Name:	**L2432352-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 17:04**	*Run Time:*	**10.00**

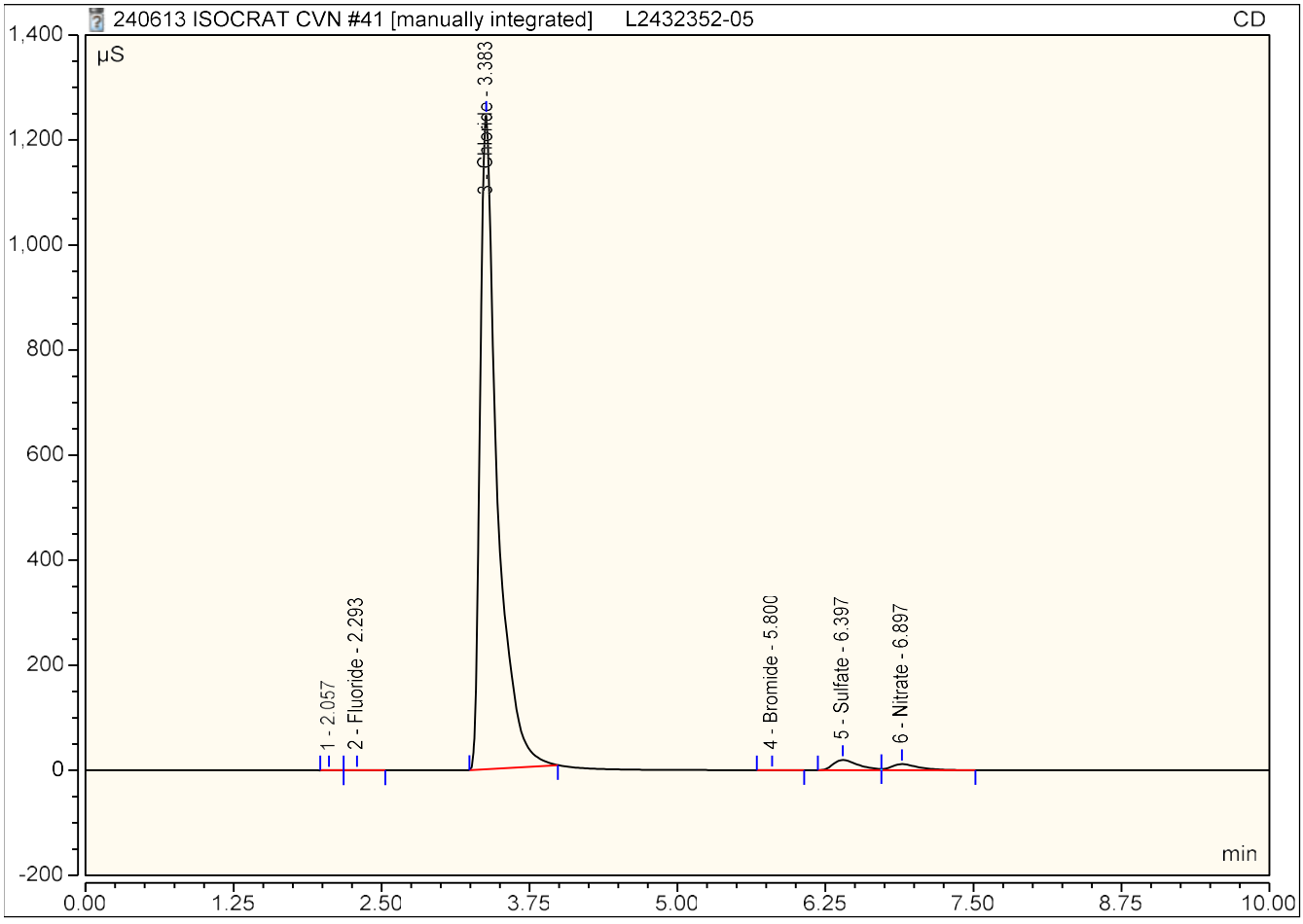
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.055	0.396	0.1427
3	3.41	**Chloride**	BMB*	25.701	169.422	60.2654
4	5.82	**Bromide**	BMB	0.035	0.197	0.3295
5	6.35	**Sulfate**	BM *	6.799	24.747	22.3883
6	6.95	**Nitrate**	MB*	0.235	0.956	0.2430
TOTAL:				32.83	195.72	83.37



Peak Integration Report

Sample Name:	**L2432352-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 17:16**	*Run Time:*	**10.00**

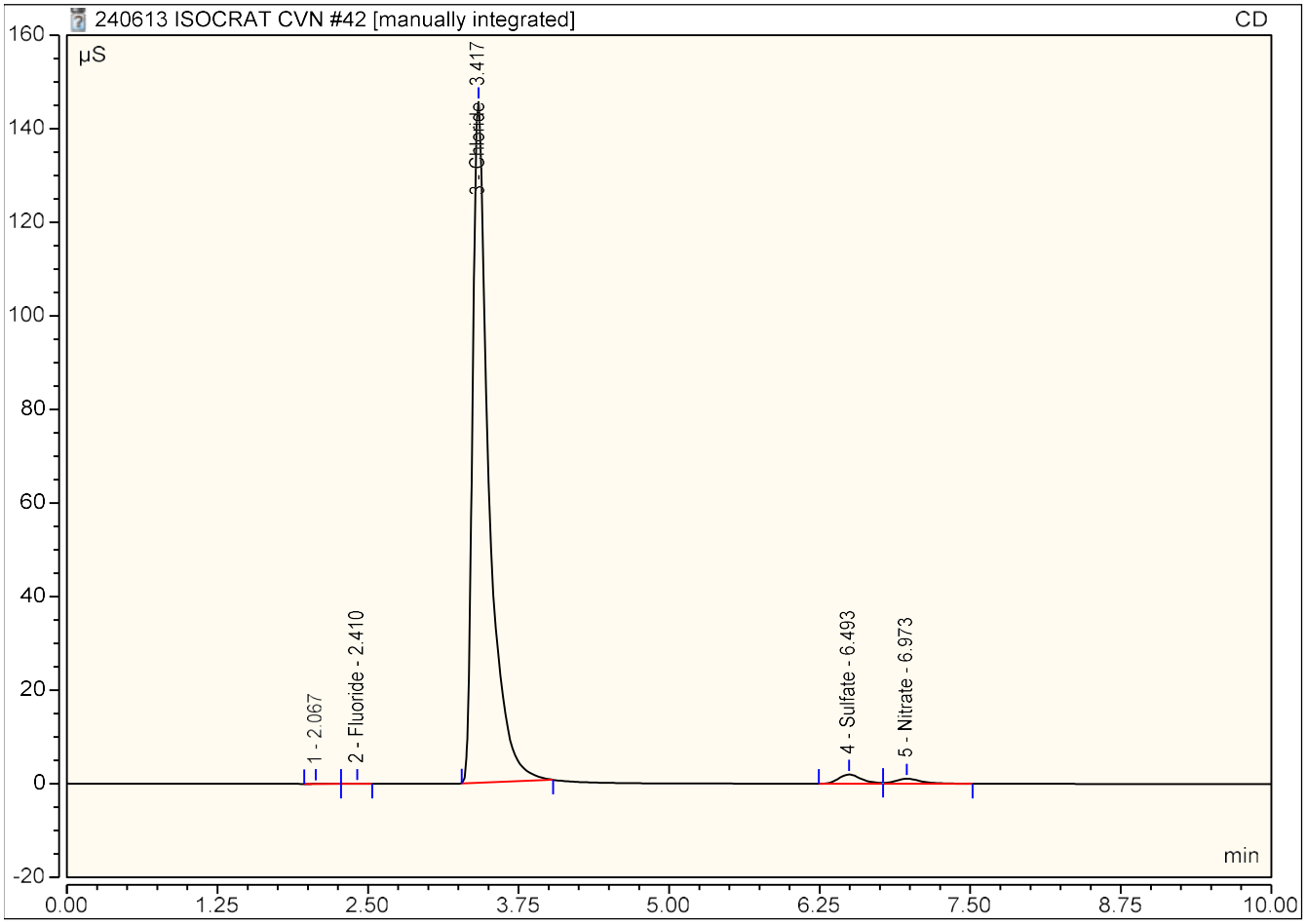
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.005	0.031	0.0590
3	3.38	**Chloride**	BMB*	207.982	1244.047	486.0303
4	5.80	**Bromide**	BMB	0.007	0.043	0.0985
5	6.40	**Sulfate**	BM *	4.849	19.536	16.0845
6	6.90	**Nitrate**	MB*	3.087	11.588	2.8170
TOTAL:				215.93	1275.25	505.09



Peak Integration Report

Sample Name:	**XL2432352-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 17:28**	*Run Time:*	**10.00**

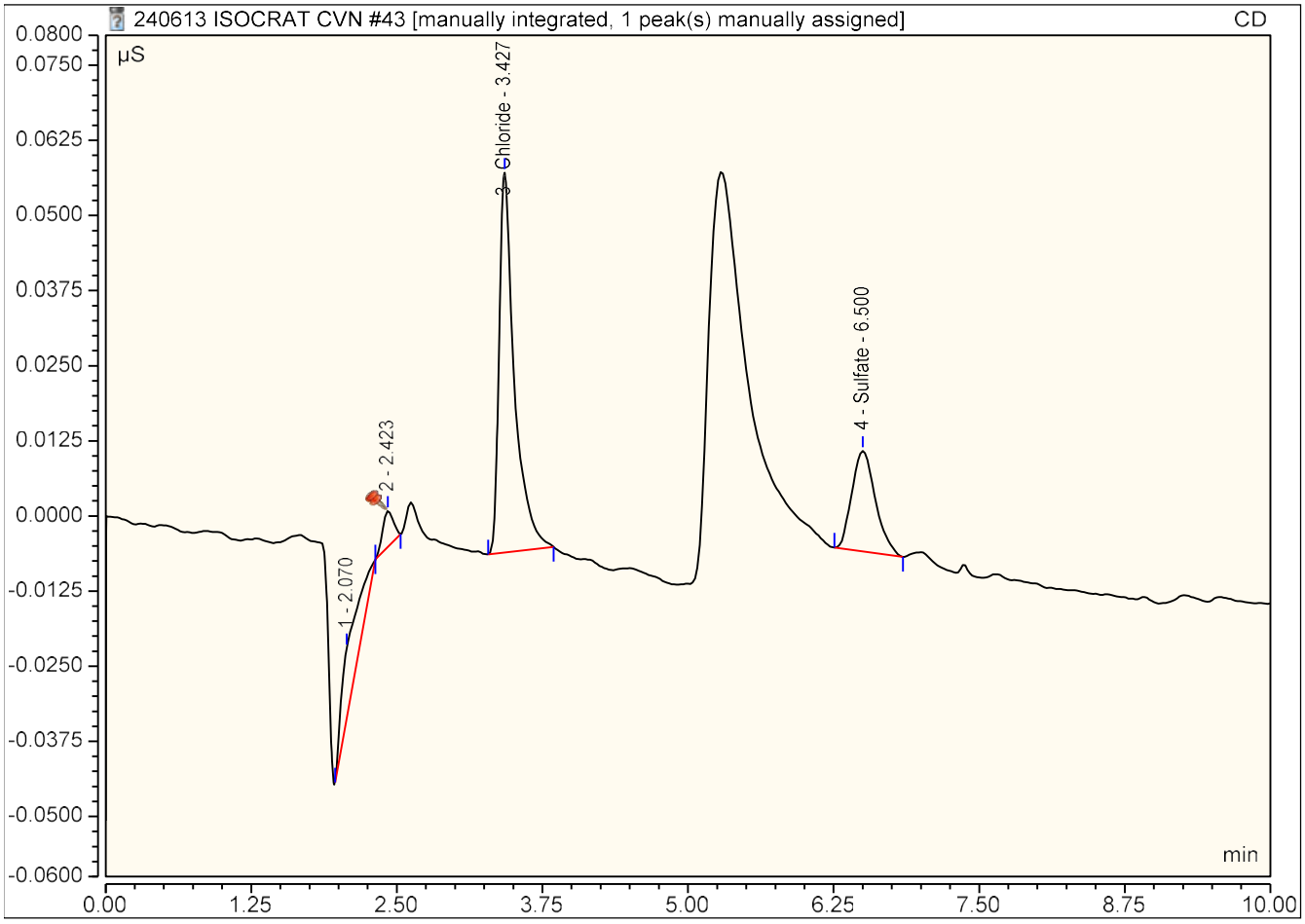
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.41	**Fluoride**	BMB	0.001	0.008	0.5250
3	3.42	**Chloride**	BMB*	22.790	145.484	534.6642
4	6.49	**Sulfate**	BM *	0.437	1.976	18.2873
5	6.97	**Nitrate**	MB*	0.268	1.093	2.7295
TOTAL:				23.50	148.56	556.21



Peak Integration Report

Sample Name:	**L2430662-12**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 17:40**	*Run Time:*	**10.00**

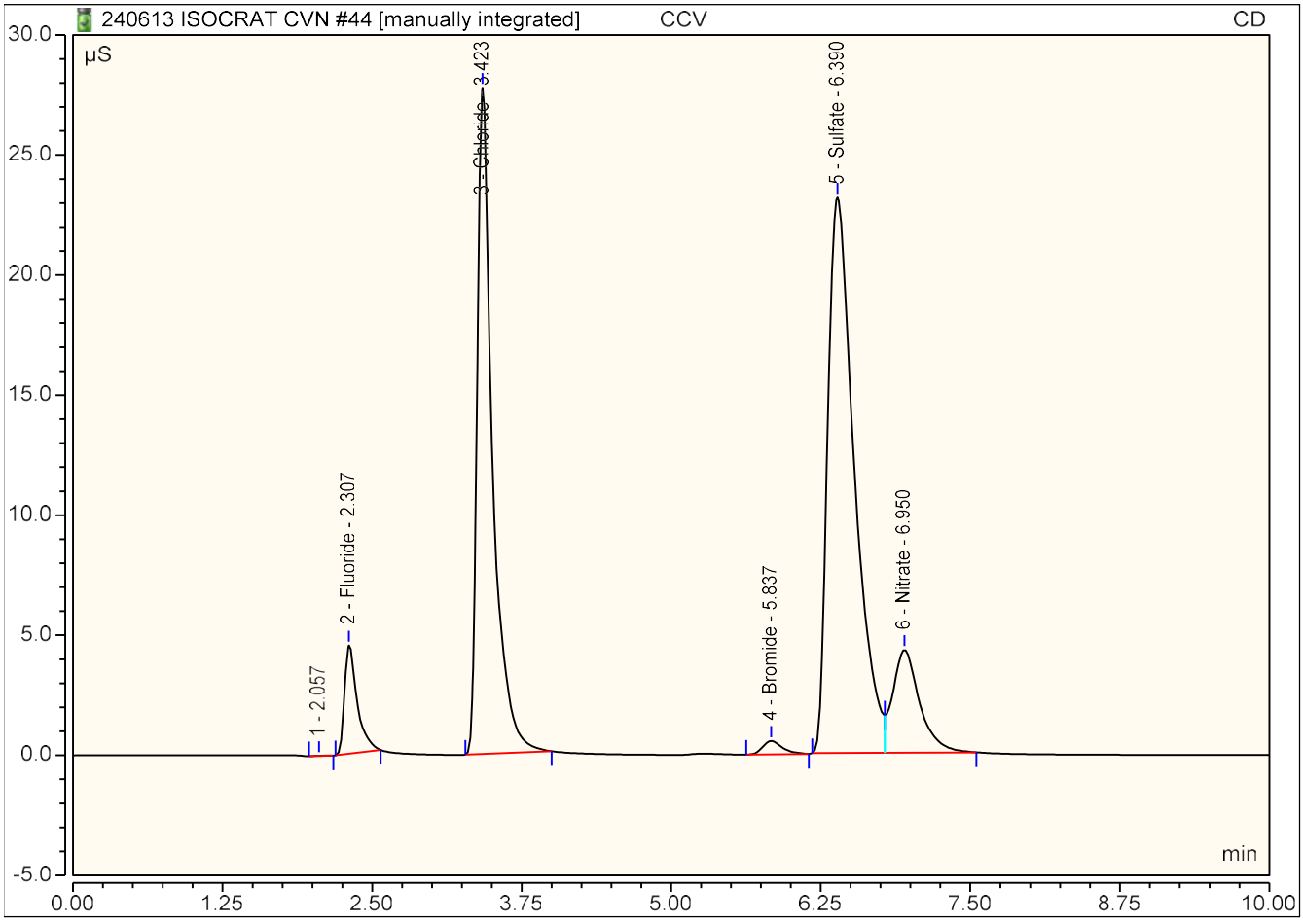
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB*	0.010	0.063	0.2558
4	6.50	**Sulfate**	BMB	0.004	0.017	0.4290
TOTAL:				0.01	0.08	0.68



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 17:53**	*Run Time:*	**10.00**

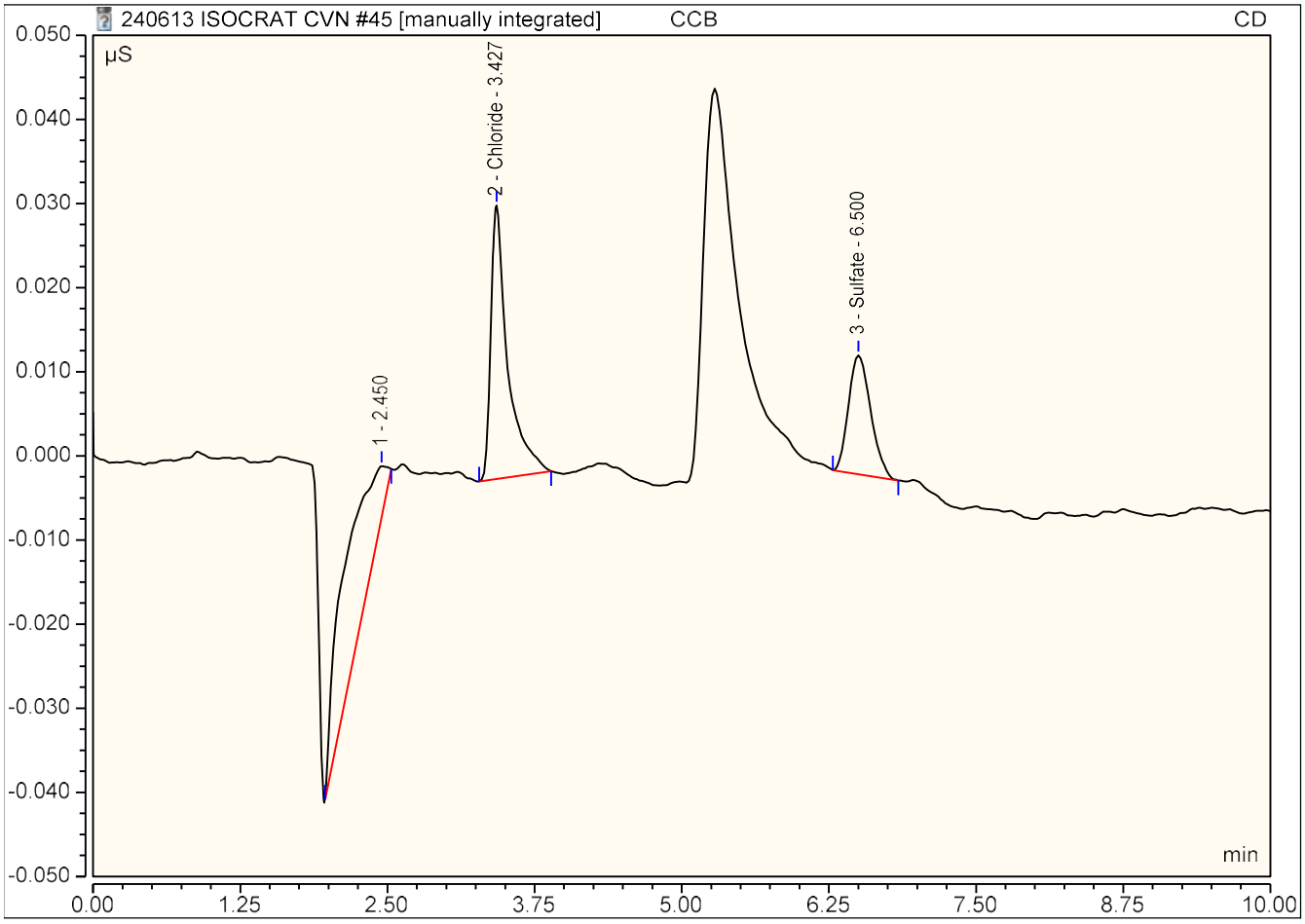
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.554	4.516	0.9772
3	3.42	**Chloride**	BMB*	4.117	27.745	9.8490
4	5.84	**Bromide**	BMB	0.105	0.565	0.9192
5	6.39	**Sulfate**	BM *	5.972	23.136	19.7154
6	6.95	**Nitrate**	MB*	1.118	4.284	1.0393
TOTAL:				11.87	60.25	32.50



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 18:05**	*Run Time:*	**10.00**

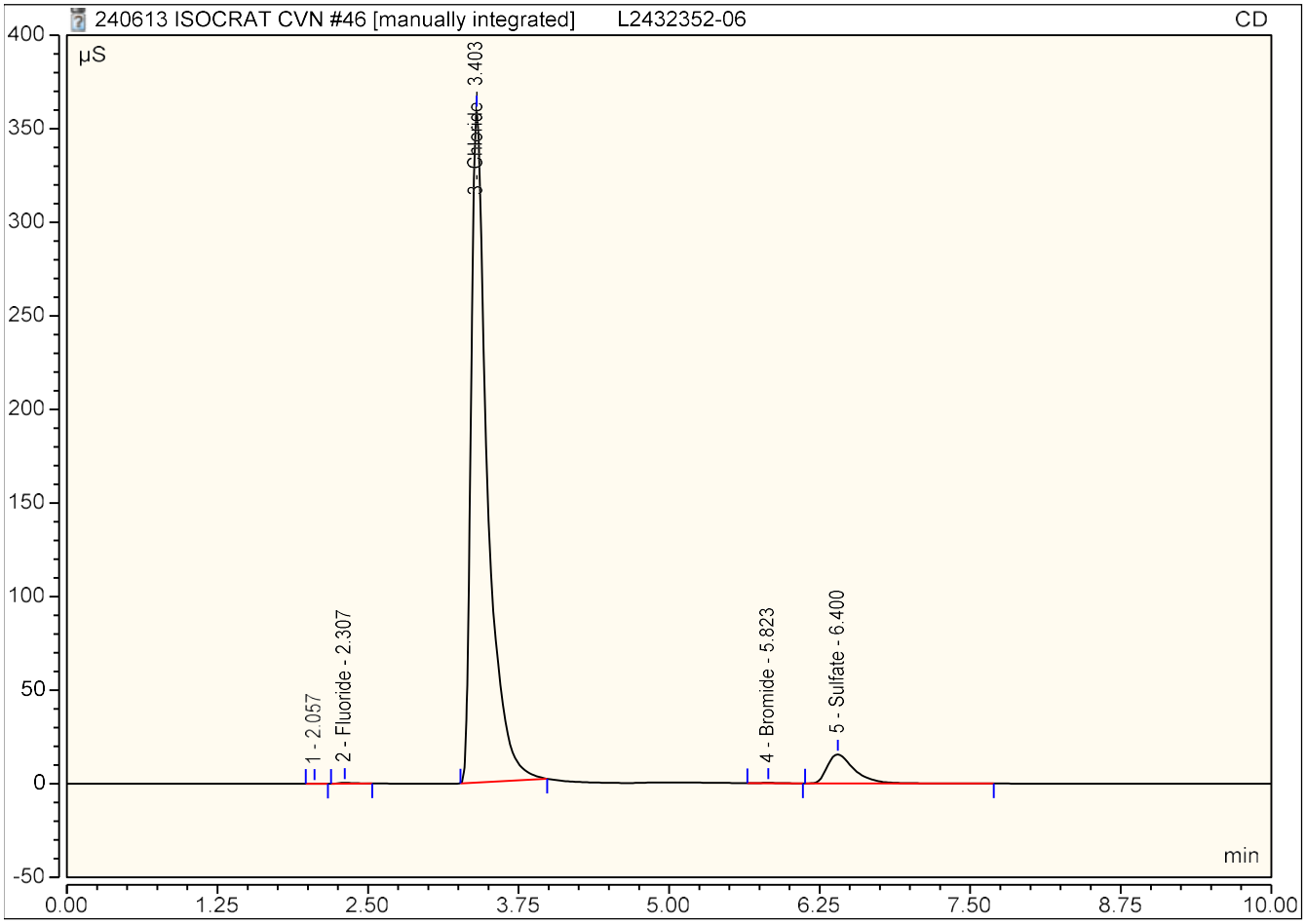
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.005	0.033	0.2459
3	6.50	**Sulfate**	BMB	0.003	0.014	0.4264
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**L2432352-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 18:17**	*Run Time:*	**10.00**

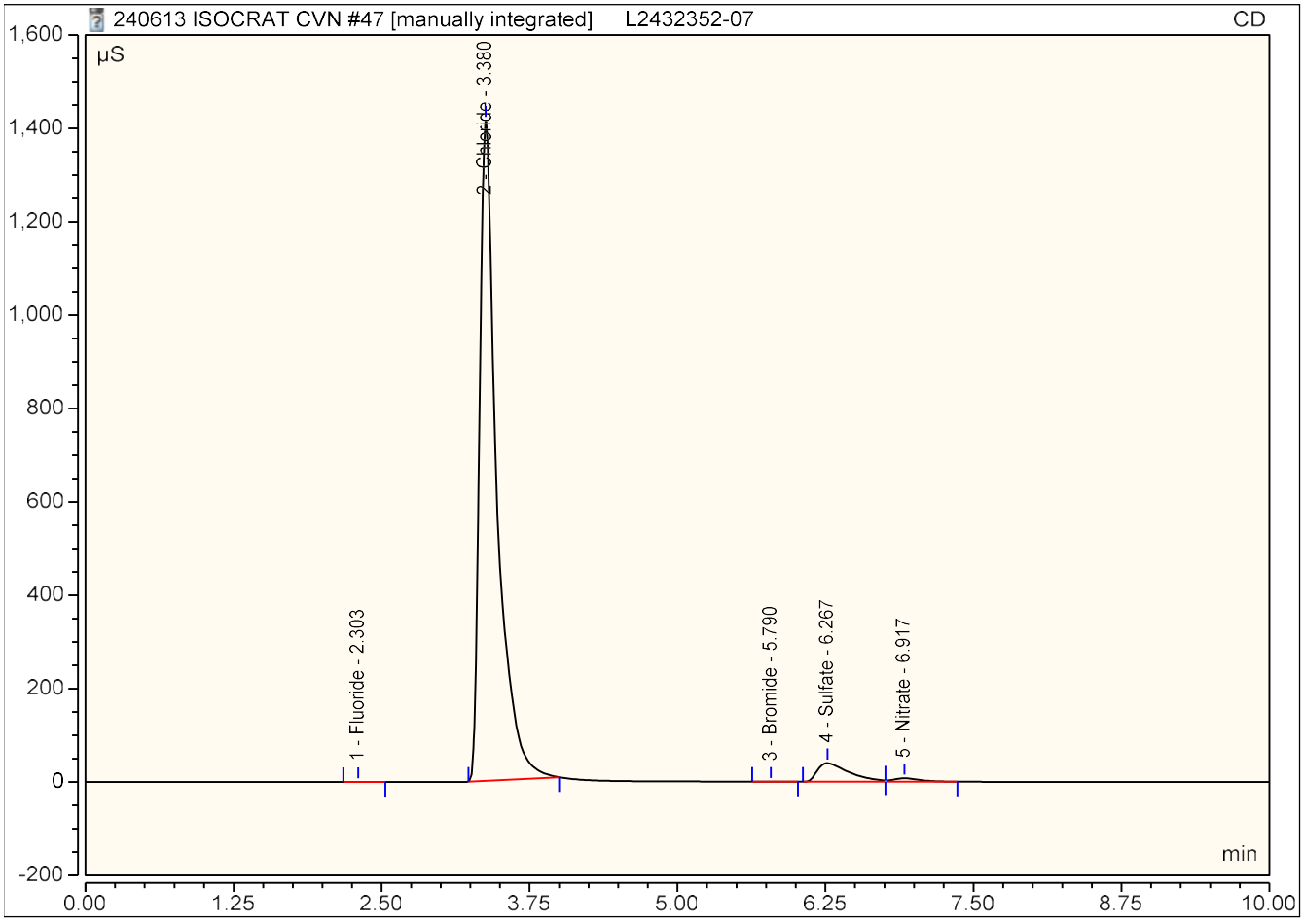
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.071	0.523	0.1696
3	3.40	**Chloride**	BMB*	56.998	359.136	133.3679
4	5.82	**Bromide**	BMB	0.032	0.181	0.3077
5	6.40	**Sulfate**	BMB	4.047	15.535	13.4960
TOTAL:				61.15	375.37	147.34



Peak Integration Report

Sample Name:	**L2432352-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 18:29**	*Run Time:*	**10.00**

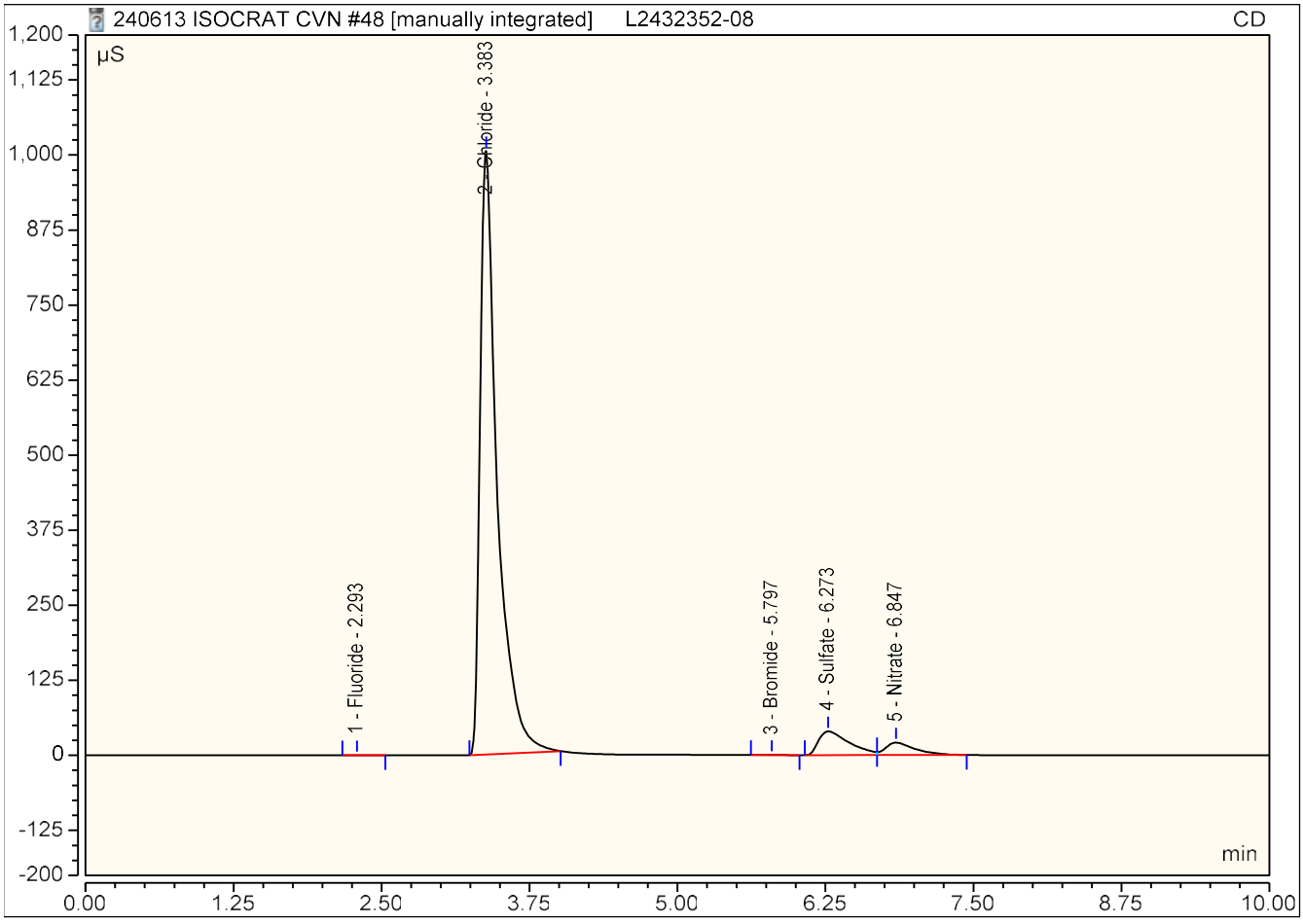
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.013	0.077	0.0720
2	3.38	**Chloride**	BMB*	238.734	1414.010	557.8600
3	5.79	**Bromide**	BMB	0.023	0.138	0.2322
4	6.27	**Sulfate**	BM *	12.373	39.987	40.4003
5	6.92	**Nitrate**	MB*	1.933	7.385	1.7750
TOTAL:				253.08	1461.60	600.34



Peak Integration Report

Sample Name:	**L2432352-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 18:41**	*Run Time:*	**10.00**

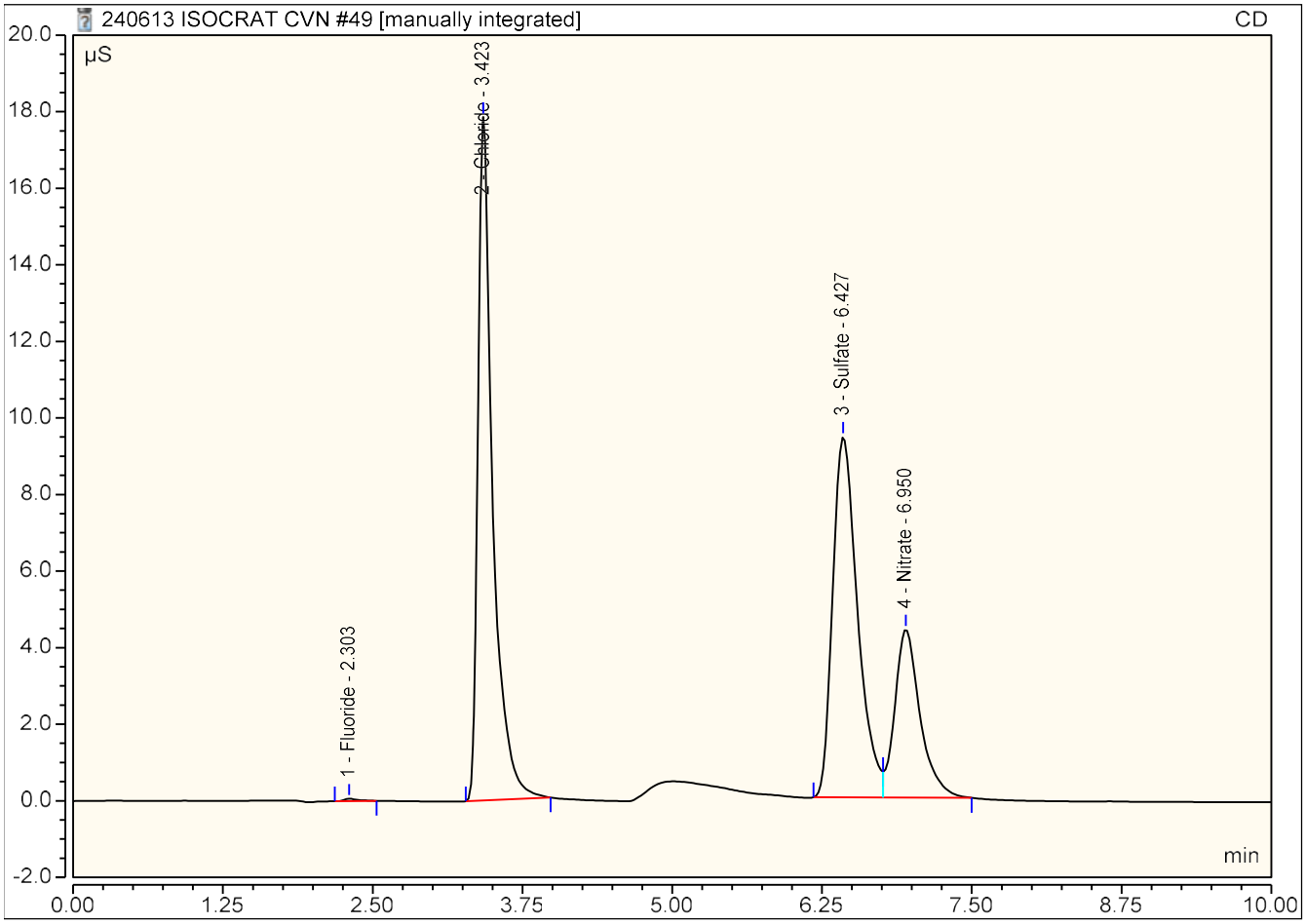
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.29	**Fluoride**	BMB	0.020	0.150	0.0850
2	3.38	**Chloride**	BMB*	168.651	1004.994	394.1621
3	5.80	**Bromide**	BMB	0.029	0.171	0.2798
4	6.27	**Sulfate**	BM *	11.849	39.502	38.7062
5	6.85	**Nitrate**	MB*	5.996	20.778	5.4426
TOTAL:				186.55	1065.59	438.68



Peak Integration Report

Sample Name:	**L2432633-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 18:53**	*Run Time:*	**10.00**

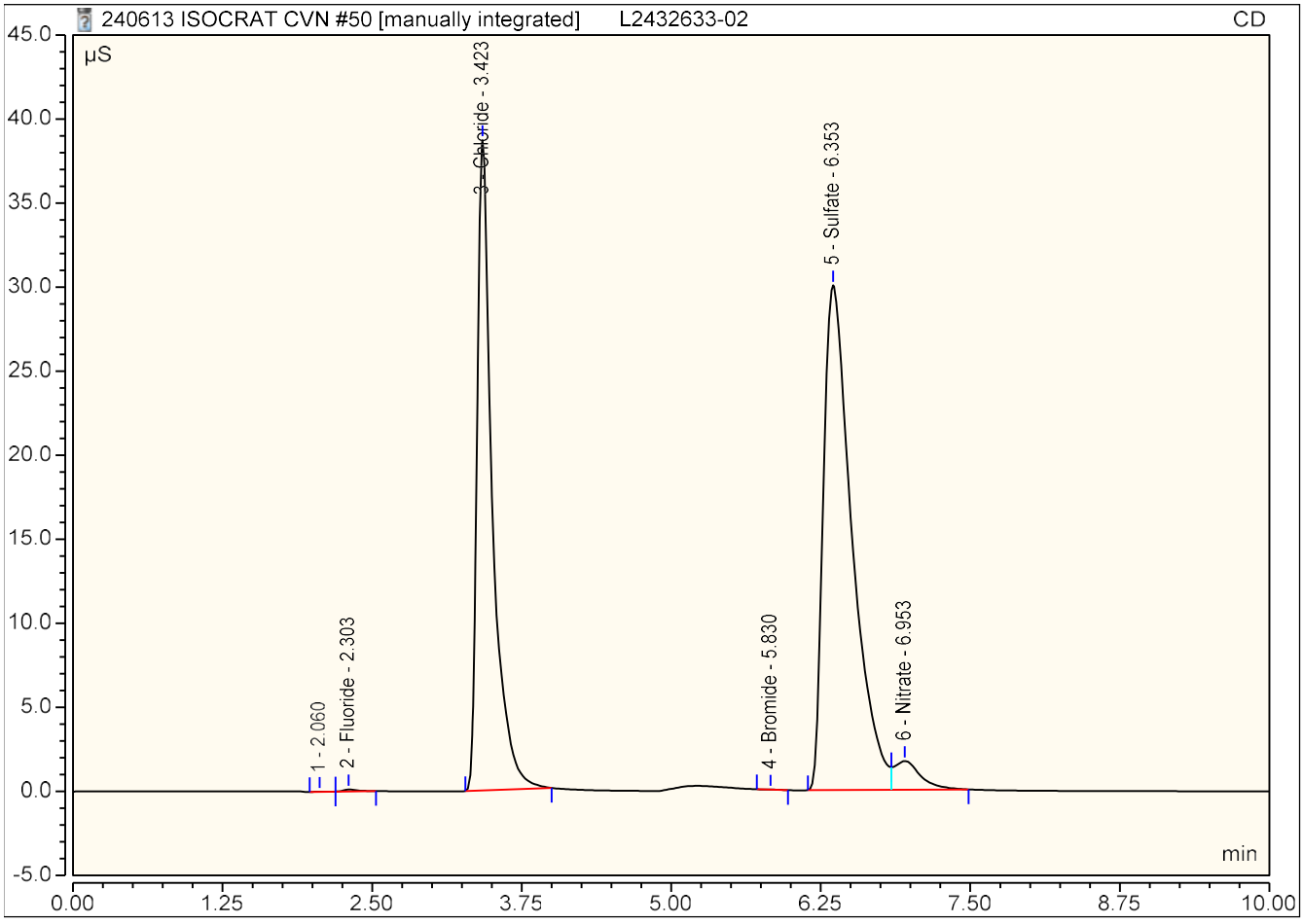
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.008	0.062	0.0647
2	3.42	**Chloride**	BMB*	2.552	17.854	6.1943
3	6.43	**Sulfate**	BM *	2.267	9.421	7.7431
4	6.95	**Nitrate**	MB*	1.076	4.393	1.0014
TOTAL:				5.90	31.73	15.00



Peak Integration Report

Sample Name:	**L2432633-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 19:05**	*Run Time:*	**10.00**

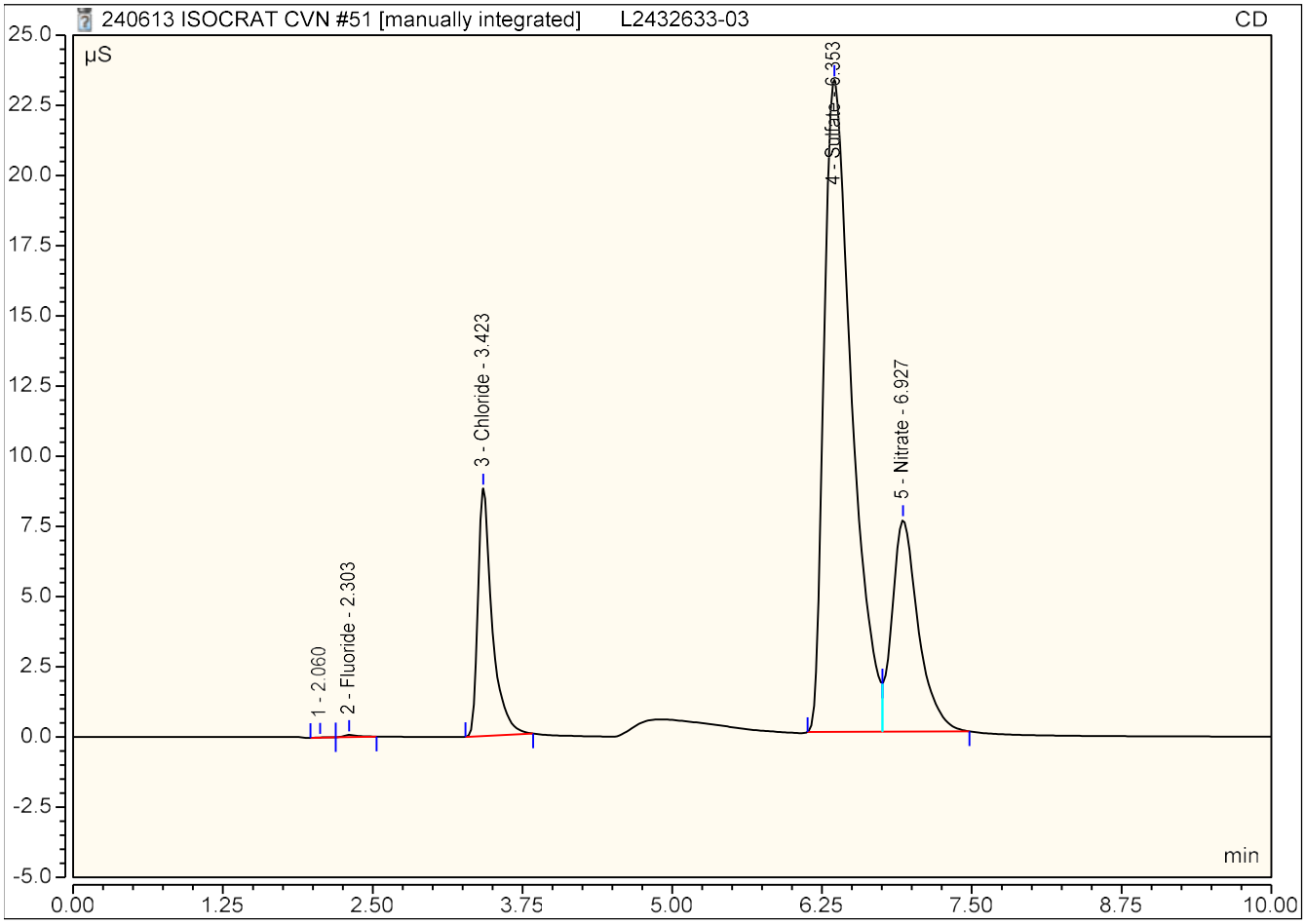
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.015	0.122	0.0766
3	3.42	**Chloride**	BMB*	5.707	38.701	13.5646
4	5.83	**Bromide**	BMB	0.001	0.008	0.0453
5	6.35	**Sulfate**	BM *	8.332	30.018	27.3420
6	6.95	**Nitrate**	MB*	0.438	1.704	0.4257
TOTAL:				14.49	70.55	41.45



Peak Integration Report

Sample Name:	**L2432633-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 19:17**	*Run Time:*	**10.00**

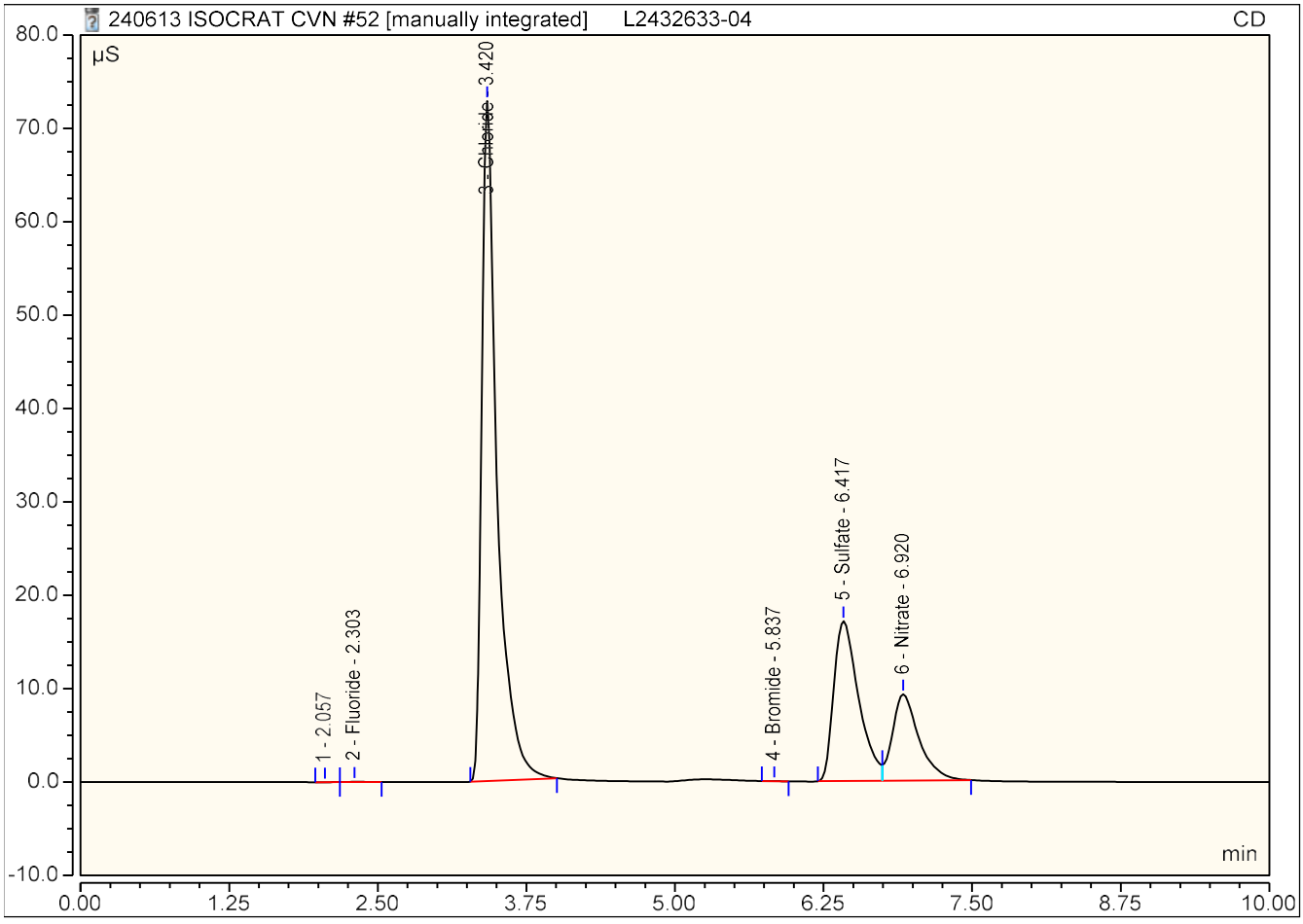
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.010	0.075	0.0677
3	3.42	**Chloride**	BMB*	1.214	8.821	3.0693
4	6.35	**Sulfate**	BM *	6.251	23.223	20.6178
5	6.93	**Nitrate**	MB*	1.928	7.544	1.7710
TOTAL:				9.40	39.66	25.53



Peak Integration Report

Sample Name:	**L2432633-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 19:29**	*Run Time:*	**10.00**

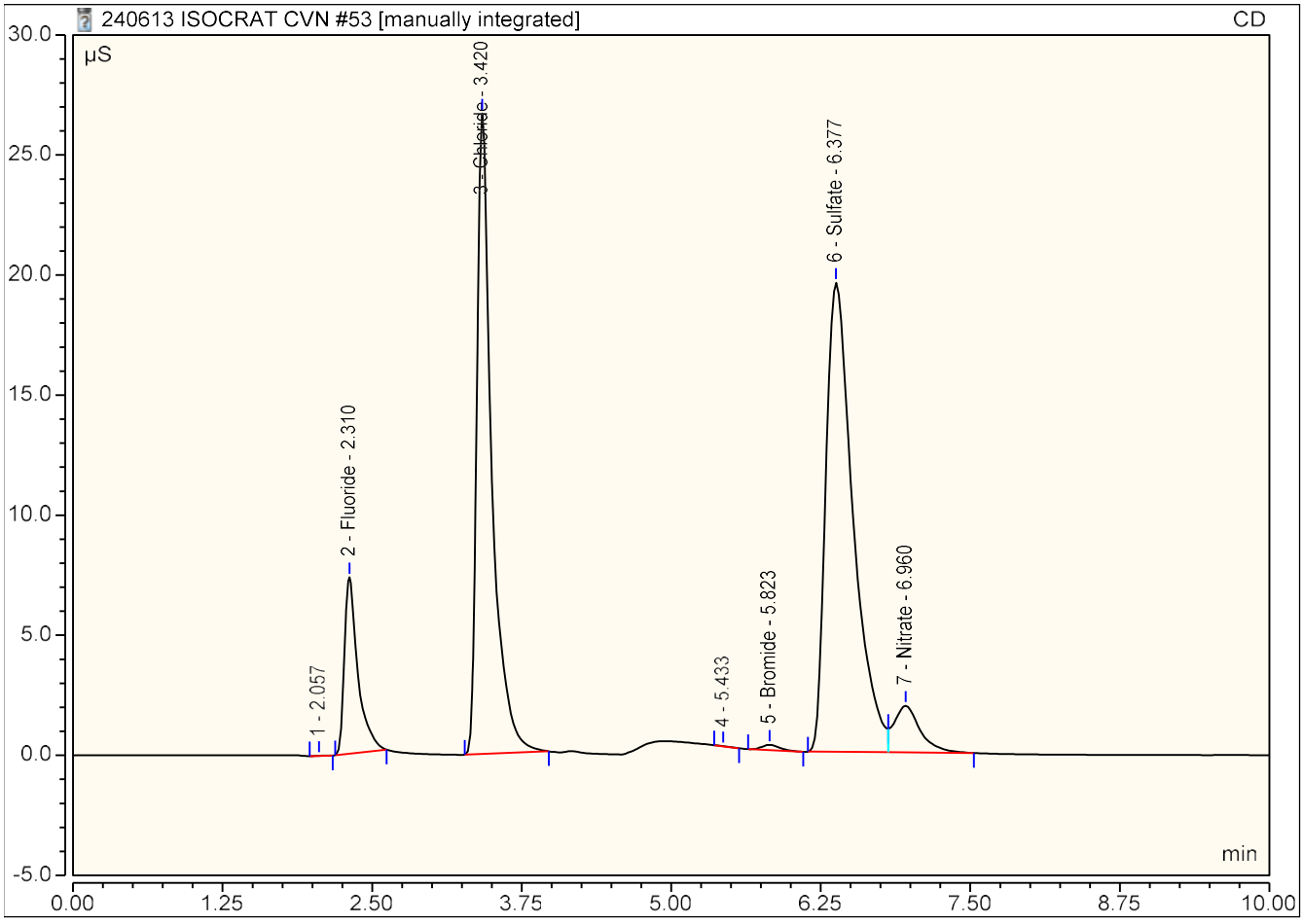
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.046	0.0612
3	3.42	**Chloride**	BMB*	11.014	72.826	25.9593
4	5.84	**Bromide**	BMB	0.000	0.004	0.0403
5	6.42	**Sulfate**	BM *	4.155	17.109	13.8441
6	6.92	**Nitrate**	MB*	2.381	9.244	2.1795
TOTAL:				17.56	99.23	42.08



Peak Integration Report

Sample Name:	**L2430662-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 19:41**	*Run Time:*	**10.00**

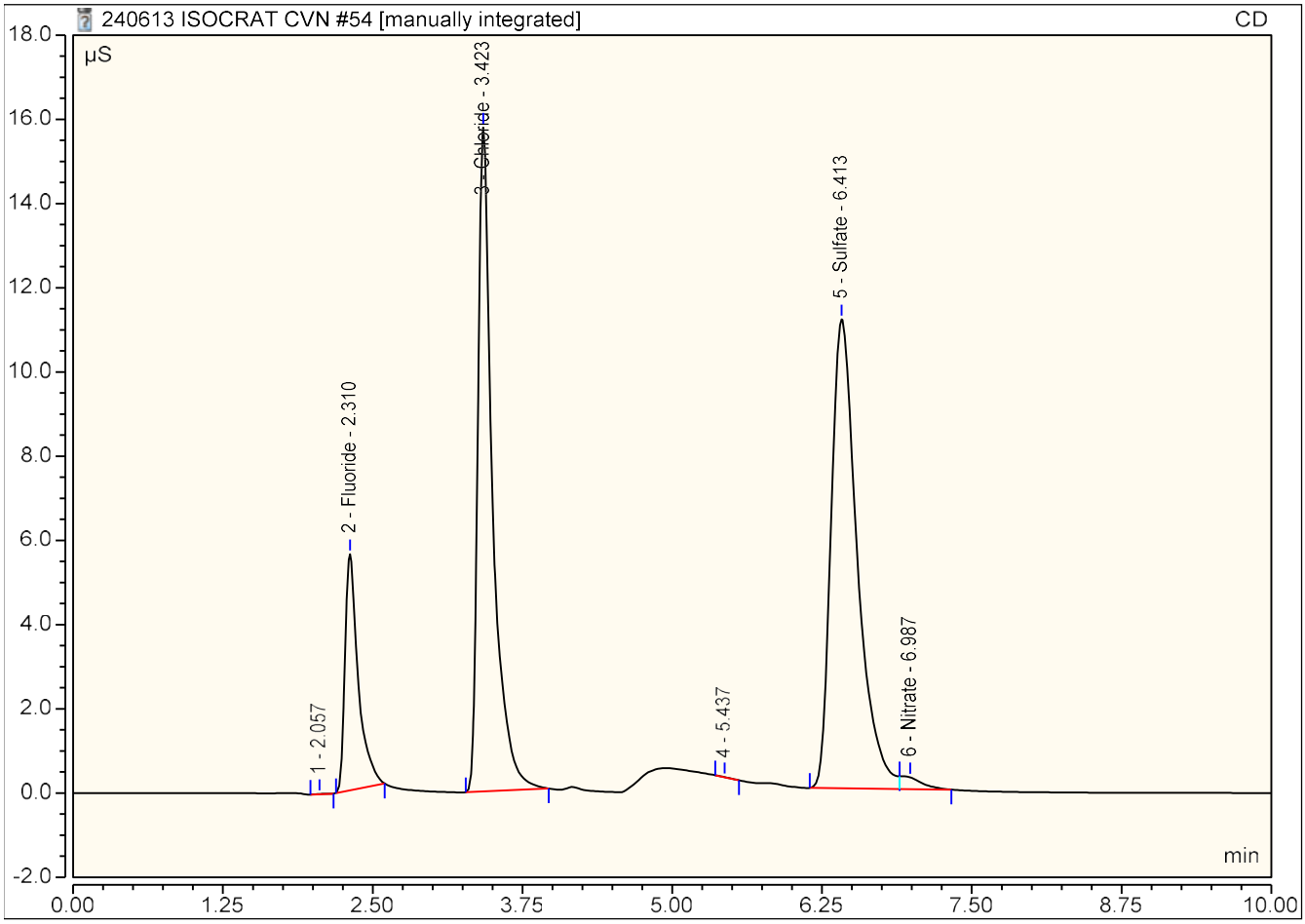
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.952	7.345	1.6427
3	3.42	**Chloride**	BMB*	3.865	26.671	9.2601
5	5.82	**Bromide**	BMB	0.040	0.225	0.3710
6	6.38	**Sulfate**	BM *	5.168	19.537	17.1157
7	6.96	**Nitrate**	MB*	0.494	1.943	0.4768
TOTAL:				10.52	55.72	28.87



Peak Integration Report

Sample Name:	**L2430662-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 19:53**	*Run Time:*	**10.00**

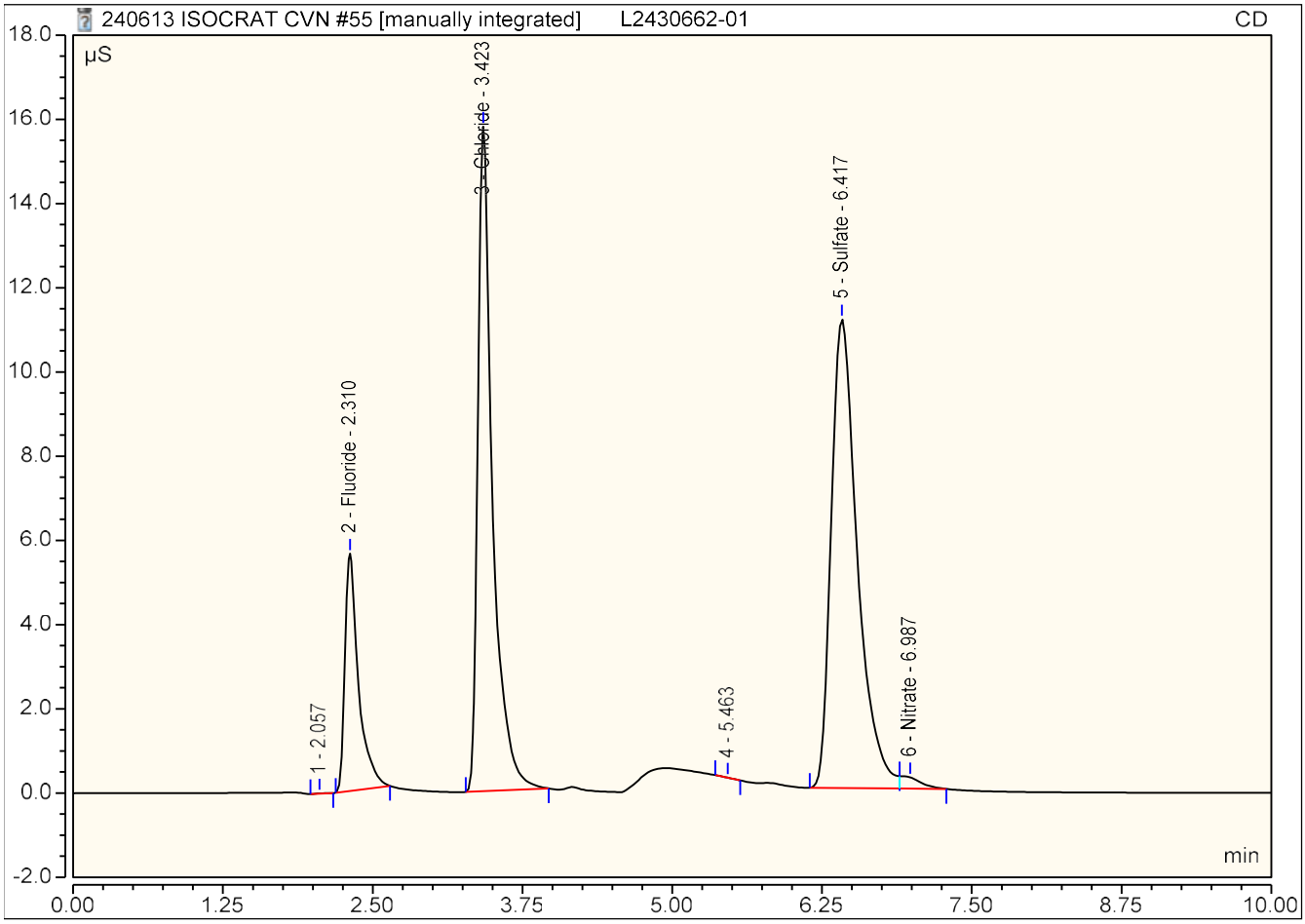
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.713	5.608	1.2444
3	3.42	**Chloride**	BMB*	2.254	15.765	5.4992
5	6.41	**Sulfate**	BM *	2.821	11.138	9.5330
6	6.99	**Nitrate**	MB*	0.060	0.279	0.0852
TOTAL:				5.85	32.79	16.36



Peak Integration Report

Sample Name:	**L2430662-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 20:05**	*Run Time:*	**10.00**

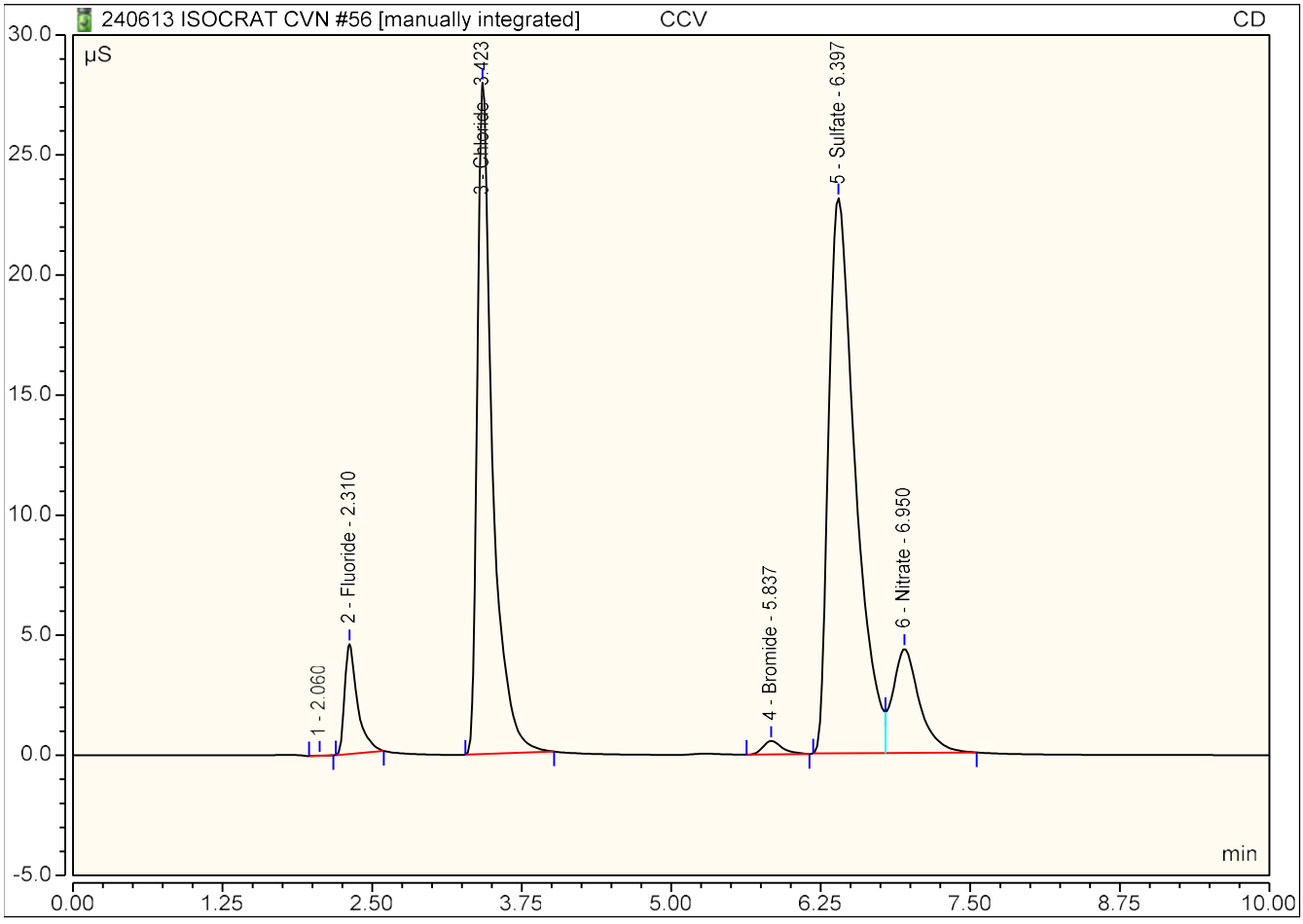
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.731	5.634	1.2744
3	3.42	**Chloride**	BMB*	2.251	15.785	5.4923
5	6.42	**Sulfate**	BM *	2.815	11.131	9.5144
6	6.99	**Nitrate**	MB*	0.056	0.268	0.0812
TOTAL:				5.85	32.82	16.36



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 20:18**	*Run Time:*	**10.00**

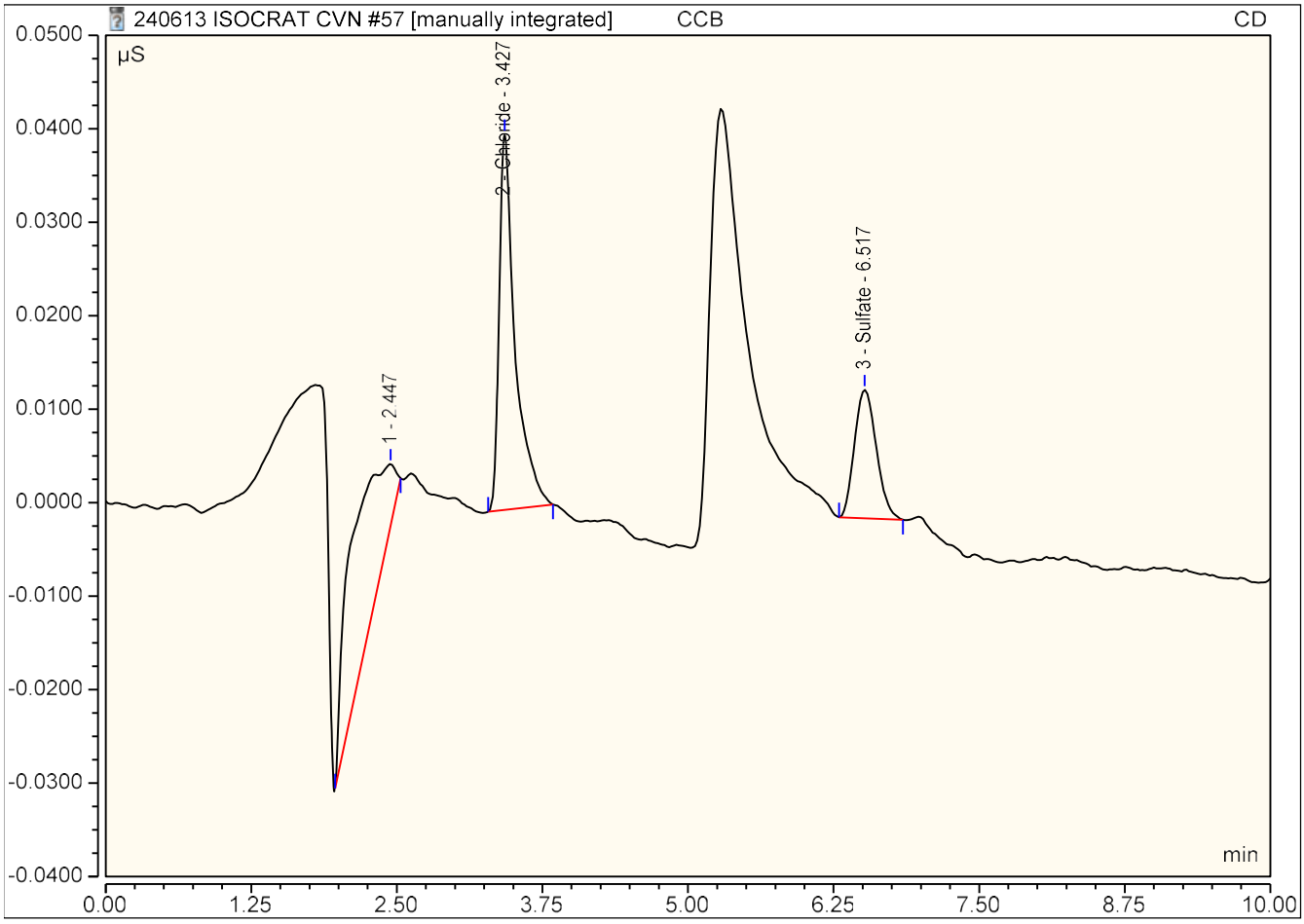
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.565	4.572	0.9961
3	3.42	**Chloride**	BMB*	4.128	27.957	9.8760
4	5.84	**Bromide**	BMB	0.105	0.563	0.9131
5	6.40	**Sulfate**	BM *	5.965	23.118	19.6922
6	6.95	**Nitrate**	MB*	1.128	4.334	1.0491
TOTAL:				11.89	60.54	32.53



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 20:30**	*Run Time:*	**10.00**

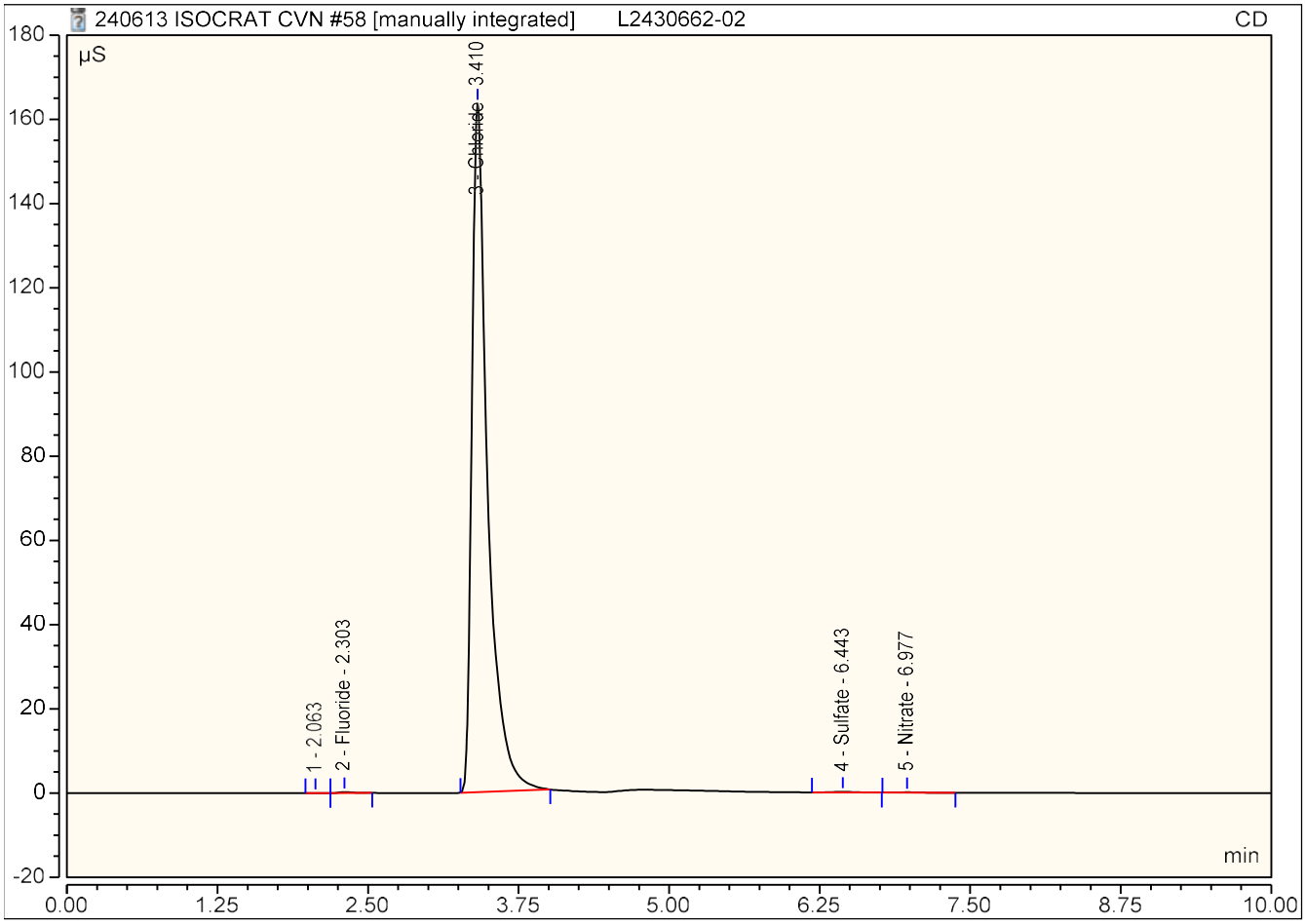
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.006	0.040	0.2483
3	6.52	**Sulfate**	BMB	0.003	0.014	0.4260
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**L2430662-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 20:42**	*Run Time:*	**10.00**

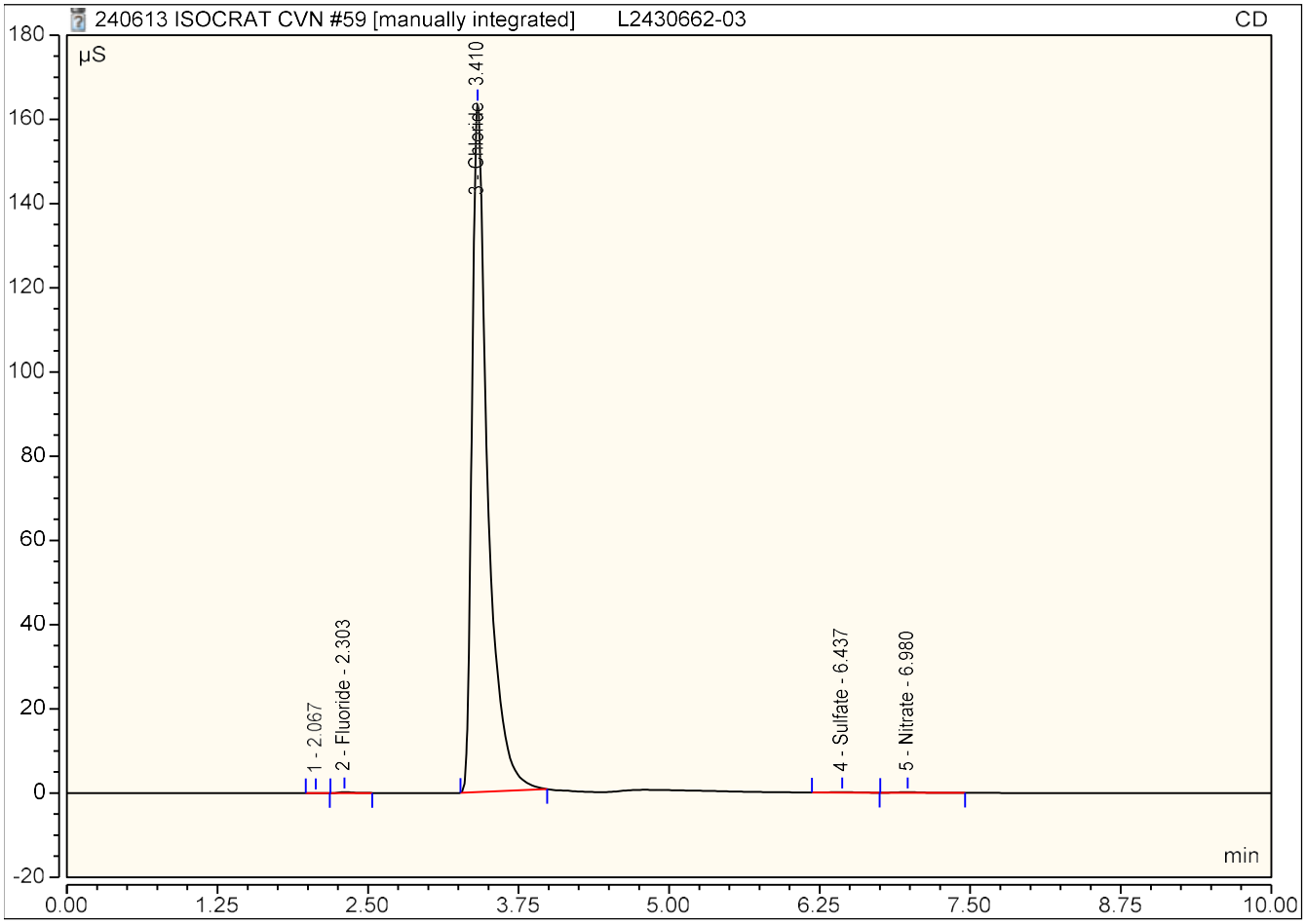
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.031	0.233	0.1022
3	3.41	**Chloride**	BMB*	24.893	163.546	58.3778
4	6.44	**Sulfate**	BMB	0.038	0.162	0.5380
5	6.98	**Nitrate**	BMB	0.021	0.098	0.0497
TOTAL:				24.98	164.04	59.07



Peak Integration Report

Sample Name:	**L2430662-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 20:54**	*Run Time:*	**10.00**

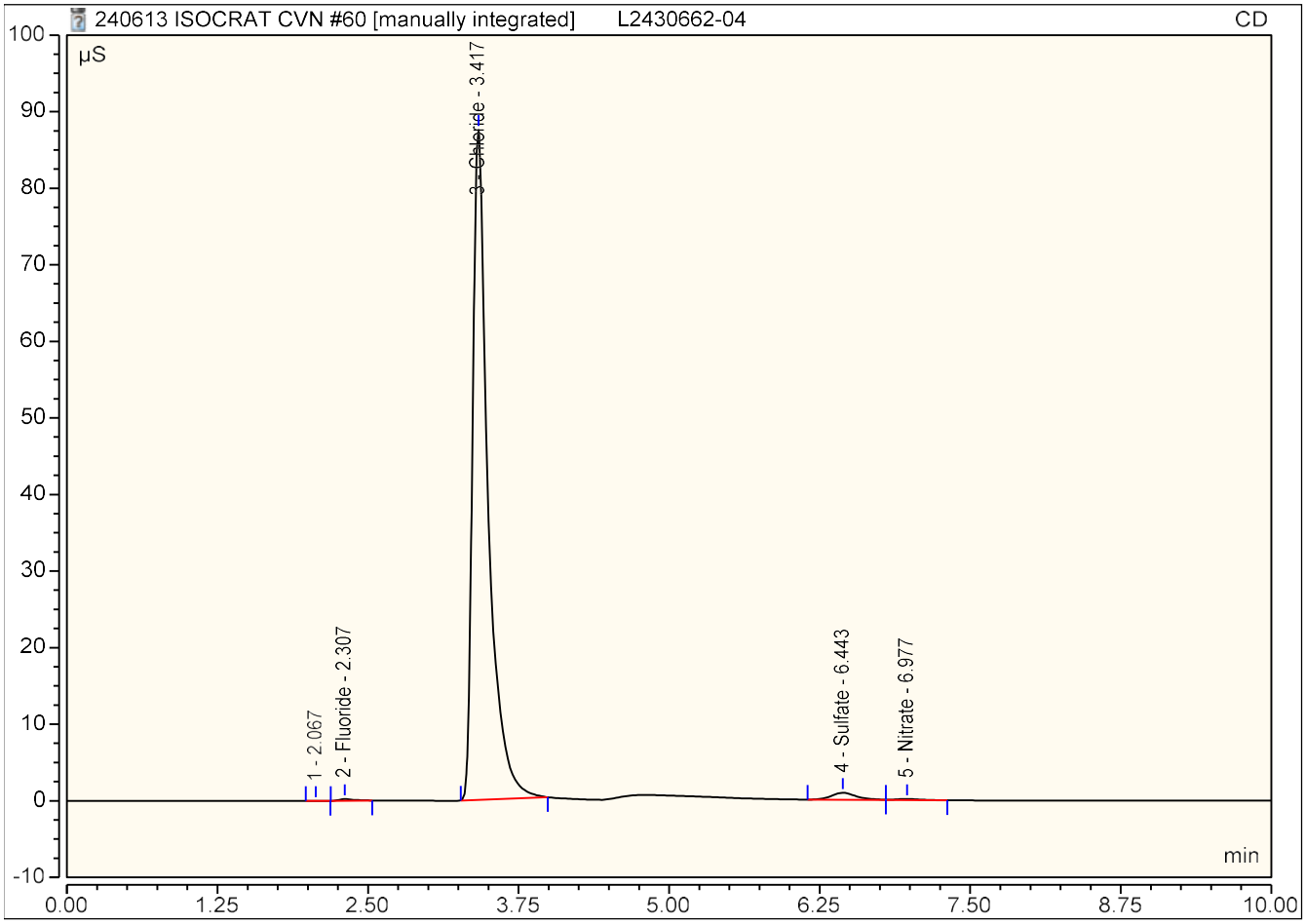
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.031	0.235	0.1026
3	3.41	**Chloride**	BMB*	24.856	163.329	58.2910
4	6.44	**Sulfate**	BMB	0.026	0.112	0.4994
5	6.98	**Nitrate**	BMB	0.032	0.141	0.0592
TOTAL:				24.94	163.82	58.95



Peak Integration Report

Sample Name:	**L2430662-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 21:06**	*Run Time:*	**10.00**

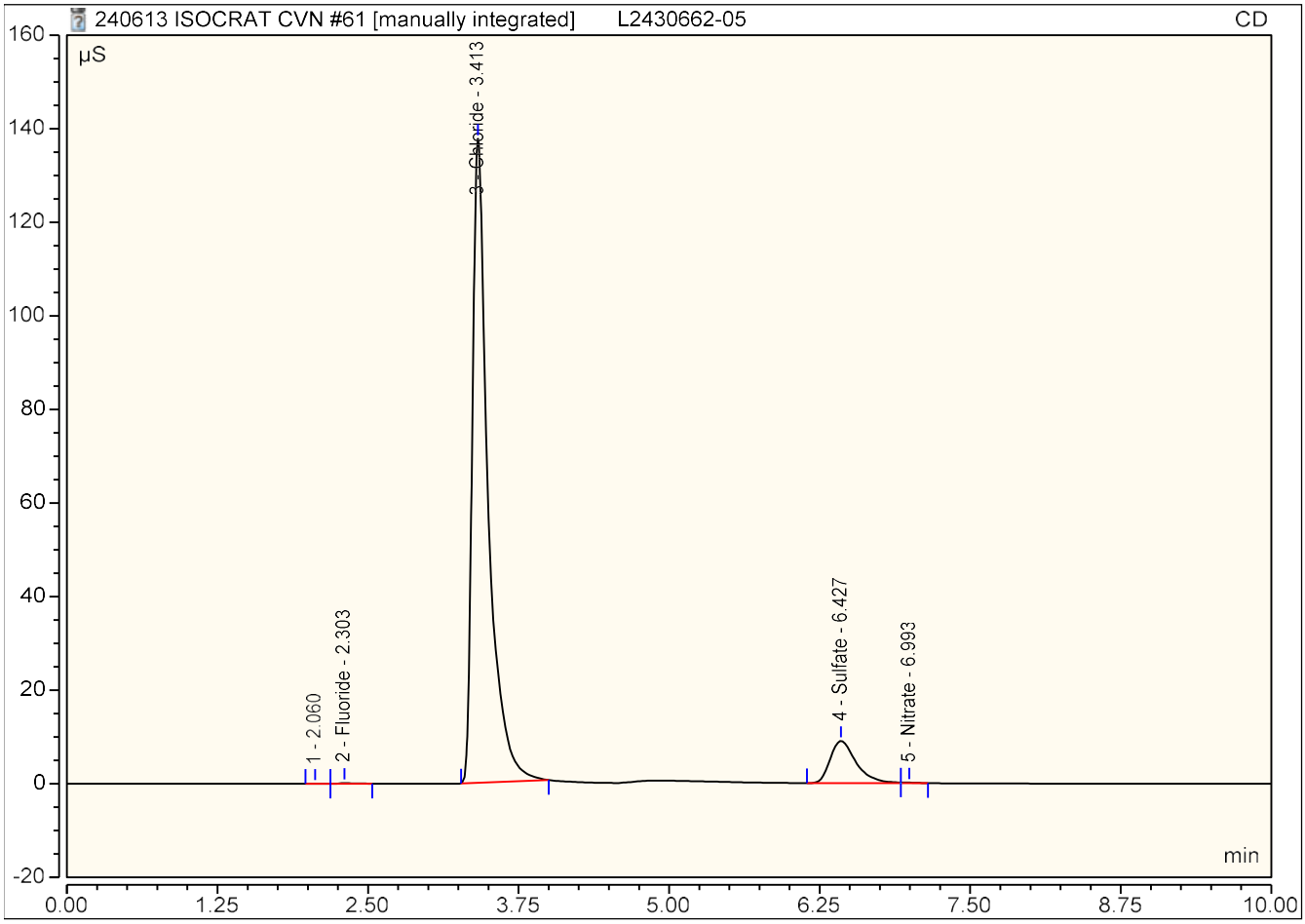
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.031	0.233	0.1023
3	3.42	**Chloride**	BMB*	13.059	87.516	30.7367
4	6.44	**Sulfate**	BM *	0.222	0.909	1.1331
5	6.98	**Nitrate**	MB*	0.033	0.145	0.0608
TOTAL:				13.35	88.80	32.03



Peak Integration Report

Sample Name:	**L2430662-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 21:18**	*Run Time:*	**10.00**

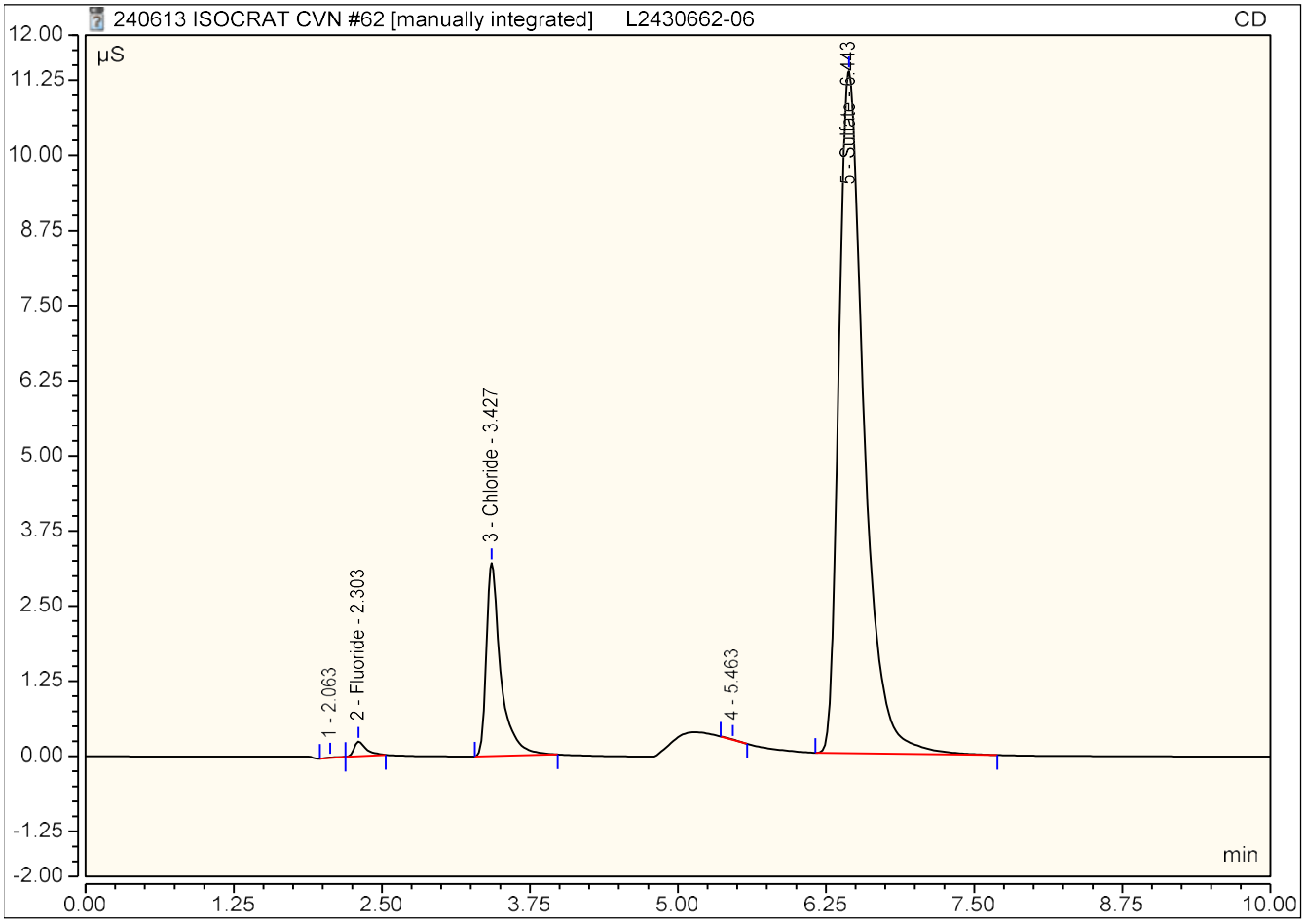
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.021	0.164	0.0858
3	3.41	**Chloride**	BMB*	20.833	137.613	48.8954
4	6.43	**Sulfate**	BM *	2.251	8.993	7.6900
5	6.99	**Nitrate**	MB*	0.017	0.107	0.0456
TOTAL:				23.12	146.88	56.72



Peak Integration Report

Sample Name:	**L2430662-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 21:30**	*Run Time:*	**10.00**

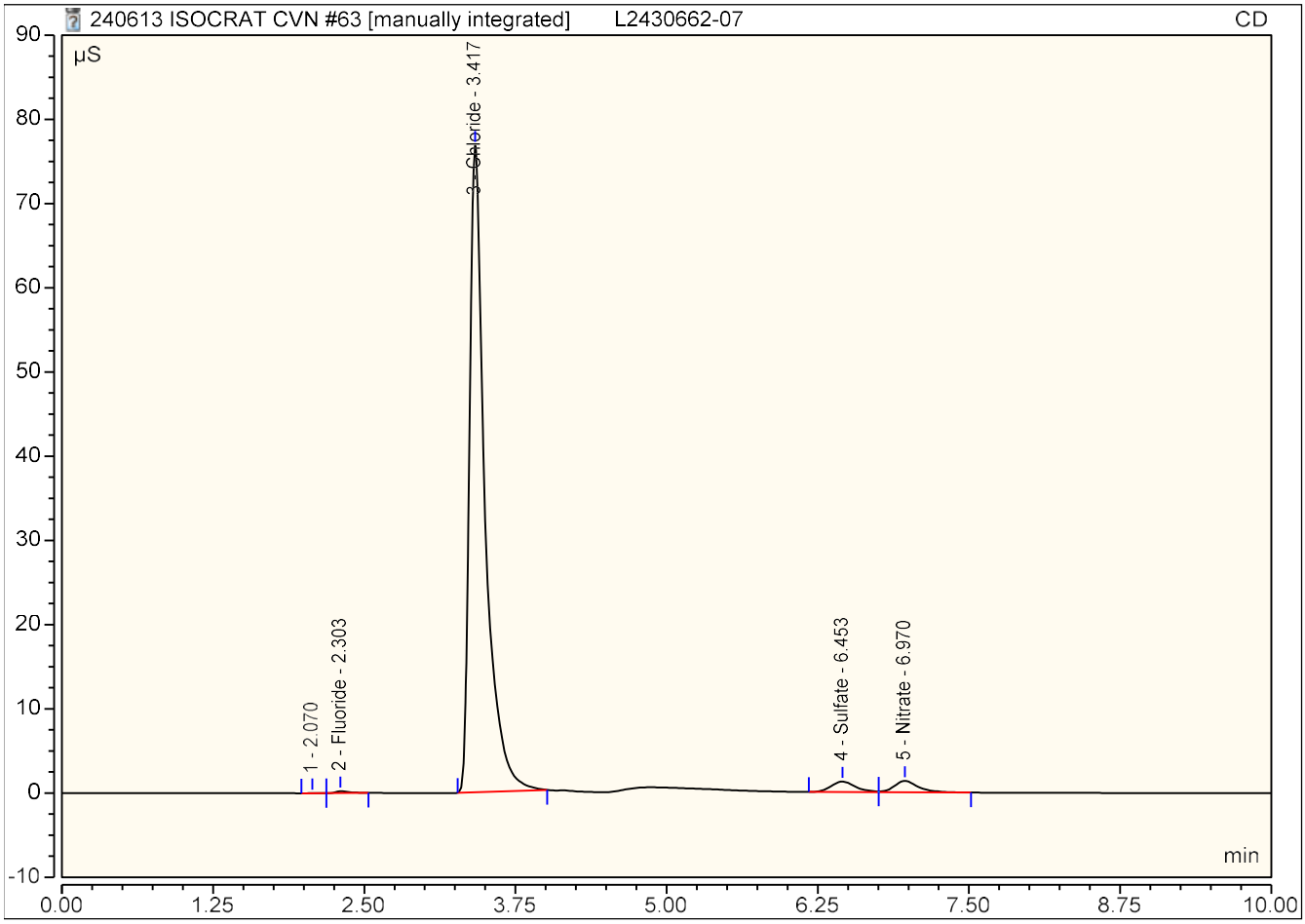
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.029	0.245	0.1000
3	3.43	**Chloride**	BMB*	0.451	3.212	1.2874
5	6.44	**Sulfate**	BMB	2.816	11.350	9.5176
TOTAL:				3.30	14.81	10.90



Peak Integration Report

Sample Name:	**L2430662-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 21:42**	*Run Time:*	**10.00**

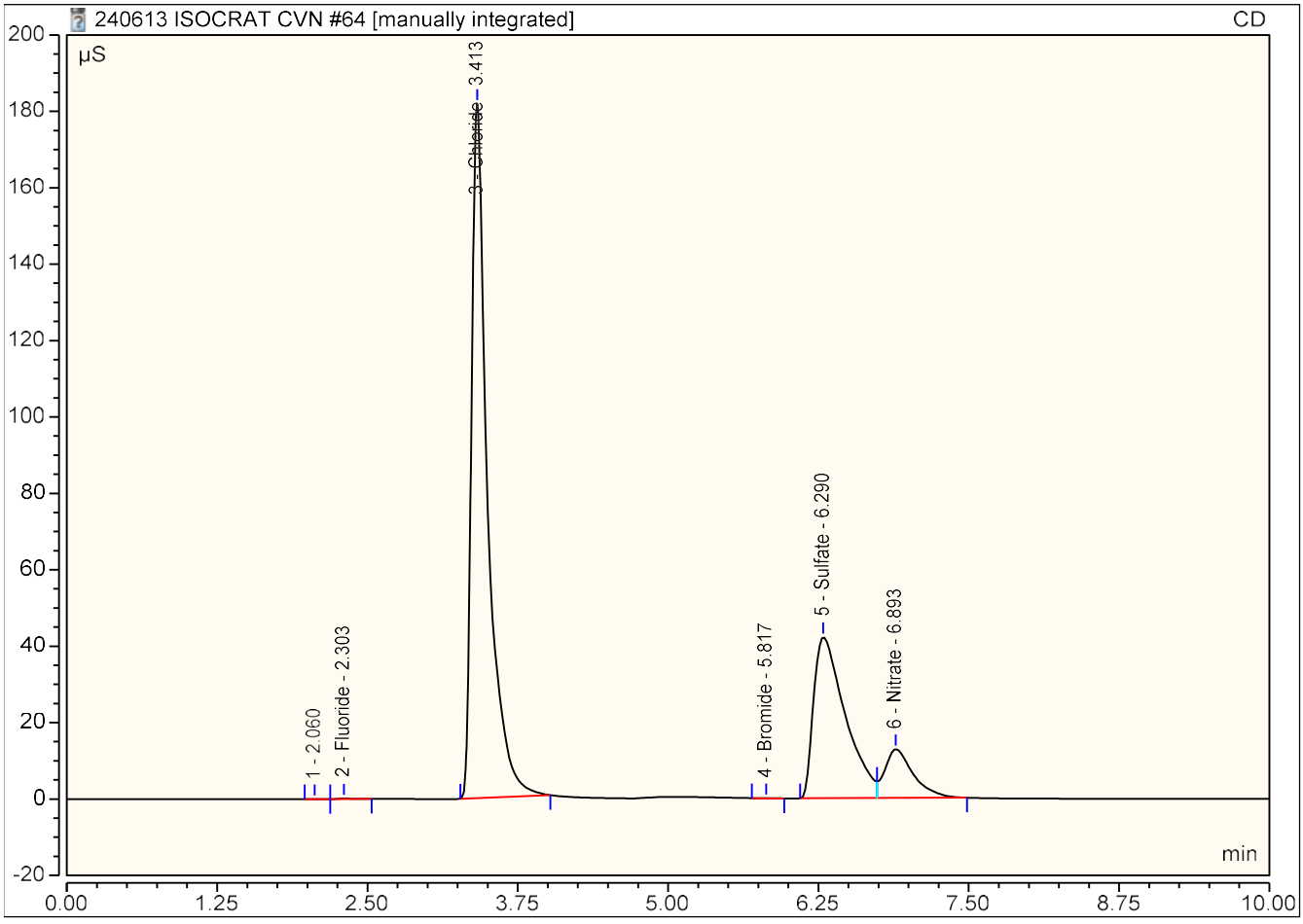
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.027	0.218	0.0968
3	3.42	**Chloride**	BMB*	11.430	76.787	26.9309
4	6.45	**Sulfate**	BM *	0.294	1.252	1.3677
5	6.97	**Nitrate**	MB*	0.314	1.352	0.3139
TOTAL:				12.07	79.61	28.71



Peak Integration Report

Sample Name:	**L2432728-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 21:54**	*Run Time:*	**10.00**

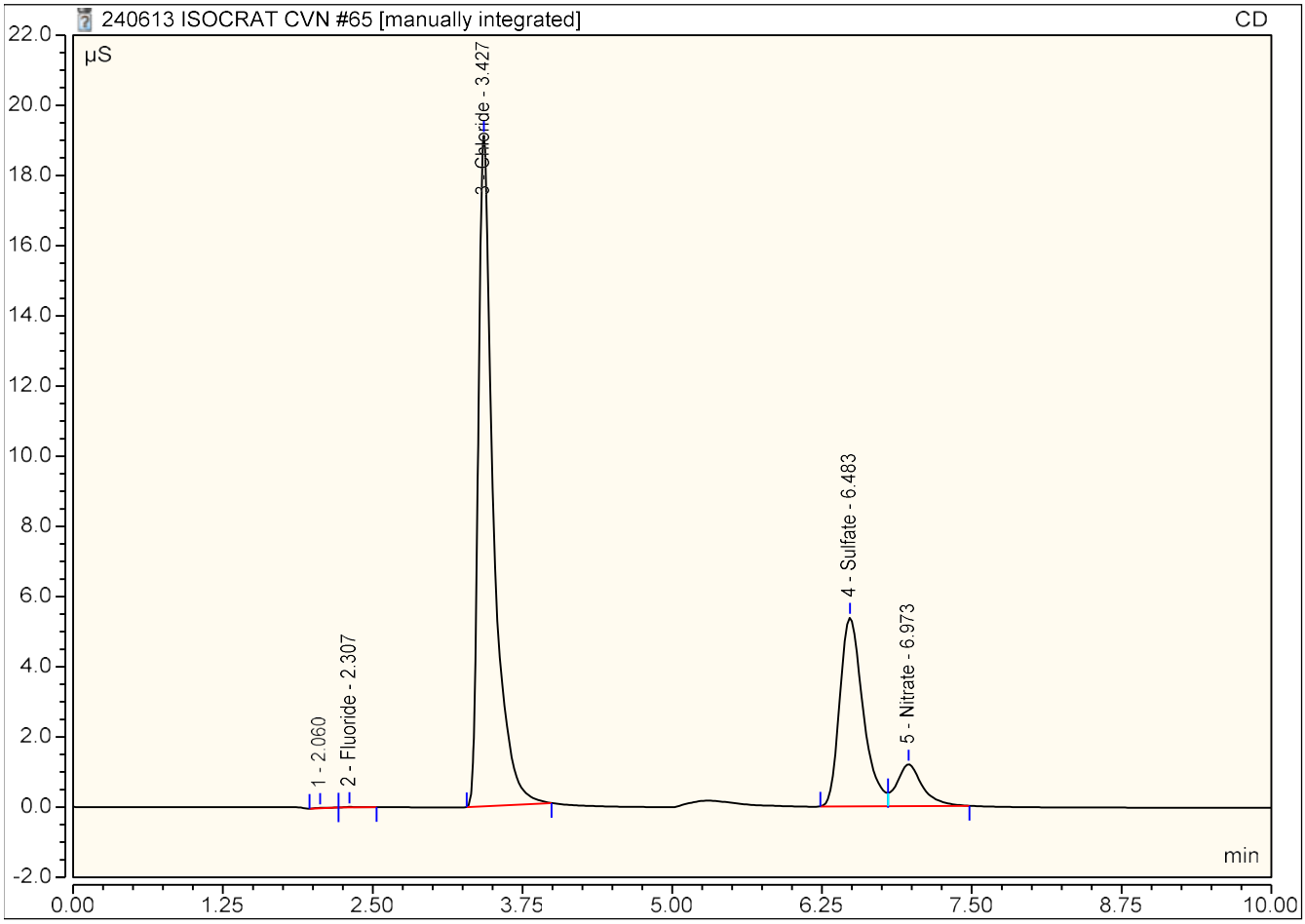
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.018	0.141	0.0803
3	3.41	**Chloride**	BMB*	27.938	181.697	65.4899
4	5.82	**Bromide**	BMB	0.001	0.012	0.0491
5	6.29	**Sulfate**	BM *	12.820	42.162	41.8447
6	6.89	**Nitrate**	MB*	3.503	12.764	3.1920
TOTAL:				44.28	236.78	110.66



Peak Integration Report

Sample Name:	**L2432728-01; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 22:06**	*Run Time:*	**10.00**

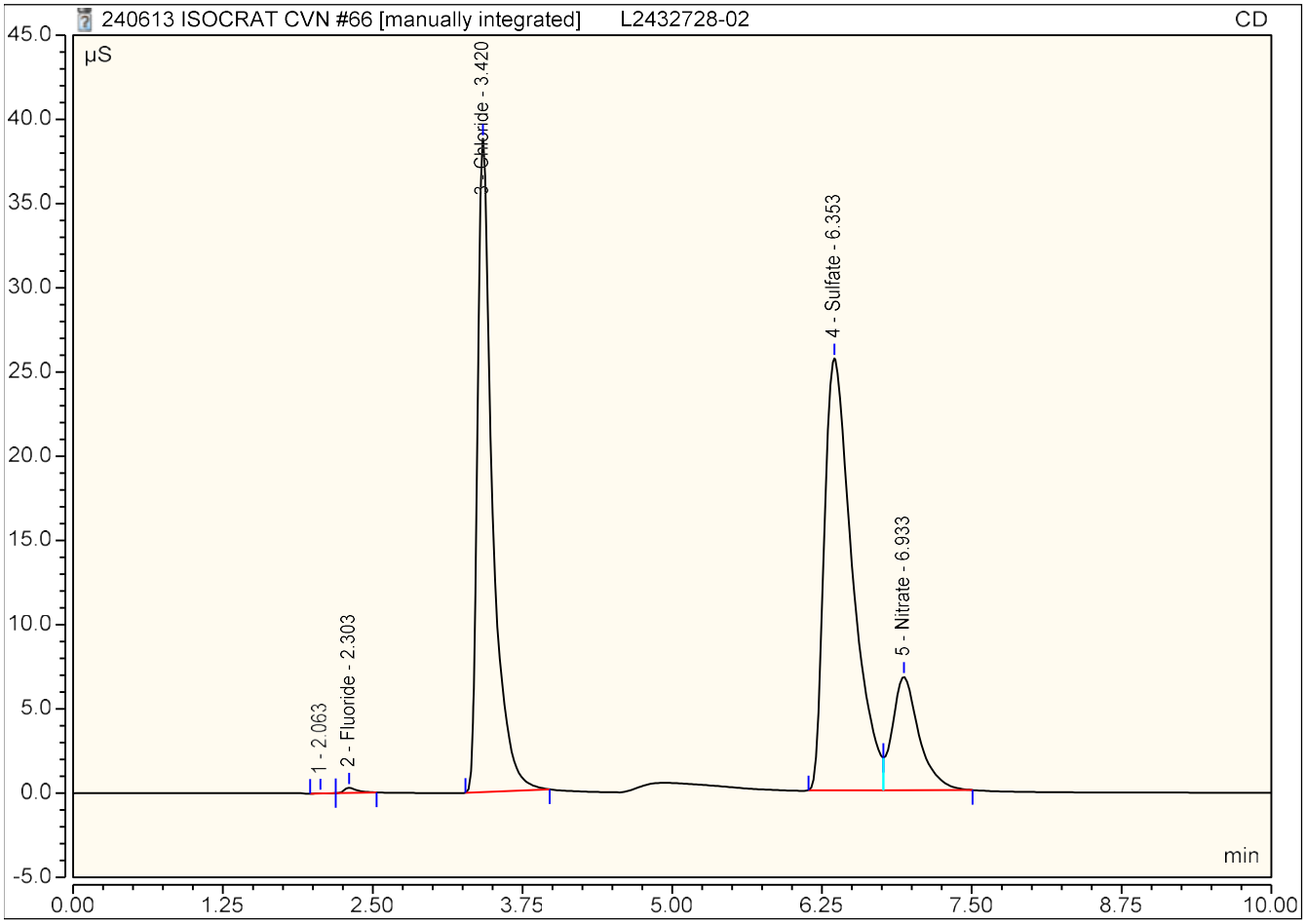
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.015	0.5473
3	3.43	**Chloride**	BMB*	2.796	19.112	67.6466
4	6.48	**Sulfate**	BM *	1.217	5.377	43.4834
5	6.97	**Nitrate**	MB*	0.294	1.187	2.9604
TOTAL:				4.31	25.69	114.64



Peak Integration Report

Sample Name:	**L2432728-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 22:18**	*Run Time:*	**10.00**

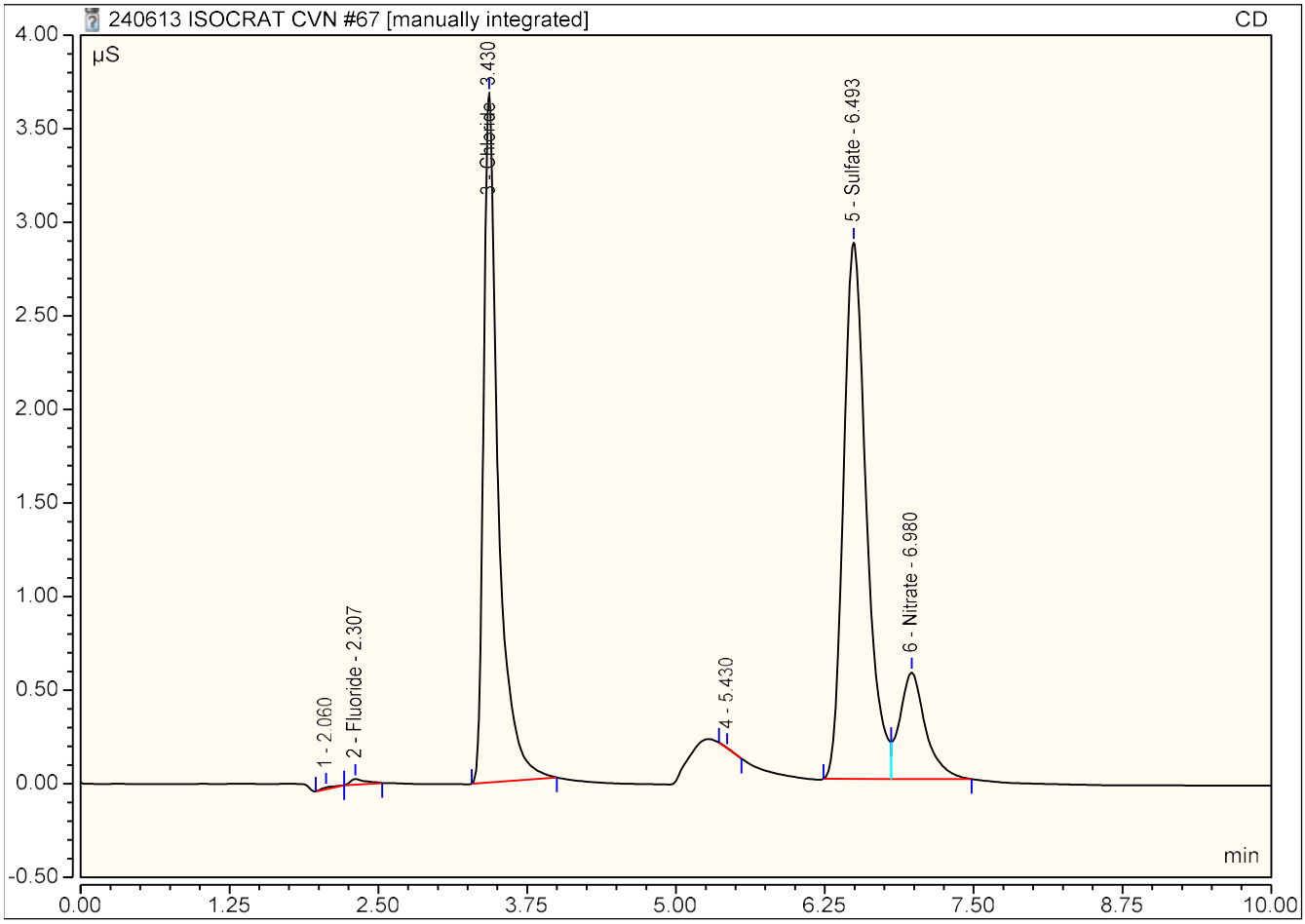
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.039	0.318	0.1158
3	3.42	**Chloride**	BMB*	5.649	38.780	13.4291
4	6.35	**Sulfate**	BM *	6.980	25.635	22.9719
5	6.93	**Nitrate**	MB*	1.735	6.732	1.5962
TOTAL:				14.40	71.46	38.11



Peak Integration Report

Sample Name:	**XL2432728-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 22:30**	*Run Time:*	**10.00**

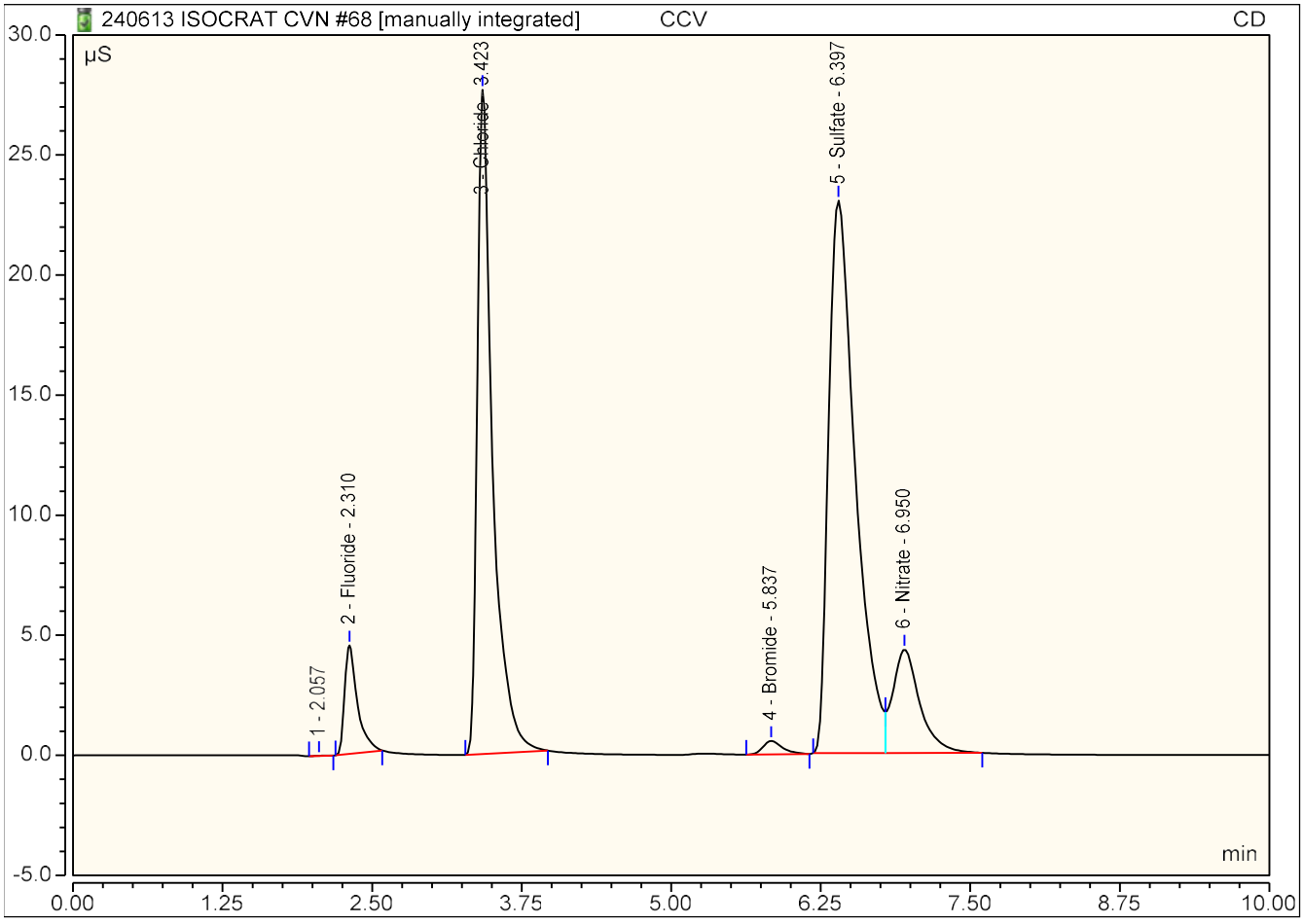
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.004	0.030	0.5826
3	3.43	**Chloride**	BMB*	0.526	3.686	14.6241
5	6.49	**Sulfate**	BM *	0.639	2.865	24.8217
6	6.98	**Nitrate**	MB*	0.144	0.569	1.6028
TOTAL:				1.31	7.15	41.63



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 22:43**	*Run Time:*	**10.00**

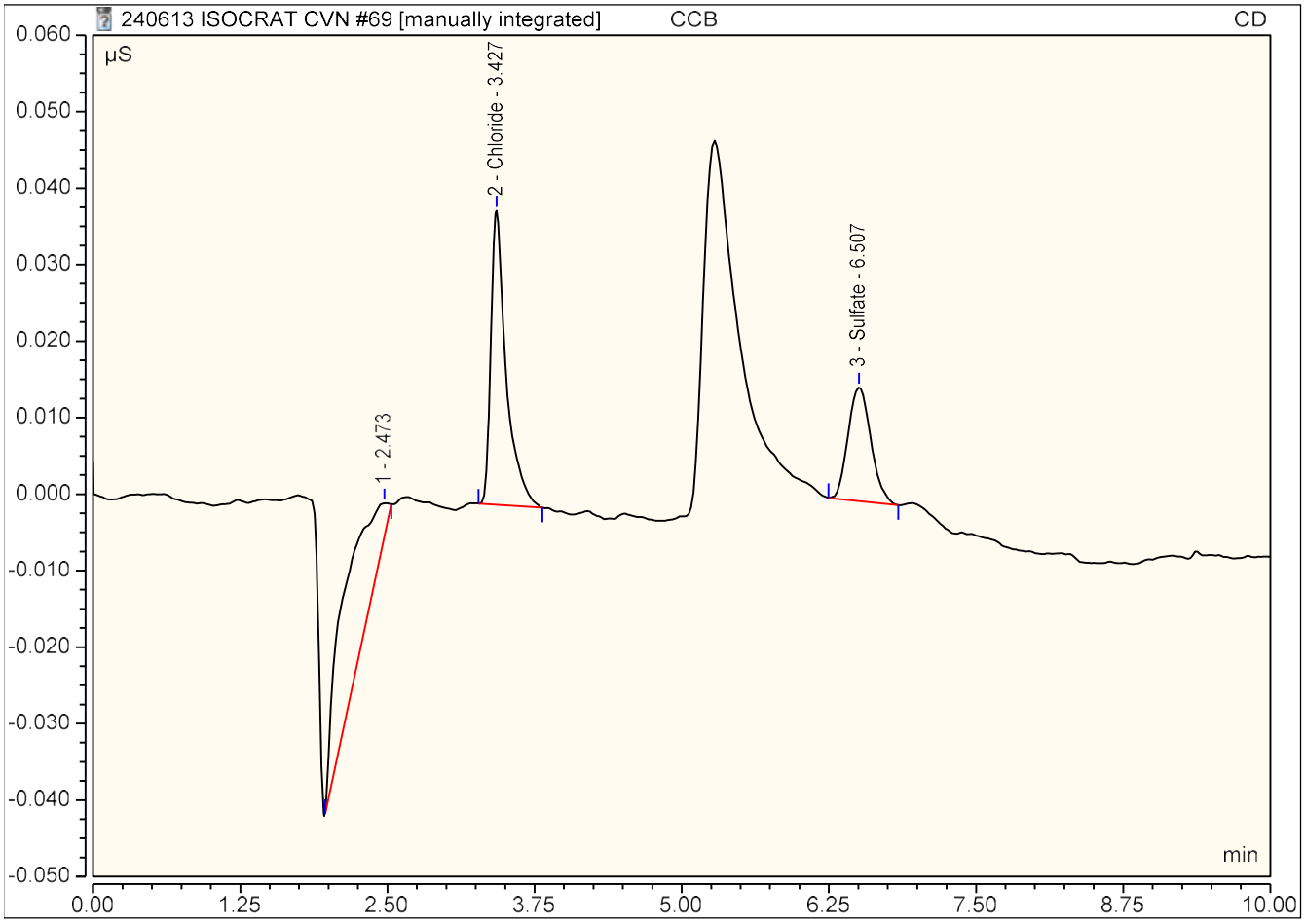
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.559	4.519	0.9853
3	3.42	**Chloride**	BMB*	4.105	27.654	9.8210
4	5.84	**Bromide**	BMB	0.105	0.564	0.9176
5	6.40	**Sulfate**	BM *	5.959	23.017	19.6723
6	6.95	**Nitrate**	MB*	1.134	4.317	1.0542
TOTAL:				11.86	60.07	32.45



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 22:55**	*Run Time:*	**10.00**

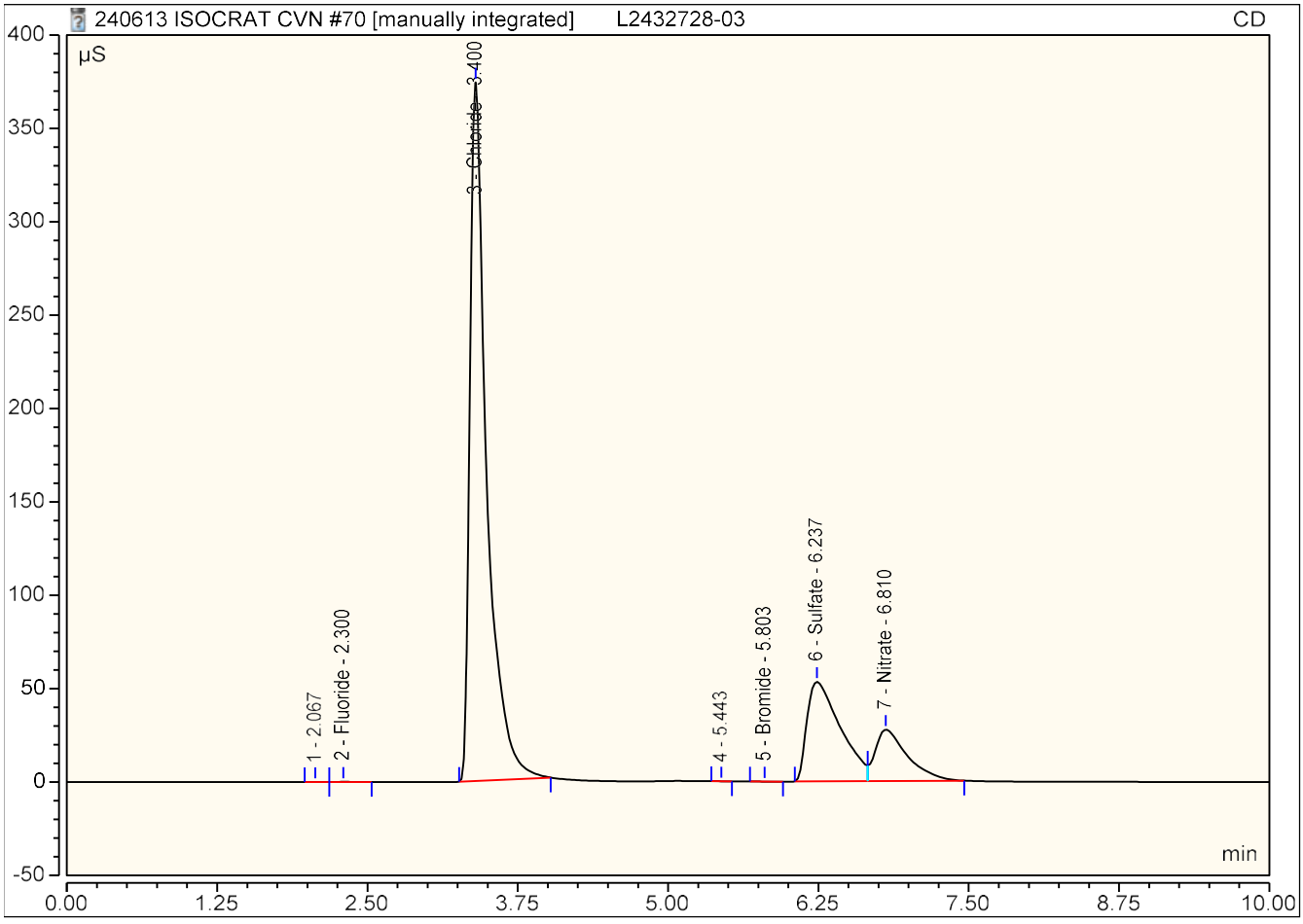
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.006	0.038	0.2469
3	6.51	**Sulfate**	BMB	0.003	0.015	0.4272
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**L2432728-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 23:07**	*Run Time:*	**10.00**

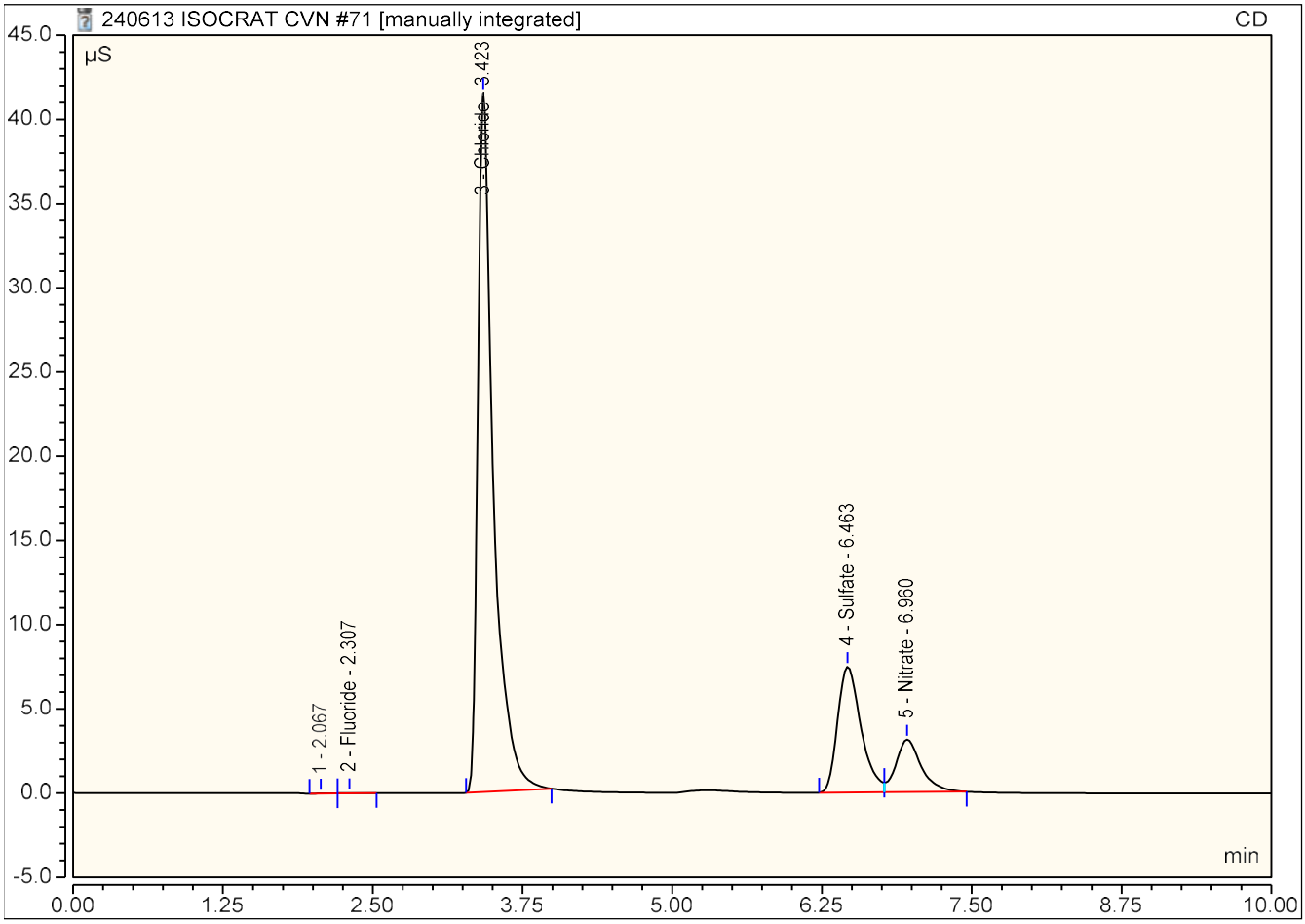
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.014	0.106	0.0742
3	3.40	**Chloride**	BMB*	60.672	374.092	141.9499
5	5.80	**Bromide**	BMB	0.002	0.013	0.0510
6	6.24	**Sulfate**	BM *	17.131	53.257	55.7773
7	6.81	**Nitrate**	MB*	8.496	27.455	7.6992
TOTAL:				86.32	454.92	205.55



Peak Integration Report

Sample Name:	**L2432728-03; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 23:19**	*Run Time:*	**10.00**

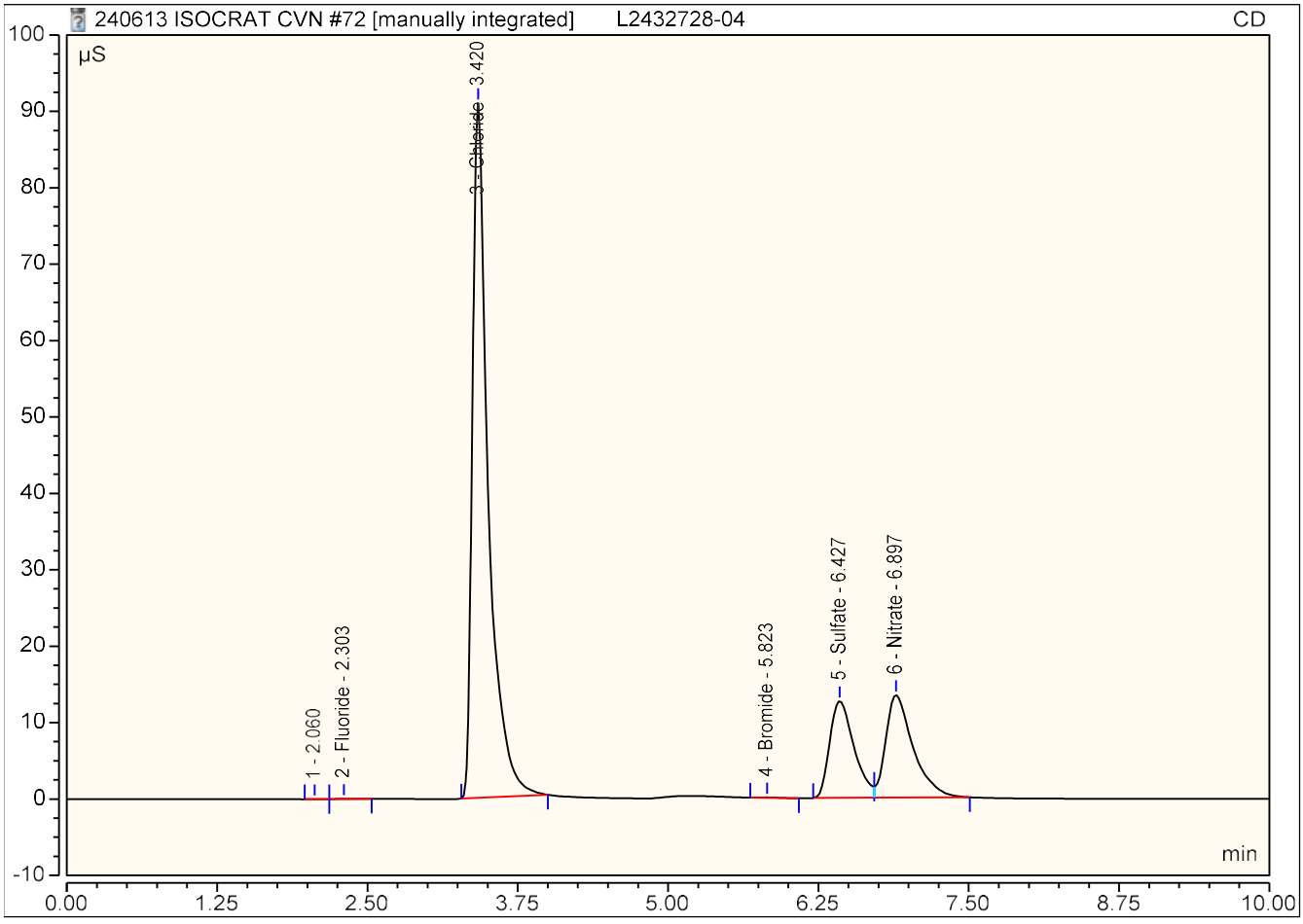
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.012	0.5418
3	3.42	**Chloride**	BMB*	6.250	41.501	148.3303
4	6.46	**Sulfate**	BM *	1.695	7.460	58.9260
5	6.96	**Nitrate**	MB*	0.764	3.120	7.2002
TOTAL:				8.71	52.09	215.00



Peak Integration Report

Sample Name:	**L2432728-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 23:31**	*Run Time:*	**10.00**

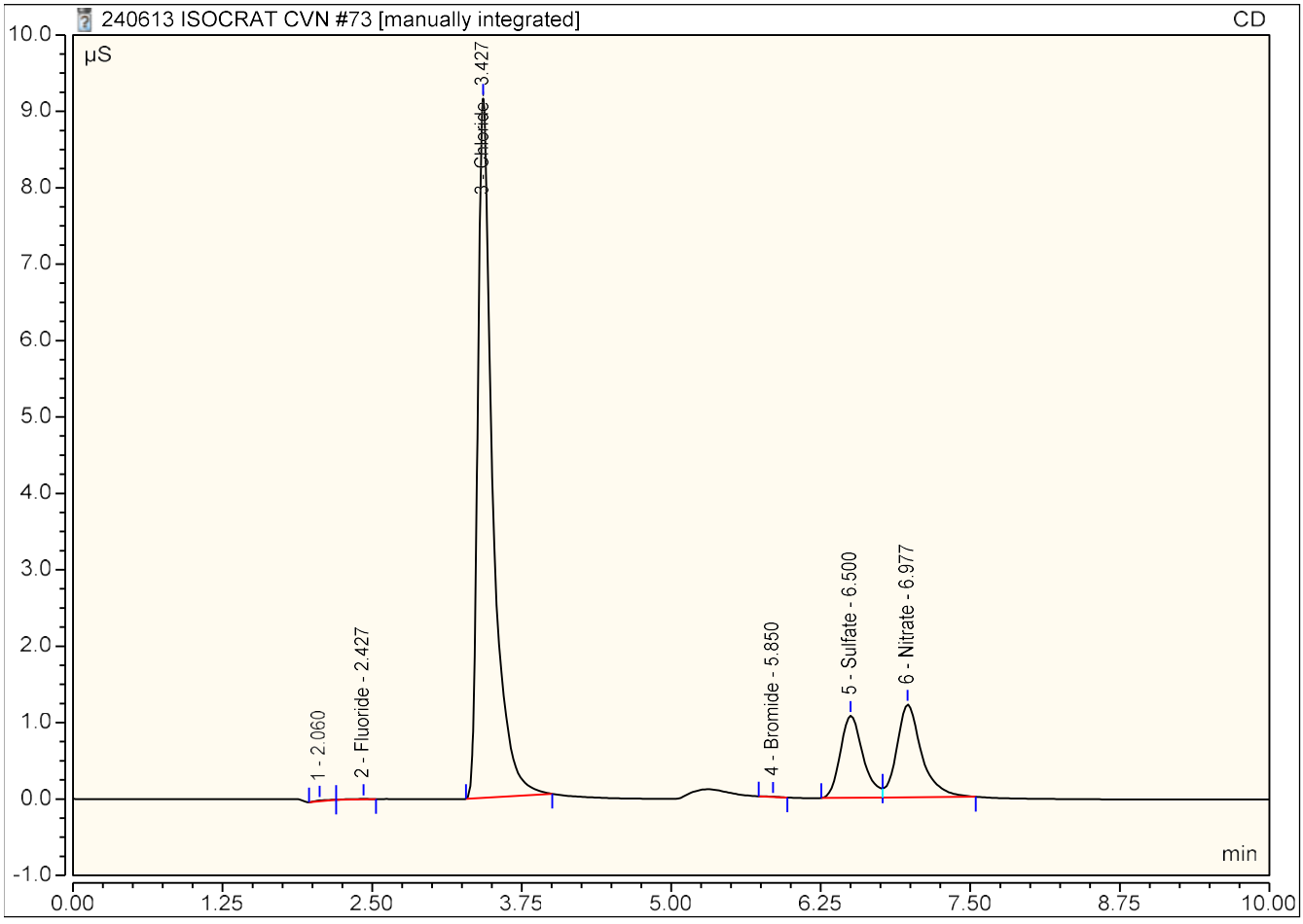
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.043	0.0607
3	3.42	**Chloride**	BMB*	13.818	90.938	32.5088
4	5.82	**Bromide**	BMB	0.009	0.055	0.1121
5	6.43	**Sulfate**	BM *	2.963	12.668	9.9914
6	6.90	**Nitrate**	MB*	3.547	13.426	3.2318
TOTAL:				20.34	117.13	45.90



Peak Integration Report

Sample Name:	**XL2432728-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 23:43**	*Run Time:*	**10.00**

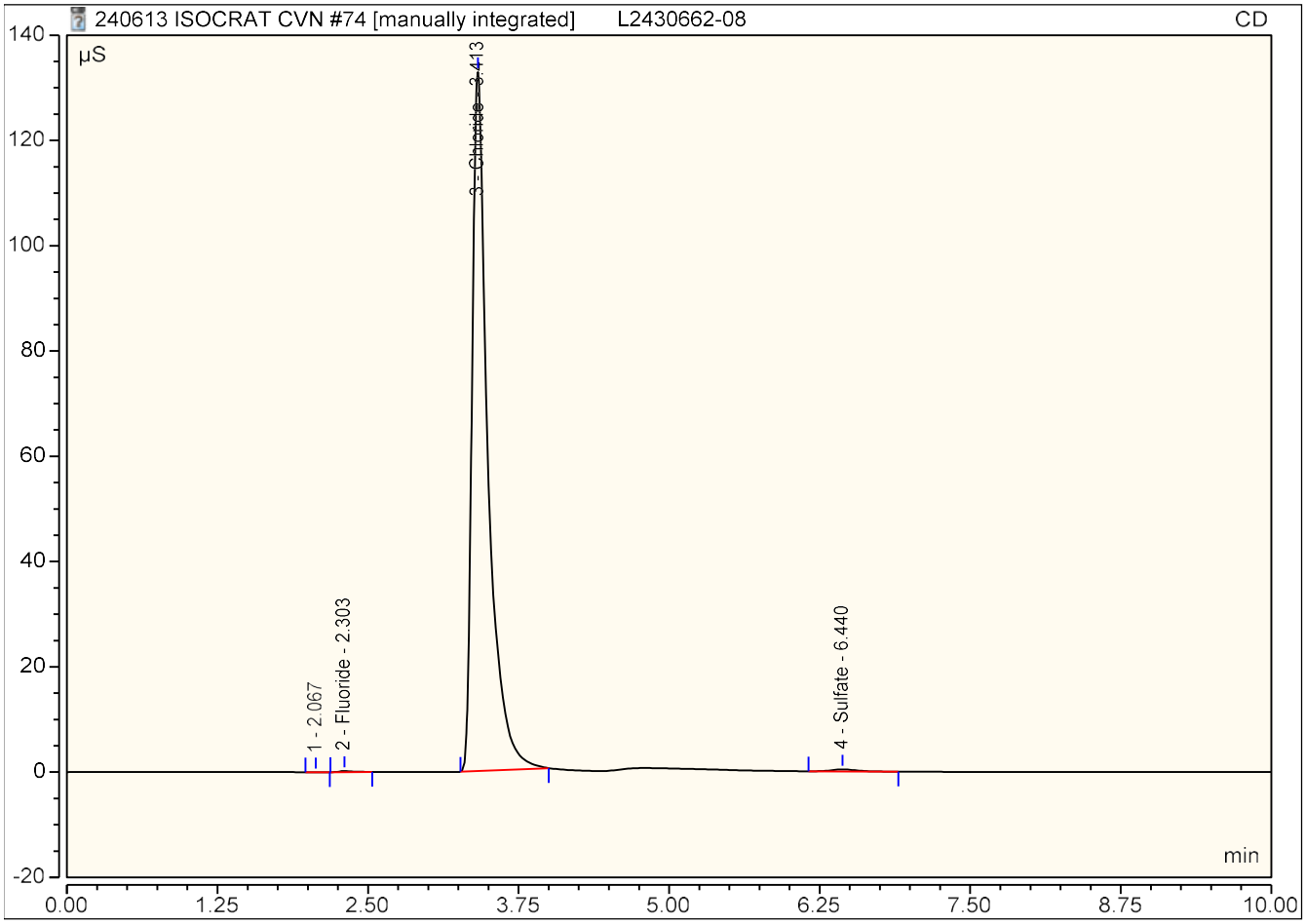
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.001	0.005	0.5289
3	3.43	**Chloride**	BMB*	1.333	9.152	33.4743
4	5.85	**Bromide**	BMB	0.000	0.003	0.4005
5	6.50	**Sulfate**	BM *	0.237	1.075	11.8115
6	6.98	**Nitrate**	MB*	0.292	1.215	2.9415
TOTAL:				1.86	11.45	49.16



Peak Integration Report

Sample Name:	**L2430662-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**13-Jun-2024 / 23:55**	*Run Time:*	**10.00**

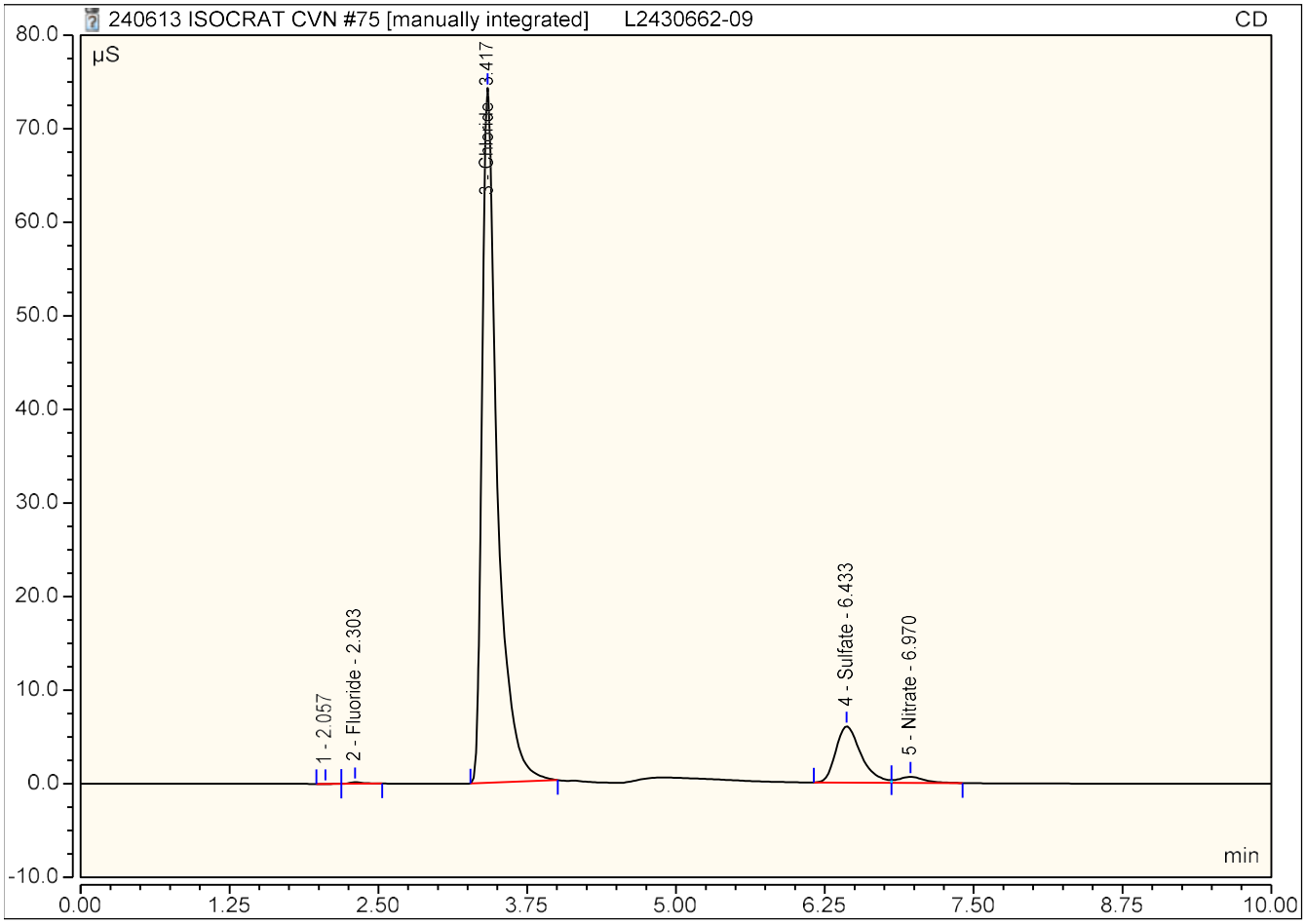
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.026	0.196	0.0946
3	3.41	**Chloride**	BMB*	20.271	132.796	47.5826
4	6.44	**Sulfate**	BMB	0.095	0.387	0.7238
TOTAL:				20.39	133.38	48.40



Peak Integration Report

Sample Name:	**L2430662-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 00:07**	*Run Time:*	**10.00**

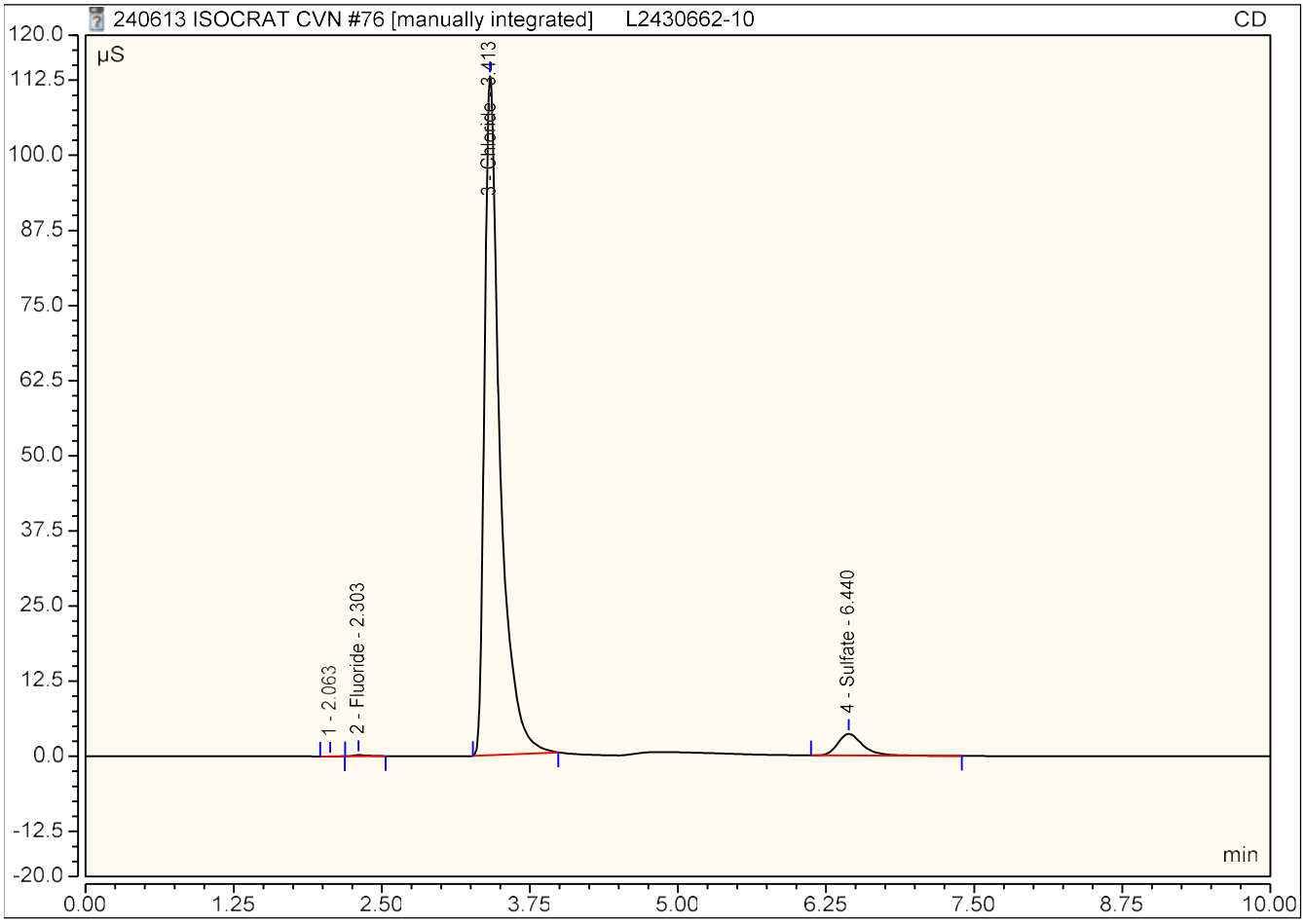
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.023	0.177	0.0890
3	3.42	**Chloride**	BMB*	11.130	74.239	26.2294
4	6.43	**Sulfate**	BM *	1.474	6.012	5.1797
5	6.97	**Nitrate**	MB*	0.162	0.655	0.1764
TOTAL:				12.79	81.08	31.67



Peak Integration Report

Sample Name:	**L2430662-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 00:19**	*Run Time:*	**10.00**

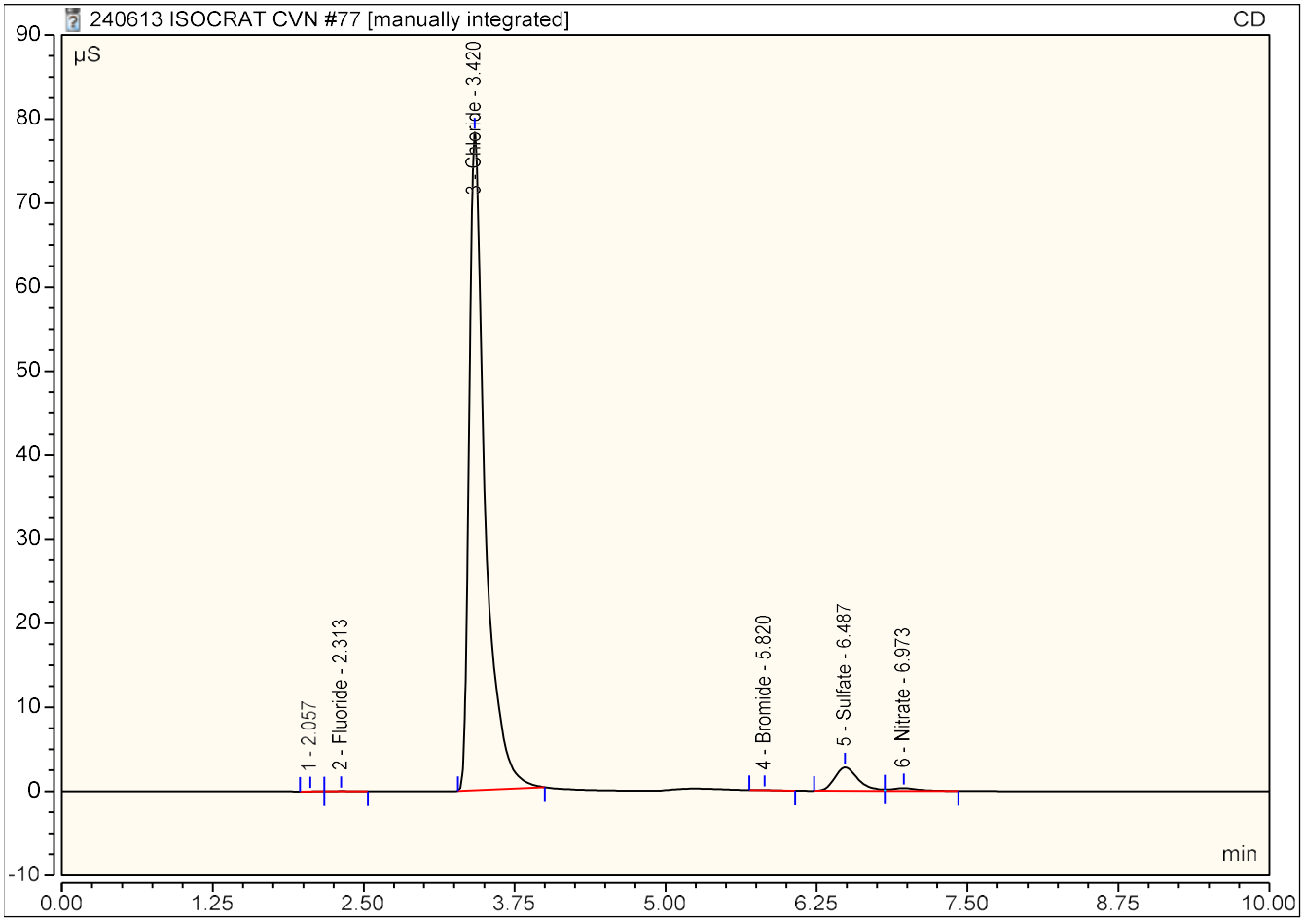
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.028	0.216	0.0986
3	3.41	**Chloride**	BMB*	17.136	113.014	40.2600
4	6.44	**Sulfate**	BMB	0.896	3.598	3.3103
TOTAL:				18.06	116.83	43.67



Peak Integration Report

Sample Name:	**L2432352-01; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 00:31**	*Run Time:*	**10.00**

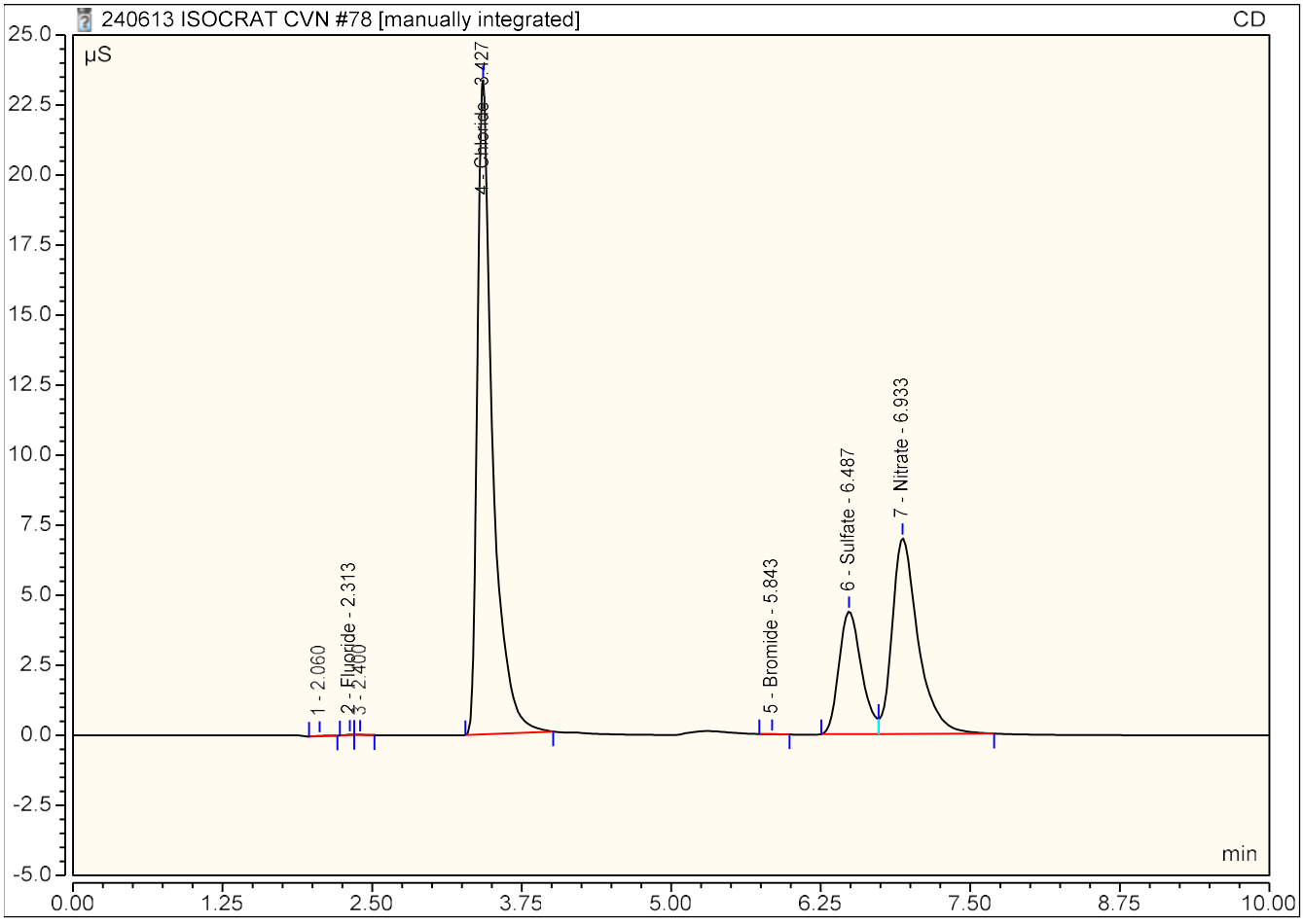
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.004	0.027	0.5786
3	3.42	**Chloride**	BMB*	11.962	78.260	281.7389
4	5.82	**Bromide**	BMB	0.005	0.029	0.7660
5	6.49	**Sulfate**	BM *	0.629	2.798	24.4950
6	6.97	**Nitrate**	MB*	0.087	0.339	1.0893
TOTAL:				12.69	81.45	308.67



Peak Integration Report

Sample Name:	**L2432352-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 00:43**	*Run Time:*	**10.00**

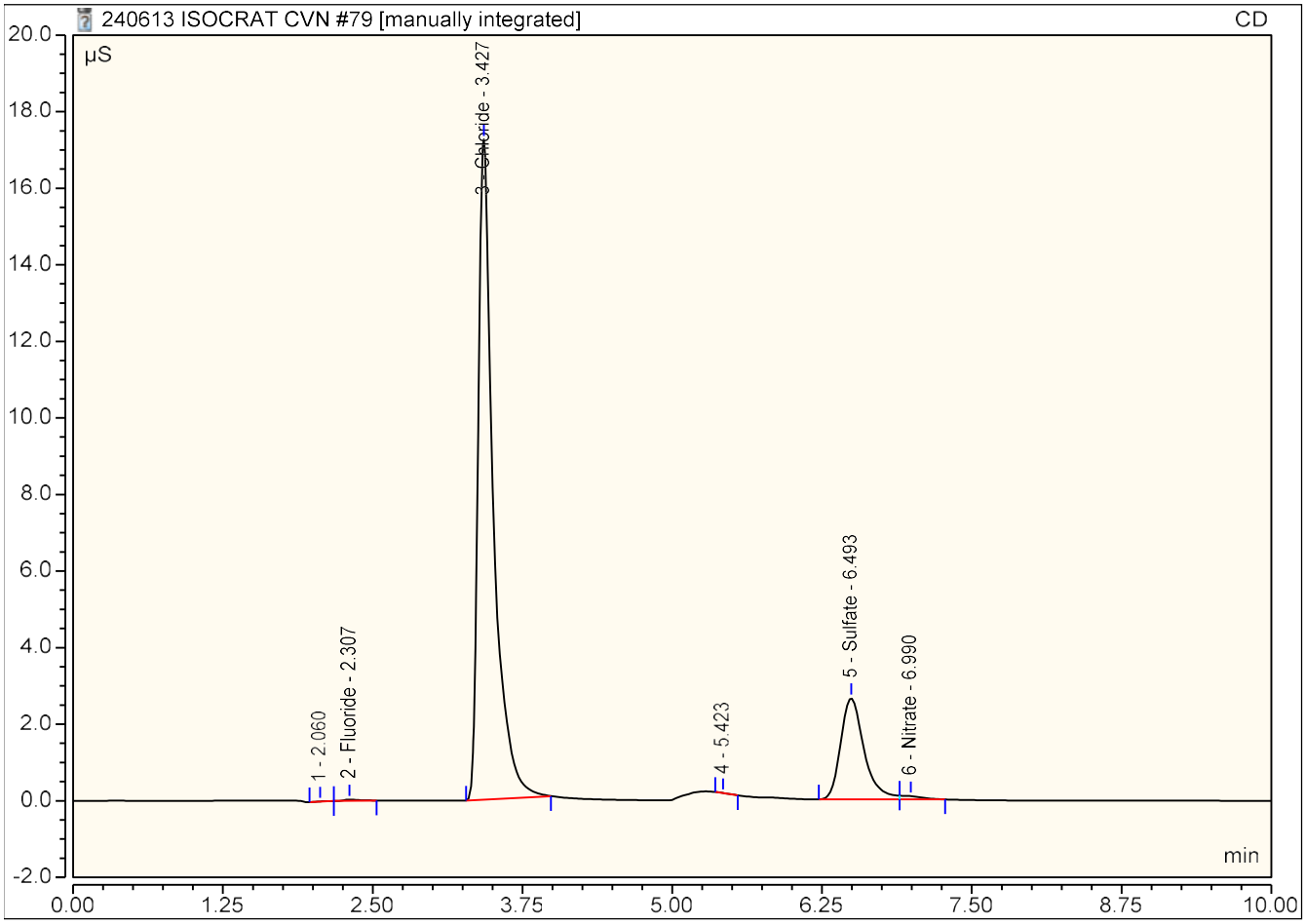
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.001	0.008	0.5209
4	3.43	**Chloride**	BMB*	3.464	23.348	83.2515
5	5.84	**Bromide**	BMB	0.000	0.003	0.3965
6	6.49	**Sulfate**	BM *	0.957	4.382	35.0922
7	6.93	**Nitrate**	MB*	1.764	6.990	16.2289
TOTAL:				6.19	34.73	135.49



Peak Integration Report

Sample Name:	**L2432352-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 00:56**	*Run Time:*	**10.00**

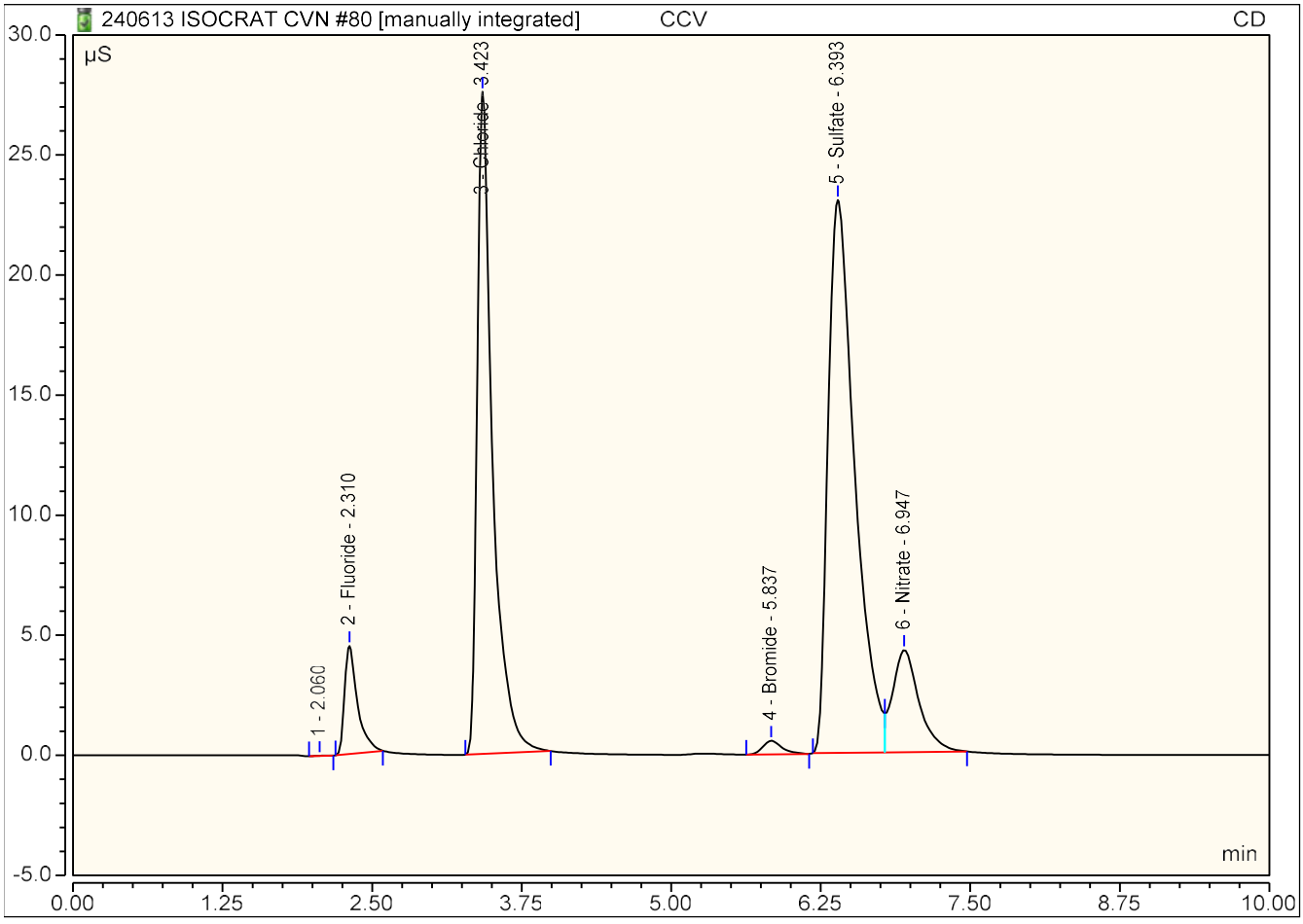
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.005	0.035	0.5917
3	3.43	**Chloride**	BMB*	2.529	17.241	61.4141
5	6.49	**Sulfate**	BM *	0.600	2.647	23.5602
6	6.99	**Nitrate**	MB*	0.018	0.085	0.4702
TOTAL:				3.15	20.01	86.04



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 01:08**	*Run Time:*	**10.00**

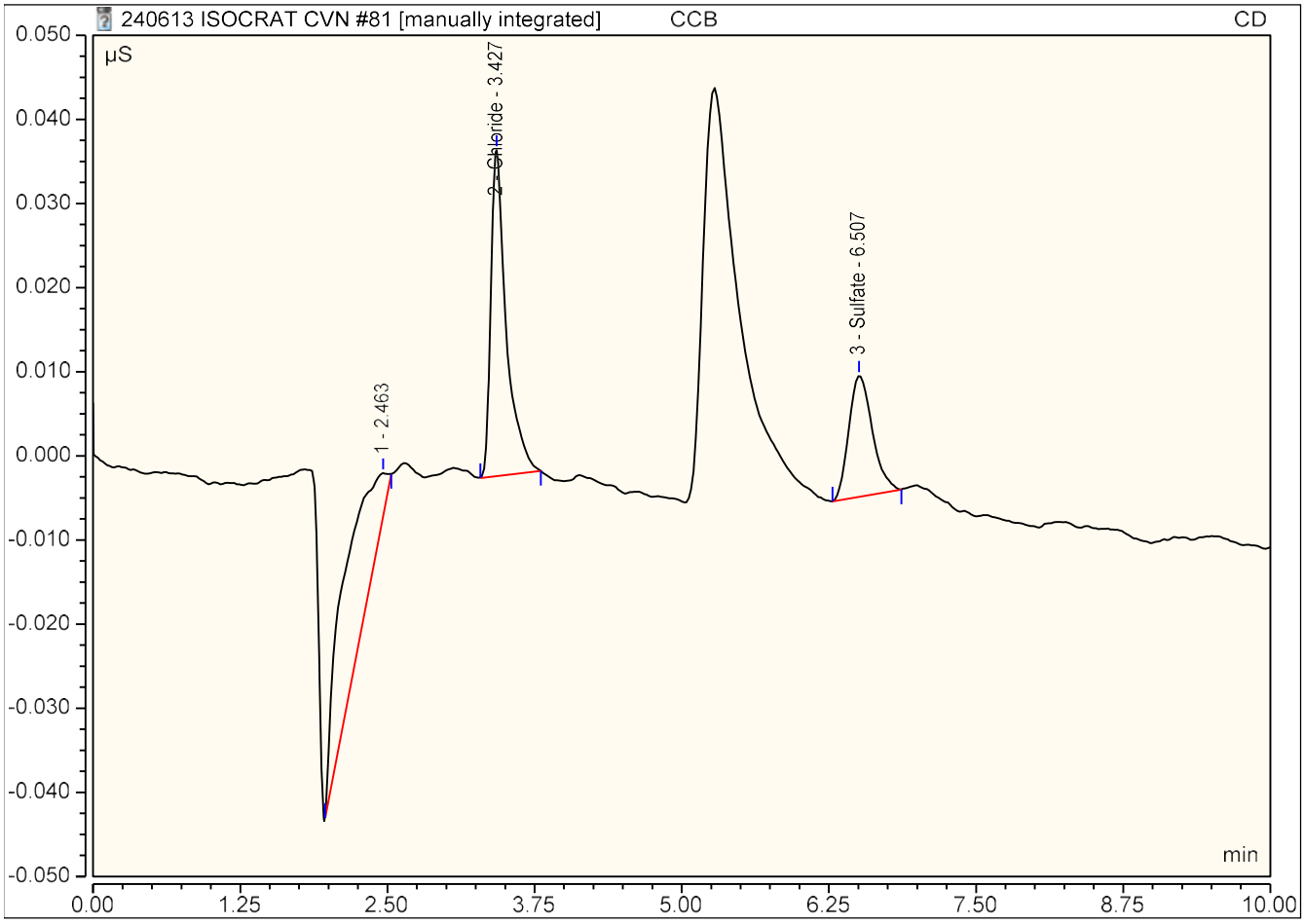
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.562	4.499	0.9914
3	3.42	**Chloride**	BMB*	4.113	27.576	9.8407
4	5.84	**Bromide**	BMB	0.105	0.565	0.9186
5	6.39	**Sulfate**	BM *	5.946	23.020	19.6326
6	6.95	**Nitrate**	MB*	1.097	4.261	1.0209
TOTAL:				11.82	59.92	32.40



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 01:20**	*Run Time:*	**10.00**

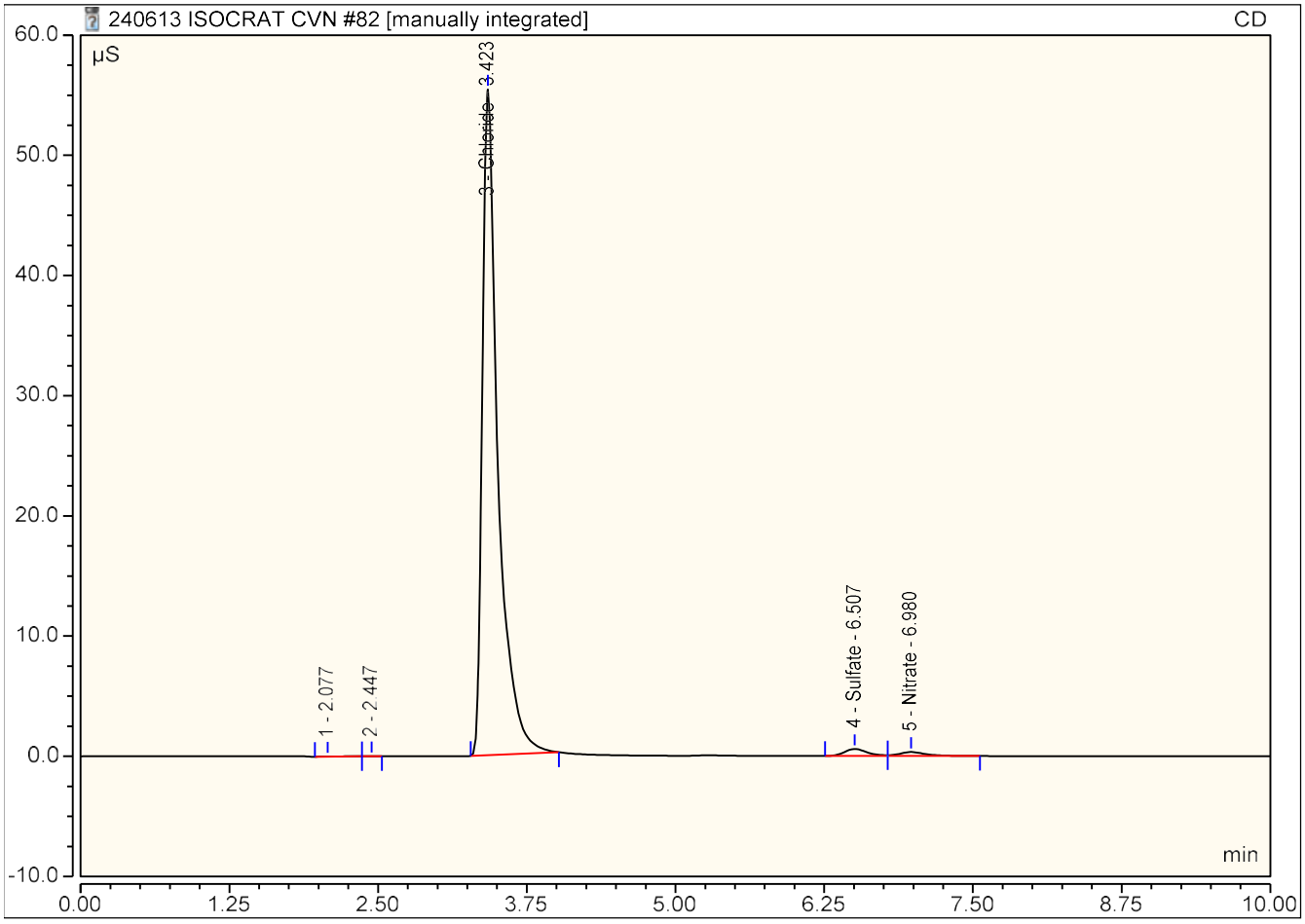
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.006	0.039	0.2471
3	6.51	**Sulfate**	BMB	0.003	0.014	0.4272
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**L2432352-05; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 01:32**	*Run Time:*	**10.00**

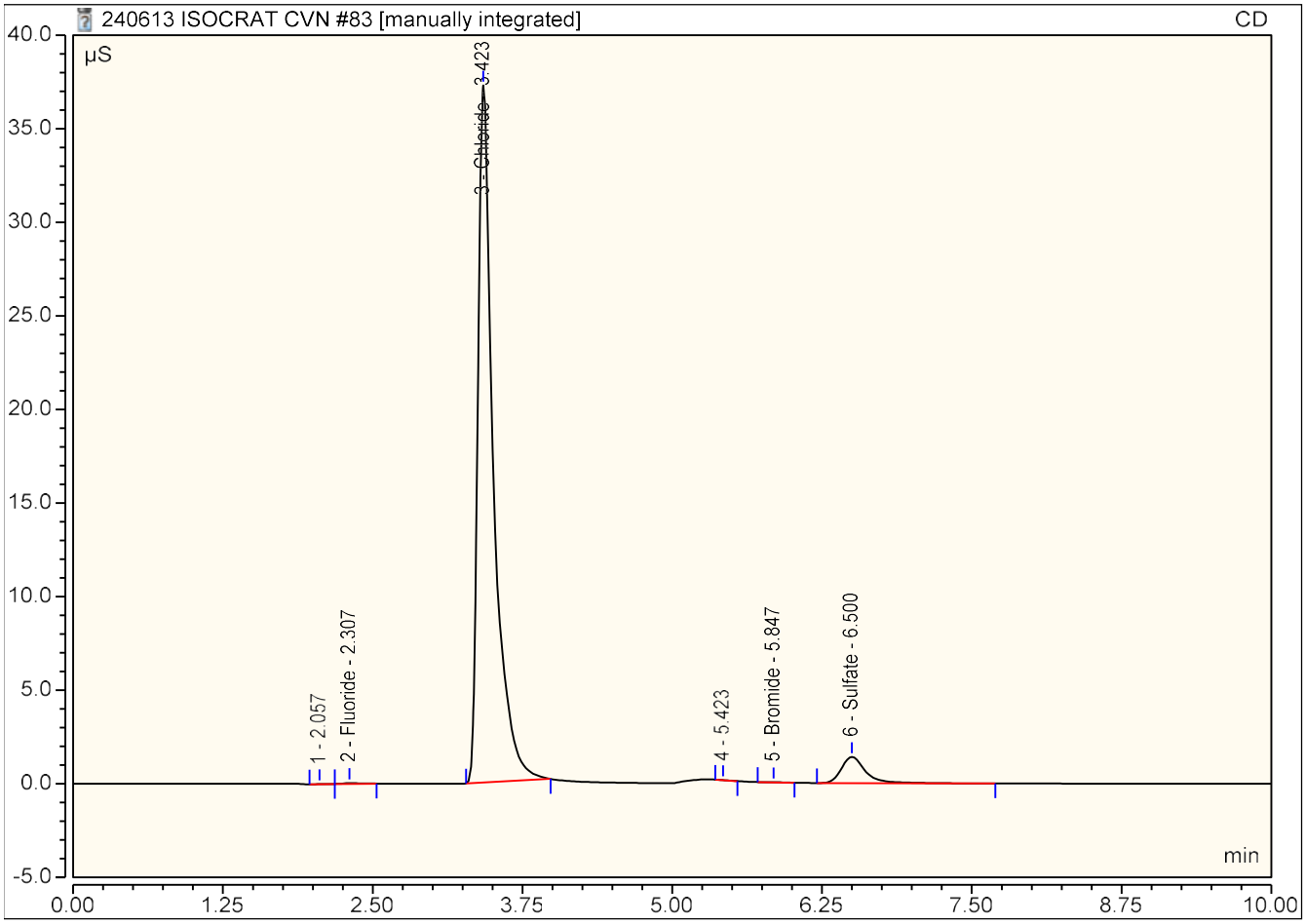
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	8.458	55.401	499.7047
4	6.51	**Sulfate**	BM *	0.133	0.586	21.1385
5	6.98	**Nitrate**	MB*	0.087	0.337	2.7213
TOTAL:				8.68	56.32	523.56



Peak Integration Report

Sample Name:	**L2432352-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 01:44**	*Run Time:*	**10.00**

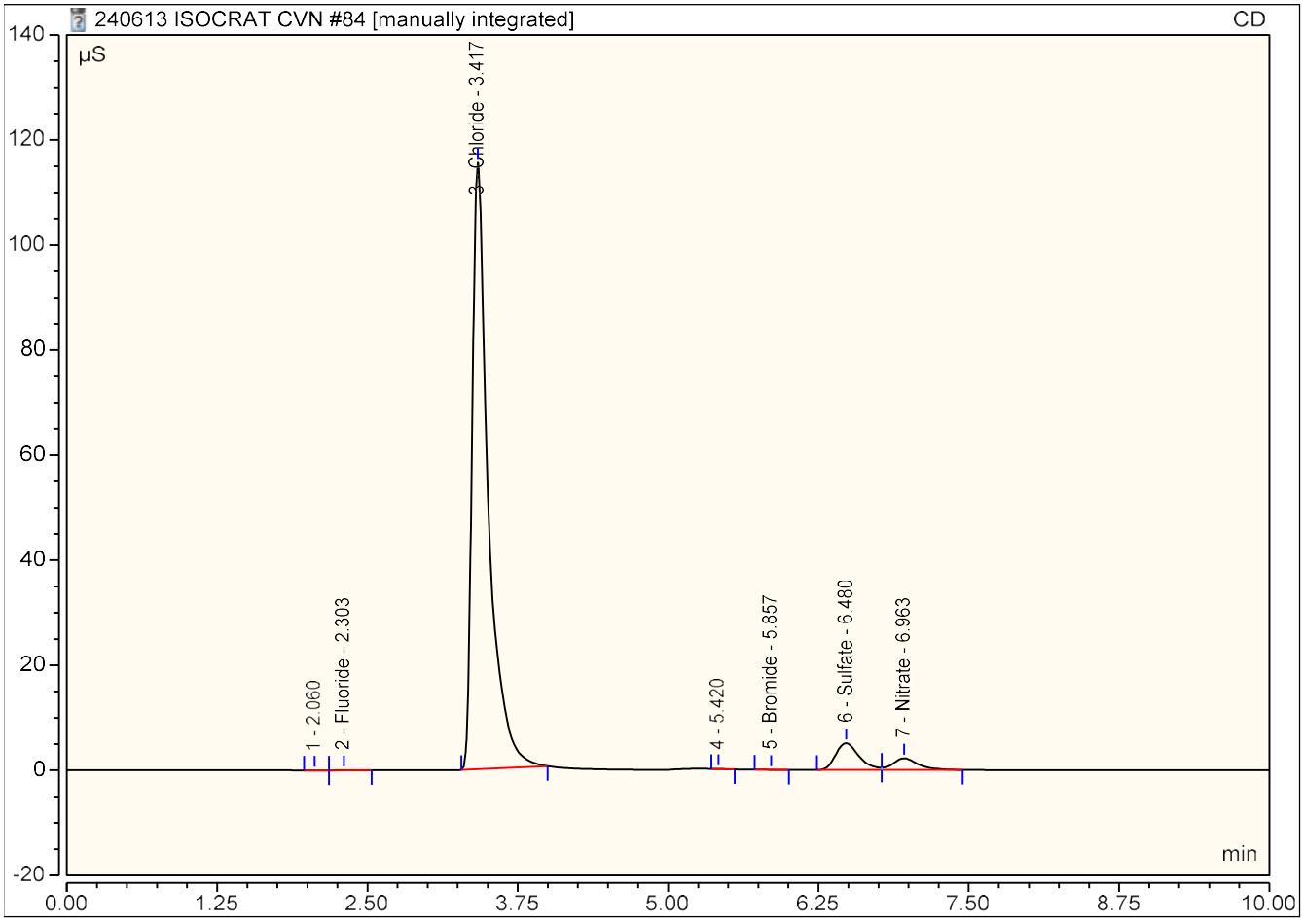
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.006	0.045	0.6109
3	3.42	**Chloride**	BMB*	5.608	37.248	133.3229
5	5.85	**Bromide**	BMB	0.001	0.011	0.4895
6	6.50	**Sulfate**	BMB	0.331	1.407	14.8474
TOTAL:				5.95	38.71	149.27



Peak Integration Report

Sample Name:	**L2432352-08; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 01:56**	*Run Time:*	**10.00**

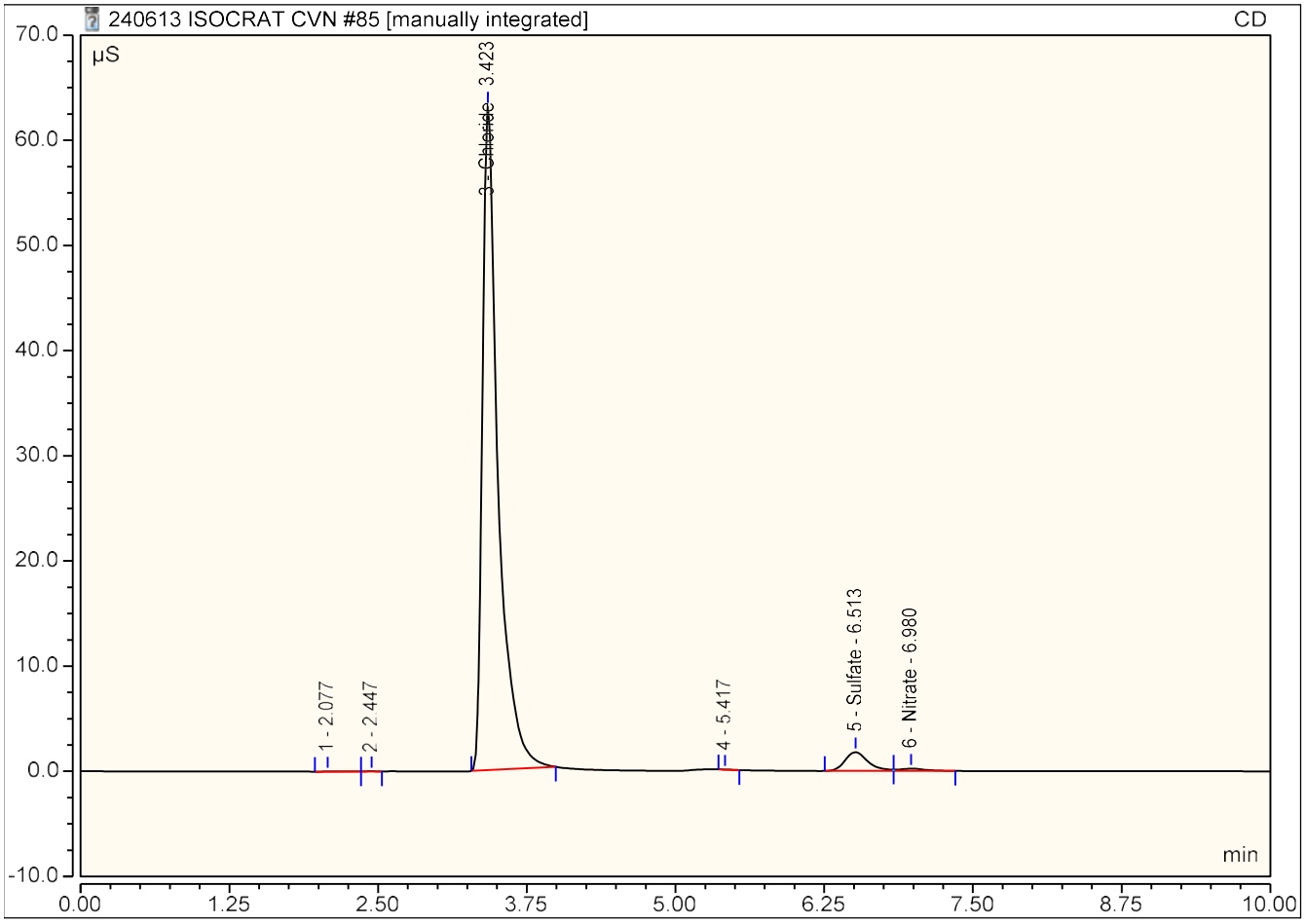
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.017	0.5521
3	3.42	**Chloride**	BMB*	17.938	115.456	421.3198
5	5.86	**Bromide**	BMB	0.001	0.009	0.4684
6	6.48	**Sulfate**	BM *	1.151	5.110	41.3487
7	6.96	**Nitrate**	MB*	0.534	2.216	5.1288
TOTAL:				19.63	122.81	468.82



Peak Integration Report

Sample Name:	**L2432352-07; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 02:08**	*Run Time:*	**10.00**

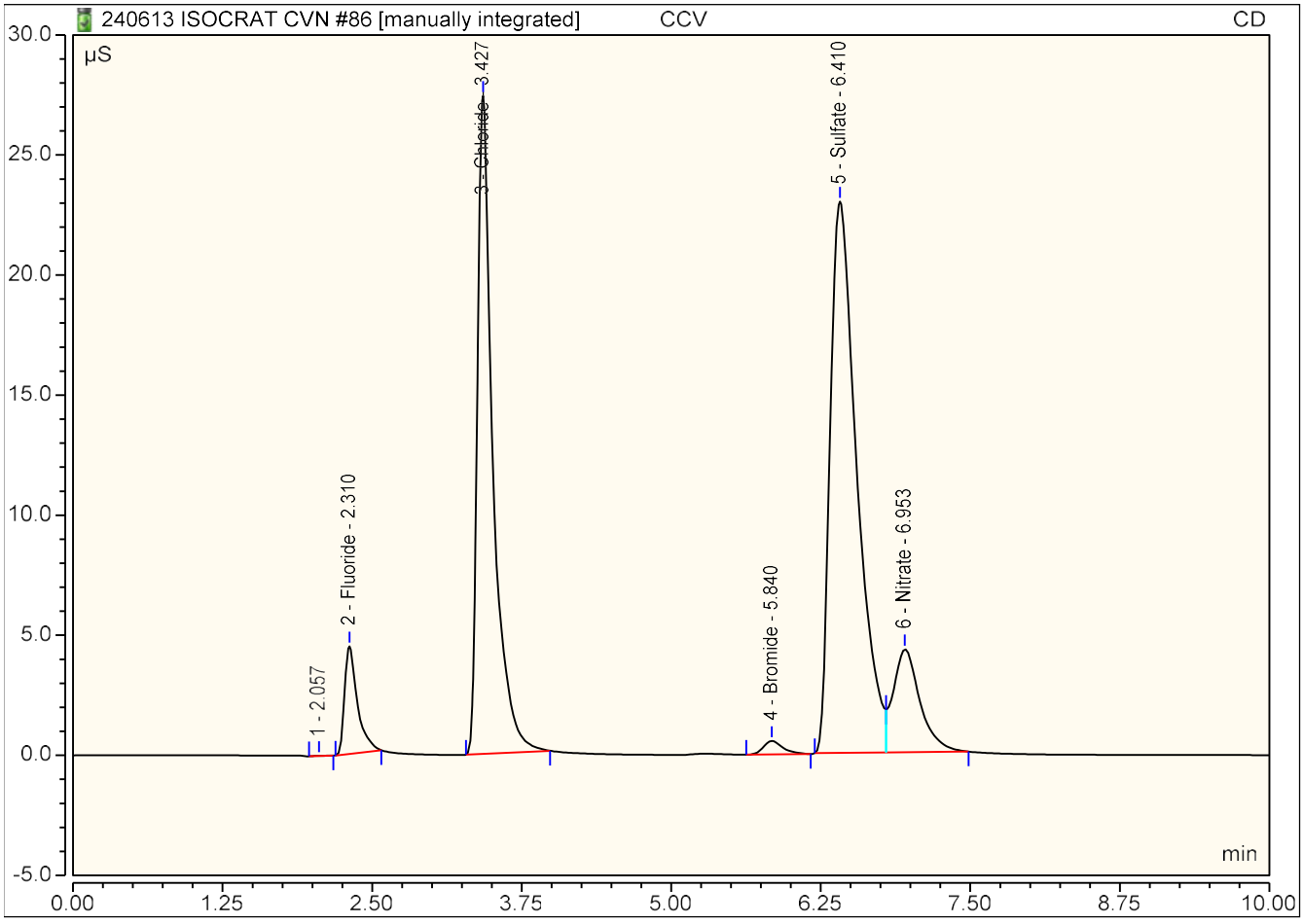
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	9.656	63.107	569.6770
5	6.51	**Sulfate**	BM *	0.401	1.790	42.8370
6	6.98	**Nitrate**	MB*	0.055	0.221	2.0155
TOTAL:				10.11	65.12	614.53



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 02:20**	*Run Time:*	**10.00**

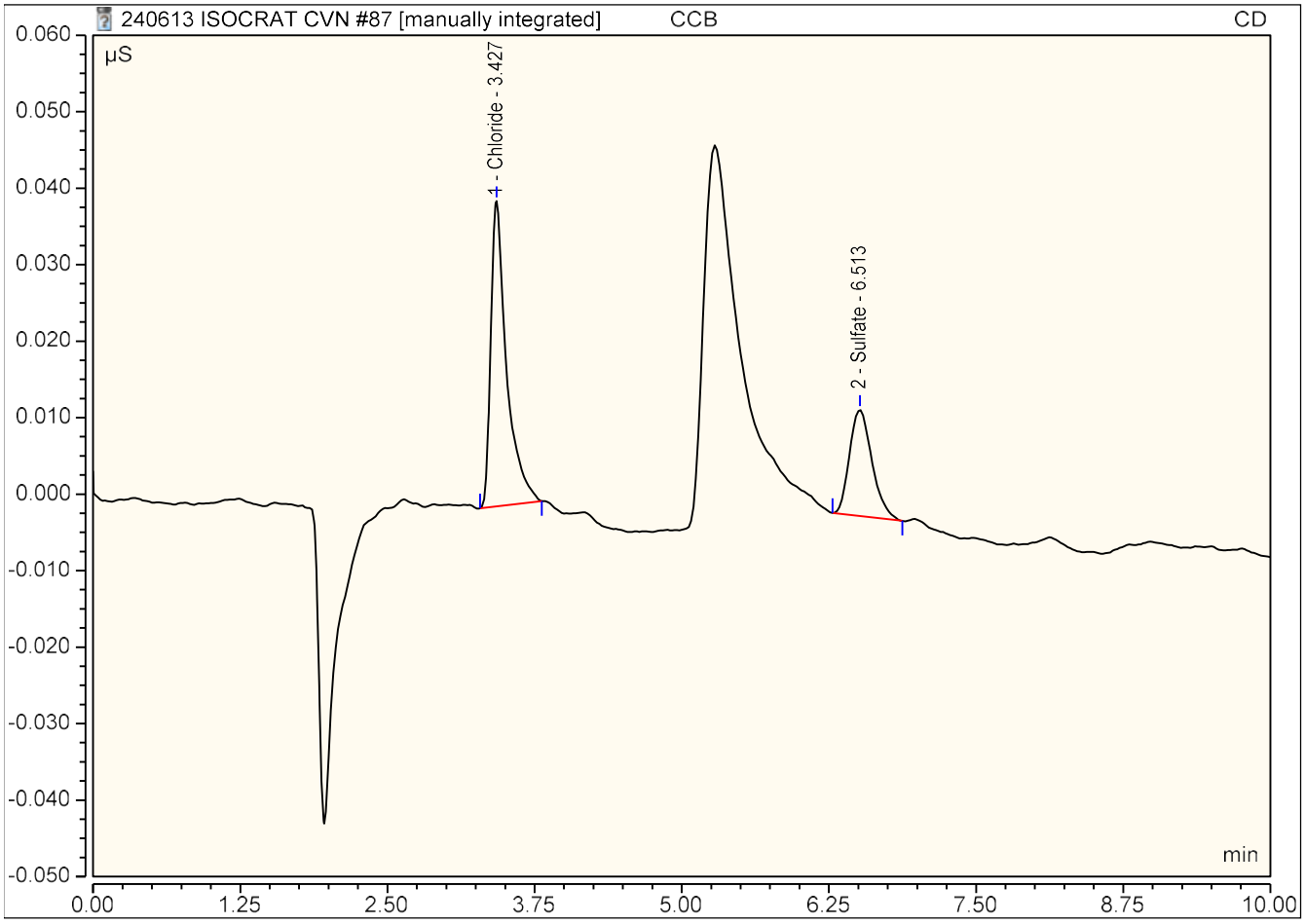
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.555	4.476	0.9801
3	3.43	**Chloride**	BMB*	4.104	27.407	9.8192
4	5.84	**Bromide**	BMB	0.106	0.565	0.9285
5	6.41	**Sulfate**	BM *	5.944	22.963	19.6260
6	6.95	**Nitrate**	MB*	1.112	4.288	1.0341
TOTAL:				11.82	59.70	32.39



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**14-Jun-2024 / 02:32**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.43	**Chloride**	BMB*	0.006	0.040	0.2478
2	6.51	**Sulfate**	BMB	0.003	0.014	0.4263
TOTAL:				0.01	0.05	0.67



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2384	n.a.	0.4226	n.a.
2	STD 0.5	1.0	0.0680	0.4130	0.0513	0.7547	0.0483
3	STD 1.0	1.0	0.0818	0.6145	0.0661	1.1659	0.0688
4	STD 2.0	1.0	0.1890	1.9848	0.1826	3.9467	0.1901
5	STD 3.0	1.0	0.4596	4.9033	0.4653	9.8731	0.4567
6	STD 4.0	1.0	1.9544	19.7101	2.0097	39.5794	2.0111
7	STD 5.0	1.0	5.0222	50.1243	5.7047	100.1801	5.7054
8	RINSE	1.0	n.a.	0.2511	n.a.	0.4240	n.a.
9	CCV	1.0	1.0217	9.8927	1.0187	19.7747	0.9686
10	CCB	1.0	n.a.	0.2407	n.a.	0.4326	n.a.
11	ICV	1.0	0.7481	8.1903	0.7940	7.9583	0.8123
12	ICB	1.0	n.a.	0.2393	n.a.	0.4236	n.a.
13	BLK	1.0	n.a.	0.2396	n.a.	0.4236	n.a.
14	LCS	1.0	0.7474	8.2017	0.7915	7.9377	0.8101
15	BLK-2	1.0	n.a.	0.2402	n.a.	0.4238	n.a.
16	LCS-2	1.0	0.7547	8.1810	0.7988	7.9397	0.8113
17	L2432828-01 MS	1.0	0.3919	3.9525	0.3942	7.8424	0.3797
18	L2432828-01 DUP	1.0	n.a.	0.2445	n.a.	0.4257	n.a.
19	L2432828-01	1.0	n.a.	0.2448	n.a.	0.4241	n.a.
20	CCV	1.0	1.0194	9.8651	1.0421	19.6496	0.9635
21	CCB	1.0	n.a.	0.2423	n.a.	0.4271	n.a.
22	L2432828-02 MS	1.0	0.3830	3.8933	0.3922	7.7505	0.3704
23	L2432828-02 DUP	1.0	n.a.	0.2364	0.0317	0.4233	n.a.
24	L2432828-02	1.0	n.a.	0.2361	0.0319	0.4231	n.a.
25	XL2430662-01 BR CL SO4; 10X	10.0	1.4846	6.9581	0.3727	12.0049	n.a.
26	L2430662-02; 10X CL	10.0	0.5291	57.9392	0.3245	4.4347	n.a.
27	L2430662-03; 10X CL	10.0	0.5700	59.6996	0.3435	4.3378	n.a.
28	XL2430662-04; 10X	10.0	0.5687	30.3903	0.3345	4.8423	n.a.
29	XL2430662-05; 10X CL	10.0	0.5520	49.7232	0.3302	9.8456	n.a.
30	XL2430662-06; 10X	10.0	0.5688	3.1689	n.a.	11.3934	n.a.
31	XL2430662-07; 10X	10.0	0.5657	27.4760	0.5222	5.0534	n.a.
32	CCV	1.0	1.0086	9.8870	1.0279	19.6663	0.9519
33	CCB	1.0	n.a.	0.2434	n.a.	0.4314	n.a.
34	XL2430662-08; 10X	10.0	0.5607	48.4499	n.a.	4.5212	n.a.
35	XL2430662-09; 10X	10.0	0.5574	26.9514	0.4240	7.7658	n.a.
36	XL2430662-10; 10X	10.0	0.5655	40.9933	n.a.	6.4783	n.a.
37	L2432352-01 CL SO4 BR	1.0	0.1286	283.0962	1.0776	24.3126	0.7928
38	L2432352-02	1.0	0.1118	80.9771	16.9777	32.4236	0.1180
39	L2432352-03	1.0	0.0788	45.7444	1.8515	5.7355	0.0401
40	L2432352-04	1.0	0.1427	60.2654	0.2430	22.3883	0.3295
41	L2432352-05	1.0	0.0590	486.0303	2.8170	16.0845	0.0985
42	XL2432352-05; 10X	10.0	0.5250	534.6642	2.7295	18.2873	n.a.
43	L2430662-12	1.0	n.a.	0.2558	n.a.	0.4290	n.a.
44	CCV	1.0	0.9772	9.8490	1.0393	19.7154	0.9192
45	CCB	1.0	n.a.	0.2459	n.a.	0.4264	n.a.

46	L2432352-06	1.0	0.1696	133.3679	n.a.	13.4960	0.3077
47	L2432352-07	1.0	0.0720	557.8600	1.7750	40.4003	0.2322
48	L2432352-08	1.0	0.0850	394.1621	5.4426	38.7062	0.2798
49	L2432633-01 BR	1.0	0.0647	6.1943	1.0014	7.7431	n.a.
50	L2432633-02	1.0	0.0766	13.5646	0.4257	27.3420	0.0453
51	L2432633-03	1.0	0.0677	3.0693	1.7710	20.6178	n.a.
52	L2432633-04	1.0	0.0612	25.9593	2.1795	13.8441	0.0403
53	L2430662-01 MS	1.0	1.6427	9.2601	0.4768	17.1157	0.3710
54	L2430662-01 DUP	1.0	1.2444	5.4992	0.0852	9.5330	n.a.
55	L2430662-01	1.0	1.2744	5.4923	0.0812	9.5144	n.a.
56	CCV	1.0	0.9961	9.8760	1.0491	19.6922	0.9131
57	CCB	1.0	n.a.	0.2483	n.a.	0.4260	n.a.
58	L2430662-02	1.0	0.1022	58.3778	0.0497	0.5380	n.a.
59	L2430662-03	1.0	0.1026	58.2910	0.0592	0.4994	n.a.
60	L2430662-04	1.0	0.1023	30.7367	0.0608	1.1331	n.a.
61	L2430662-05	1.0	0.0858	48.8954	0.0456	7.6900	n.a.
62	L2430662-06	1.0	0.1000	1.2874	n.a.	9.5176	n.a.
63	L2430662-07	1.0	0.0968	26.9309	0.3139	1.3677	n.a.
64	L2432728-01 BR CL SO4	1.0	0.0803	65.4899	3.1920	41.8447	0.0491
65	L2432728-01; 10X CL	10.0	0.5473	67.6466	2.9604	43.4834	n.a.
66	L2432728-02	1.0	0.1158	13.4291	1.5962	22.9719	n.a.
67	XL2432728-02; 10X	10.0	0.5826	14.6241	1.6028	24.8217	n.a.
68	CCV	1.0	0.9853	9.8210	1.0542	19.6723	0.9176
69	CCB	1.0	n.a.	0.2469	n.a.	0.4272	n.a.
70	L2432728-03	1.0	0.0742	141.9499	7.6992	55.7773	0.0510
71	L2432728-03; 10X CL	10.0	0.5418	148.3303	7.2002	58.9260	n.a.
72	L2432728-04	1.0	0.0607	32.5088	3.2318	9.9914	0.1121
73	XL2432728-04; 10X	10.0	0.5289	33.4743	2.9415	11.8115	0.4005
74	L2430662-08	1.0	0.0946	47.5826	n.a.	0.7238	n.a.
75	L2430662-09	1.0	0.0890	26.2294	0.1764	5.1797	n.a.
76	L2430662-10	1.0	0.0986	40.2600	n.a.	3.3103	n.a.
77	L2432352-01; 10X CL	10.0	0.5786	281.7389	1.0893	24.4950	0.7660
78	L2432352-02; 10X	10.0	0.5209	83.2515	16.2289	35.0922	0.3965
79	L2432352-04; 10X	10.0	0.5917	61.4141	0.4702	23.5602	n.a.
80	CCV	1.0	0.9914	9.8407	1.0209	19.6326	0.9186
81	CCB	1.0	n.a.	0.2471	n.a.	0.4272	n.a.
82	L2432352-05; 25X CL	25.0	n.a.	499.7047	2.7213	21.1385	n.a.
83	L2432352-06; 10X	10.0	0.6109	133.3229	n.a.	14.8474	0.4895
84	L2432352-08; 10X	10.0	0.5521	421.3198	5.1288	41.3487	0.4684
85	L2432352-07; 25X	25.0	n.a.	569.6770	2.0155	42.8370	n.a.
86	CCV	1.0	0.9801	9.8192	1.0341	19.6260	0.9285
87	CCB	1.0	n.a.	0.2478	n.a.	0.4263	n.a.
	Sum:	315.000	37.3642		120.3701	1251.1530	24.5334
	Average:	3.621	0.5577		1.9106	14.3811	0.6456
	Rel.Std.Dev:	138.879 %	1.2615		1.6631	1.1640	1.4578

Inject Time	Comment
12/Jun/2024 16:46	AU
12/Jun/2024 16:58	LOT#240606-0.5
12/Jun/2024 17:10	LOT#240606-1.0
12/Jun/2024 17:22	LOT#240606-2.0
12/Jun/2024 17:34	LOT#240606-3.0
12/Jun/2024 17:46	LOT#240606-4.0
12/Jun/2024 17:58	LOT#240508-5.0
13/Jun/2024 10:37	NG1933982-983-990
13/Jun/2024 10:49	LOT#240611-C
13/Jun/2024 11:01	CVN
13/Jun/2024 11:14	LOT#240611-I
13/Jun/2024 11:26	CVN
13/Jun/2024 11:38	CVN
13/Jun/2024 11:50	LOT#240611-I
13/Jun/2024 12:02	CVN
13/Jun/2024 12:14	LOT#240611-I
13/Jun/2024 12:26	CVN
13/Jun/2024 12:38	CVN
13/Jun/2024 12:50	CVN
13/Jun/2024 13:02	LOT#240611-C
13/Jun/2024 13:14	CVN
13/Jun/2024 13:27	CVN
13/Jun/2024 13:39	CVN
13/Jun/2024 13:51	CVN
13/Jun/2024 14:03	CVN
13/Jun/2024 14:15	CVN
13/Jun/2024 14:27	CVN
13/Jun/2024 14:39	CVN
13/Jun/2024 14:51	CVN
13/Jun/2024 15:03	CVN
13/Jun/2024 15:15	CVN
13/Jun/2024 15:27	LOT#240611-C
13/Jun/2024 15:40	CVN
13/Jun/2024 15:52	CVN
13/Jun/2024 16:04	CVN
13/Jun/2024 16:16	CVN
13/Jun/2024 16:28	CVN
13/Jun/2024 16:40	CVN
13/Jun/2024 16:52	CVN
13/Jun/2024 17:04	CVN
13/Jun/2024 17:16	CVN
13/Jun/2024 17:28	CVN
13/Jun/2024 17:40	CVN
13/Jun/2024 17:53	LOT#240611-C
13/Jun/2024 18:05	CVN

13/Jun/2024 18:17	CVN
13/Jun/2024 18:29	CVN
13/Jun/2024 18:41	CVN
13/Jun/2024 18:53	CVN
13/Jun/2024 19:05	CVN
13/Jun/2024 19:17	CVN
13/Jun/2024 19:29	CVN
13/Jun/2024 19:41	CVN
13/Jun/2024 19:53	CVN
13/Jun/2024 20:05	CVN
13/Jun/2024 20:18	LOT#240611-C
13/Jun/2024 20:30	CVN
13/Jun/2024 20:42	CVN
13/Jun/2024 20:54	CVN
13/Jun/2024 21:06	CVN
13/Jun/2024 21:18	CVN
13/Jun/2024 21:30	CVN
13/Jun/2024 21:42	CVN
13/Jun/2024 21:54	CVN
13/Jun/2024 22:06	CVN
13/Jun/2024 22:18	CVN
13/Jun/2024 22:30	CVN
13/Jun/2024 22:43	LOT#240611-C
13/Jun/2024 22:55	CVN
13/Jun/2024 23:07	CVN
13/Jun/2024 23:19	CVN
13/Jun/2024 23:31	CVN
13/Jun/2024 23:43	CVN
13/Jun/2024 23:55	CVN
14/Jun/2024 00:07	CVN
14/Jun/2024 00:19	CVN
14/Jun/2024 00:31	CVN
14/Jun/2024 00:43	CVN
14/Jun/2024 00:56	CVN
14/Jun/2024 01:08	LOT#240611-C
14/Jun/2024 01:20	CVN
14/Jun/2024 01:32	CVN
14/Jun/2024 01:44	CVN
14/Jun/2024 01:56	CVN
14/Jun/2024 02:08	CVN
14/Jun/2024 02:20	LOT#240611-C
14/Jun/2024 02:32	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2430662-01		
Matrix Spike	: WG1933990-3	**MS Analysis Date**	: 06/13/24 19:41
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	**ND**	**0.4**	**0.371**	**93**					**90-110**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/13/24 20:05
Dup Sample ID	: WG1933990-4	**DUP Analysis Date**	: 06/13/24 19:53

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2432633
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1933990-2	**LCS Analysis Date**	: 06/13/24 11:50
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.810	101.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

June 14, 2024

Jennifer Byrnes

,

RE: Project: L2432633
Pace Project No.: 70301121

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2432633
Pace Project No.: 70301121

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2432633
Pace Project No.: 70301121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301121001	**MW-11S**	Water	06/11/24 10:50	06/11/24 14:45
70301121002	**MW-11D**	Water	06/11/24 10:52	06/11/24 14:45
70301121003	**MW-13S**	Water	06/11/24 12:23	06/11/24 14:45
70301121004	**MW-13D**	Water	06/11/24 12:35	06/11/24 14:45

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Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: L2432633
Pace Project No.: 70301121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301121001	**MW-11S**	SM22 4500-S2 F	JWM	1
70301121002	**MW-11D**	SM22 4500-S2 F	JWM	1
70301121003	**MW-13S**	SM22 4500-S2 F	JWM	1
70301121004	**MW-13D**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: L2432633
Pace Project No.: 70301121

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: June 14, 2024

General Information:
4 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-11S **Lab ID: 70301121001** Collected: 06/11/24 10:50 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/14/24 15:02		

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-11D **Lab ID: 70301121002** Collected: 06/11/24 10:52 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**0.48J**	mg/L	2.0	0.20	1		06/14/24 15:05		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-13S **Lab ID: 70301121003** Collected: 06/11/24 12:23 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/14/24 15:08		

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-13D **Lab ID: 70301121004** Collected: 06/11/24 12:35 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/14/24 15:11		

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: L2432633
Pace Project No.: 70301121

QC Batch: 351738
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301121001, 70301121002, 70301121003, 70301121004

METHOD BLANK: 1821324 Matrix: Water
Associated Lab Samples: 70301121001, 70301121002, 70301121003, 70301121004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	06/14/24 14:57	

LABORATORY CONTROL SAMPLE & LCSD: 1821325 1821326

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2432633
Pace Project No.: 70301121

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2432633
Pace Project No.: 70301121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301121001	**MW-11S**	SM22 4500-S2 F	351738		
70301121002	**MW-11D**	SM22 4500-S2 F	351738		
70301121003	**MW-13S**	SM22 4500-S2 F	351738		
70301121004	**MW-13D**	SM22 4500-S2 F	351738		

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ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2432633

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432633

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL,
Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-11S	06-11-24 10:50	WATER	Sulfide	
	MW-11D	06-11-24 10:52	WATER	Sulfide	
	MW-13S	06-11-24 12:23	WATER	Sulfide	
	MW-13D	06-11-24 12:35	WATER	Sulfide	

WO# : 70301121
70301121

	Relinquished By:	Date/Time:	Received By:	Date/Time:
			PACEL	6/11/24 14:45
Form No: AL_subcoc				

DCe_Title: Excel Form Template
Effective Date:

Client: ALPHA

Profile #: 10678

Work ID: L2432633

COC Page _____ of _____

☐ Use Point Number Spreadsheet ☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Comments	VG9U	VG9C	VG9H	VG9S	VG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	AG5U	AG44	CG1U	WG9O	WG4O	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	TEDL	BGIH	LLHG	BG1N	OC	SOC
1																																										2																					
2																																										2																					
3																																										2																					
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10																																																																
11																																																																
12																																																																

WO#: 70301121
PM: BDR Due Date: 06/21/24
CLIENT: ALPHA

Container Codes

Glass				Plastic	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic
VG9S	40mL Sulfuric clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
VG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic
DG9P	40mL amber vial + TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma
WG9O	8oz clear soil jar	AG1A	(NH4Cl)	BP35	250mL Ammonium Acetate
WG4O	4oz clear soil jar	AG5U	100mL unpres Amber Glass	BP3R	250mL NH4SO4-NH4OH
		AG44	Ammonium Cl 120mL bottle	BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe
LLHG	Low Level Hg Bottles
BG1N	1L HNO3 Clear Glass

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass
BP3U	250mL unpreserved plastic

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

WO#: 70301121
PM: BDR Due Date: 06/21/24
CLIENT: ALPHA

Client Name: Alpha Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplock ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: T#197 Correction Factor: -.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.5 Cooler Temperature Corrected(°C): ~~3.5~~ 3.4 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AD 6/11/24

				COMMENTS:
Chain of Custody Present:	~~☑Yes~~	☐No		1.
Chain of Custody Filled Out:	~~☑Yes~~	☐No		2.
Chain of Custody Relinquished:	~~☑Yes~~	☐No		3.
Sampler Name & Signature on COC:	~~☑Yes~~	☐No	☐N/A	4.
Samples Arrived within Hold Time:	~~☑Yes~~	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	~~☑No~~		6.
Rush Turn Around Time Requested	☐Yes	~~☑No~~		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	~~☑Yes~~	☐No		8.
Correct Containers Used:	~~☑Yes~~	☐No		9.
-Pace Containers Used:	~~☑Yes~~	☐No		
Containers Intact:	~~☑Yes~~	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	~~☑N/A~~	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	~~☑Yes~~	☐No		12.
Matrix:	SL	WT	OIL	OTHER

Date and Initials of person checking preservation: AD 6/11/24

All containers needing preservation have been checked.	☐Yes	☐No	~~☑N/A~~	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	~~☑N/A~~	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	~~☑N/A~~	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	~~☑N/A~~	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	~~☑N/A~~	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	~~☑N/A~~	16.
Trip Blank Present:	☐Yes	☐No	~~☑N/A~~	17.
Trip Blank Custody Seals Present	☐Yes	☐No	~~☑N/A~~	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Laboratory Report

Report prepared for:
Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA USA 01581
Phone: 508-898-9220
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:
Ej M Camacho

Purchase Order:

For further assistance, contact:
Kim Carter
Techical Manager - Chromatography
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335 ext. 1839
kimcarter@galbraith.com

Sample: MW-11S
Lab ID: 2024-U-4419 **Received:** 2024-06-13

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.46 mg	2024-06-17

Sample: MW-11D
Lab ID: 2024-U-4420 **Received:** 2024-06-13

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	200.90 mg	2024-06-17

Sample: MW-13S
Lab ID: 2024-U-4421 **Received:** 2024-06-13

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.74 mg	2024-06-17

Sample: MW-13D
Lab ID: 2024-U-4422 **Received:** 2024-06-13

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.64 mg	2024-06-17

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Reported results are only applicable to the item tested.
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Signatures:

Published By:	EJ.M.Camacho	2024-06-20T15:28:11.573-04:00
Created By:	EJ.M.Camacho	2024-06-20T15:27:49.217-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 25, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2432633
Pace Project No.: 50375773

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2432633
Pace Project No.: 50375773

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2432633
Pace Project No.: 50375773

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50375773001	MW-11S	Water	06/11/24 10:50	06/13/24 09:35
50375773002	MW-11D	Water	06/11/24 10:52	06/13/24 09:35
50375773003	MW-13S	Water	06/11/24 12:23	06/13/24 09:35
50375773004	MW-13D	Water	06/11/24 12:35	06/13/24 09:35

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Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: L2432633
Pace Project No.: 50375773

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50375773001	MW-11S	EPA 9056	ADM	1
50375773002	MW-11D	EPA 9056	ADM	1
50375773003	MW-13S	EPA 9056	ADM	1
50375773004	MW-13D	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-11S Lab ID: 50375773001 Collected: 06/11/24 10:50 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 17:06		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-11D Lab ID: 50375773002 Collected: 06/11/24 10:52 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 17:28		

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-13S Lab ID: 50375773003 Collected: 06/11/24 12:23 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 17:50		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-13D Lab ID: 50375773004 Collected: 06/11/24 12:35 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 18:12		

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2432633
Pace Project No.: 50375773

QC Batch: 796576
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50375773001, 50375773002, 50375773003, 50375773004

METHOD BLANK: 3644656 Matrix: Water
Associated Lab Samples: 50375773001, 50375773002, 50375773003, 50375773004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/22/24 13:14	

LABORATORY CONTROL SAMPLE: 3644657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644658 3644659

Parameter	Units	50376107003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	95	94	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2432633
Pace Project No.: 50375773

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2432633
Pace Project No.: 50375773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50375773001	MW-11S	EPA 9056	796576		
50375773002	MW-11D	EPA 9056	796576		
50375773003	MW-13S	EPA 9056	796576		
50375773004	MW-13D	EPA 9056	796576		

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Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2432633

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432633

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com Report to MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-11S	06-11-24 10:50	WATER	Iodide 001	
	MW-11D	06-11-24 10:52	WATER	Iodide 002	
	MW-13S	06-11-24 12:23	WATER	Iodide 003	
	MW-13D	06-11-24 12:35	WATER	Iodide 004	

WO#: 50375773

50375773

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	C. Gleason FE	6/12/24 6/13 09:35	FE Andrew/Pace	6/13 09:35

Form No: AL_subcoc

F-IN-Q-290-rev.26, 30Apr2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/13 10:40 JS

1. **Courier:** ☑ FED EX | UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT | OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 0.7/0.5 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** | Bubble Wrap | | Bubble Bags ☑ None | | Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** | Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** | Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A ✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																		1										WT				
2																		1														
3																		2														
4																		2														
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70301121

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

Certifications . . . 2

Sample Summary . . . 3

Sample Analyte Count . . . 4

Project Narrative . . . 5

Analytical Results . . . 6

Quality Control Data . . . 10

Qualifiers . . . 11

Quality Control Data Cross Reference Table . . . 12

Chain of Custody . . . 13

InOrganic

Wet Chemistry

Analytical Results (Form 1-IN) . . . 16

Blanks (Form 3-IN) . . . 20

Duplicates (Form 6-IN) . . . 21

Laboratory Control Spike (Form 7-IN) . . . 22

Preparation Log (Form 12-IN) . . . 24

Analysis Run Log (Form 13-IN) . . . 25

Preparation Logs Raw Data . . . 26

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

June 14, 2024

Jennifer Byrnes

,

RE: Project: L2432633
Pace Project No.: 70301121

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2432633
Pace Project No.: 70301121

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2432633
Pace Project No.: 70301121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301121001	**MW-11S**	Water	06/11/24 10:50	06/11/24 14:45
70301121002	**MW-11D**	Water	06/11/24 10:52	06/11/24 14:45
70301121003	**MW-13S**	Water	06/11/24 12:23	06/11/24 14:45
70301121004	**MW-13D**	Water	06/11/24 12:35	06/11/24 14:45

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: L2432633
Pace Project No.: 70301121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301121001	**MW-11S**	SM22 4500-S2 F	JWM	1
70301121002	**MW-11D**	SM22 4500-S2 F	JWM	1
70301121003	**MW-13S**	SM22 4500-S2 F	JWM	1
70301121004	**MW-13D**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: L2432633
Pace Project No.: 70301121

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: June 14, 2024

General Information:
4 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-11S **Lab ID: 70301121001** Collected: 06/11/24 10:50 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/14/24 15:02		

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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-11D **Lab ID: 70301121002** Collected: 06/11/24 10:52 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**0.48J**	mg/L	2.0	0.20	1		06/14/24 15:05		

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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-13S **Lab ID: 70301121003** Collected: 06/11/24 12:23 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/14/24 15:08		

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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 70301121

Sample: MW-13D **Lab ID: 70301121004** Collected: 06/11/24 12:35 Received: 06/11/24 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/14/24 15:11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L2432633
Pace Project No.: 70301121

QC Batch: 351738
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301121001, 70301121002, 70301121003, 70301121004

METHOD BLANK: 1821324 Matrix: Water
Associated Lab Samples: 70301121001, 70301121002, 70301121003, 70301121004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	06/14/24 14:57	

LABORATORY CONTROL SAMPLE & LCSD: 1821325 1821326

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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516-370-6000

QUALIFIERS

Project: L2432633
Pace Project No.: 70301121

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Melville, NY 11747
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2432633
Pace Project No.: 70301121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301121001	**MW-11S**	SM22 4500-S2 F	351738		
70301121002	**MW-11D**	SM22 4500-S2 F	351738		
70301121003	**MW-13S**	SM22 4500-S2 F	351738		
70301121004	**MW-13D**	SM22 4500-S2 F	351738		

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Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2432633

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432633

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL,
Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-11S	06-11-24 10:50	WATER	Sulfide	
	MW-11D	06-11-24 10:52	WATER	Sulfide	
	MW-13S	06-11-24 12:23	WATER	Sulfide	
	MW-13D	06-11-24 12:35	WATER	Sulfide	

WO# : 70301121
70301121

	Relinquished By:	Date/Time:	Received By:	Date/Time:
			PACEL	6/11/24 14:45
Form No: AL_subcoc				

Client: ALPHA

Work ID: L2432633

Profile #: 10678

COC Page _____ of _____

☐ Use Point Number Spreadsheet ☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Vials	VG9U	VG9C	VG9H	VG9S	VG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	AG5U	AG44	CG1U	WG9O	WG4O	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	TEDL	BG1H	LLHG	BG1N	IOC	SOC
1																																										1																					
2																																										1																					
3																																										1																					
4																																										1																					
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10																																																															
11																																																															
12																																																															

WO#: 70301121

PM: BDR **Due Date: 06/21/24**

CLIENT: ALPHA

Container Codes

Glass				Plastic	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic
VG9S	40mL Sulfuric clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
VG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma
WG9O	8oz clear soil jar	AG1A	(NH4Cl)	BP3S	250mL Ammonium Acetate
WG4O	4oz clear soil jar	AG5U	100mL unpres Amber Glass	BP3R	250mL NH4SO4-NH4OH
		AG44	Ammonium Cl 120mL bottle	BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe
LLHG	Low Level Hg Bottles
BG1N	1L HNO3 Clear Glass

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass
BP3U	250mL unpreserved plastic

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301121
PM: BDR Due Date: 06/21/24
CLIENT: ALPHA

Client Name: Alpha Project:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: 4H197 Correction Factor: -.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.5 Cooler Temperature Corrected(°C): 3.5 3.4 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AD 6/11/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: AD 6/11/24

All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

SAMPLE NO.

MW-11S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Lab Sample ID: 70301121001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/14/2024 15:02

SAMPLE NO.

MW-11D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Lab Sample ID: 70301121002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	0.48	J	mg/L	1	06/14/2024 15:05

SAMPLE NO.

MW-13S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Lab Sample ID: 70301121003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/14/2024 15:08

SAMPLE NO.

MW-13D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Lab Sample ID: 70301121004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/14/2024 15:11

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract : L2432633

Method Blank Matrix: Water Instrument ID: 70WET0

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1821324	C
Sulfide									<0.20	U

SAMPLE NO.

1821326LCSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

1821325LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

1821326LCSD

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Preparation Method: SM22 4500-S2 F Batch: WET 81327

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
1821324	1821324BLANK	06/14/2024	200	200
1821325	1821325LCS	06/14/2024	200	200
1821326	1821326LCSD	06/14/2024	200	200
70301121001	MW-11S	06/14/2024	250	250
70301121002	MW-11D	06/14/2024	250	250
70301121003	MW-13S	06/14/2024	250	250
70301121004	MW-13D	06/14/2024	250	250

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70301121 Contract: L2432633

Instrument ID: 70WET0 Analysis Method: SM22 4500-S2 F

Start Date: 06/14/2024 14:57 End Date: 06/14/2024 15:11

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
1821324BLANK	1821324	1	06/14/2024	14:57	X
1821325LCS	1821325	1	06/14/2024	14:58	X
1821326LCSD	1821326	1	06/14/2024	14:59	X
MW-11S	70301121001	1	06/14/2024	15:02	X
MW-11D	70301121002	1	06/14/2024	15:05	X
MW-13S	70301121003	1	06/14/2024	15:08	X
MW-13D	70301121004	1	06/14/2024	15:11	X

Prep Log Report

Batch Information: WET_SULFDIE_81327_06/14/24

4500S2F | Sulfide

Analysis Method	SM22 4500-S2 F	Instrument	70WET0	Analyzed By	JWM	1:1 HCl	182477
Starch Indicator Solution	180078	Reviewed By	SDO	Reviewed By Date	06/14/2024 15:50	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (mL)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	**1821324**	Y	200	183291 (5)	10.8	15.8	183216 (5.00)	0.00	mg/L	06/14/2024 14:57:29	Yes	163130 ()	
4500S2F W	LCS	**1821325**	Y	200	183291 (10)	15.8	18.8	183216 (3.00)	14.00	mg/L	06/14/2024 14:58:32	Yes	163130 ()	
4500S2F W	LCSD	**1821326**	Y	200	183291 (10)	18.8	21.8	183216 (3.00)	14.00	mg/L	06/14/2024 14:59:34	Yes	163130 ()	
4500S2F W	PS	**70301121001**	Y	250	183291 (5)	21.8	26.7	183216 (4.90)	0.16	mg/L	06/14/2024 15:02:38	Yes	163130 ()	
4500S2F W	PS	**70301121002**	Y	250	183291 (5)	26.7	31.4	183216 (4.70)	0.48	mg/L	06/14/2024 15:05:41	Yes	163130 ()	
4500S2F W	PS	**70301121003**	Y	250	183291 (5)	31.4	36.4	183216 (5.00)	0.00	mg/L	06/14/2024 15:08:43	Yes	163130 ()	
4500S2F W	PS	**70301121004**	Y	250	183291 (5)	36.4	41.4	183216 (5.00)	0.00	mg/L	06/14/2024 15:11:46	Yes	163130 ()	
4500S2F W	PS	**70301142001**	Y	1000	183291 (5)	41.4	46	183216 (4.60)	0.16	mg/L	06/14/2024 15:15:49	Yes	163130 ()	

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	**1821324**	
4500S2F W	LCS	**1821325**	182594 (1)
4500S2F W	LCSD	**1821326**	182594 (1)
4500S2F W	PS	**70301121001**	
4500S2F W	PS	**70301121002**	
4500S2F W	PS	**70301121003**	
4500S2F W	PS	**70301121004**	
4500S2F W	PS	**70301142001**	

Prep Log Report

Standard Notes:

182594: Wet Sulfide LCS/ Second Source 5mL

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50375773

Table Of Contents

Project Overview

Final Report with COC/SCUR 1

Certifications 2

Sample Summary 3

Sample Analyte Count 4

Analytical Results 5

Quality Control Data 9

Qualifiers 10

Quality Control Data Cross Reference Table 11

Chain of Custody 12

InOrganic

Ion Chromatography

Analytical Results (Form 1-IN) 15

Initial & Continuing Calibration Verification (Form 2A-IN) 19

Blanks (Form 3-IN) 20

Matrix Spike Recovery (Form 5A-IN) 21

Duplicates (Form 6-IN) 23

Laboratory Control Spike (Form 7-IN) 24

Preparation Log (Form 12-IN) 25

Analysis Run Log (Form 13-IN) 26

Ion Chromatography Raw Data (Multiple Schedules/Sample) 27

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 25, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2432633
Pace Project No.: 50375773

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2432633
Pace Project No.: 50375773

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2432633
Pace Project No.: 50375773

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50375773001	**MW-11S**	Water	06/11/24 10:50	06/13/24 09:35
50375773002	**MW-11D**	Water	06/11/24 10:52	06/13/24 09:35
50375773003	**MW-13S**	Water	06/11/24 12:23	06/13/24 09:35
50375773004	**MW-13D**	Water	06/11/24 12:35	06/13/24 09:35

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SAMPLE ANALYTE COUNT

Project: L2432633
Pace Project No.: 50375773

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50375773001	**MW-11S**	EPA 9056	ADM	1
50375773002	**MW-11D**	EPA 9056	ADM	1
50375773003	**MW-13S**	EPA 9056	ADM	1
50375773004	**MW-13D**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-11S **Lab ID: 50375773001** Collected: 06/11/24 10:50 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 17:06		

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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-11D **Lab ID: 50375773002** Collected: 06/11/24 10:52 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 17:28		

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Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-13S **Lab ID: 50375773003** Collected: 06/11/24 12:23 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 17:50		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2432633
Pace Project No.: 50375773

Sample: MW-13D **Lab ID: 50375773004** Collected: 06/11/24 12:35 Received: 06/13/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 18:12		

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2432633
Pace Project No.: 50375773

QC Batch: 796576
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50375773001, 50375773002, 50375773003, 50375773004

METHOD BLANK: 3644656 Matrix: Water
Associated Lab Samples: 50375773001, 50375773002, 50375773003, 50375773004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/22/24 13:14	

LABORATORY CONTROL SAMPLE: 3644657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644658 3644659

Parameter	Units	50376107003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	95	94	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2432633
Pace Project No.: 50375773

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2432633
Pace Project No.: 50375773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50375773001	**MW-11S**	EPA 9056	796576		
50375773002	**MW-11D**	EPA 9056	796576		
50375773003	**MW-13S**	EPA 9056	796576		
50375773004	**MW-13D**	EPA 9056	796576		

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Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2432633

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432633

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com Report to MDL/needs L4 and EDD 265
NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-11S	06-11-24 10:50	WATER	Iodide 001	
	MW-11D	06-11-24 10:52	WATER	Iodide 002	
	MW-13S	06-11-24 12:23	WATER	Iodide 003	
	MW-13D	06-11-24 12:35	WATER	Iodide 004	

WO# : 50375773
50375773

Relinquished By:	Date/Time:	Received By:	Date/Time:
C. Telesca	6/12/24	FE	
FE	6/13 09:35	Pace	6/13 09:35

Form No: AL_subcoc

F-IN-Q-290-rev.26, 30Apr2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/13 10:40 JS

1. **Courier:** ☑ FED EX | UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT | OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 0.7/0.5 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** | Bubble Wrap | | Bubble Bags ☑ None | | Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** | Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** | Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A ✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																		1									WT				
2																		1													
3																		2													
4																		2													
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

SAMPLE NO.

MW-11S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Lab Sample ID: 50375773001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 17:06

SAMPLE NO.

MW-11D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Lab Sample ID: 50375773002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 17:28

SAMPLE NO.

MW-13S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Lab Sample ID: 50375773003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 17:50

SAMPLE NO.

MW-13D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Lab Sample ID: 50375773004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 18:12

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Initial Calibration Verification Source: 371401

Continuing Calibration Verification Source: 385241

Concentration Units: mg/L Instrument ID: 50IC07

	Initial Calibration Verification				Continuing Calibration Verification						
	06/21/2024 19:00				06/22/2024 12:31			06/22/2024 19:39			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	4.7	94.1	90-110	1.0	1.1	106.3	1.0	0.99	99.1	90-110

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract : L2432633

Method Blank Matrix: Water Instrument ID: 50IC07

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	06/21/2024 19:21	C	06/22/2024 12:52	C	06/22/2024 20:01	C		C	3644656	C
Iodide	0.091	U	0.091	U	0.091	U			ND	U

SAMPLE NO.

3644658MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Matrix: Water Basis: Wet Parent Sample ID: 50376107003

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	95

SAMPLE NO.

3644659MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Matrix: Water Basis: Wet Parent Sample ID: 50376107003

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	94

SAMPLE NO.

3644659MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.7	4.7	1

SAMPLE NO.

3644657LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	4.7	94	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Preparation Method: EPA 9056 Batch: GCSV 56520

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3644656	3644656BLANK	06/22/2024	10	10
3644657	3644657LCS	06/22/2024	10	10
3644658	3644658MS	06/22/2024	10	10
3644659	3644659MSD	06/22/2024	10	10
50375773001	MW-11S	06/22/2024	10	10
50375773002	MW-11D	06/22/2024	10	10
50375773003	MW-13S	06/22/2024	10	10
50375773004	MW-13D	06/22/2024	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50375773 Contract: L2432633

Instrument ID: 50IC07 Analysis Method: EPA 9056

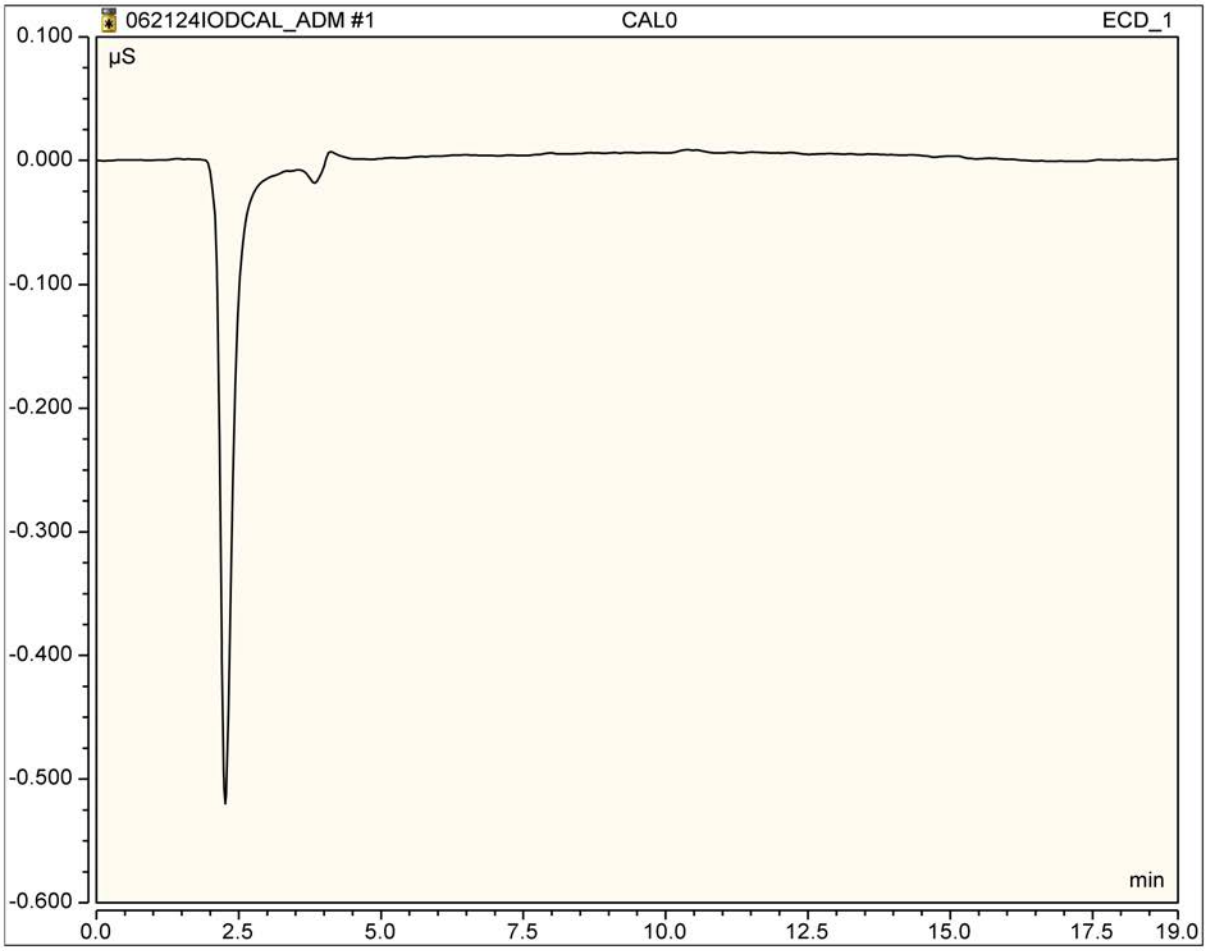
Start Date: 06/21/2024 16:49 End Date: 06/22/2024 20:45

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
25201351CAL0	25201351CAL0	1	06/21/2024	16:49	X
25201352CAL1	25201352CAL1	1	06/21/2024	17:10	X
25201353CAL2	25201353CAL2	1	06/21/2024	17:32	X
25201354CAL3	25201354CAL3	1	06/21/2024	17:54	X
25201355CAL4	25201355CAL4	1	06/21/2024	18:16	X
25201356CAL5	25201356CAL5	1	06/21/2024	18:38	X
25201357ICV	25201357ICV	1	06/21/2024	19:00	X
25201358ICB	25201358ICB	1	06/21/2024	19:21	X
25209567CCV	25209567CCV	1	06/22/2024	12:31	X
25209568CCB	25209568CCB	1	06/22/2024	12:52	X
3644656BLANK	3644656	1	06/22/2024	13:14	X
3644657LCS	3644657	1	06/22/2024	13:36	X
MW-11S	50375773001	1	06/22/2024	17:06	X
MW-11D	50375773002	1	06/22/2024	17:28	X
MW-13S	50375773003	1	06/22/2024	17:50	X
MW-13D	50375773004	1	06/22/2024	18:12	X
50376107003	50376107003	1	06/22/2024	19:17	X
25209569CCV	25209569CCV	1	06/22/2024	19:39	X
25209570CCB	25209570CCB	1	06/22/2024	20:01	X
3644658MS	3644658	1	06/22/2024	20:23	X
3644659MSD	3644659	1	06/22/2024	20:45	X

CAL0
371408

Sample Name:	**CAL0**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 16:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

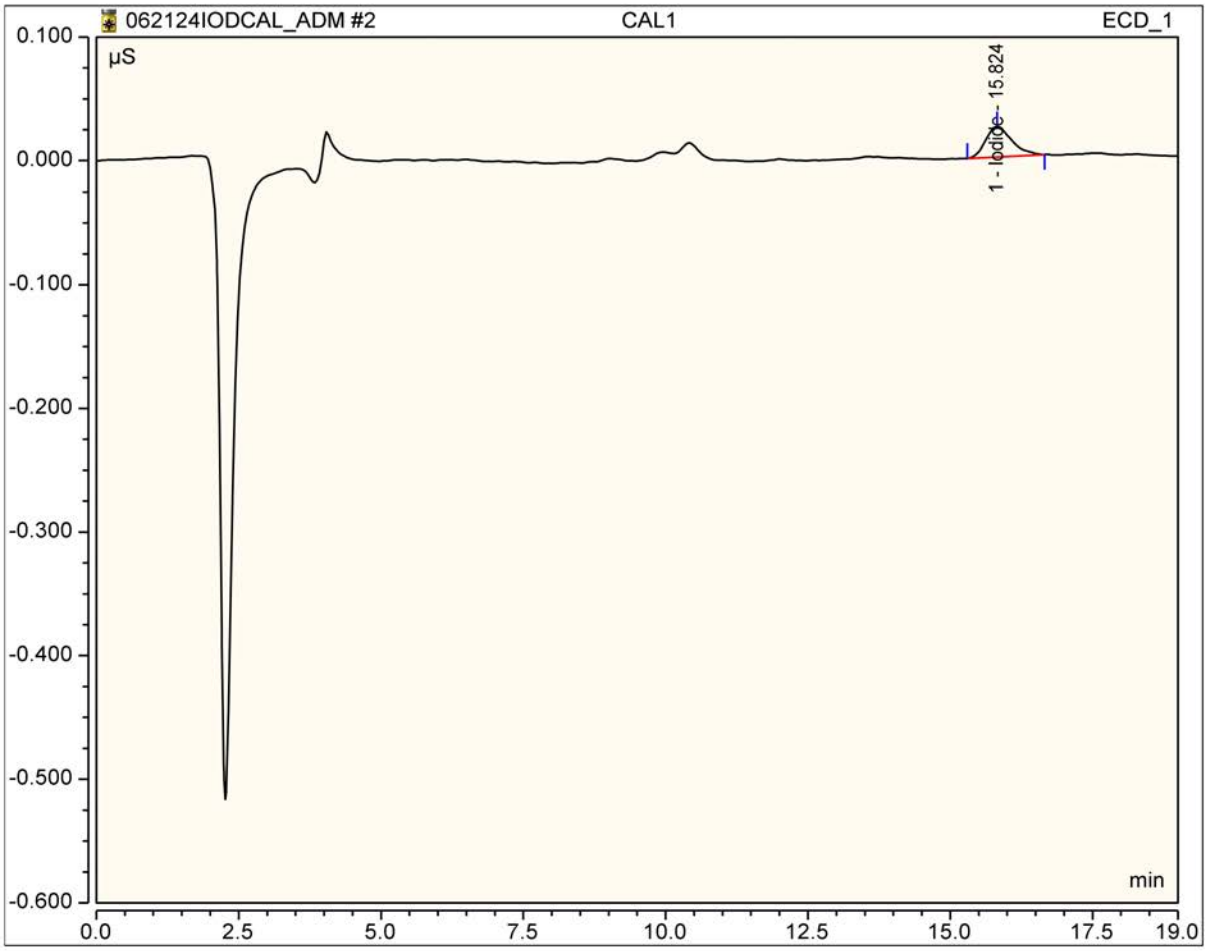
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
371407

Sample Name:	**CAL1**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

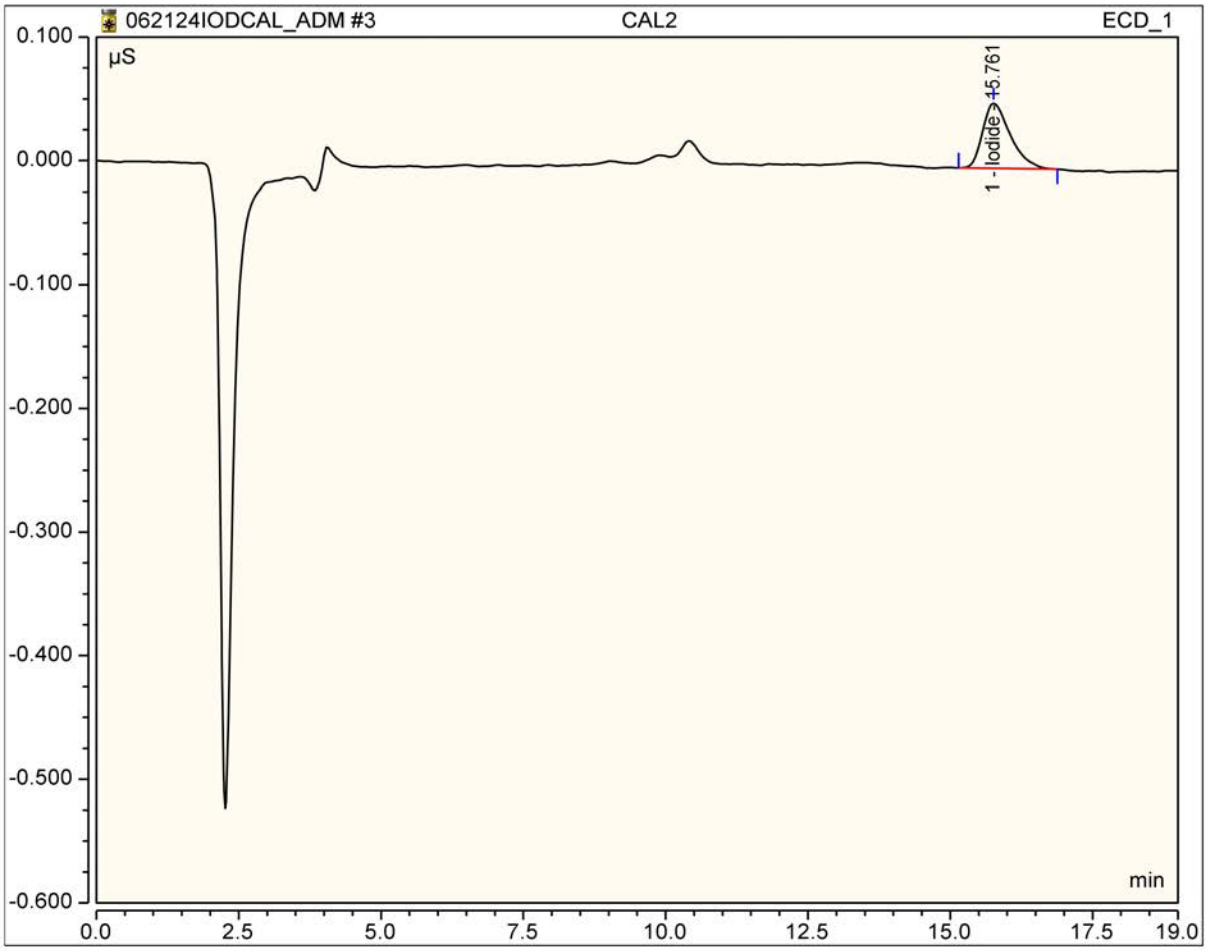
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.82	**Iodide**	0.4908	0.013	0.025	BMB



CAL2
371406

Sample Name:	**CAL2**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

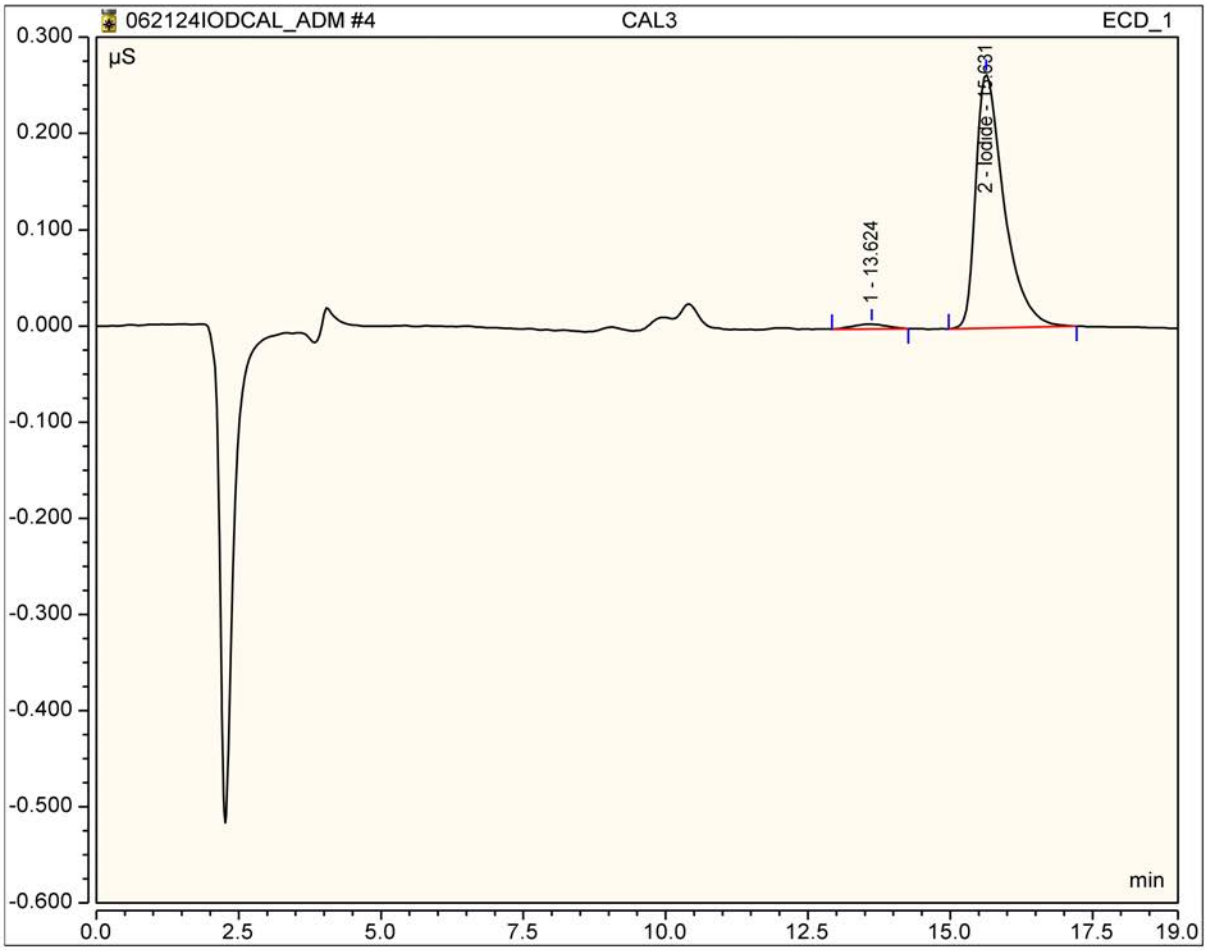
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0311	0.030	0.053	BMB



CAL3
371405

Sample Name:	**CAL3**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:54**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

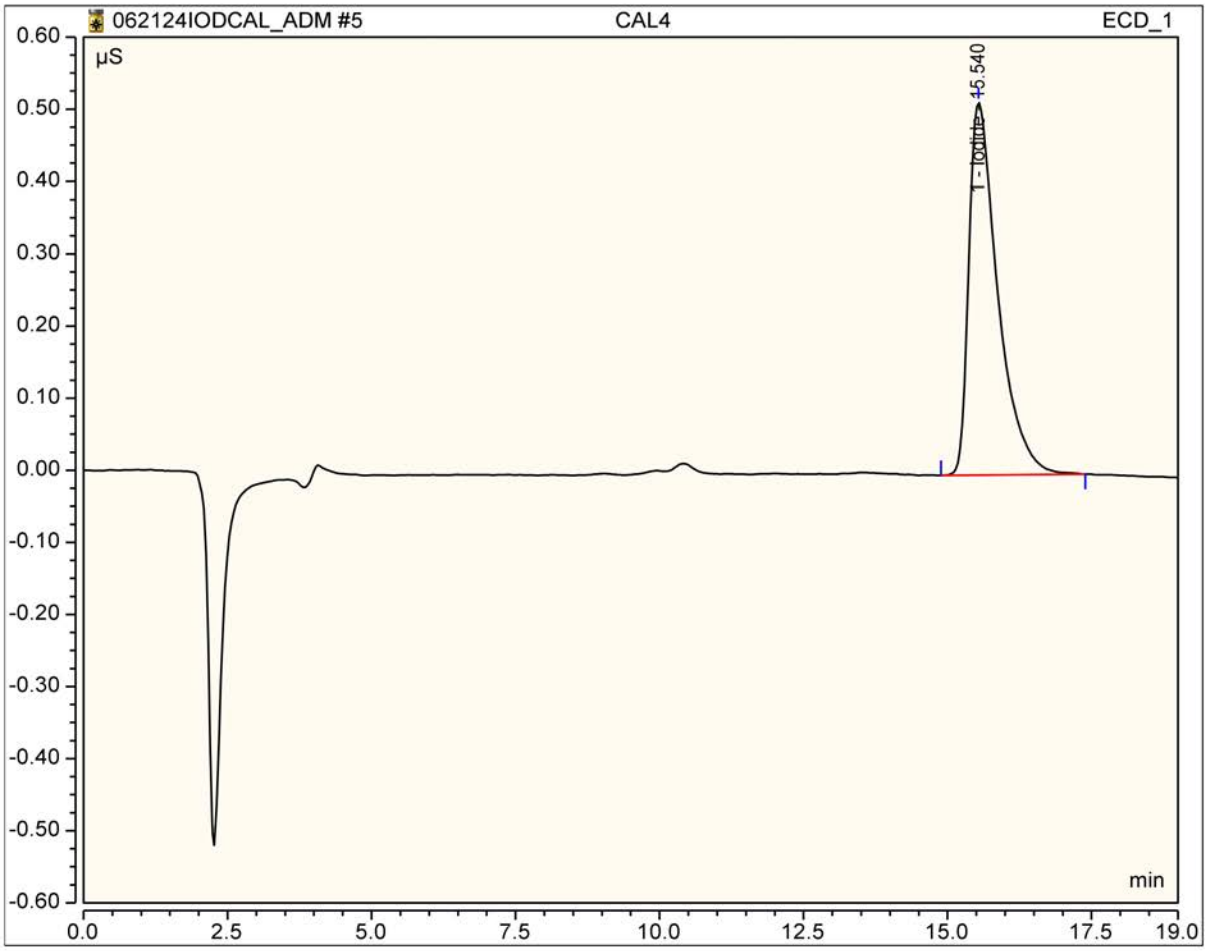
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.63	**Iodide**	4.9874	0.151	0.263	BMB



CAL4
371404

Sample Name:	**CAL4**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 18:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

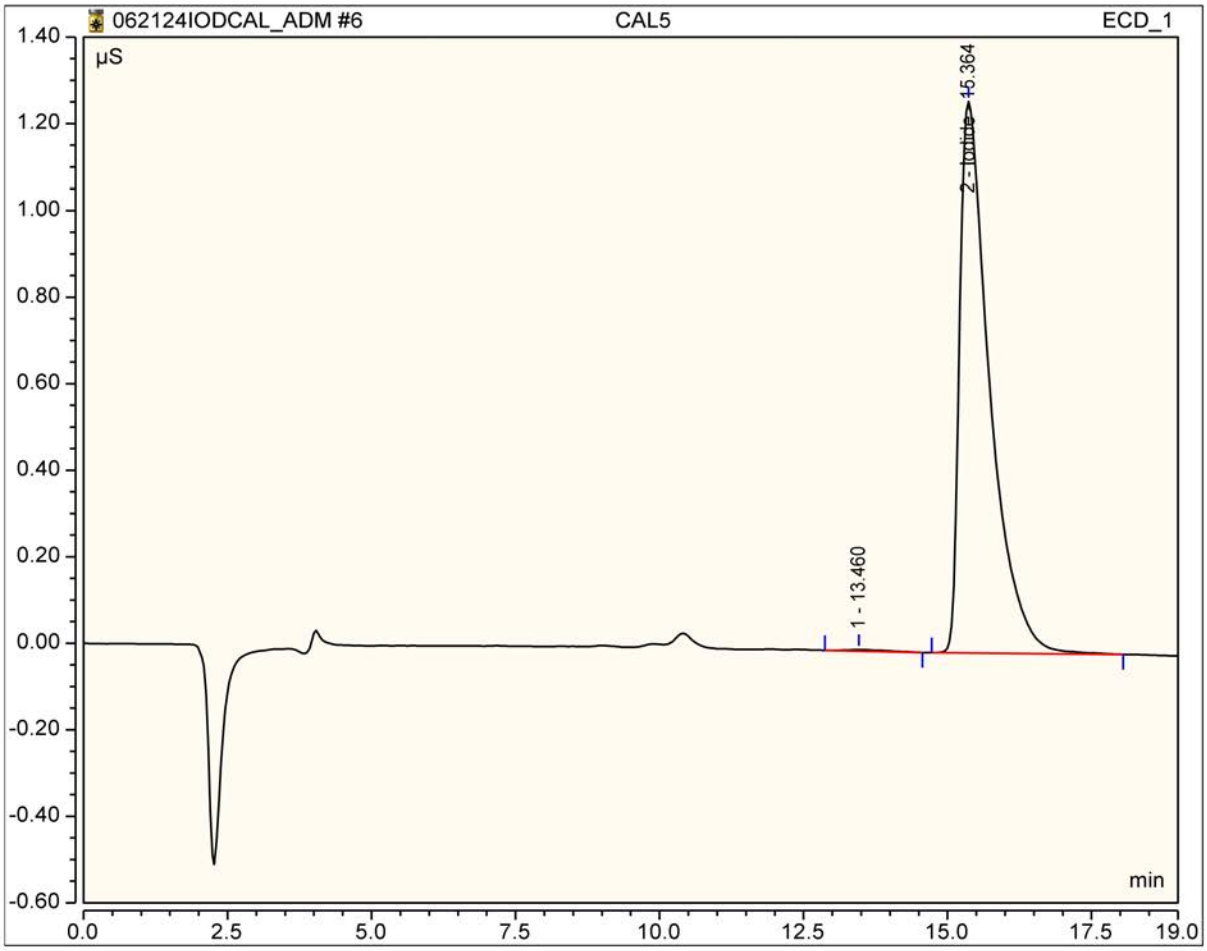
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.54	**Iodide**	9.8380	0.301	0.516	BMB



CAL5
371403

Sample Name:	**CAL5**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 18:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

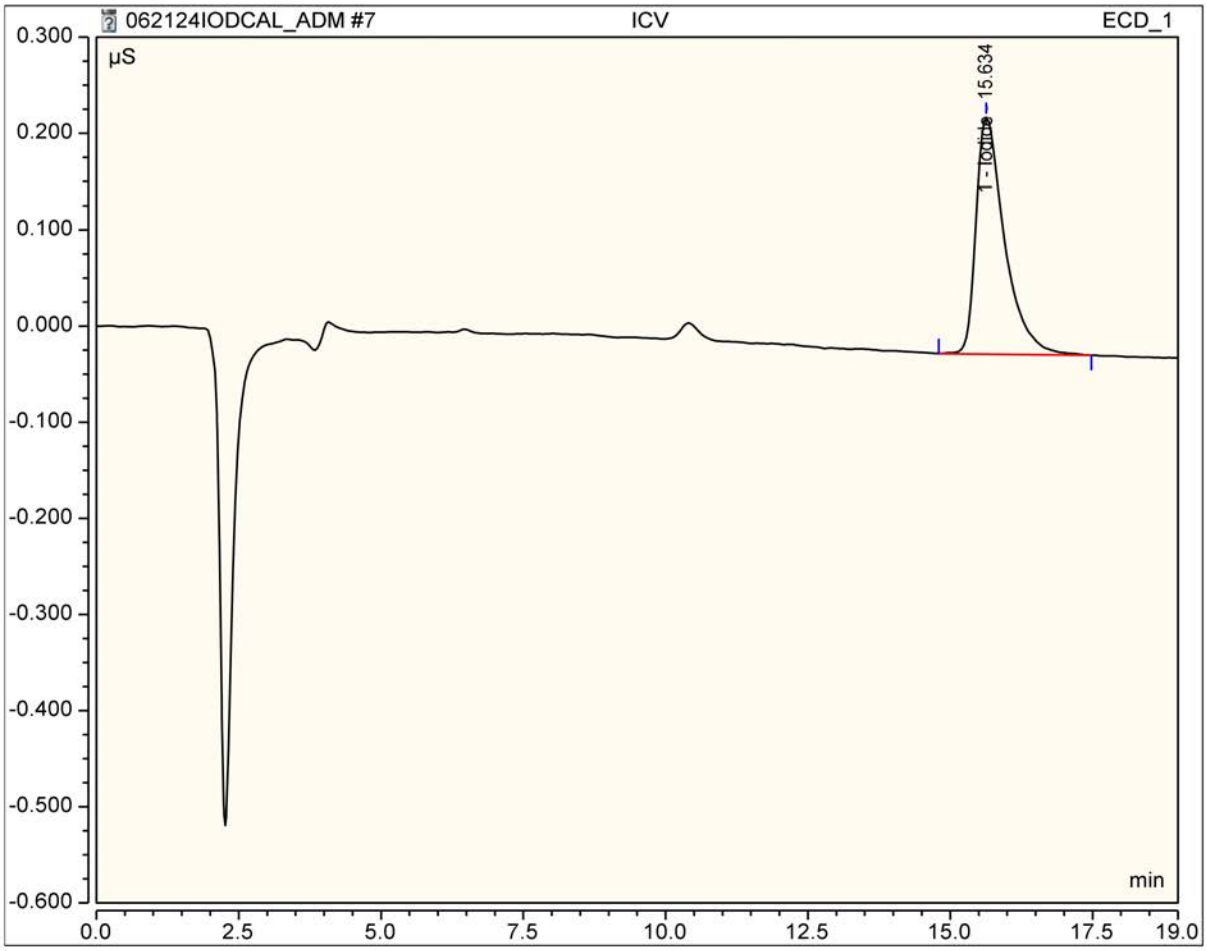
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.36	**Iodide**	25.1528	0.772	1.273	BMB



ICV
371401

Sample Name:	**ICV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

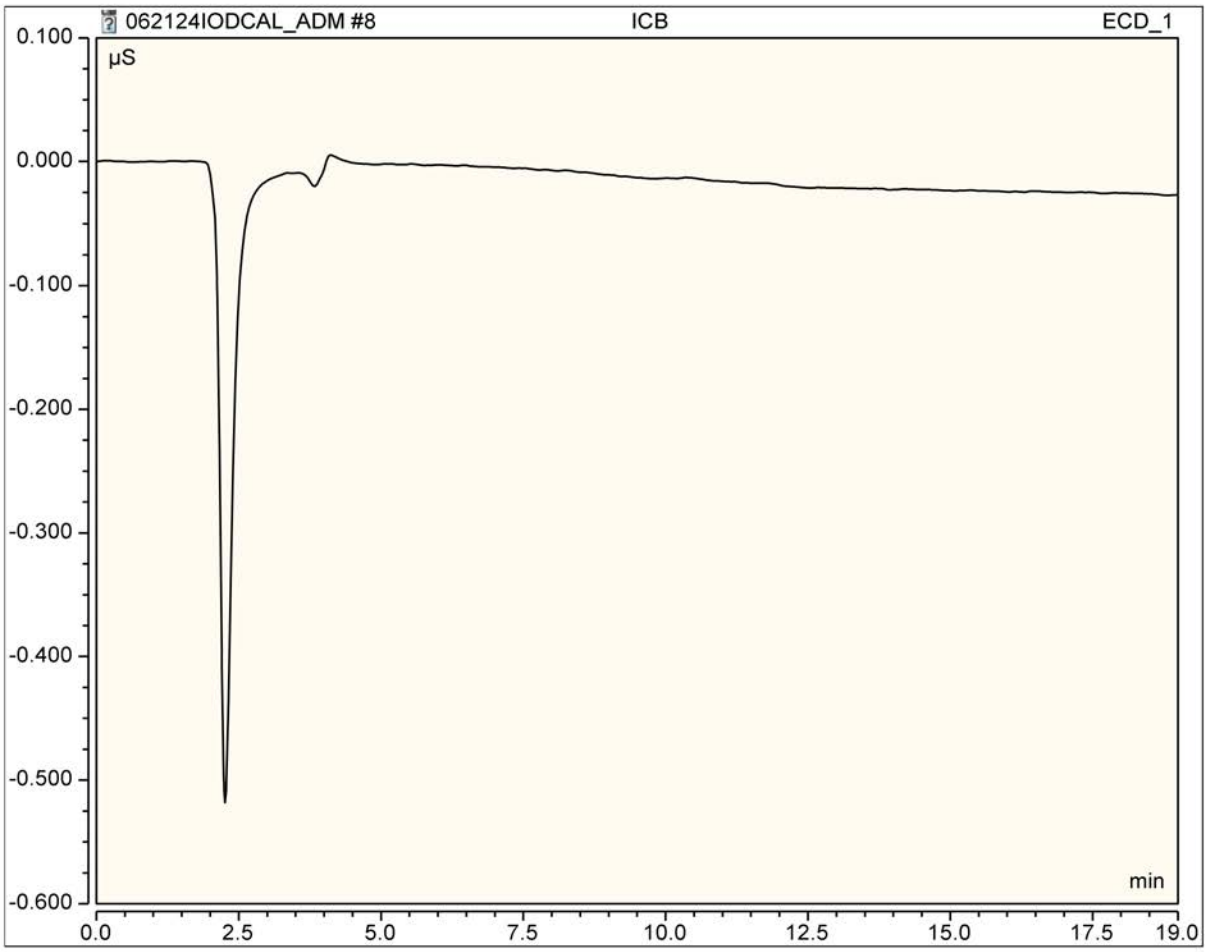
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.7040	0.143	0.246	BMB



ICB
376211

Sample Name:	**ICB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

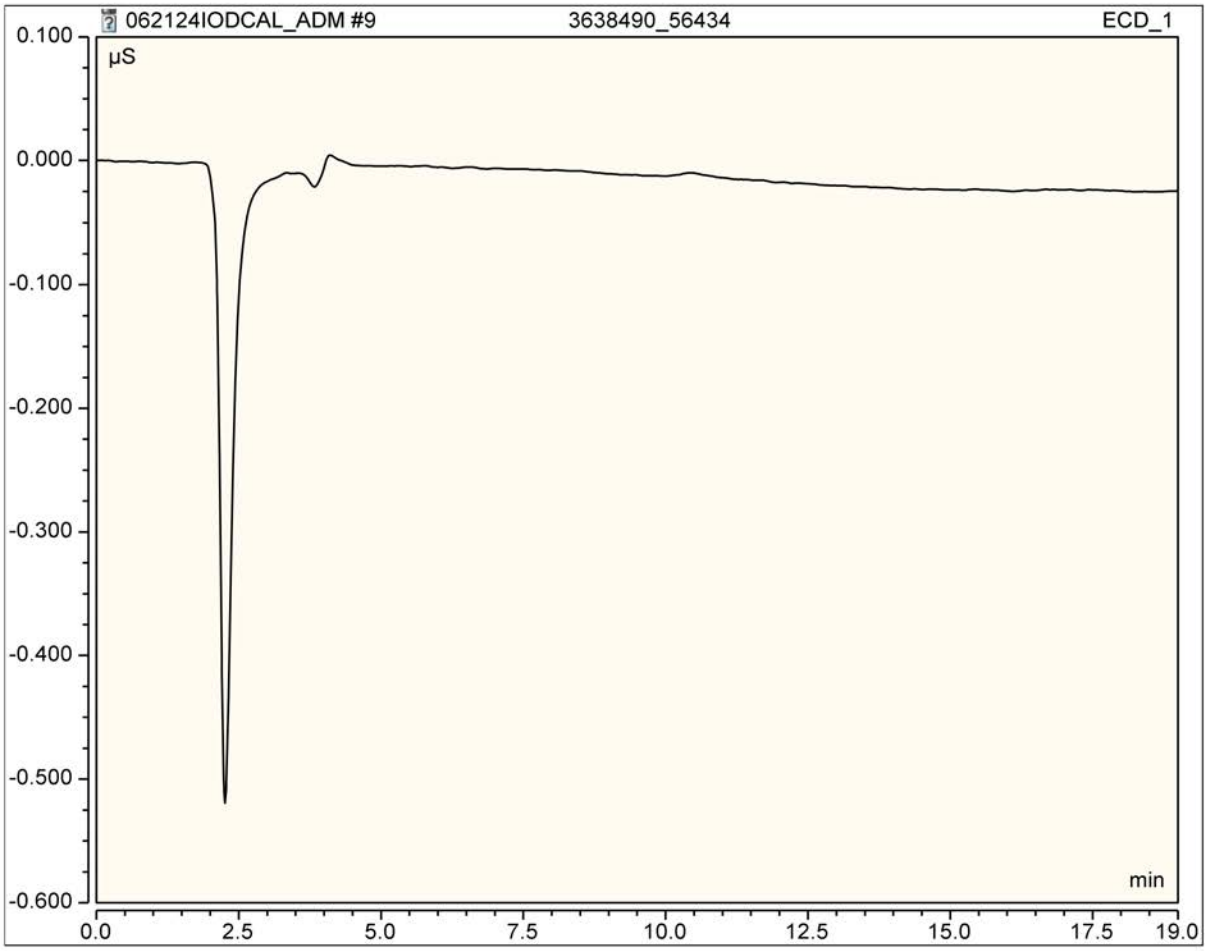
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638490_56434
340111

Sample Name:	**3638490_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

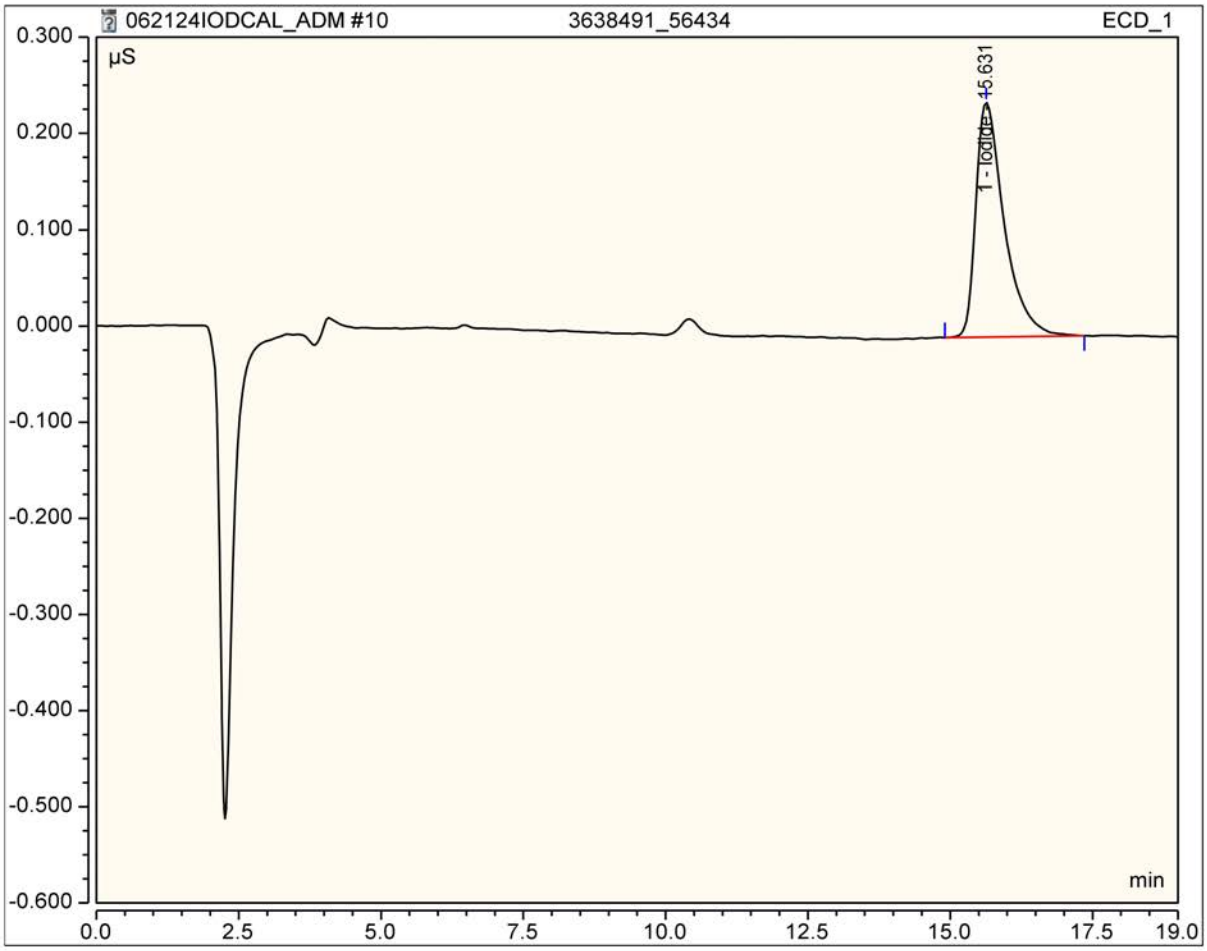
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638491_56434
377680

Sample Name:	**3638491_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

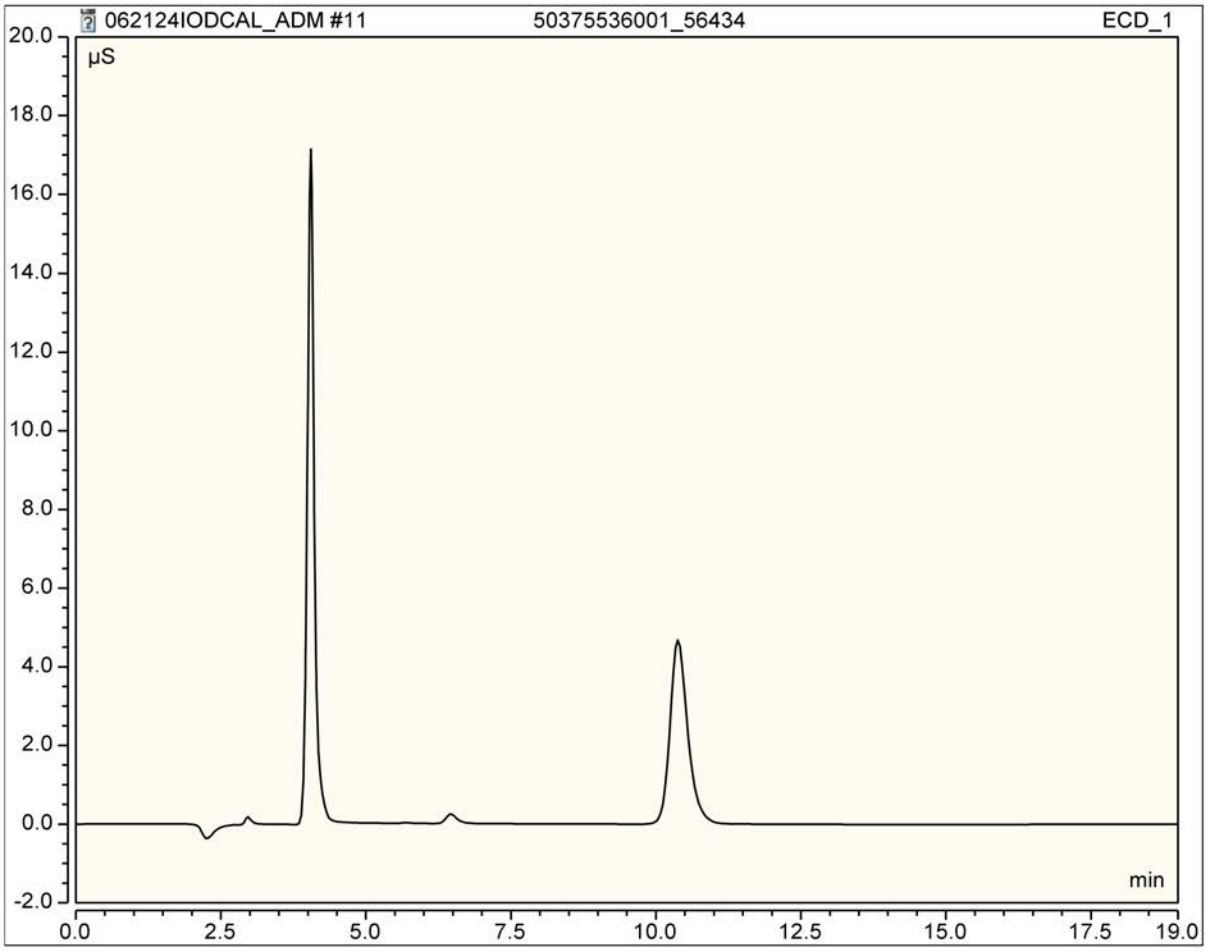
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.6277	0.140	0.243	BMB



50375536001_56434

Sample Name:	**50375536001_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:27**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

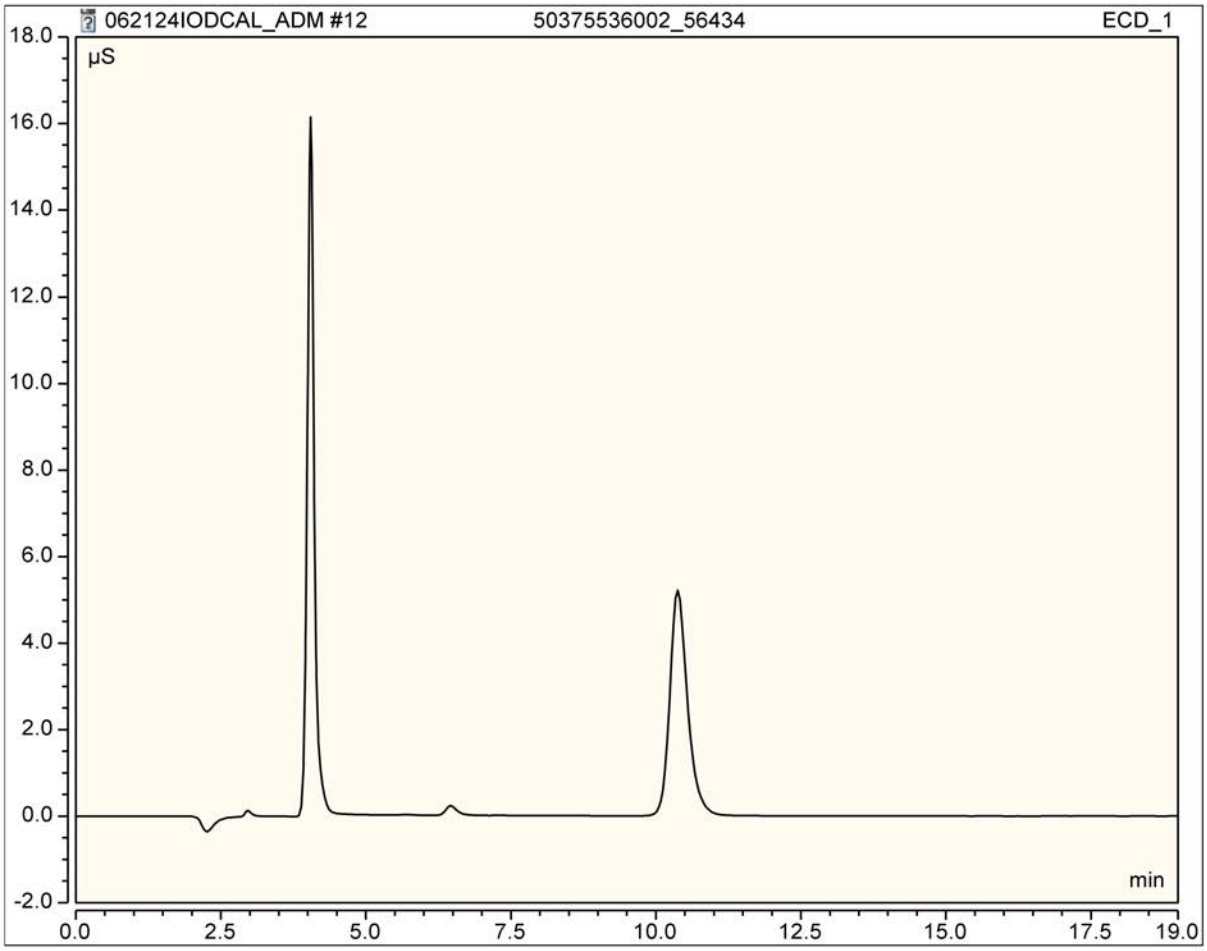
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536002_56434

Sample Name:	**50375536002_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

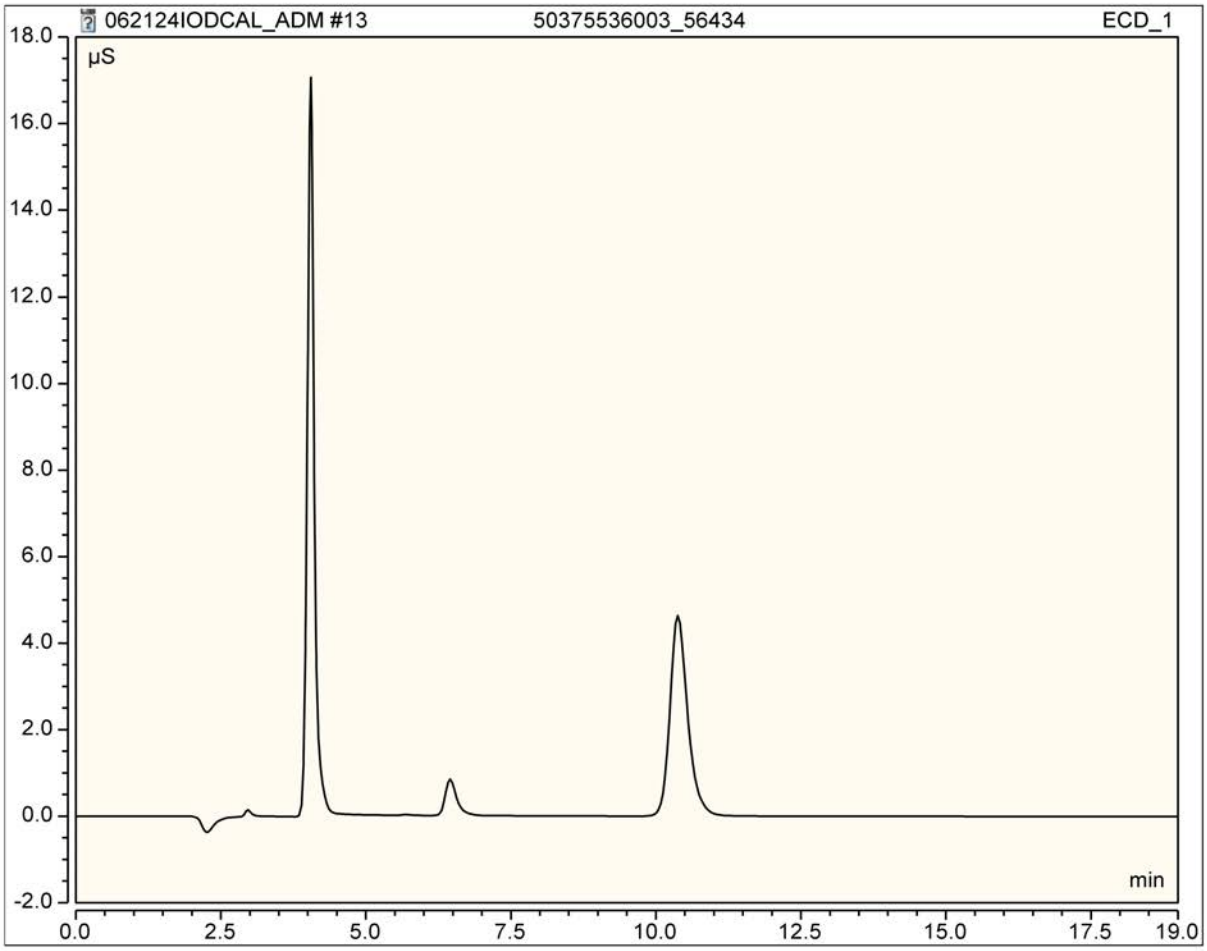
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536003_56434

Sample Name:	**50375536003_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

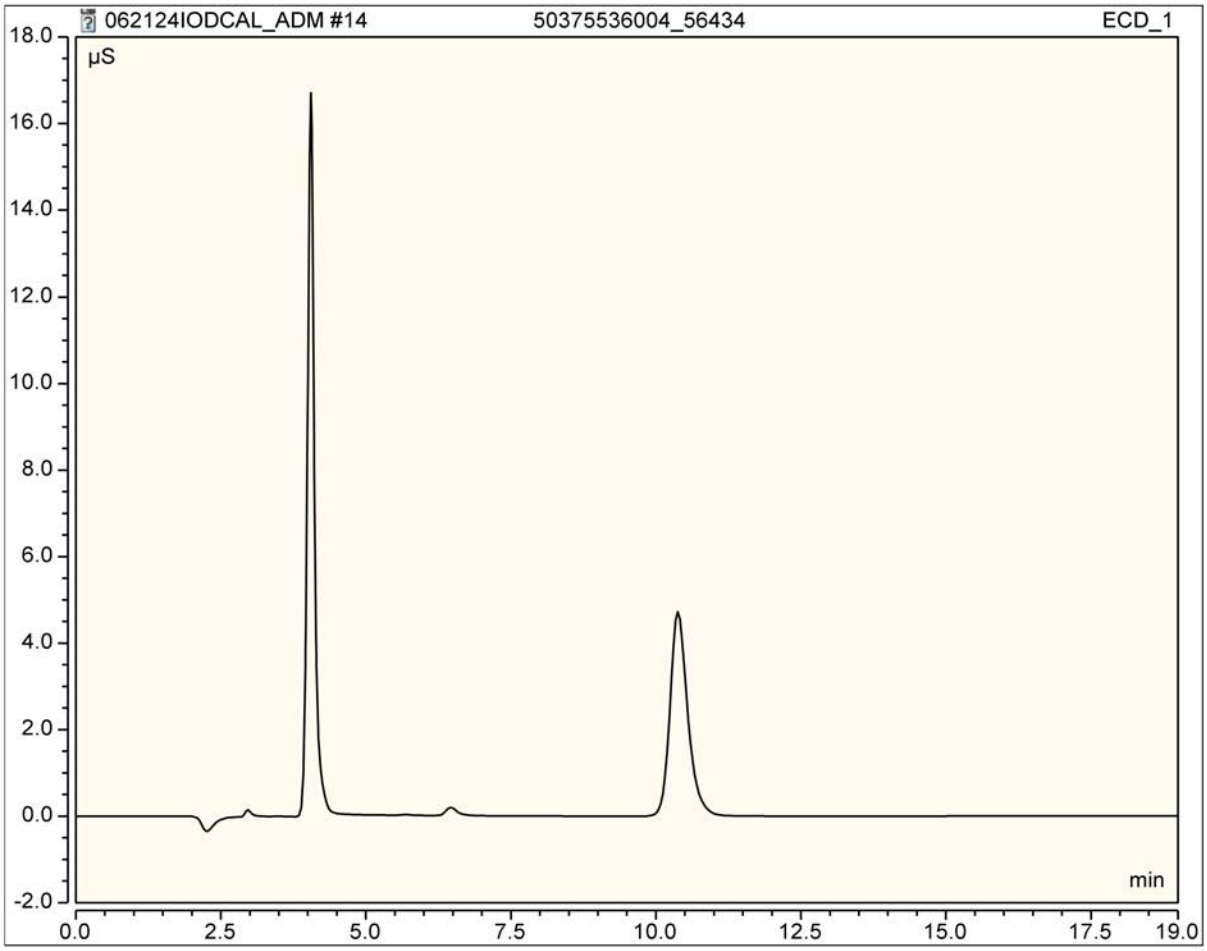
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536004_56434

Sample Name:	**50375536004_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

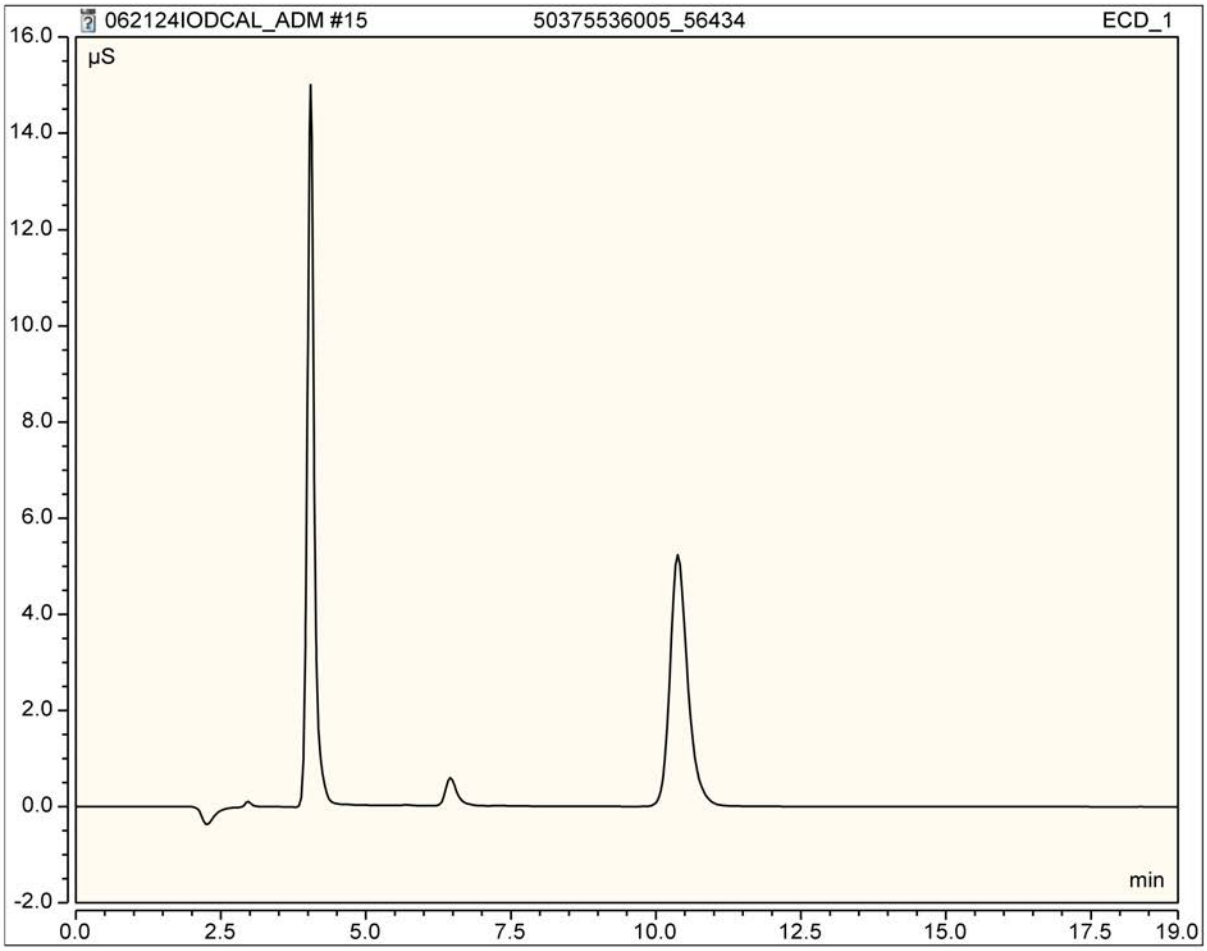
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536005_56434

Sample Name:	**50375536005_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

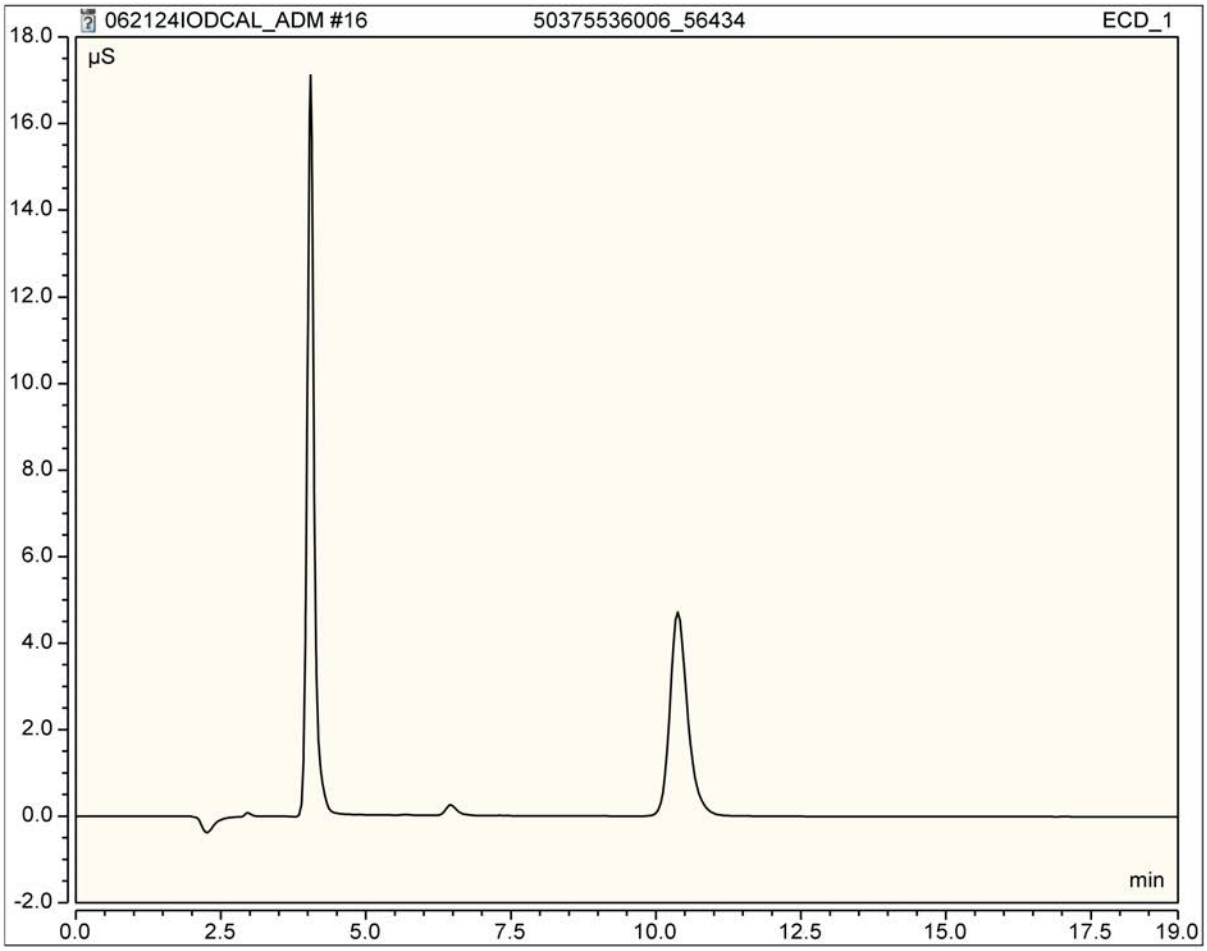
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536006_56434

Sample Name:	**50375536006_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 22:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

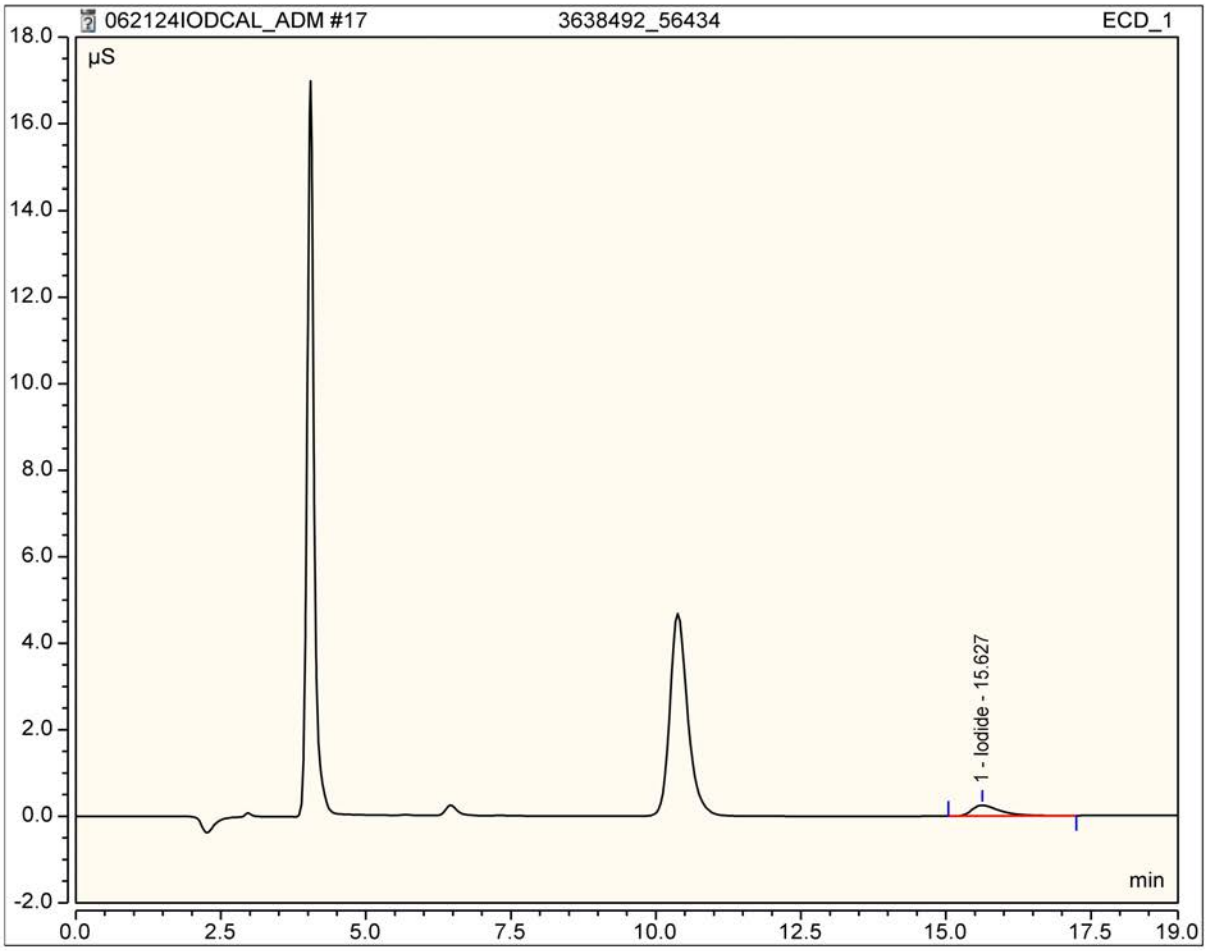
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638492_56434
377680

Sample Name:	**3638492_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*17*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 22:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

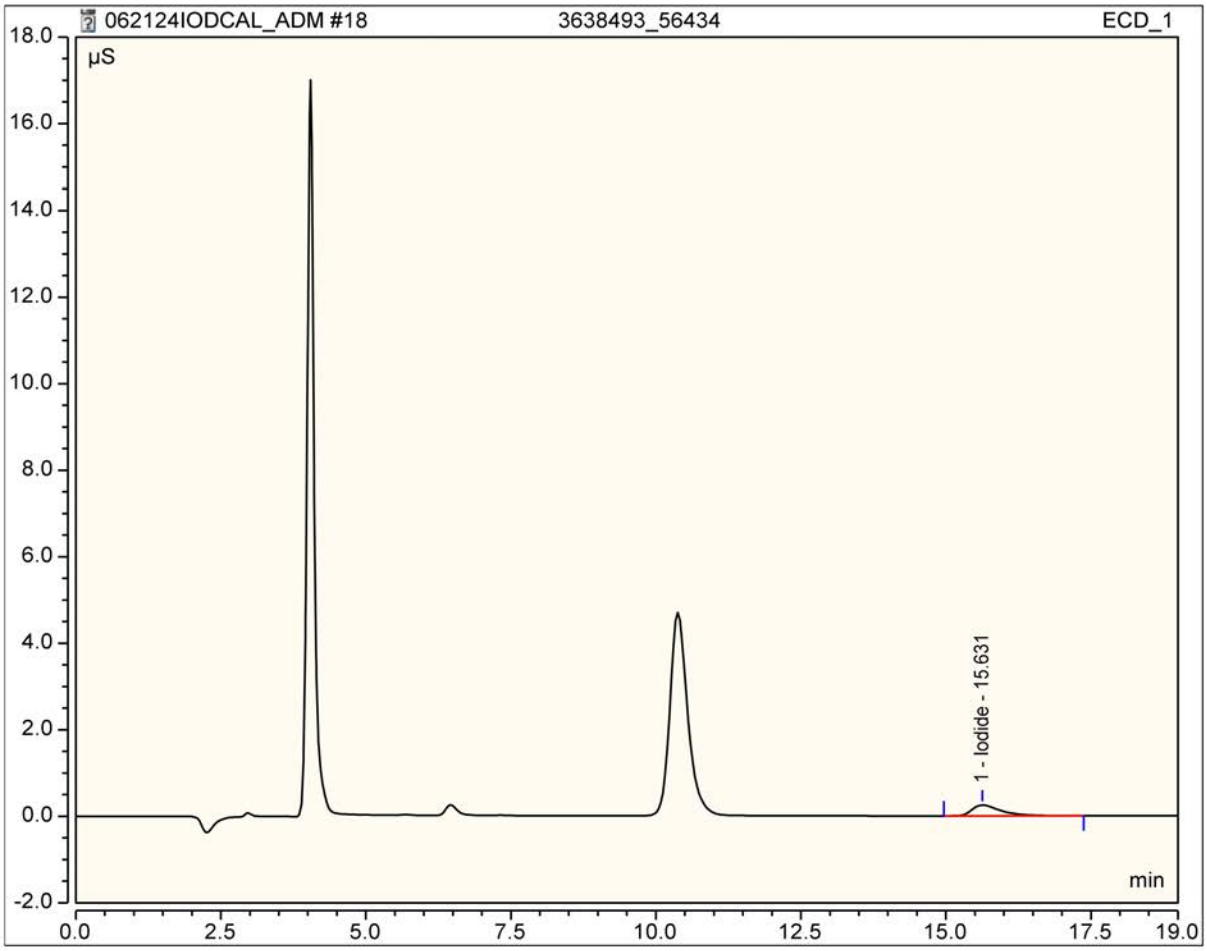
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.6042	0.140	0.247	BMB



3638493_56434
377680

Sample Name:	**3638493_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*18*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

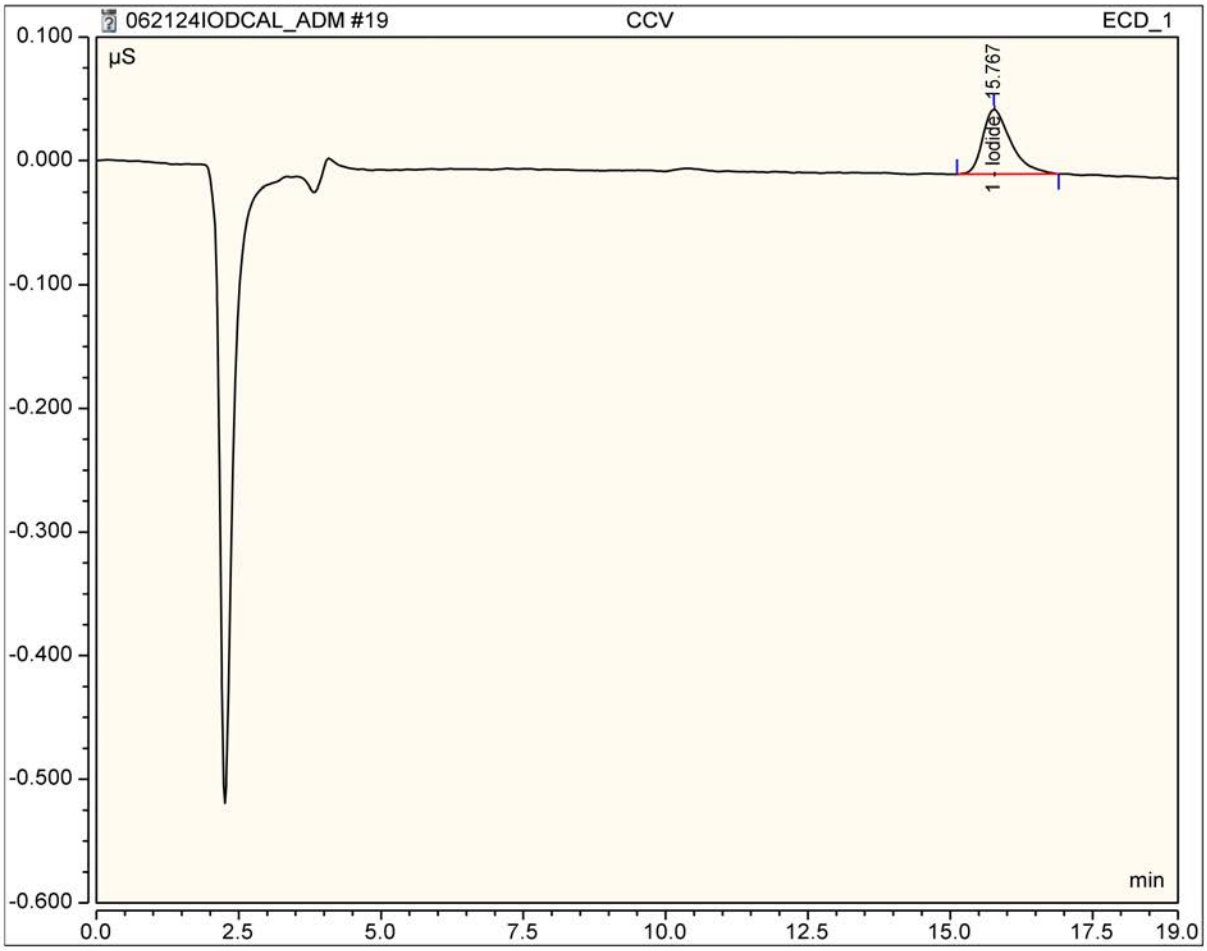
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.7797	0.145	0.250	BMB



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*19*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:22**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

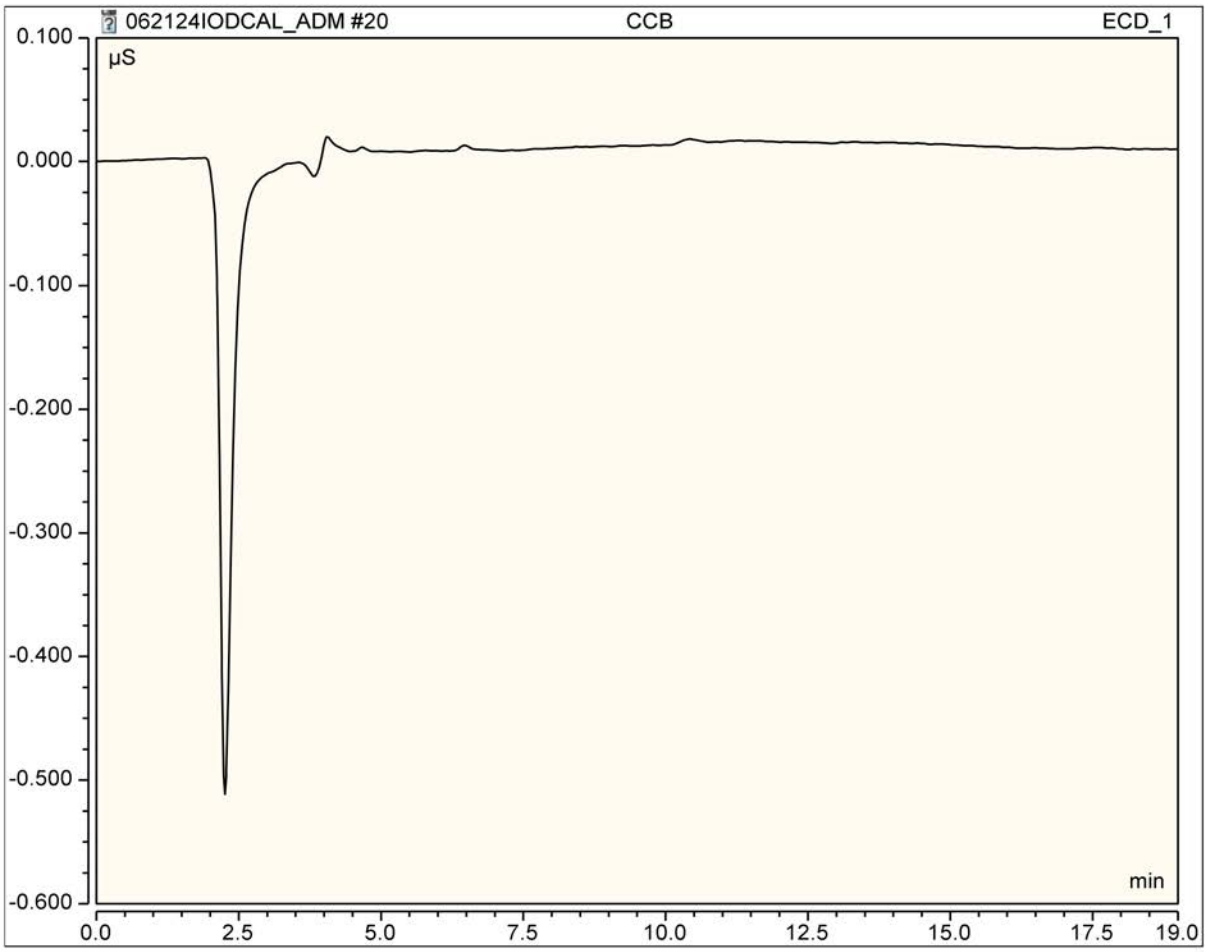
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.77	**Iodide**	1.0473	0.030	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

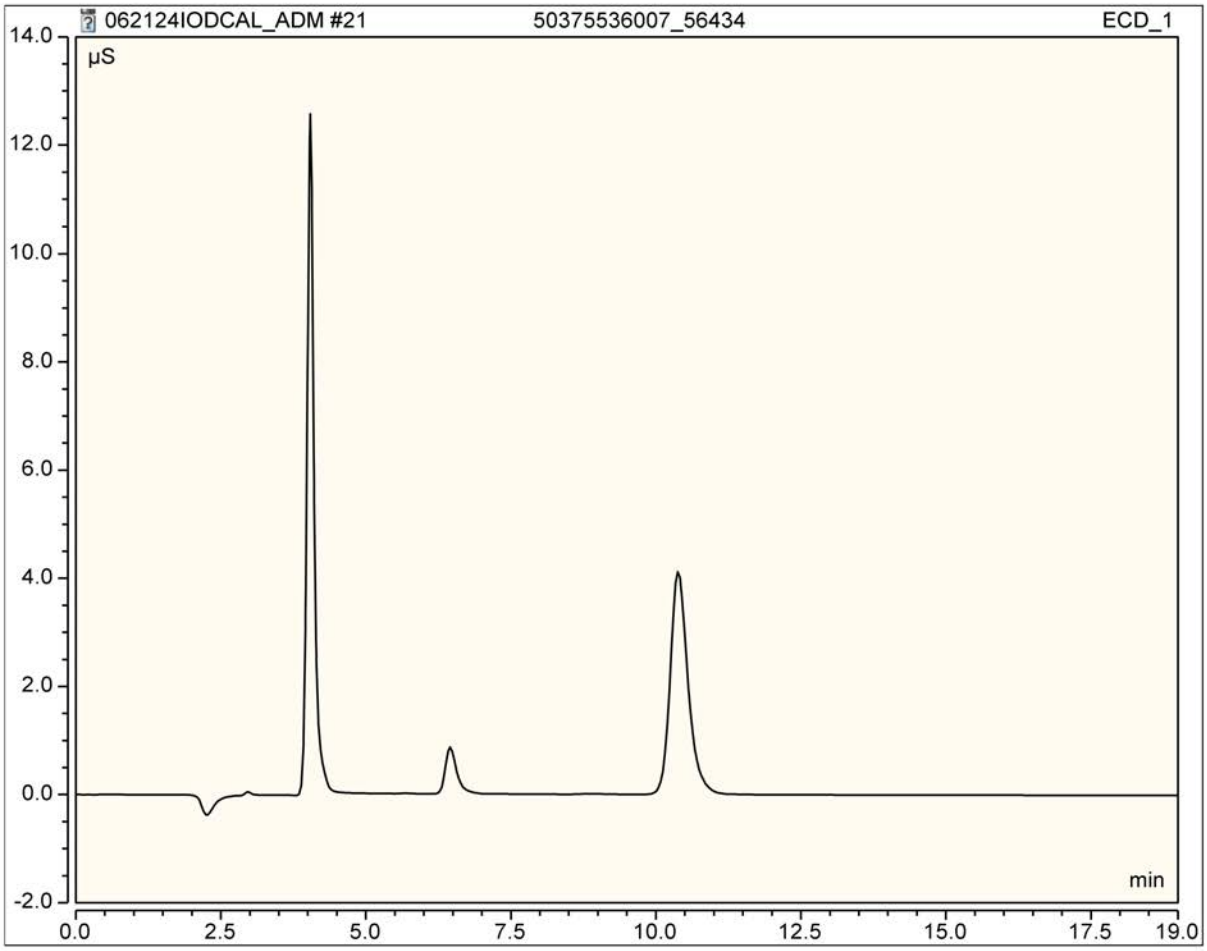
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536007_56434

Sample Name:	**50375536007_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

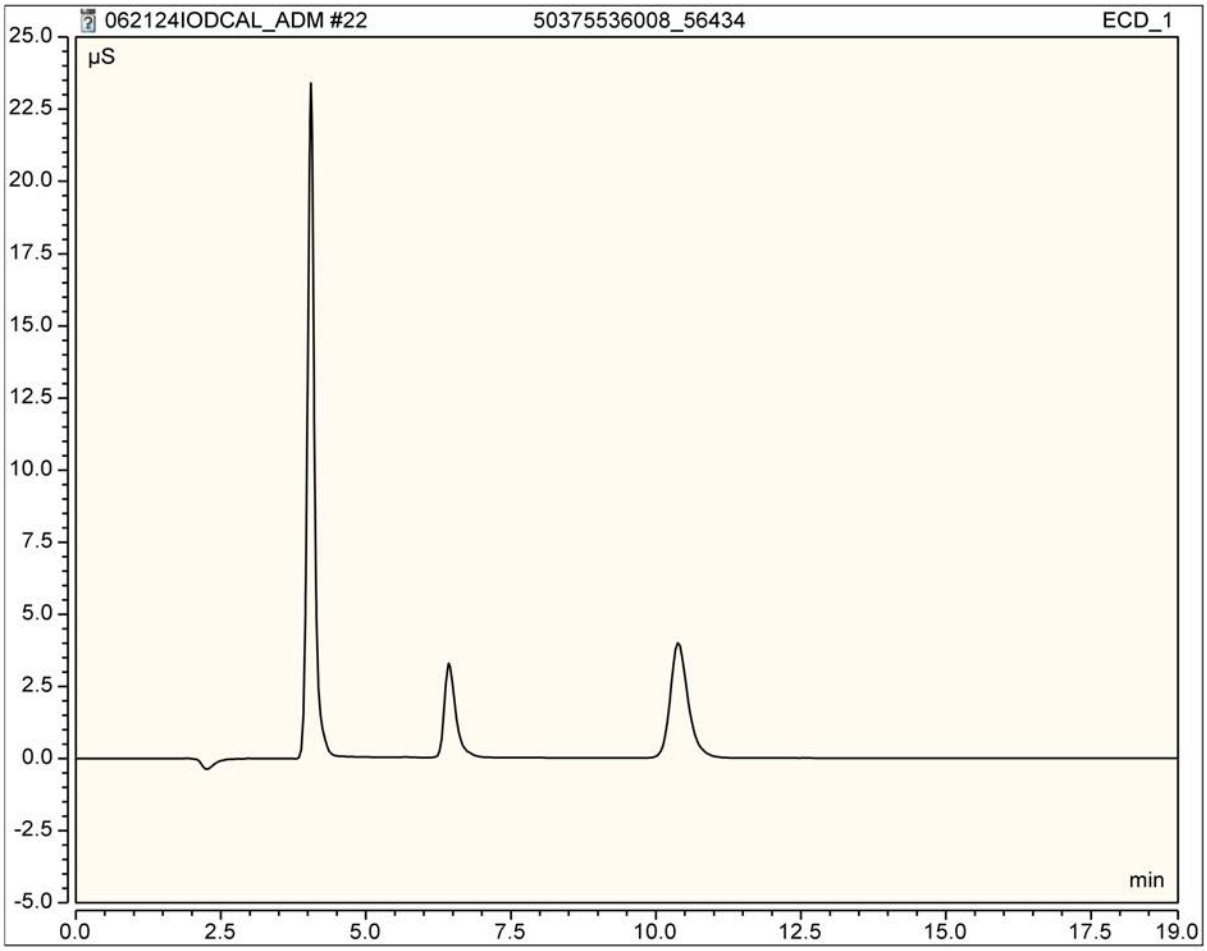
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536008_56434

Sample Name:	**50375536008_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

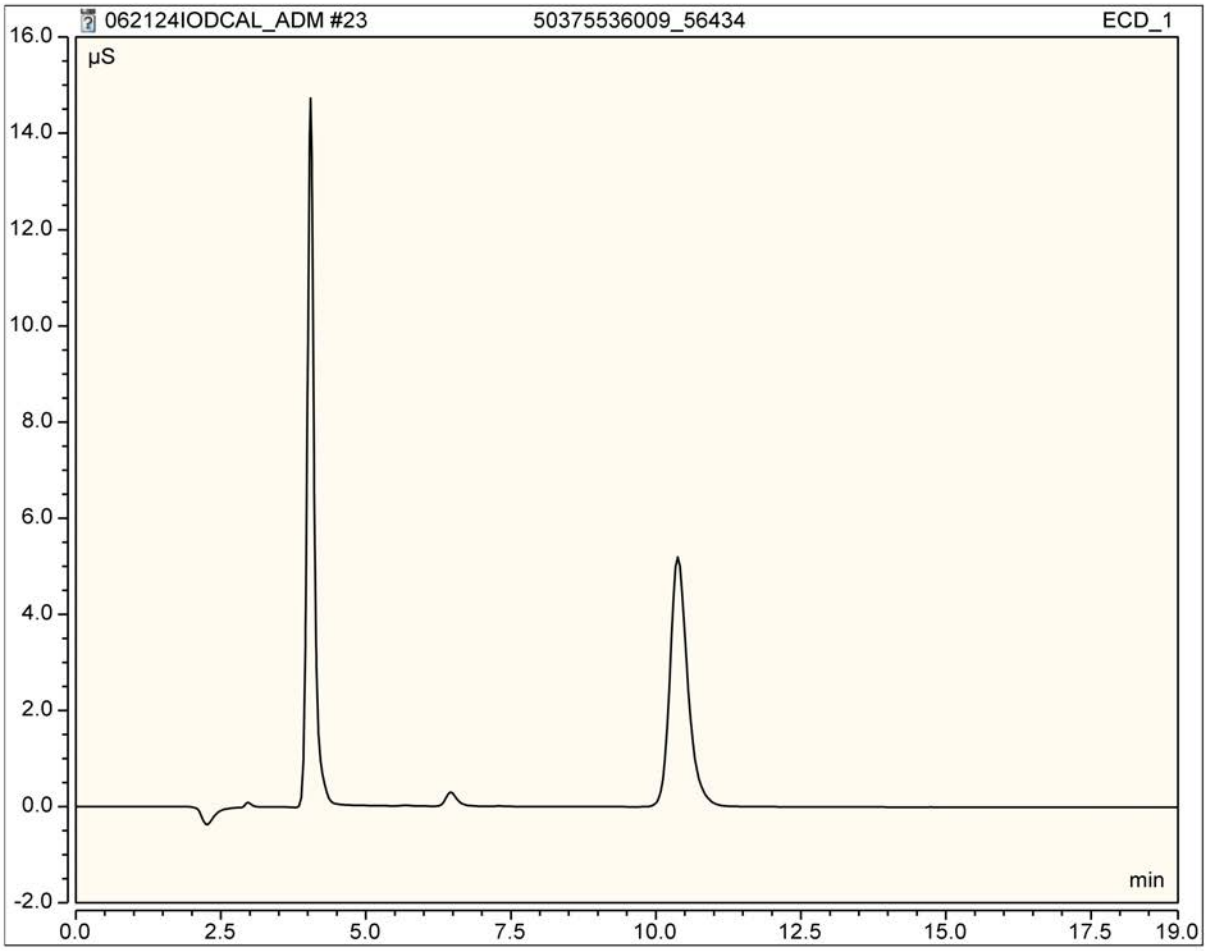
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536009_56434

Sample Name:	**50375536009_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

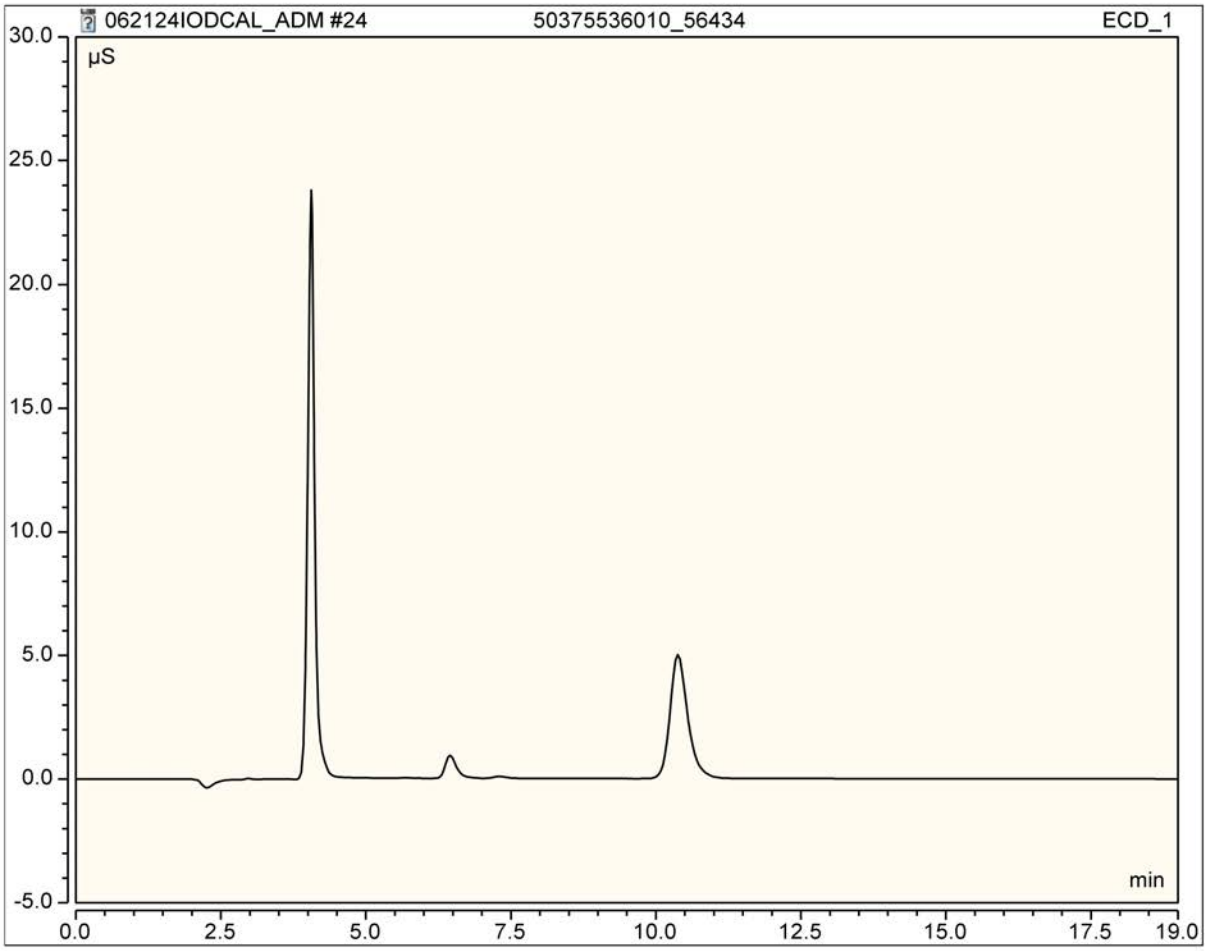
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536010_56434

Sample Name:	**50375536010_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

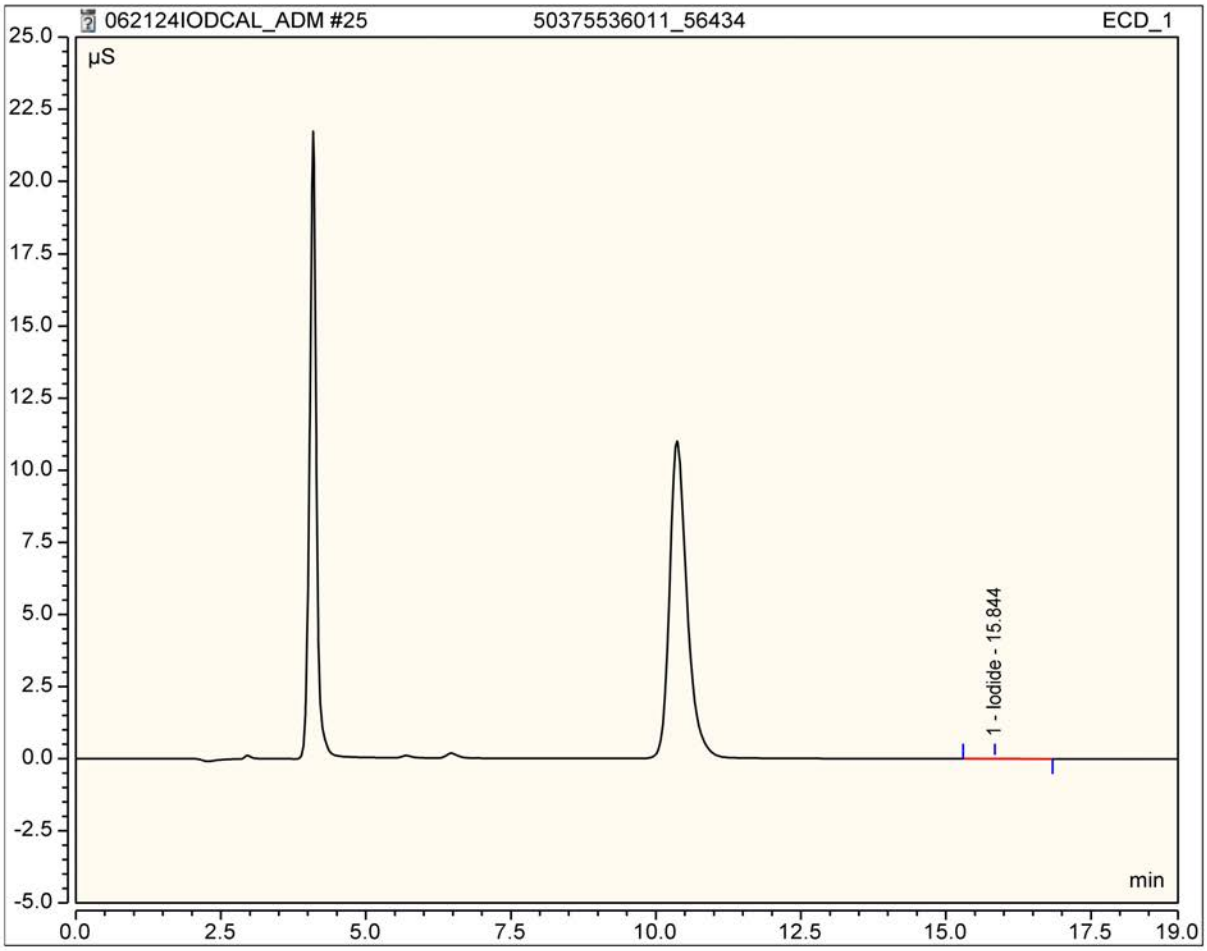
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536011_56434

Sample Name:	**50375536011_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

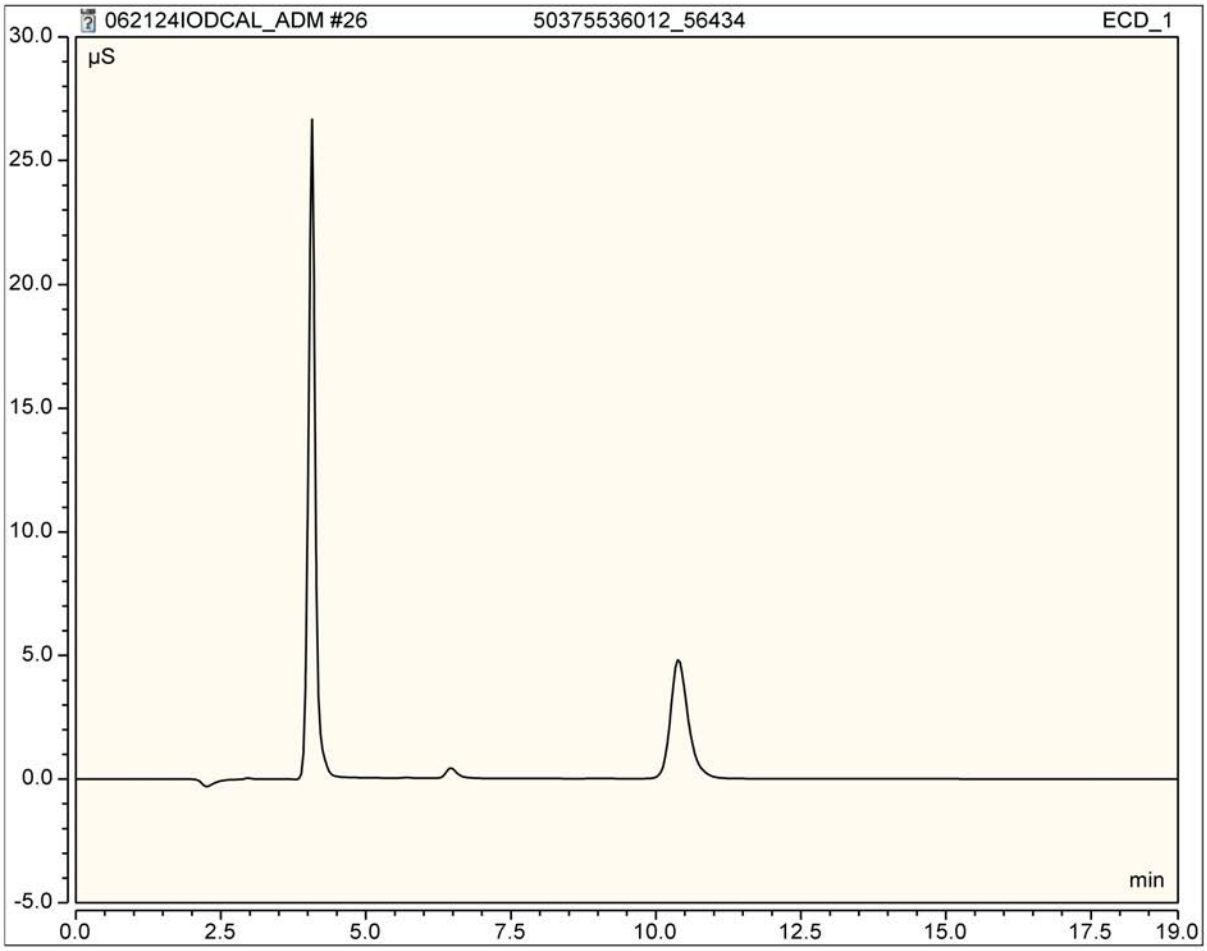
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.84	**Iodide**	0.2333	0.005	0.009	BMB



50375536012_56434

Sample Name:	**50375536012_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*26*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

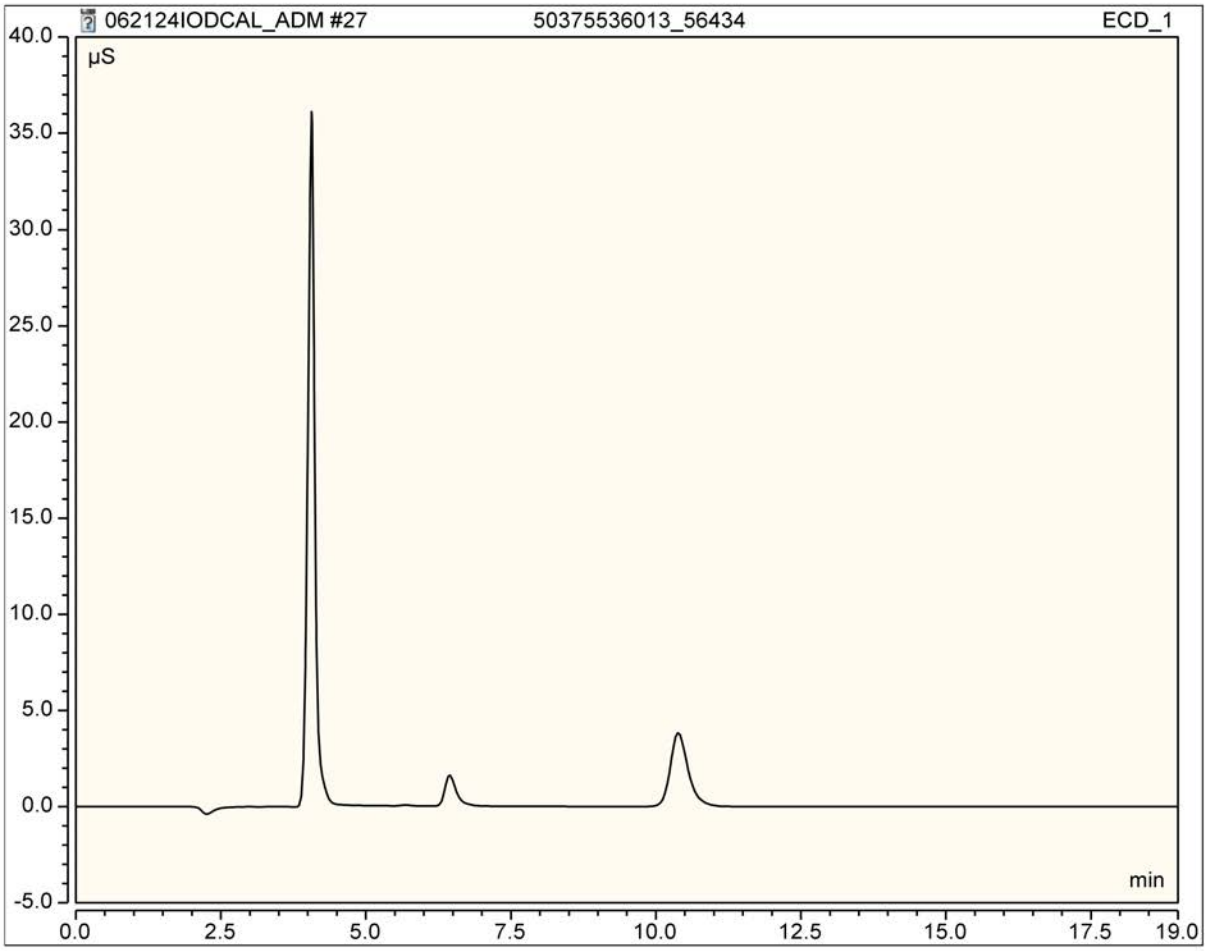
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536013_56434

Sample Name:	**50375536013_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*27*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 02:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

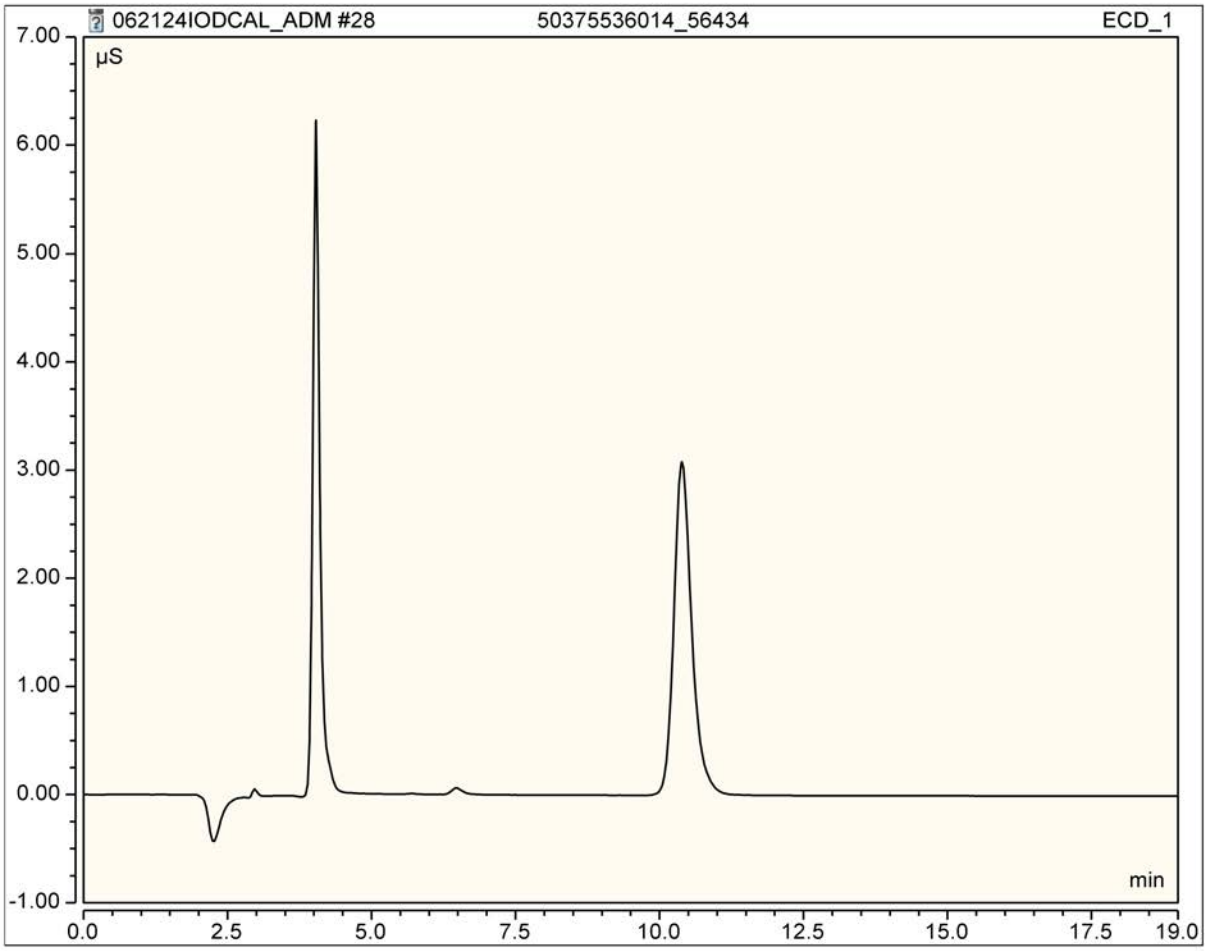
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536014_56434

Sample Name:	**50375536014_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*28*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 02:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

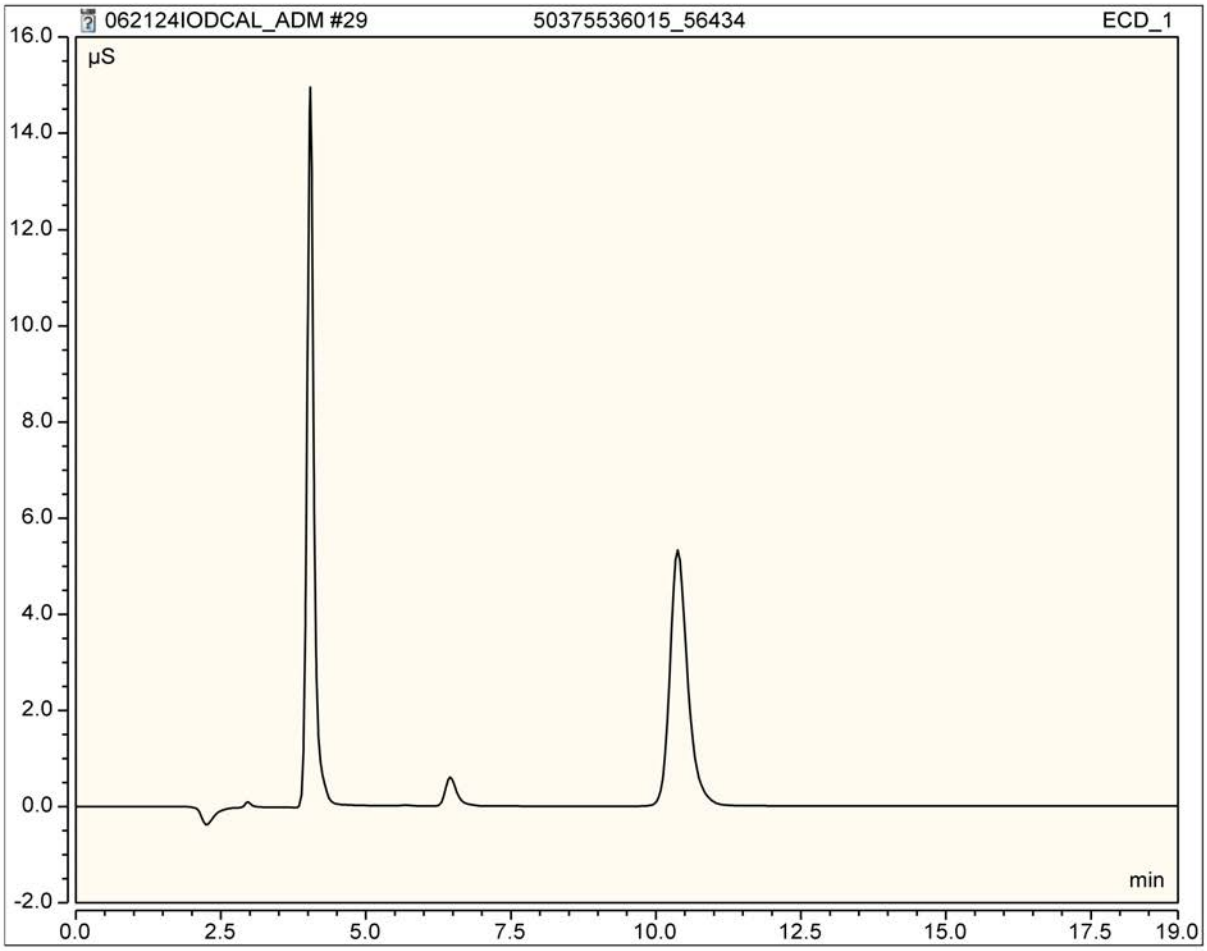
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536015_56434

Sample Name:	**50375536015_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*29*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

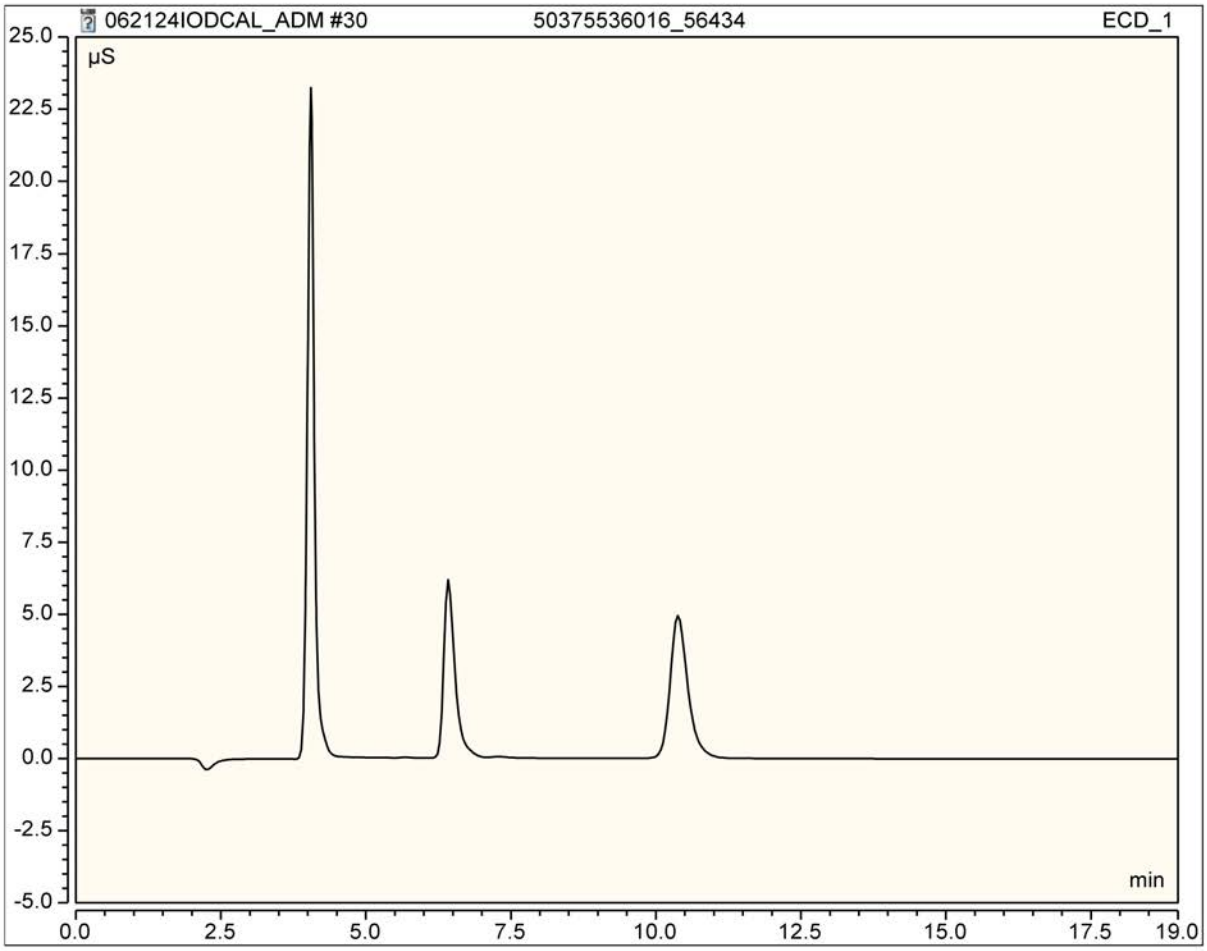
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536016_56434

Sample Name:	**50375536016_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*30*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

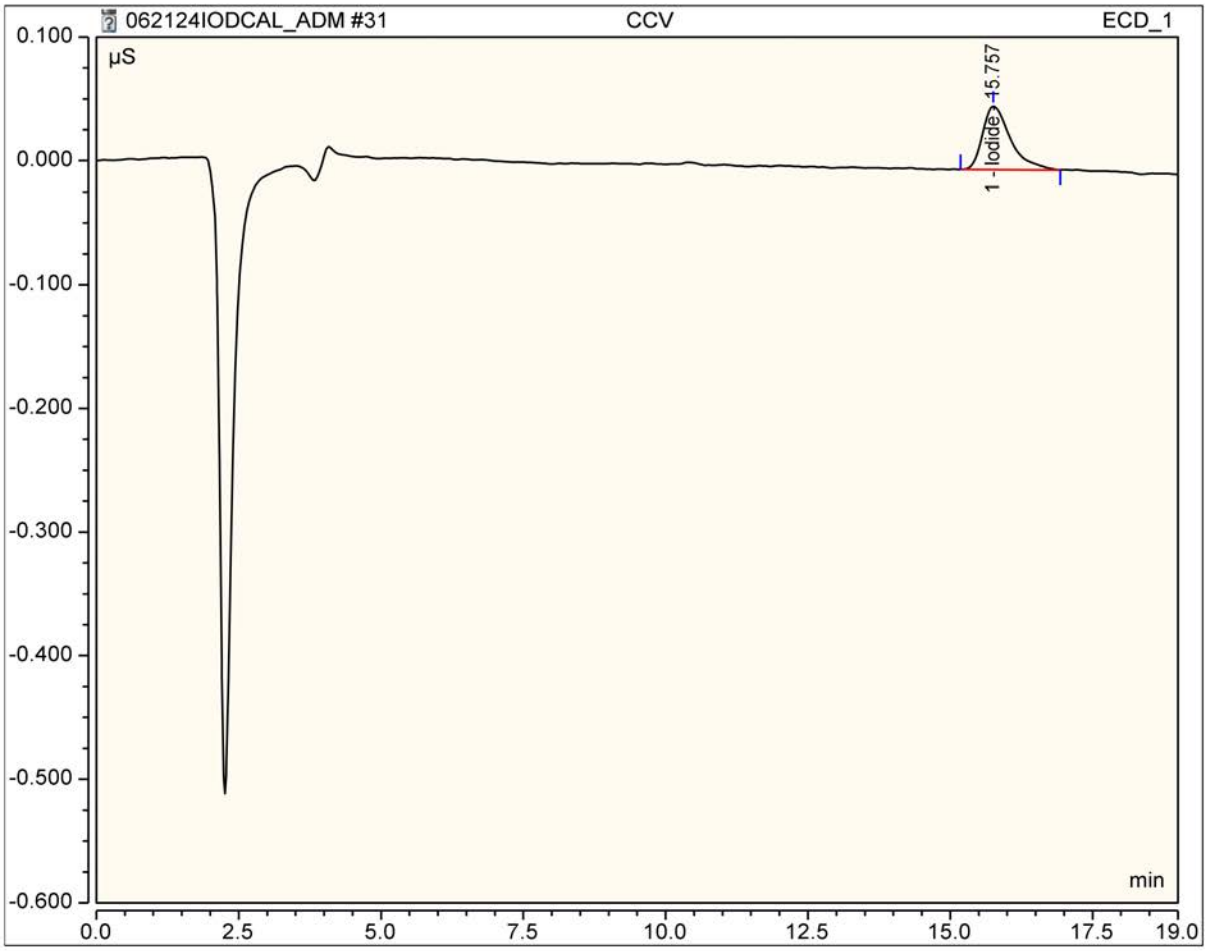
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*31*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

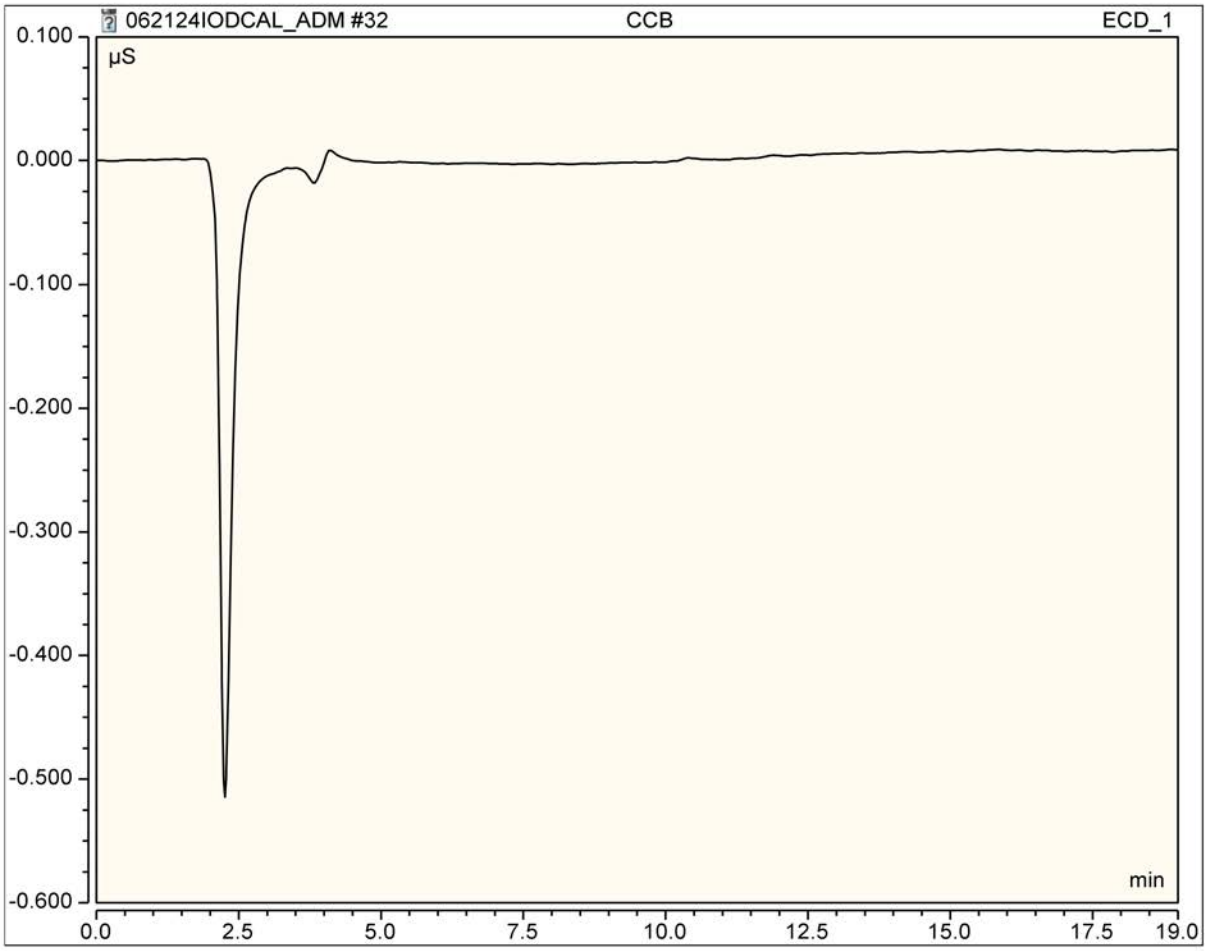
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0109	0.029	0.051	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*32*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

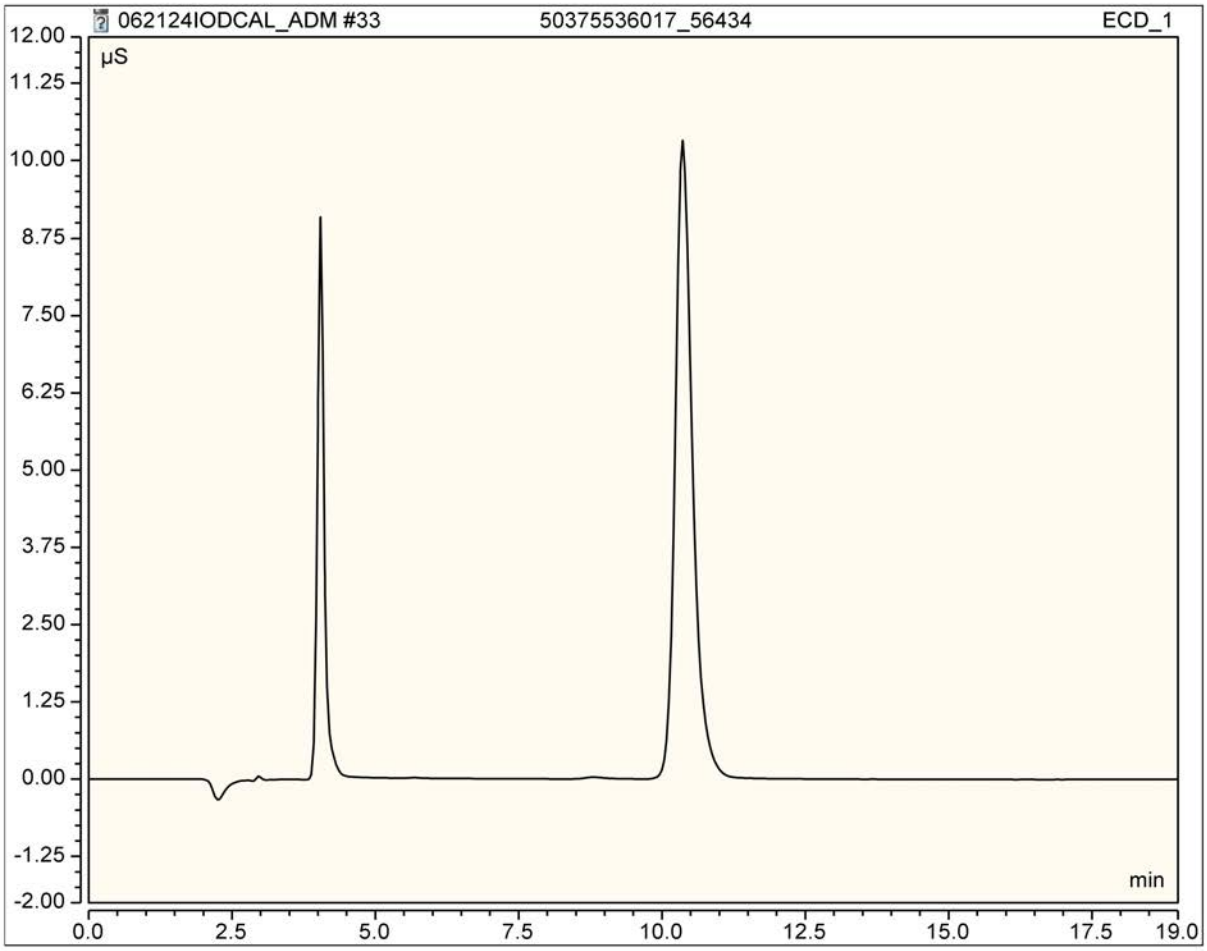
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536017_56434

Sample Name:	**50375536017_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

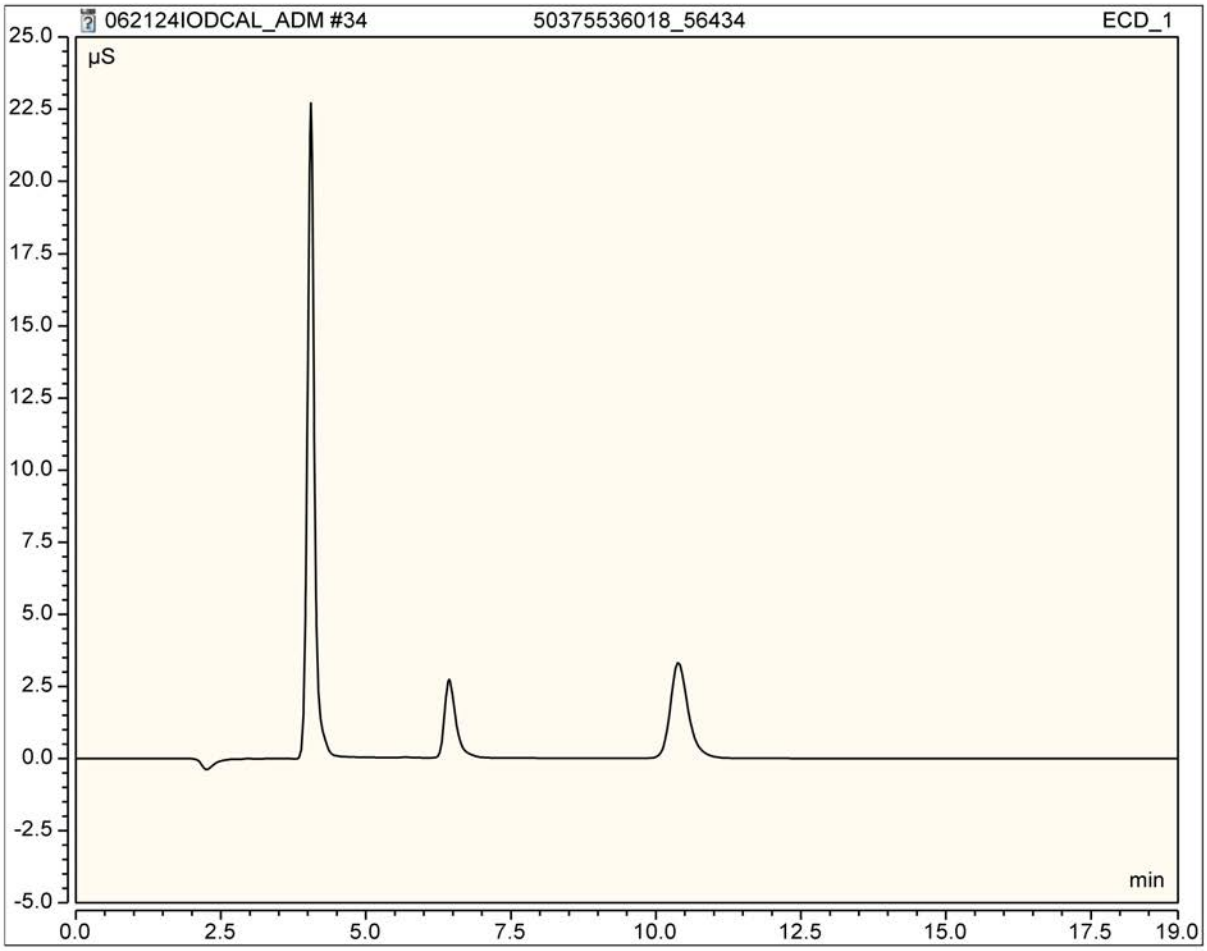
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536018_56434

Sample Name:	**50375536018_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

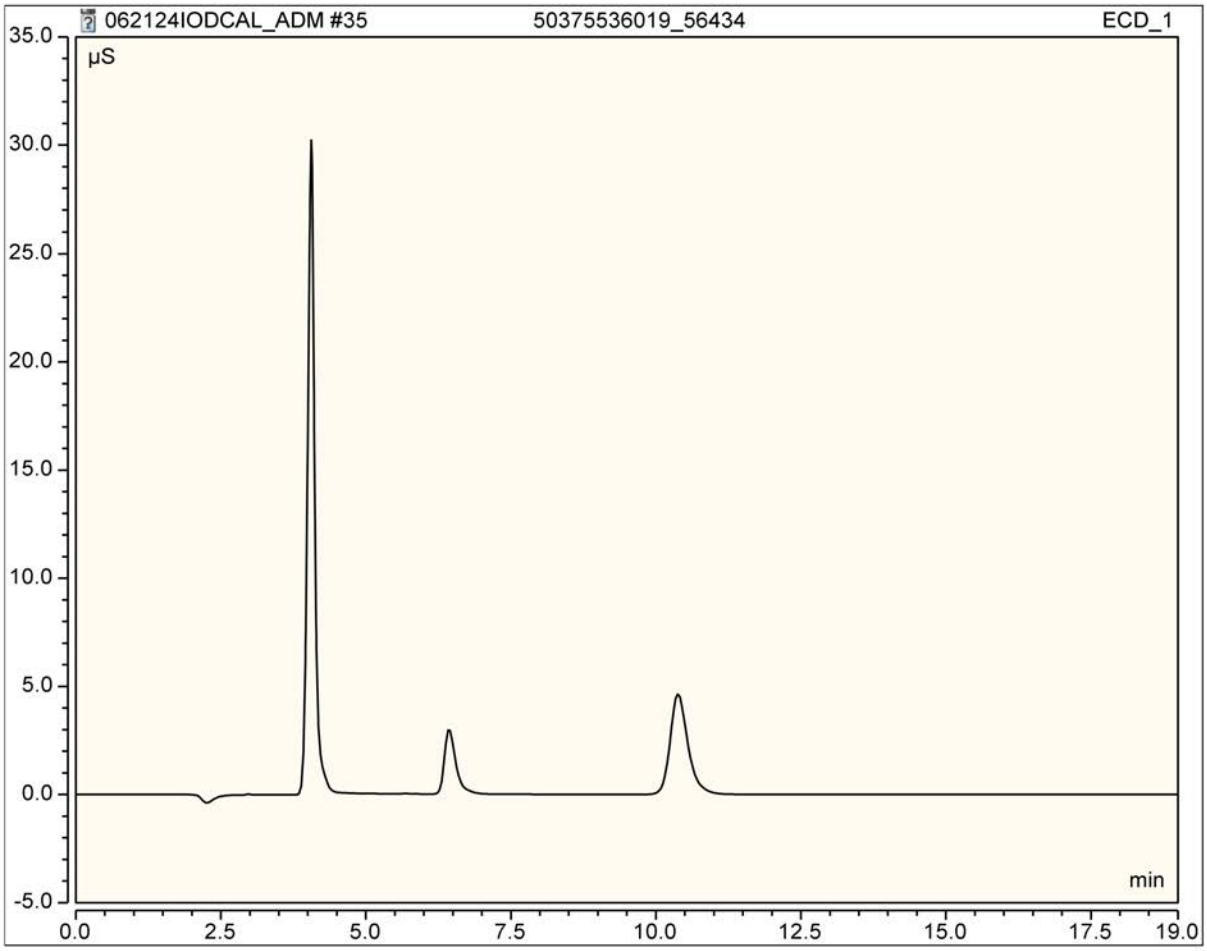
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536019_56434

Sample Name:	**50375536019_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

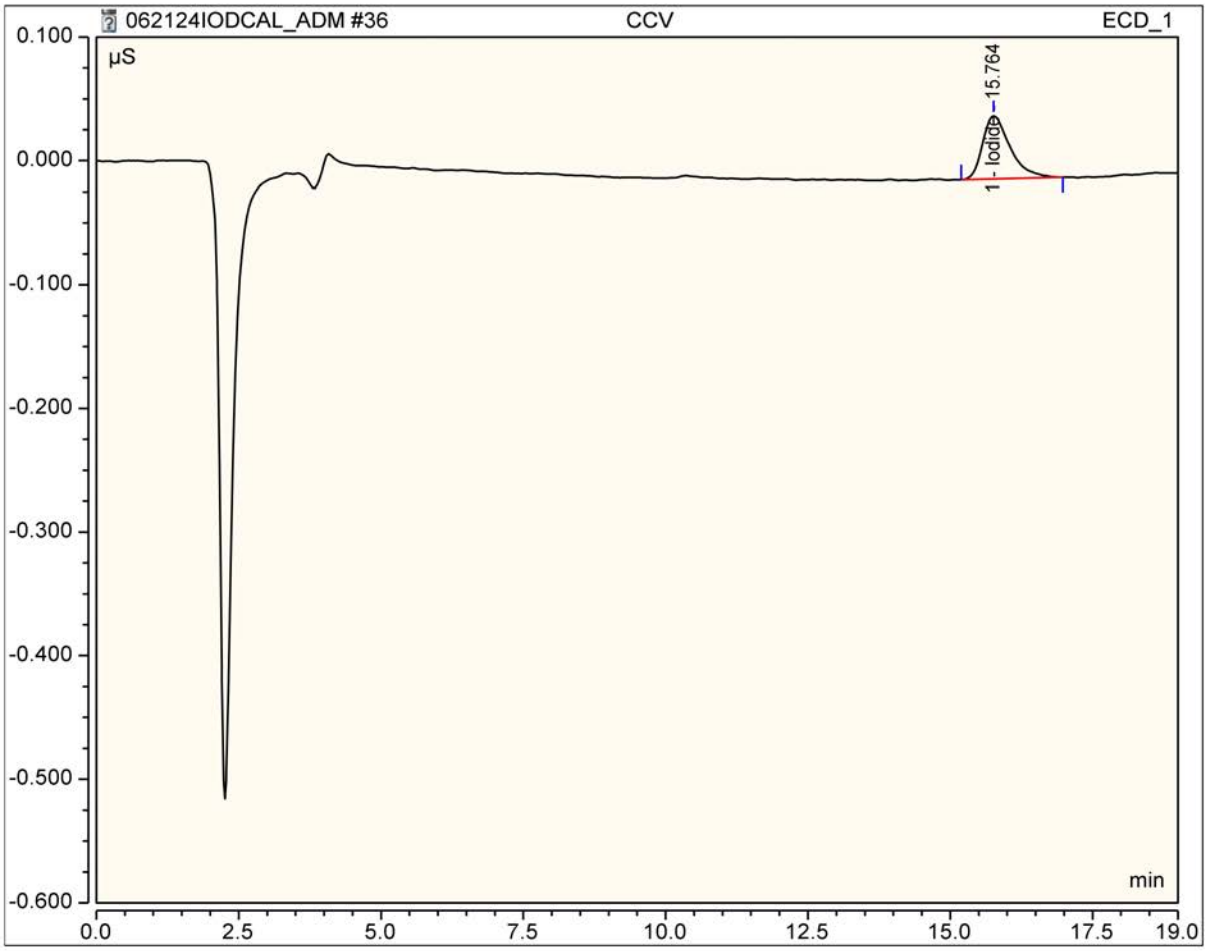
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

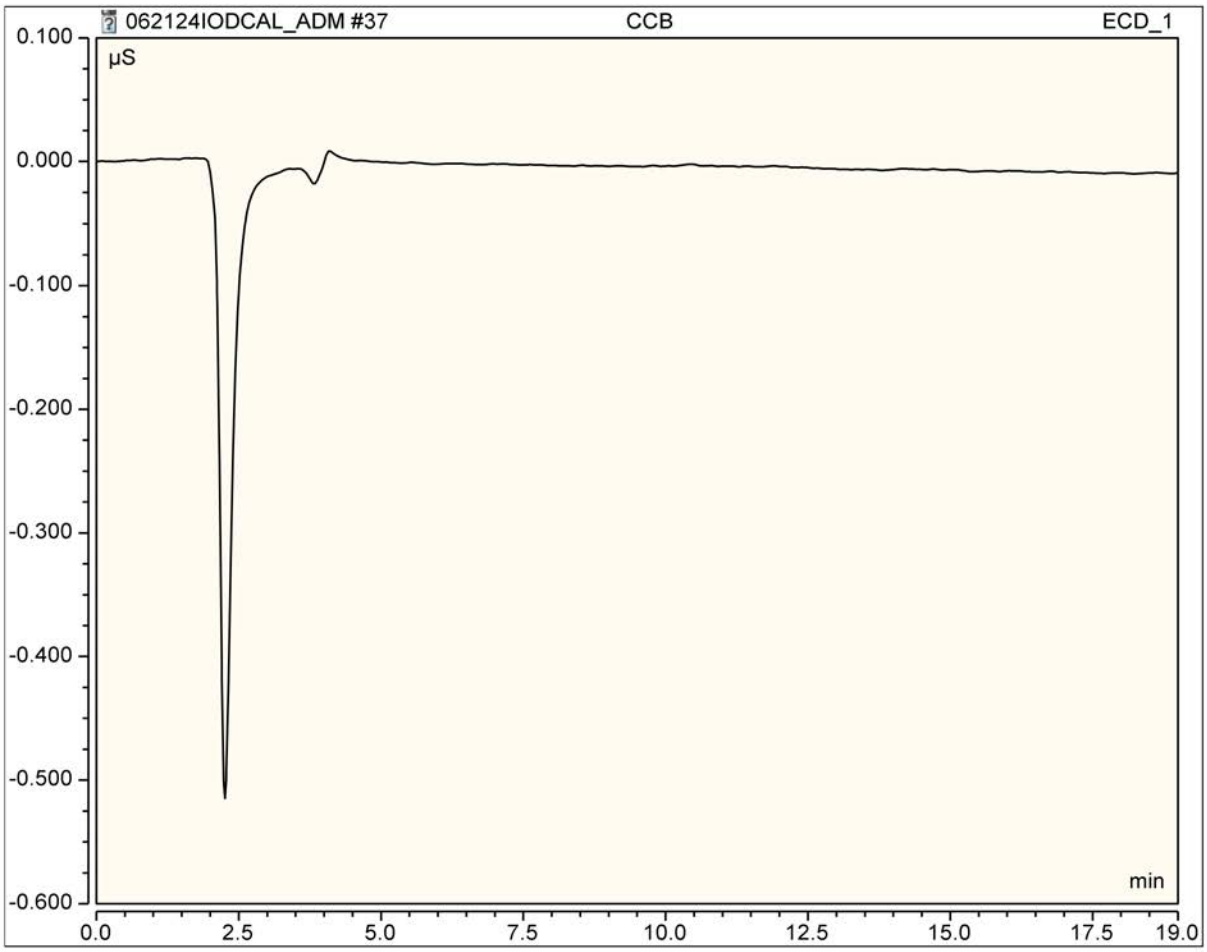
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	0.9942	0.029	0.051	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

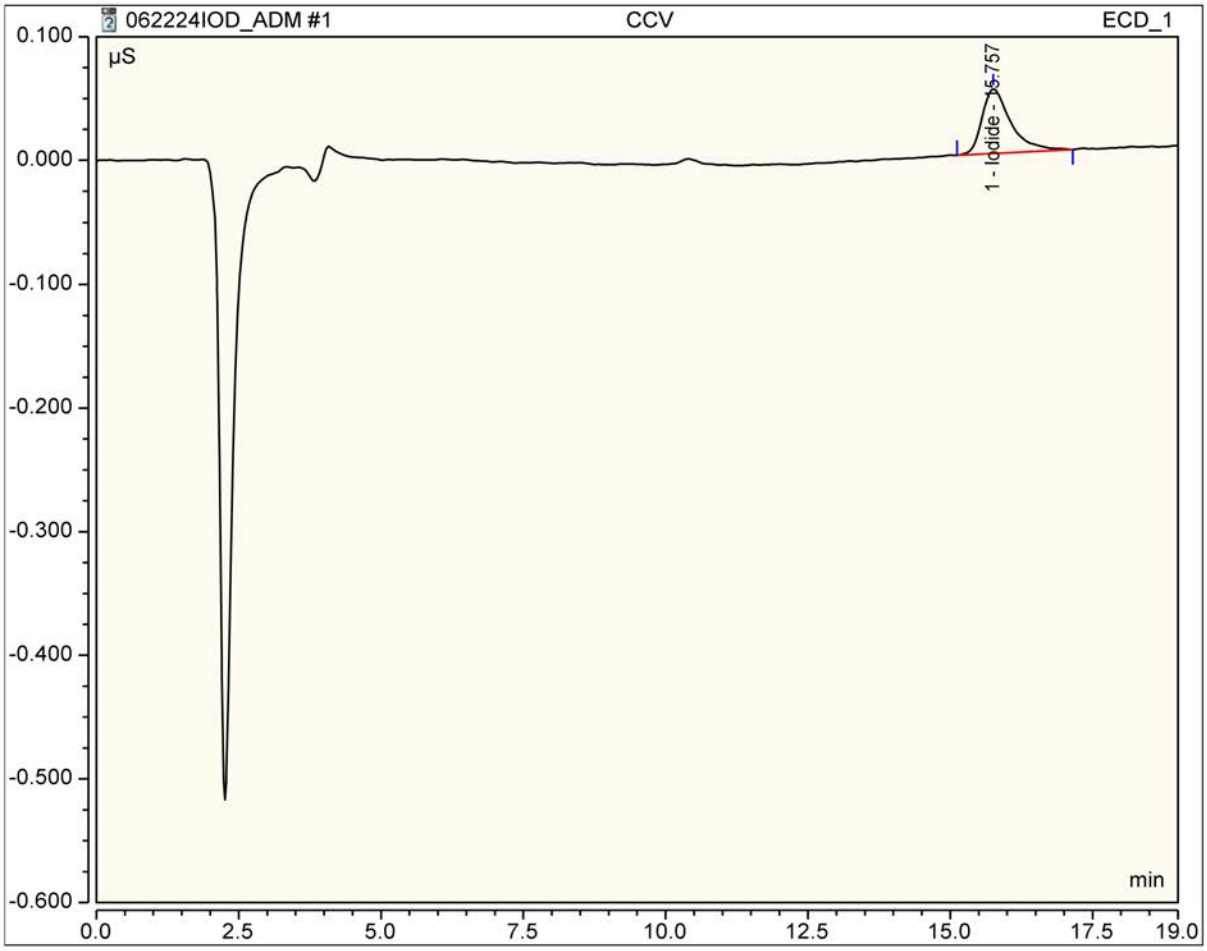
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 12:31**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

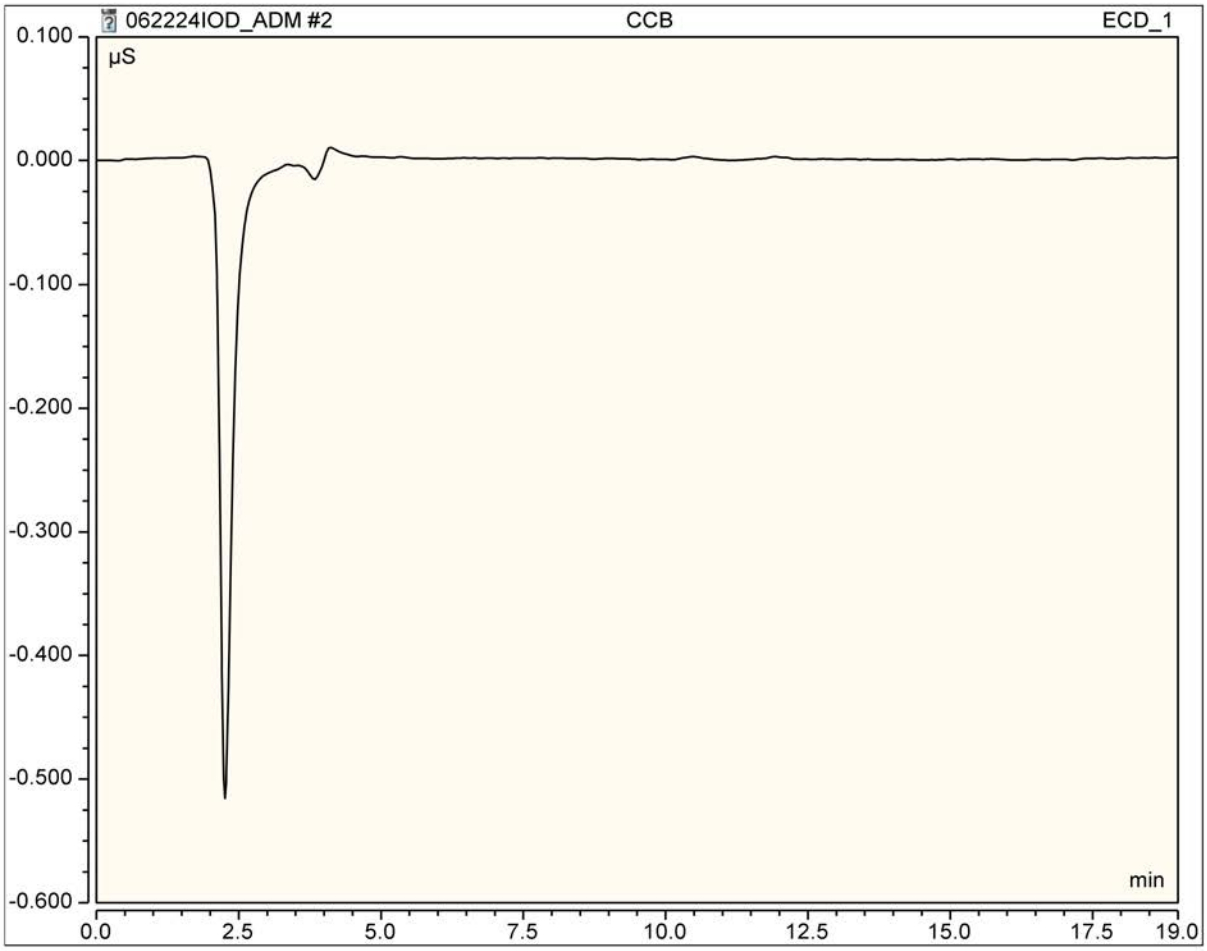
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0630	0.031	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 12:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

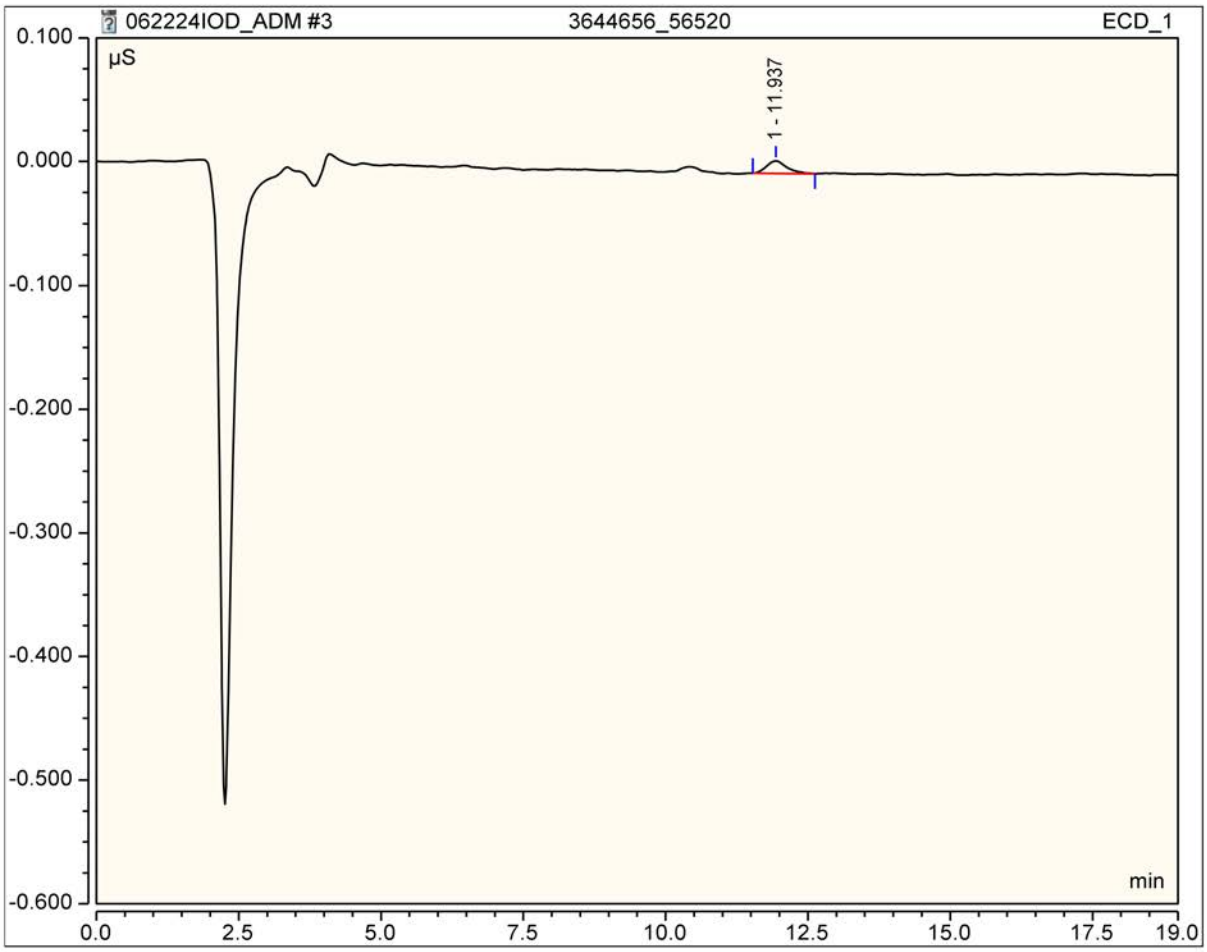
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644656_56520
340111

Sample Name:	**3644656_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 13:14**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

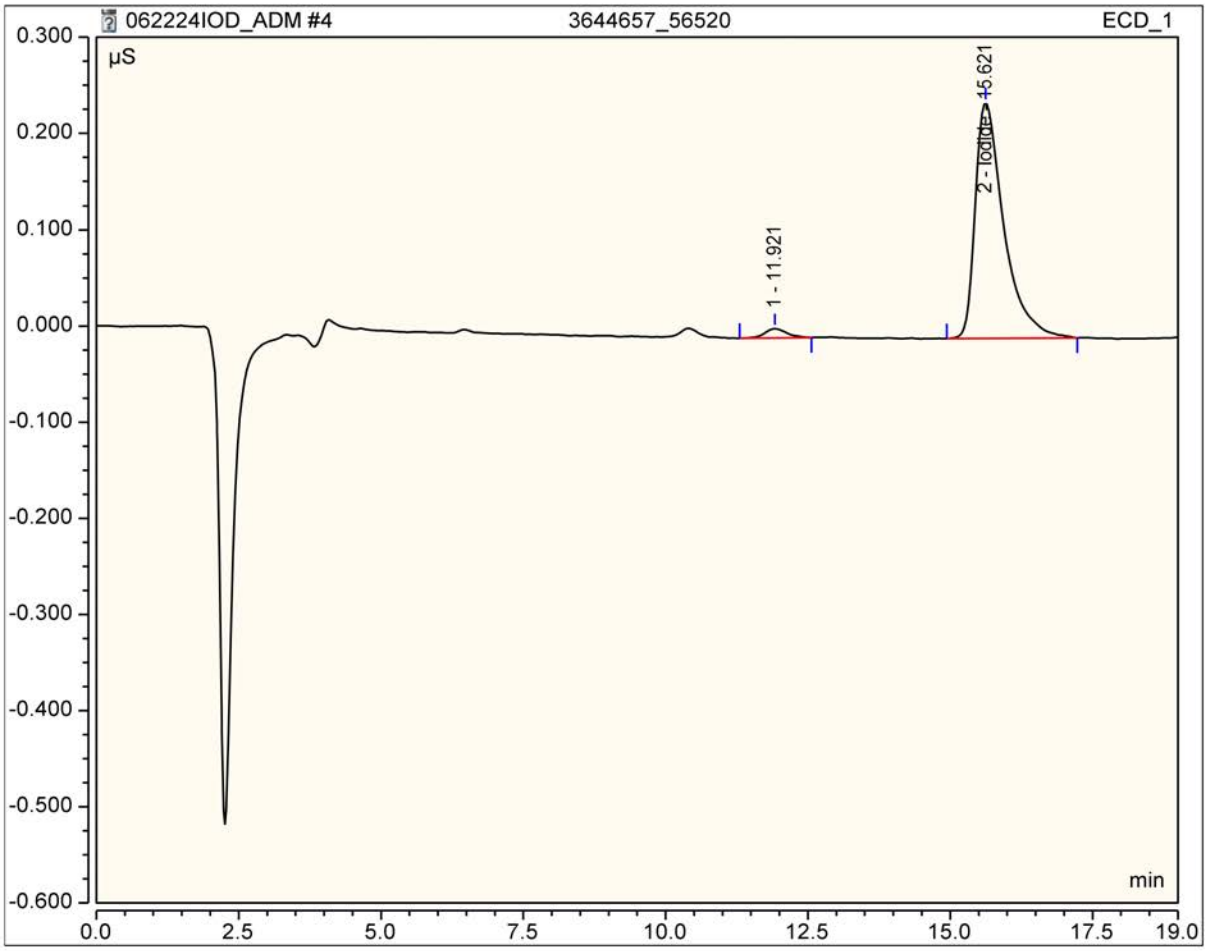
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644657_56520
377680

Sample Name:	**3644657_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 13:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

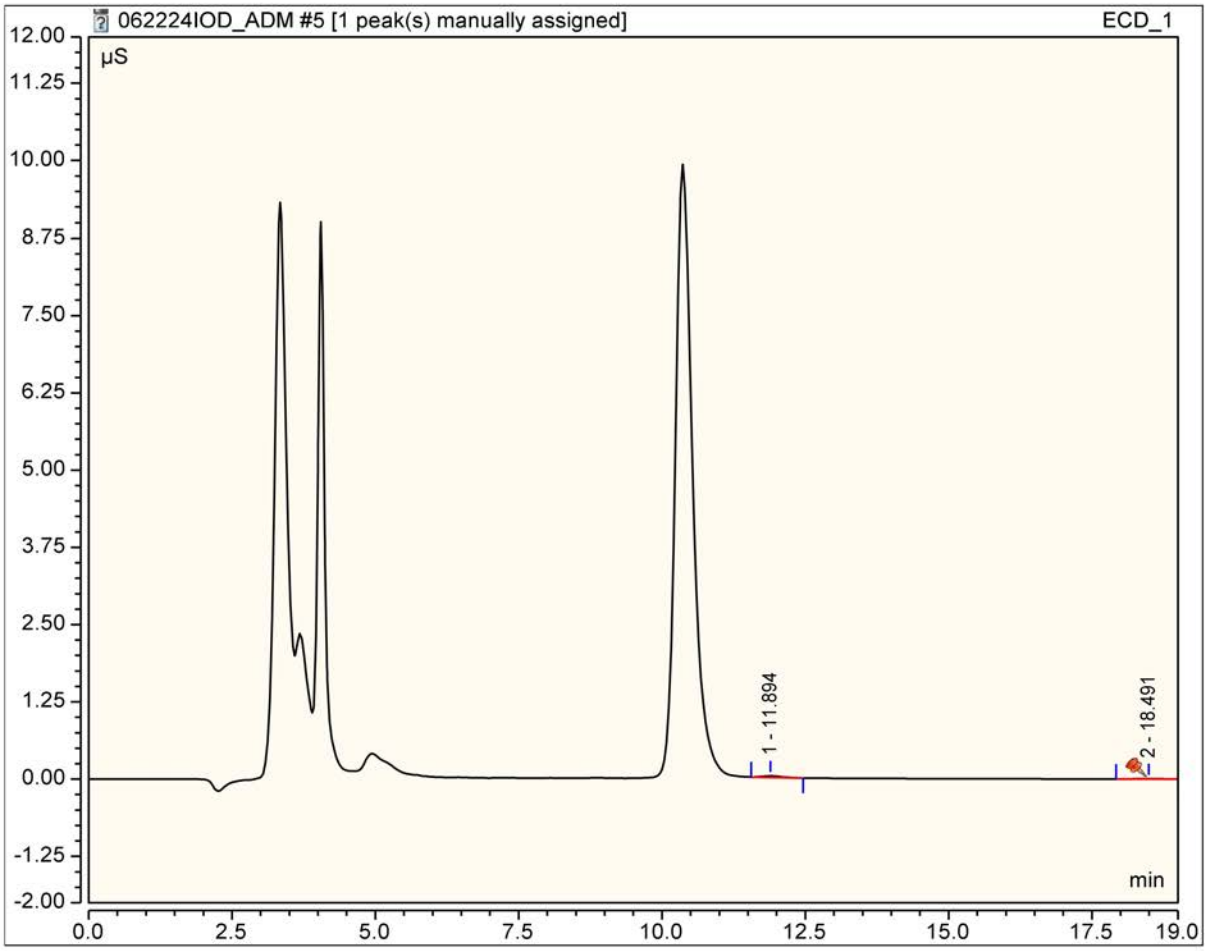
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.62	**Iodide**	4.6787	0.142	0.244	BMB



92735570001_56520X10

Sample Name:	**92735570001_56520X10**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 16:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

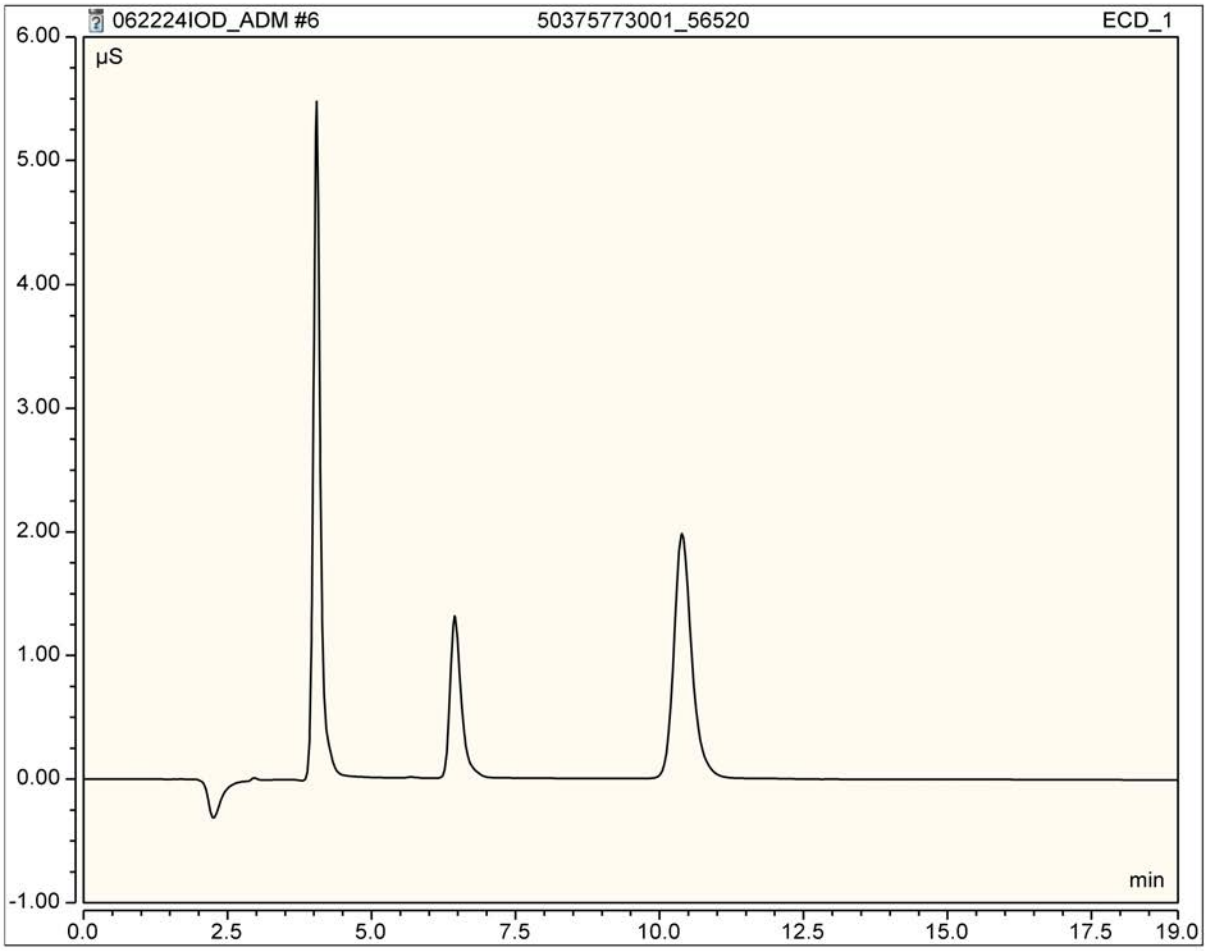
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773001_56520

Sample Name:	**50375773001_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

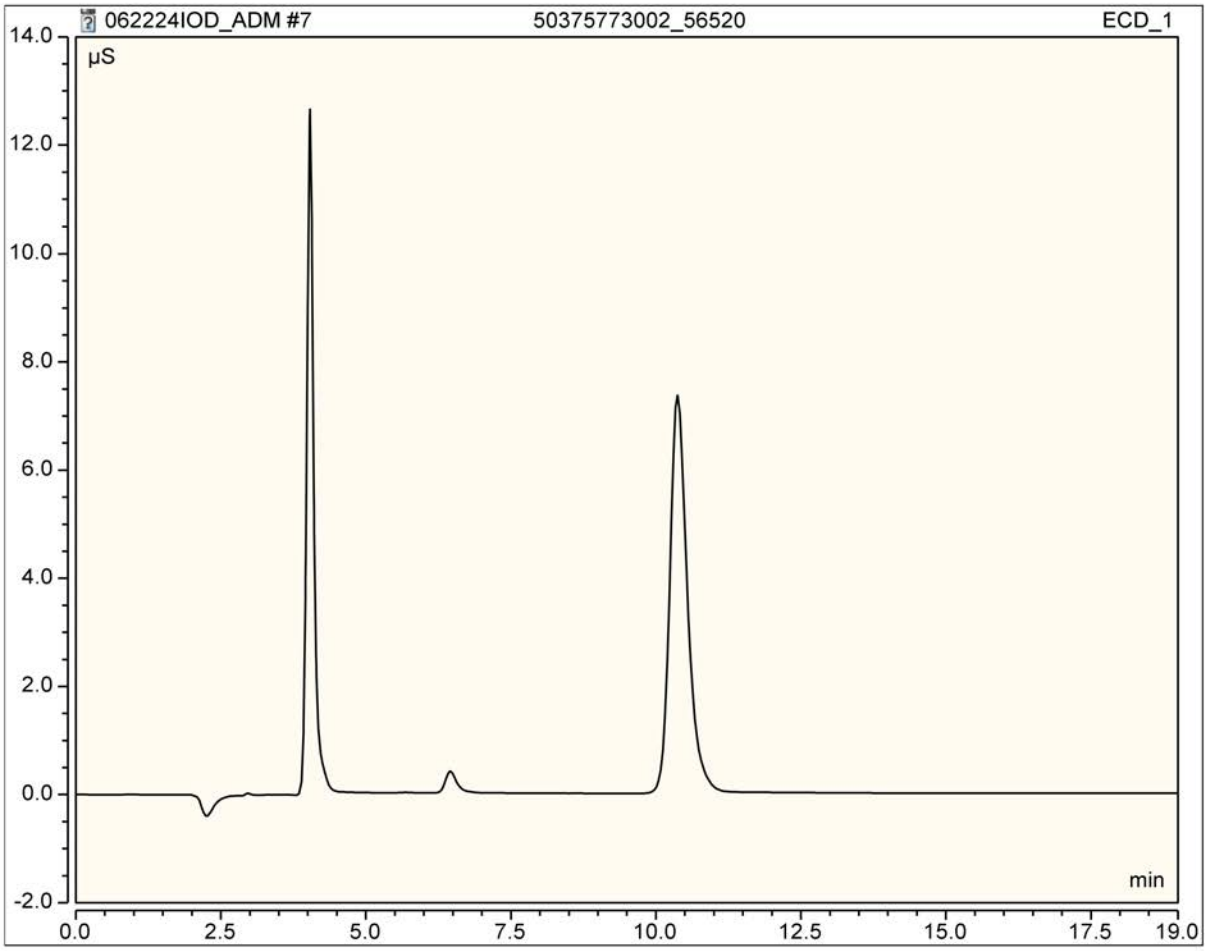
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773002_56520

Sample Name:	**50375773002_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

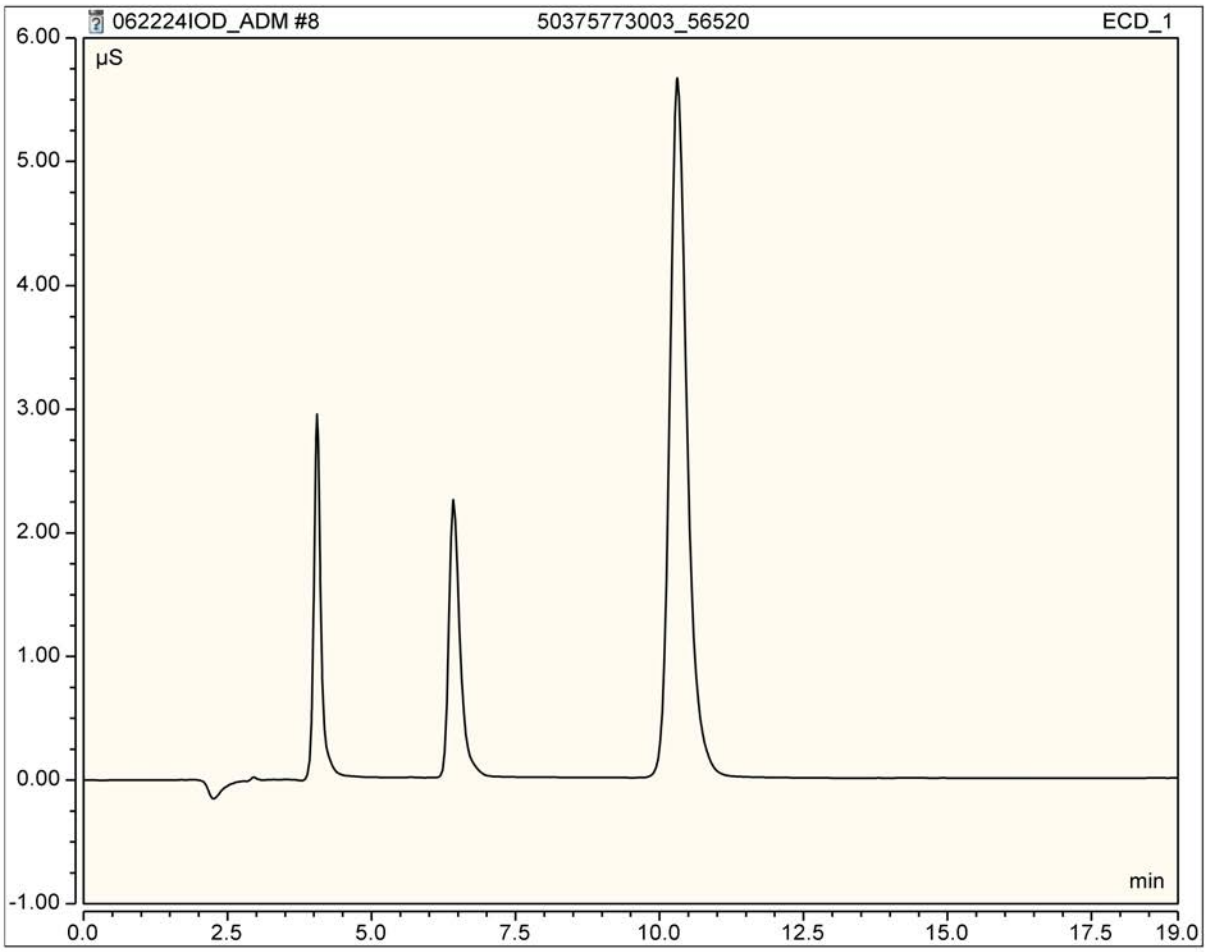
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773003_56520

Sample Name:	**50375773003_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

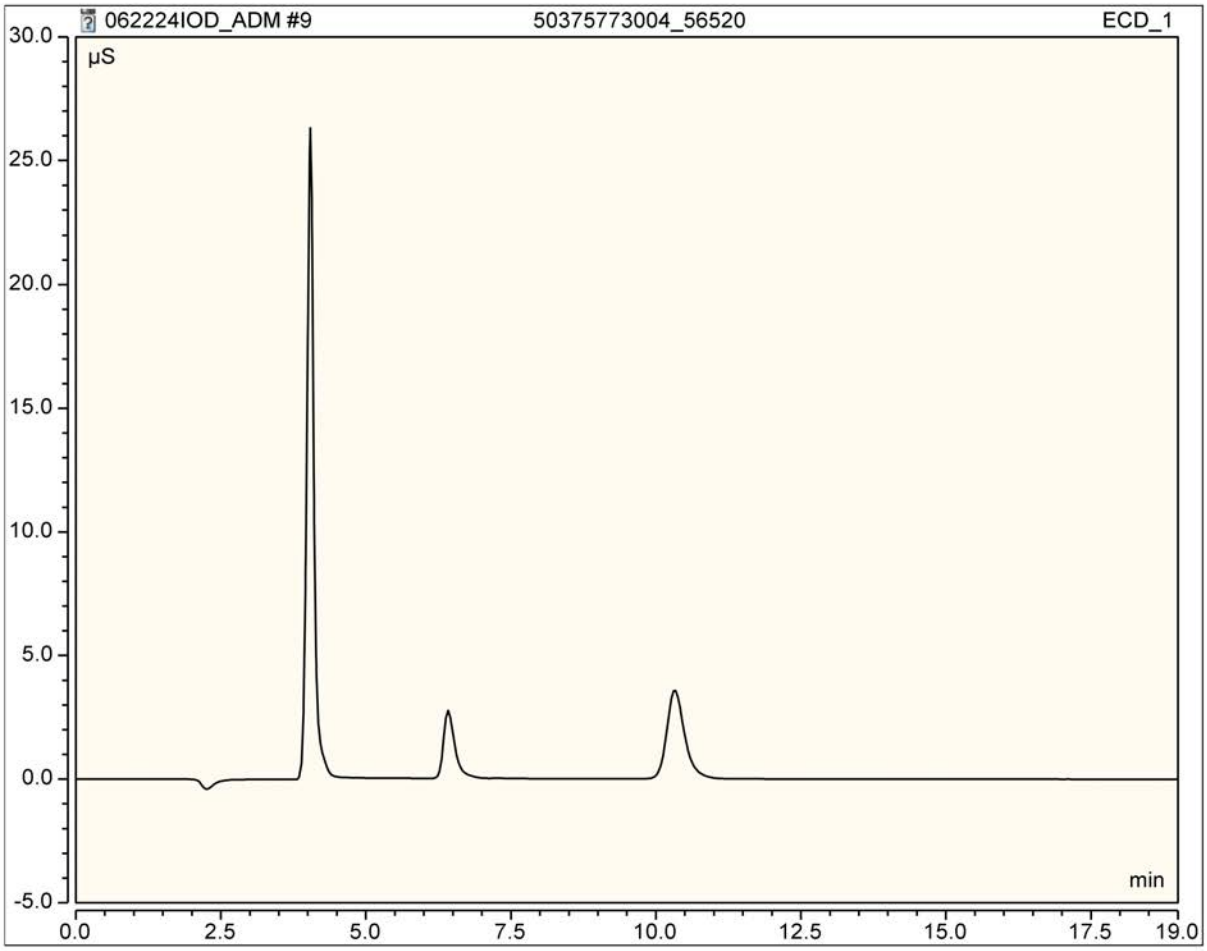
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773004_56520

Sample Name:	**50375773004_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

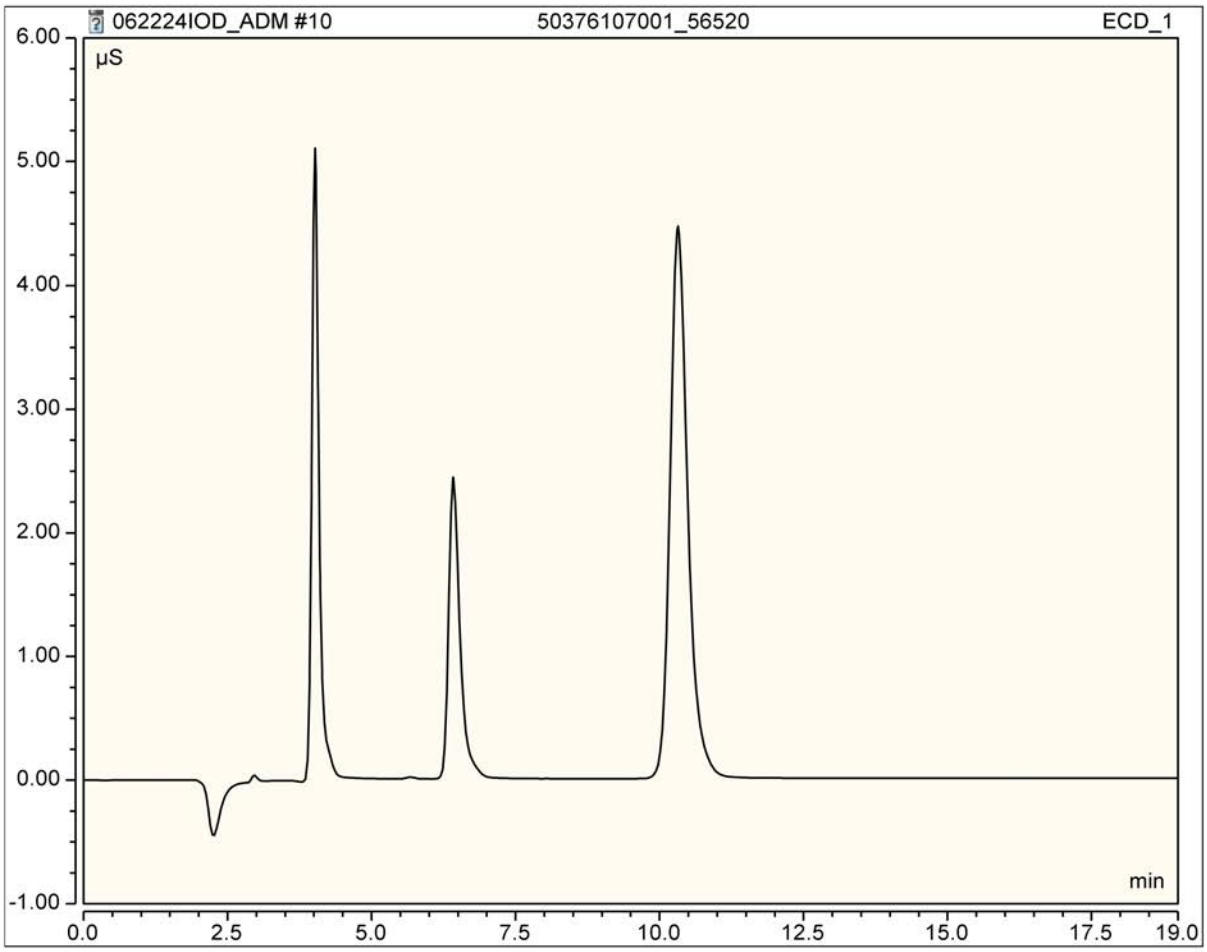
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107001_56520

Sample Name:	**50376107001_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

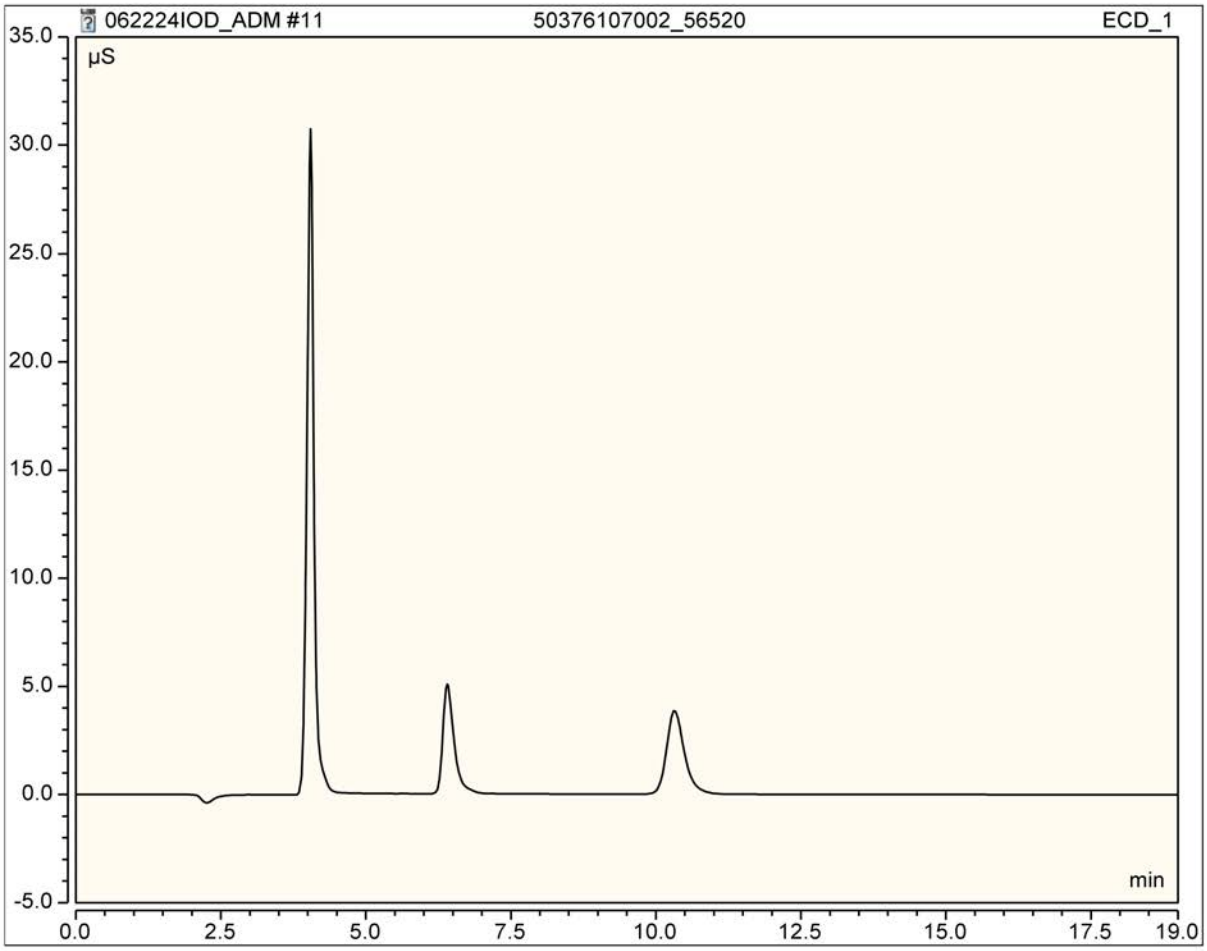
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107002_56520

Sample Name:	**50376107002_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

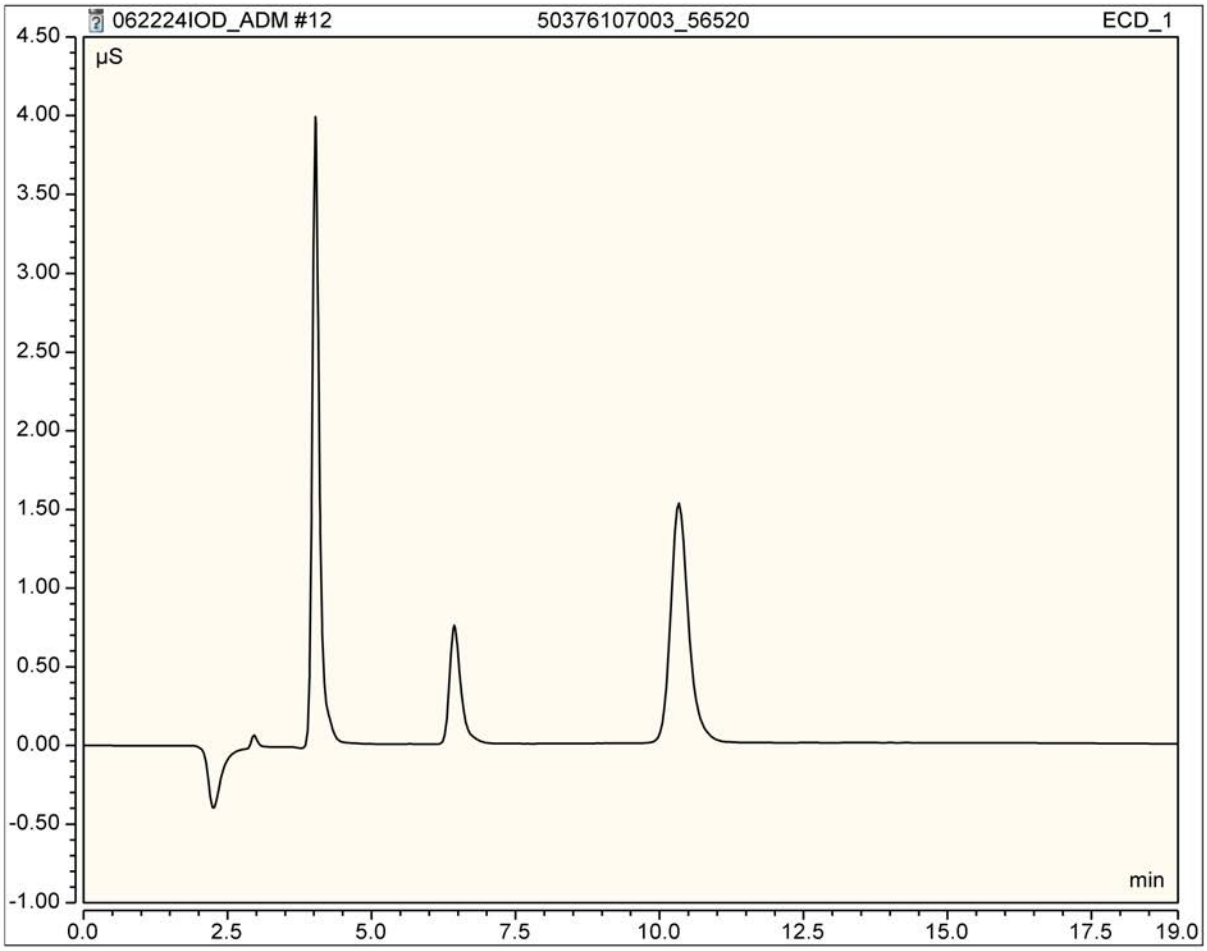
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107003_56520

Sample Name:	**50376107003_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 19:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

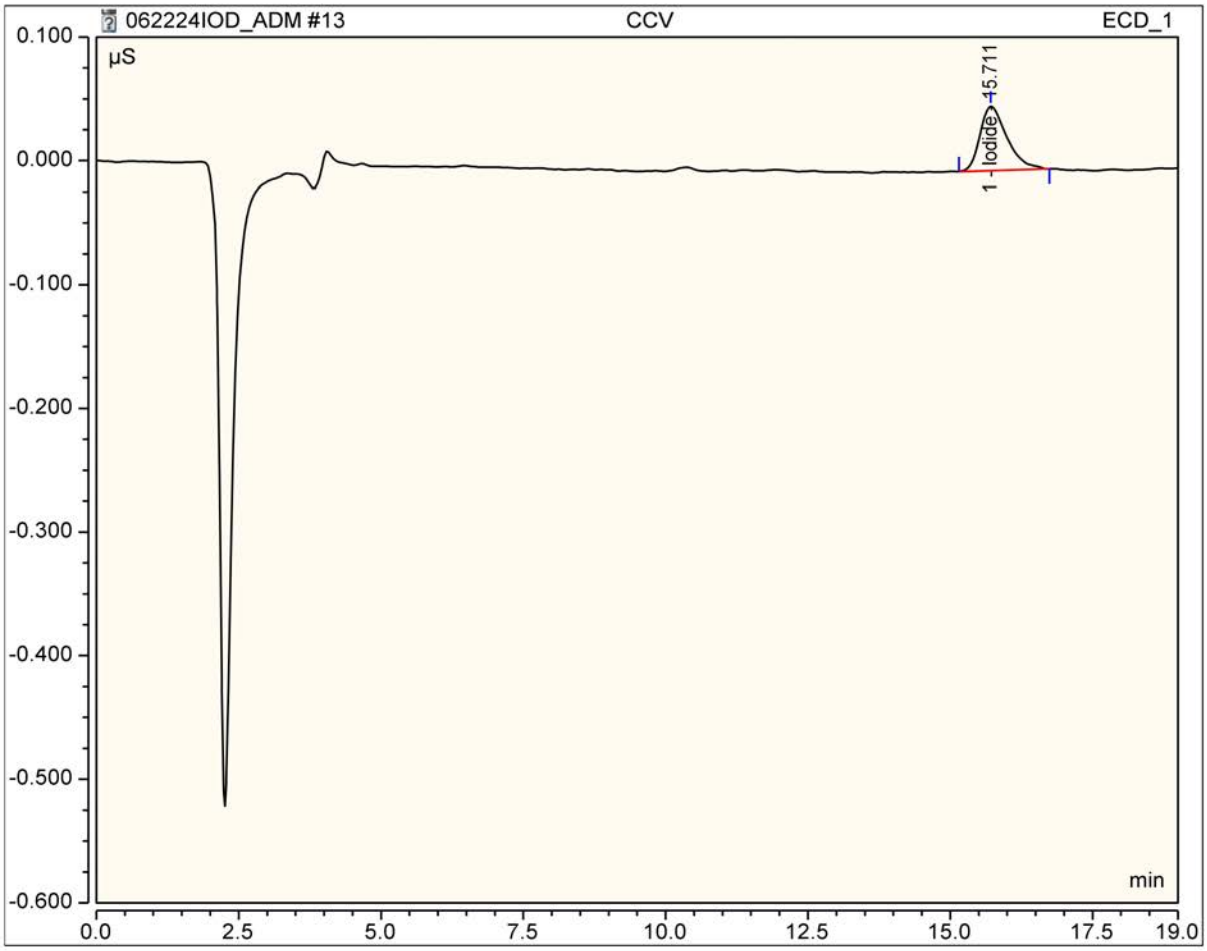
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 19:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

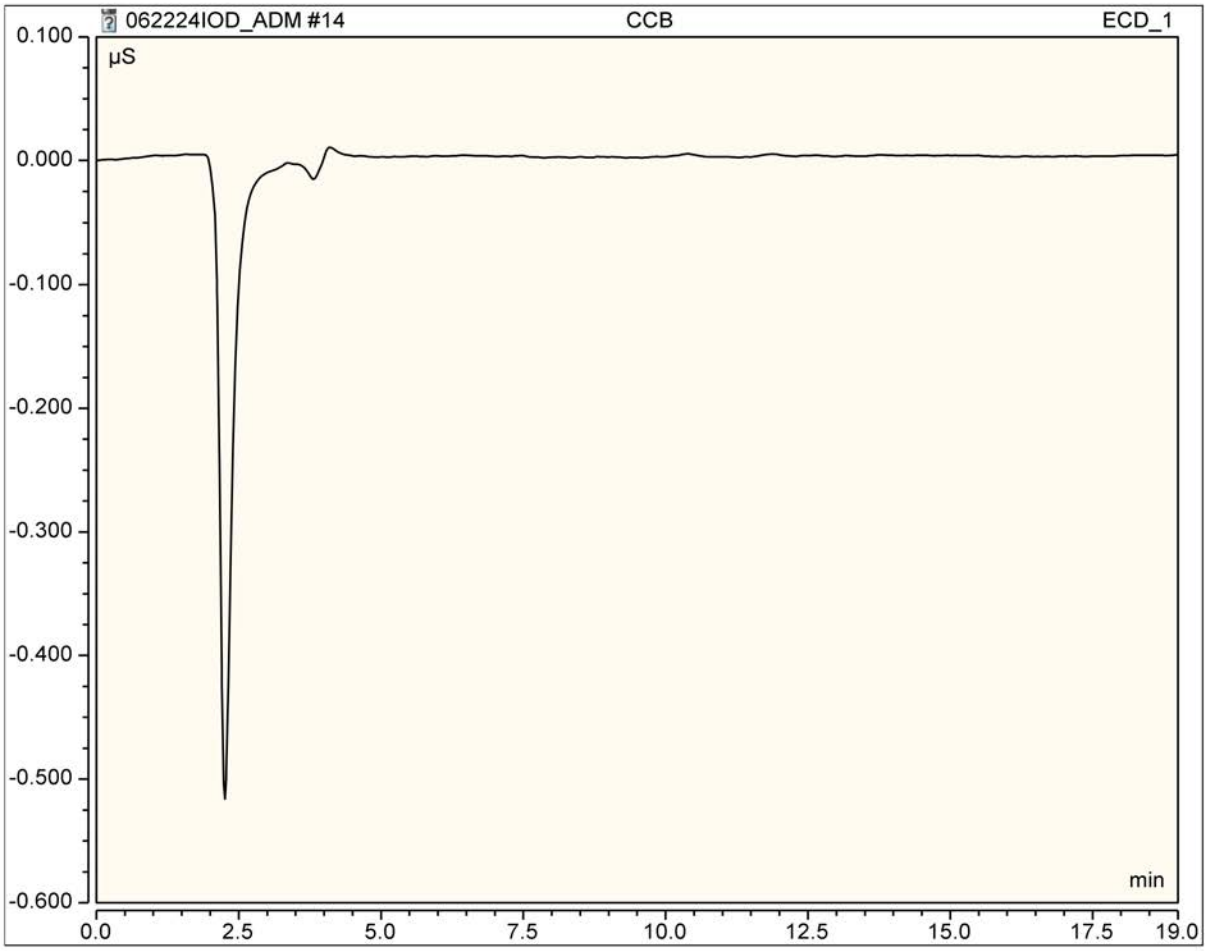
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	0.9914	0.028	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

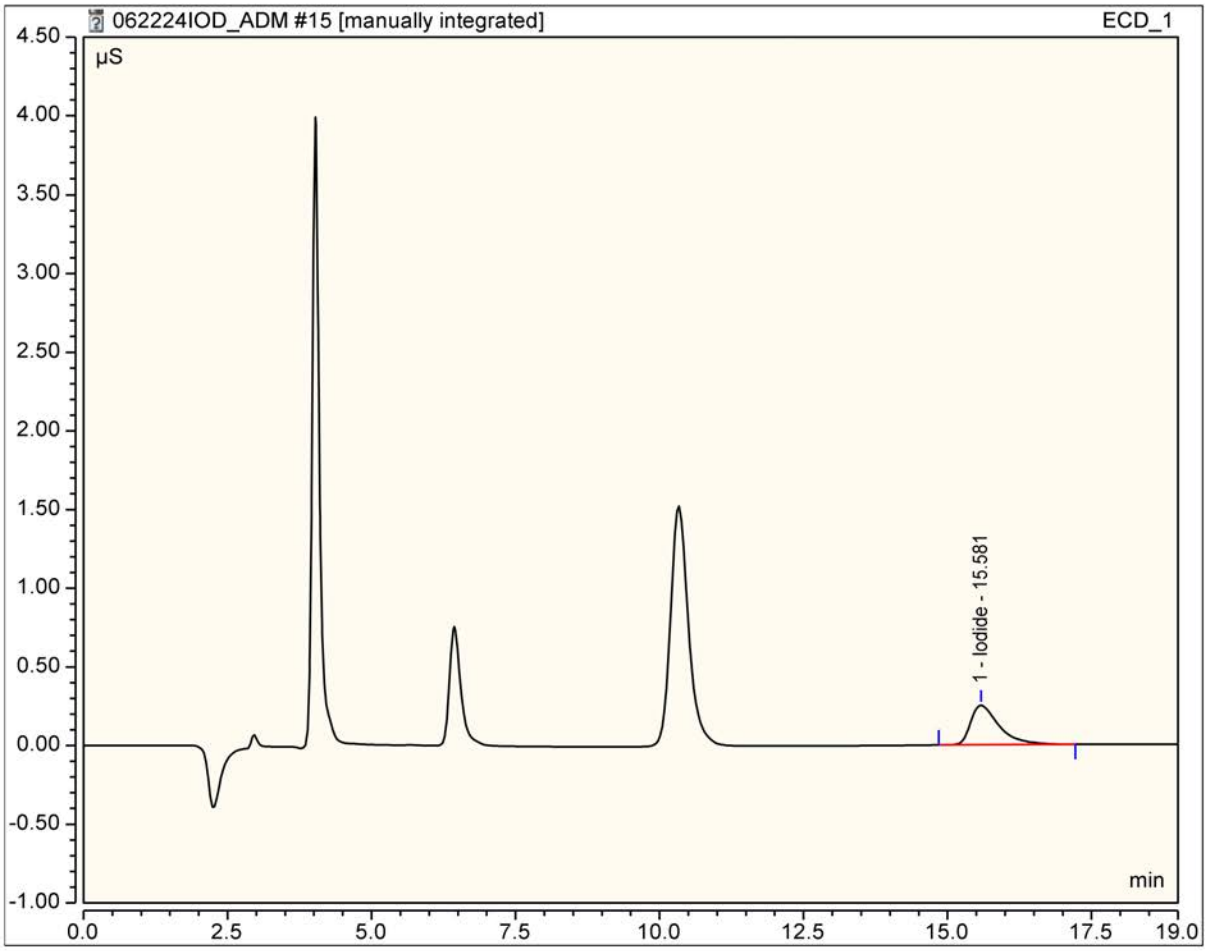
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644658_56520
377680

Sample Name:	**3644658_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

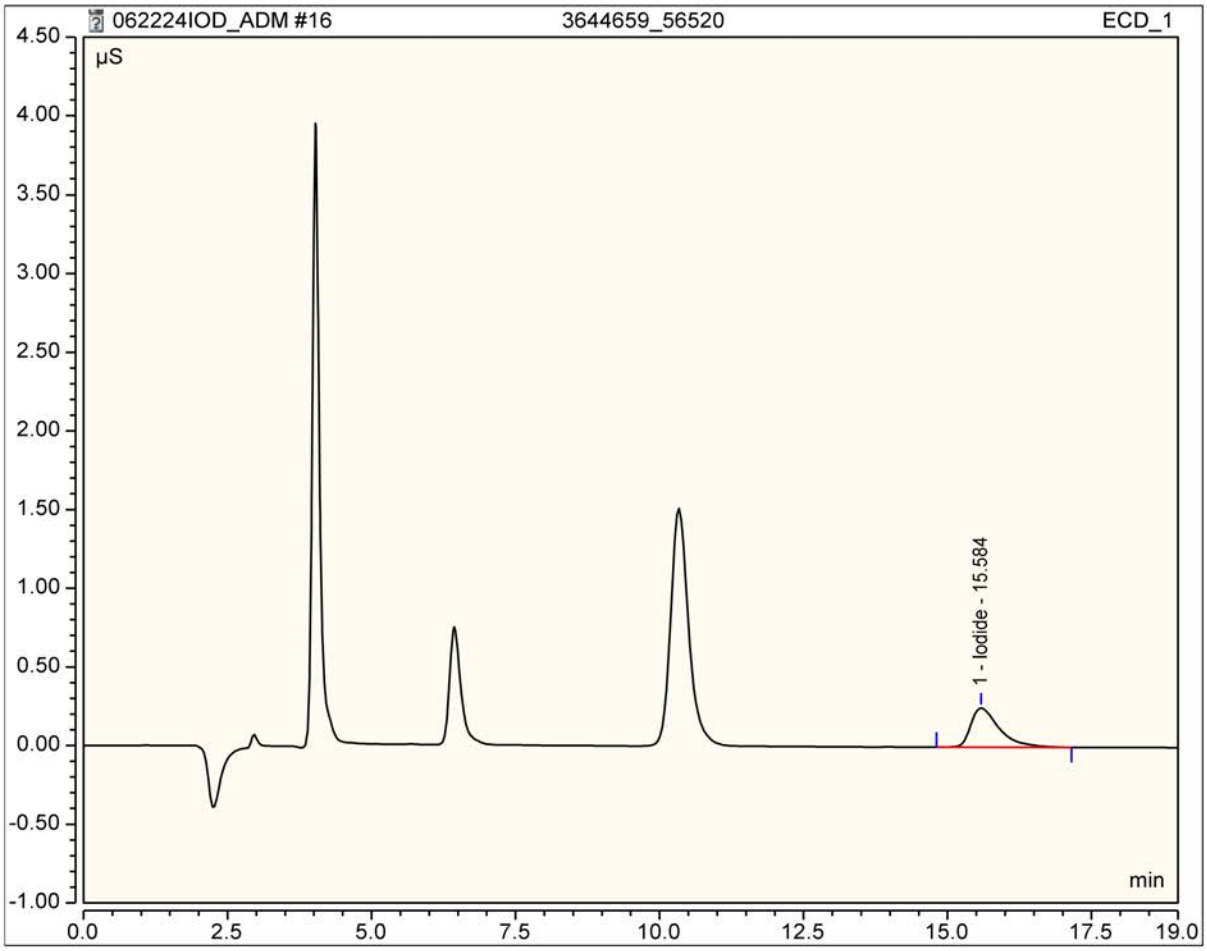
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7448	0.144	0.251	BMB*



3644659_56520
377680

Sample Name:	**3644659_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

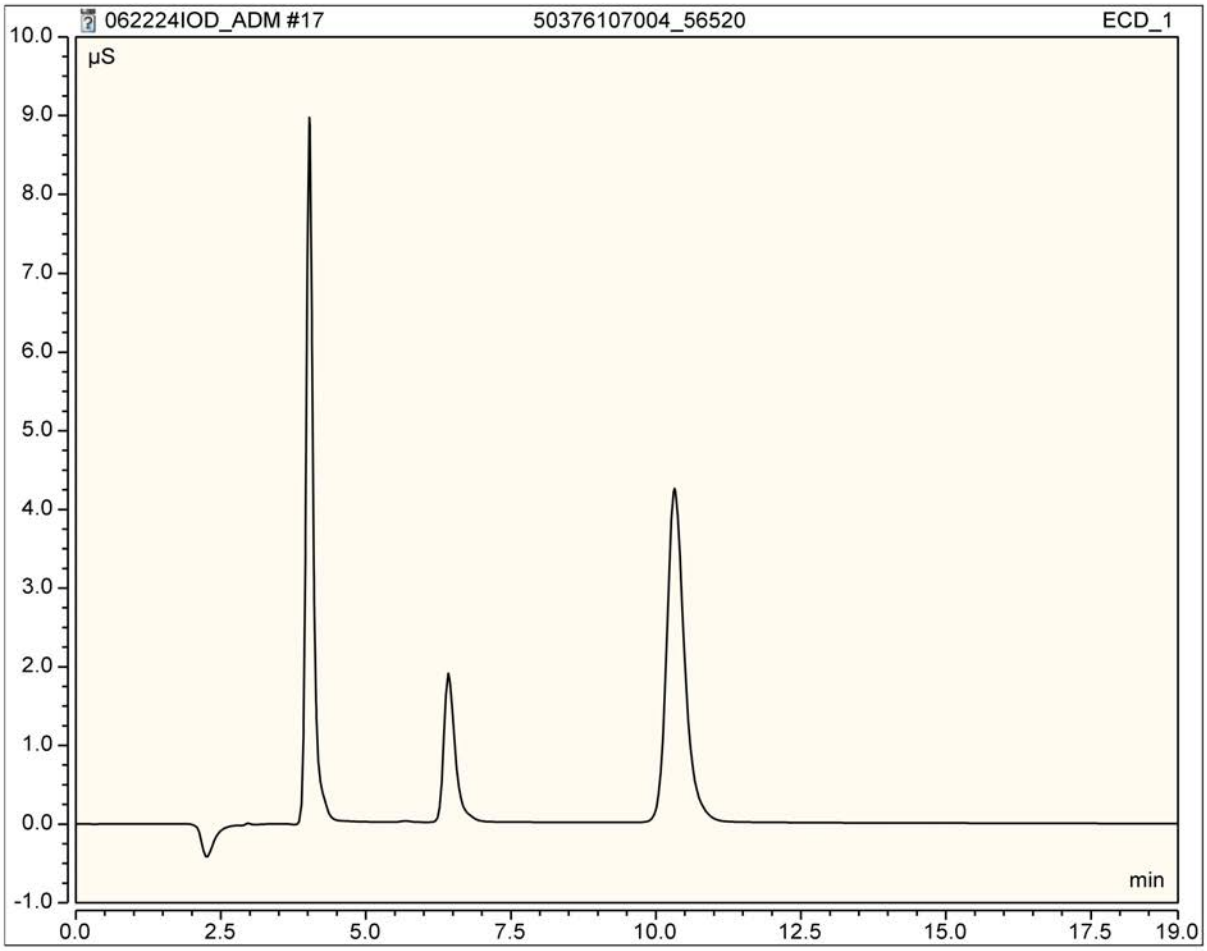
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.6846	0.142	0.248	BMB



50376107004_56520

Sample Name:	**50376107004_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

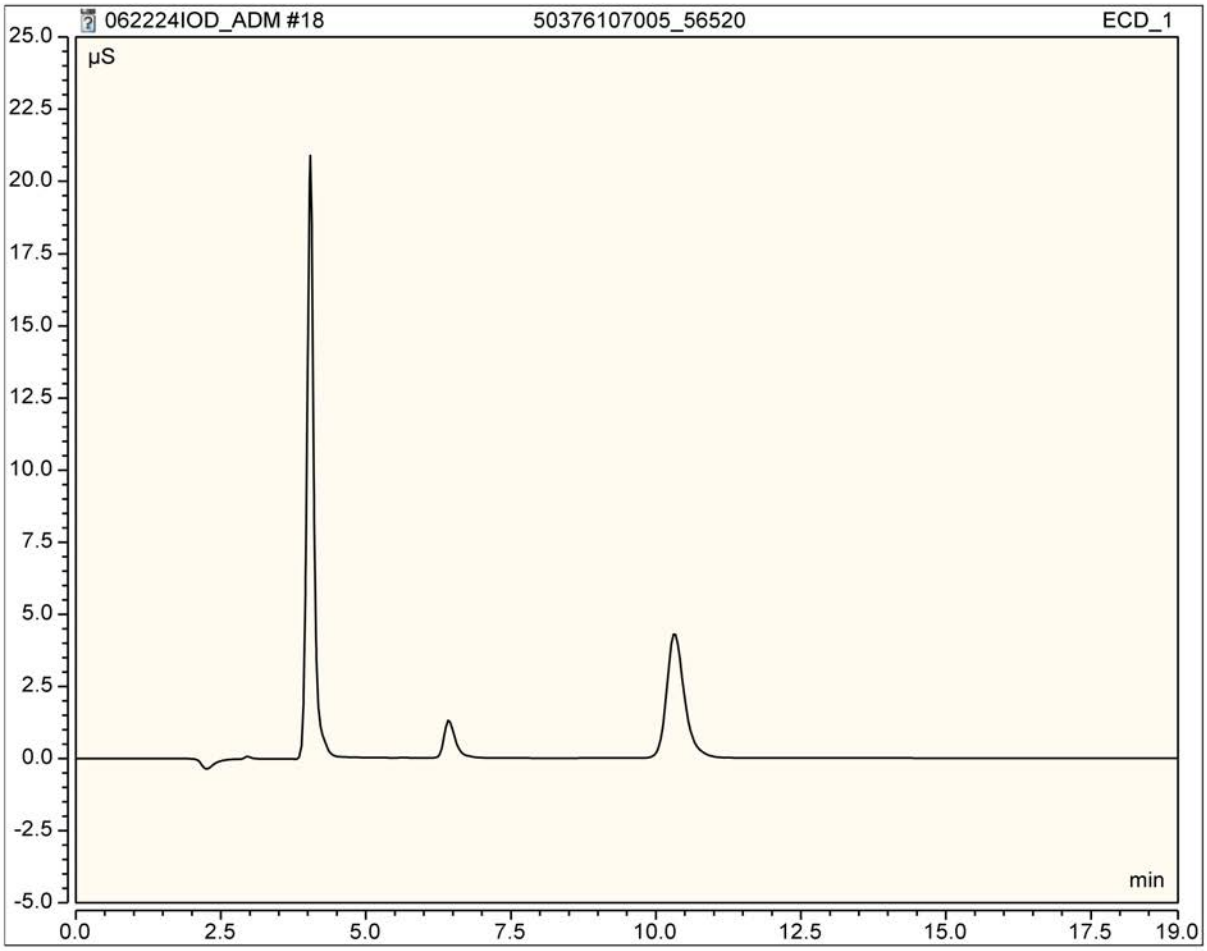
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107005_56520

Sample Name:	**50376107005_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

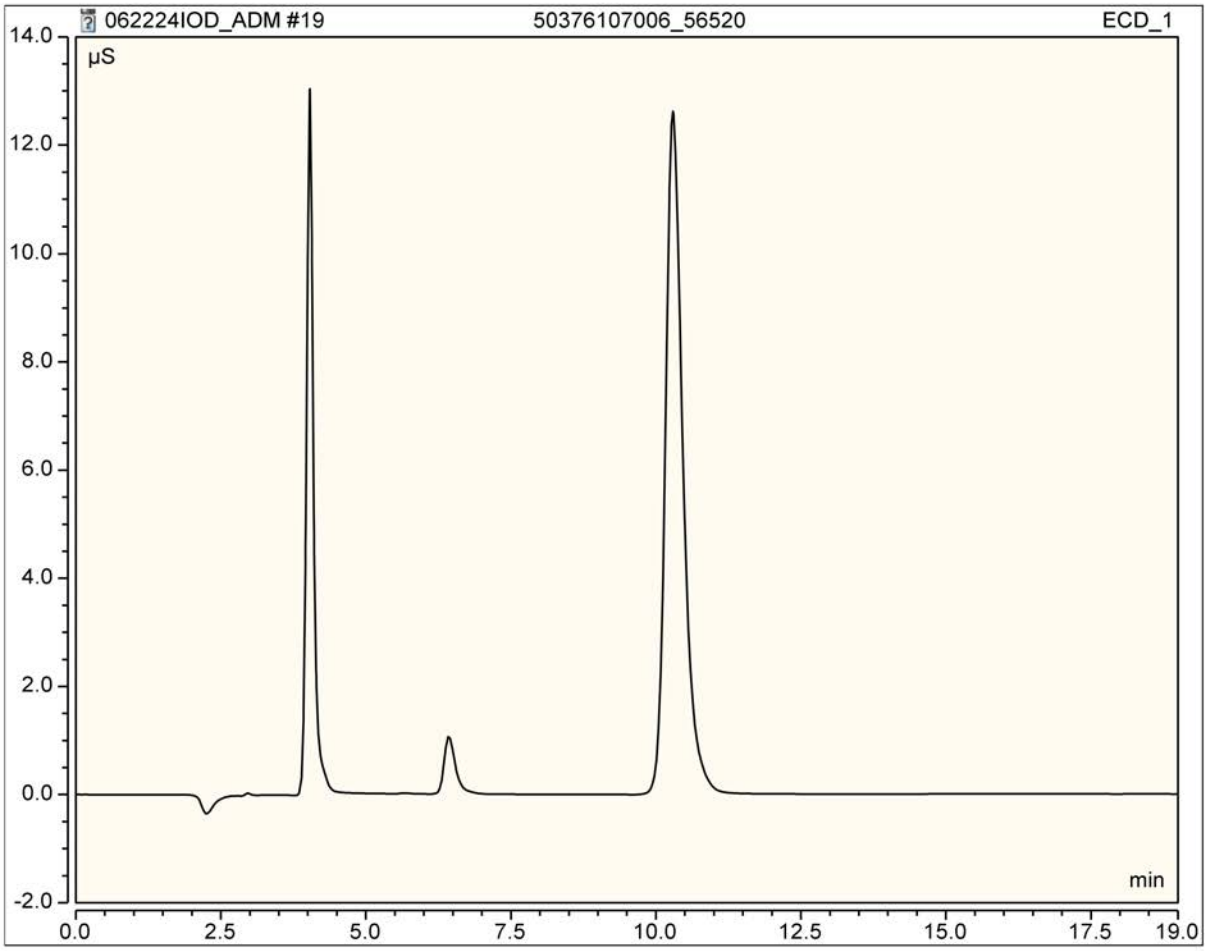
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107006_56520

Sample Name:	**50376107006_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

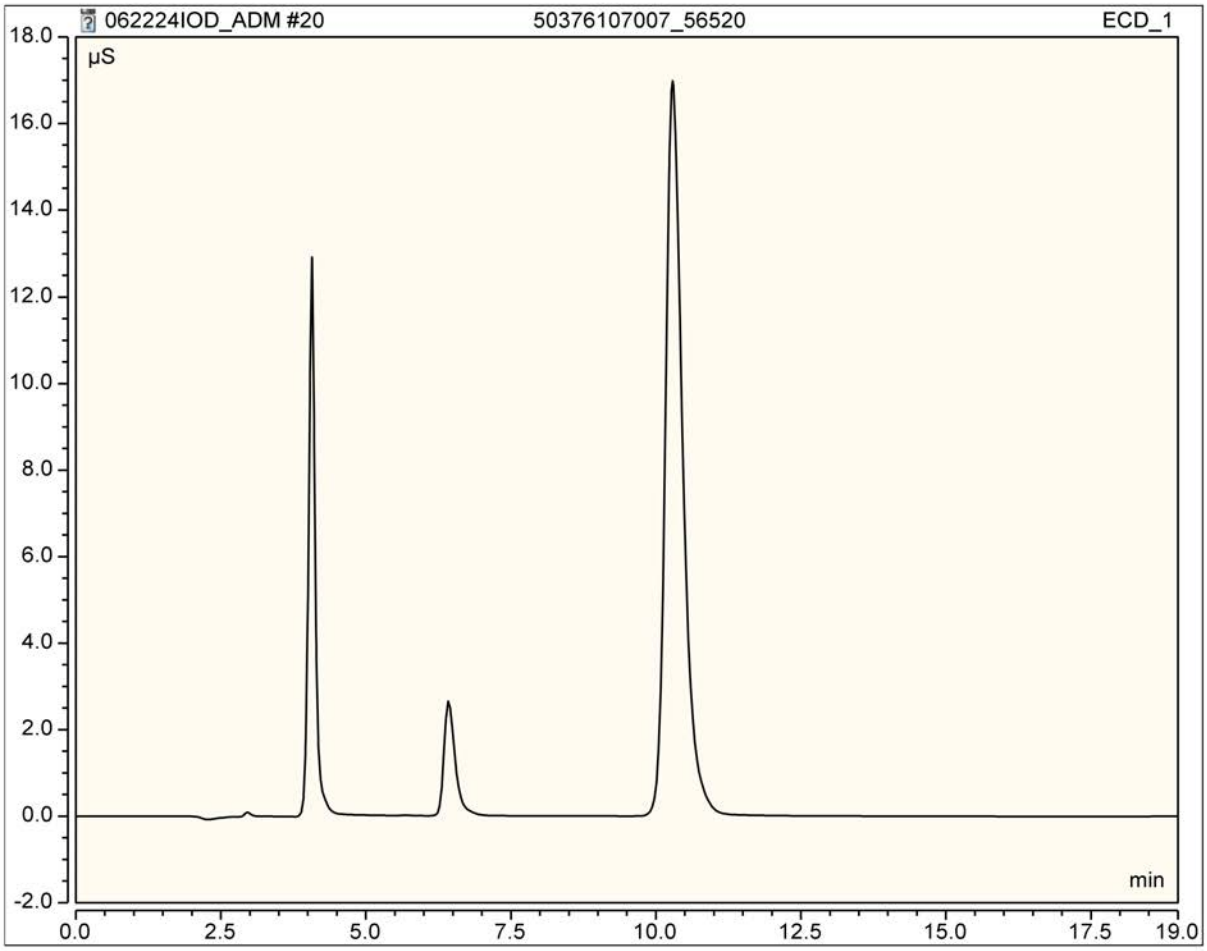
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107007_56520

Sample Name:	**50376107007_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

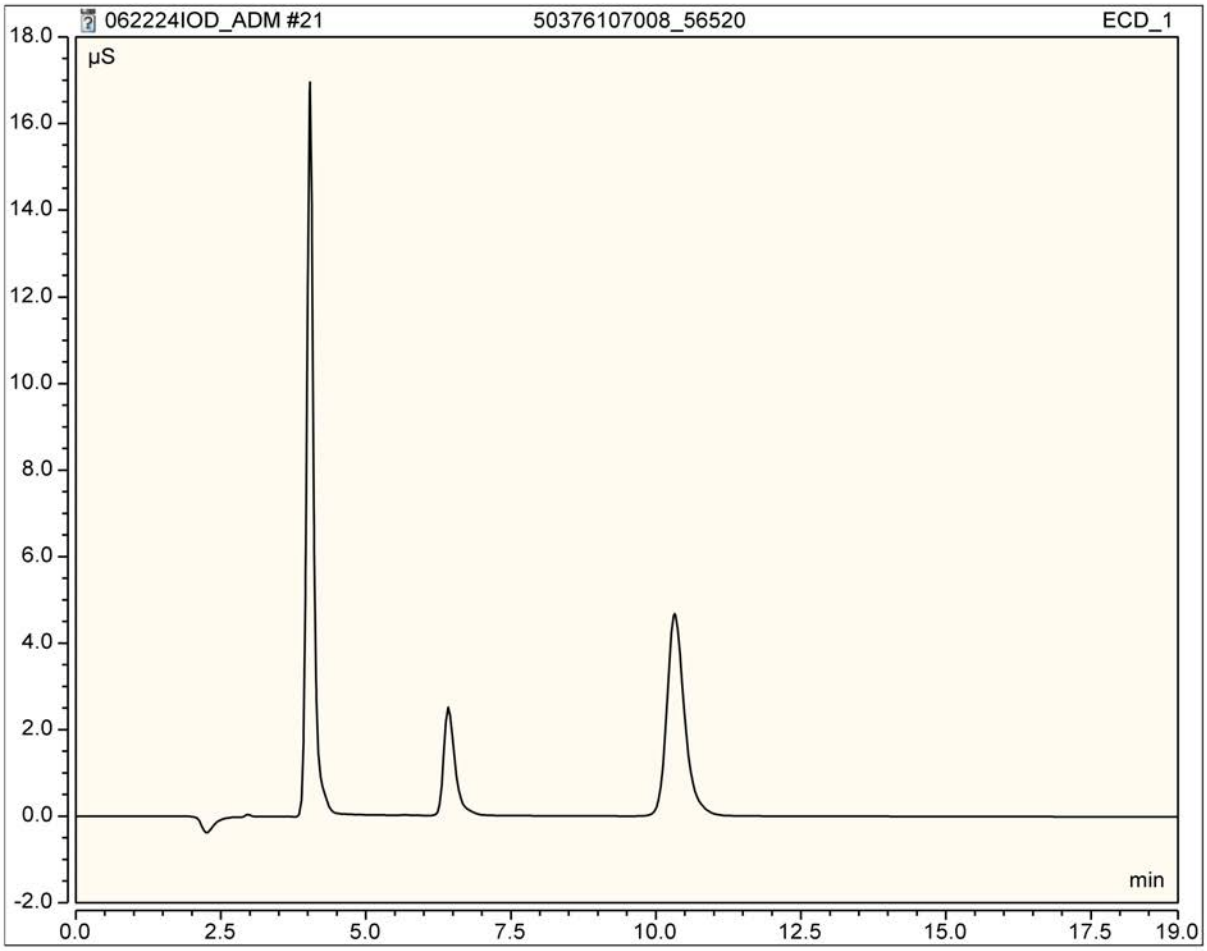
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107008_56520

Sample Name:	**50376107008_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*17*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

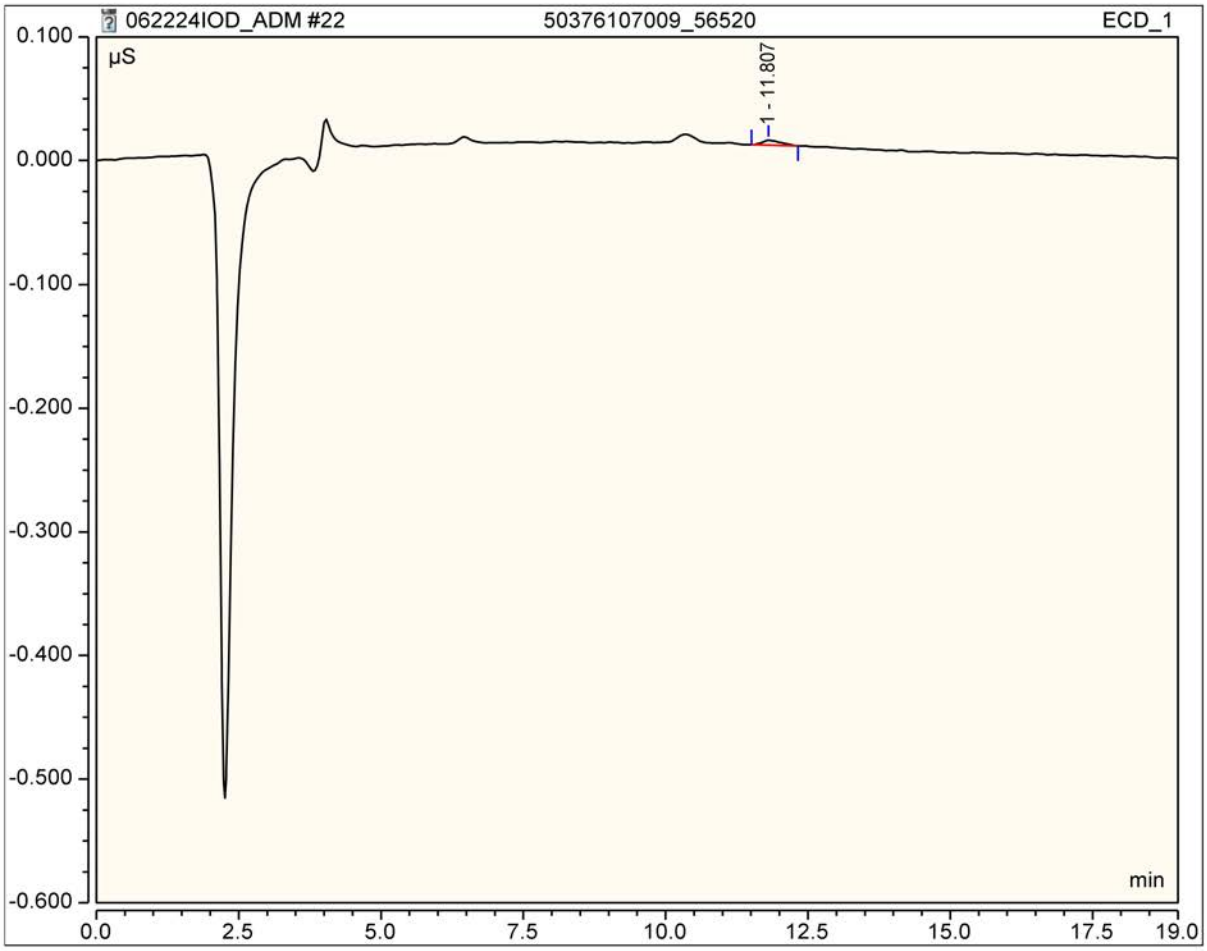
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107009_56520

Sample Name:	**50376107009_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*18*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

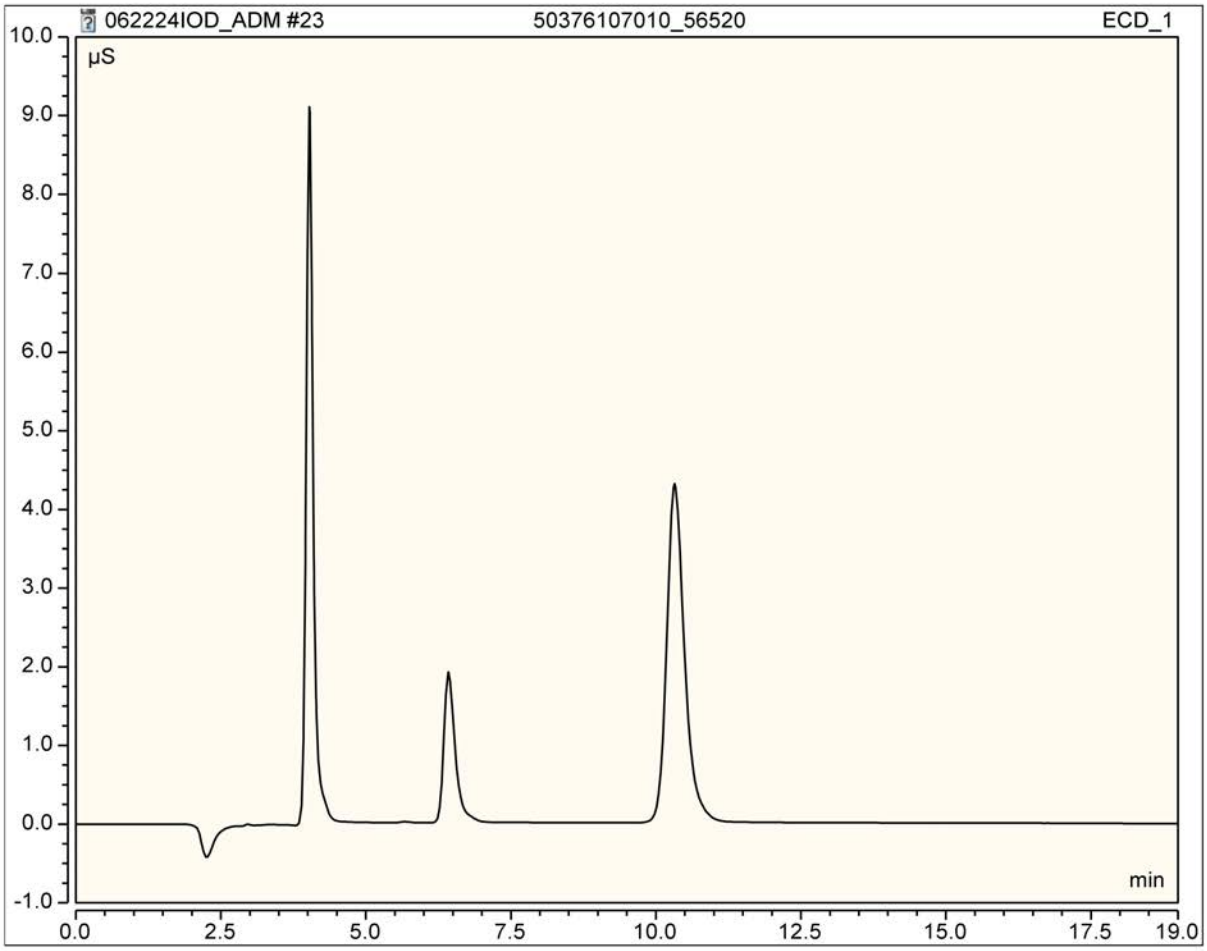
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107010_56520

Sample Name:	**50376107010_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*19*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 23:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

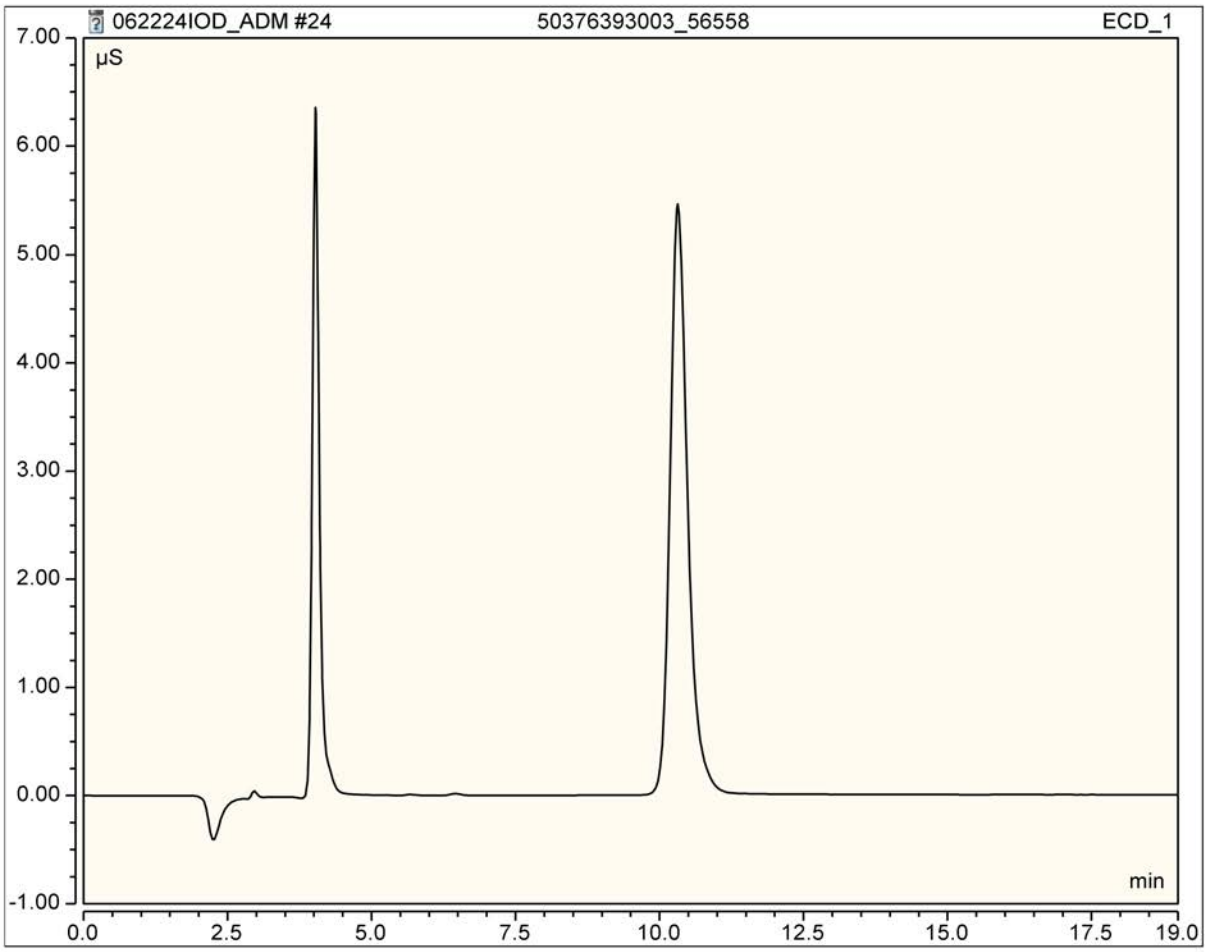
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393003_56558

Sample Name:	**50376393003_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 23:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

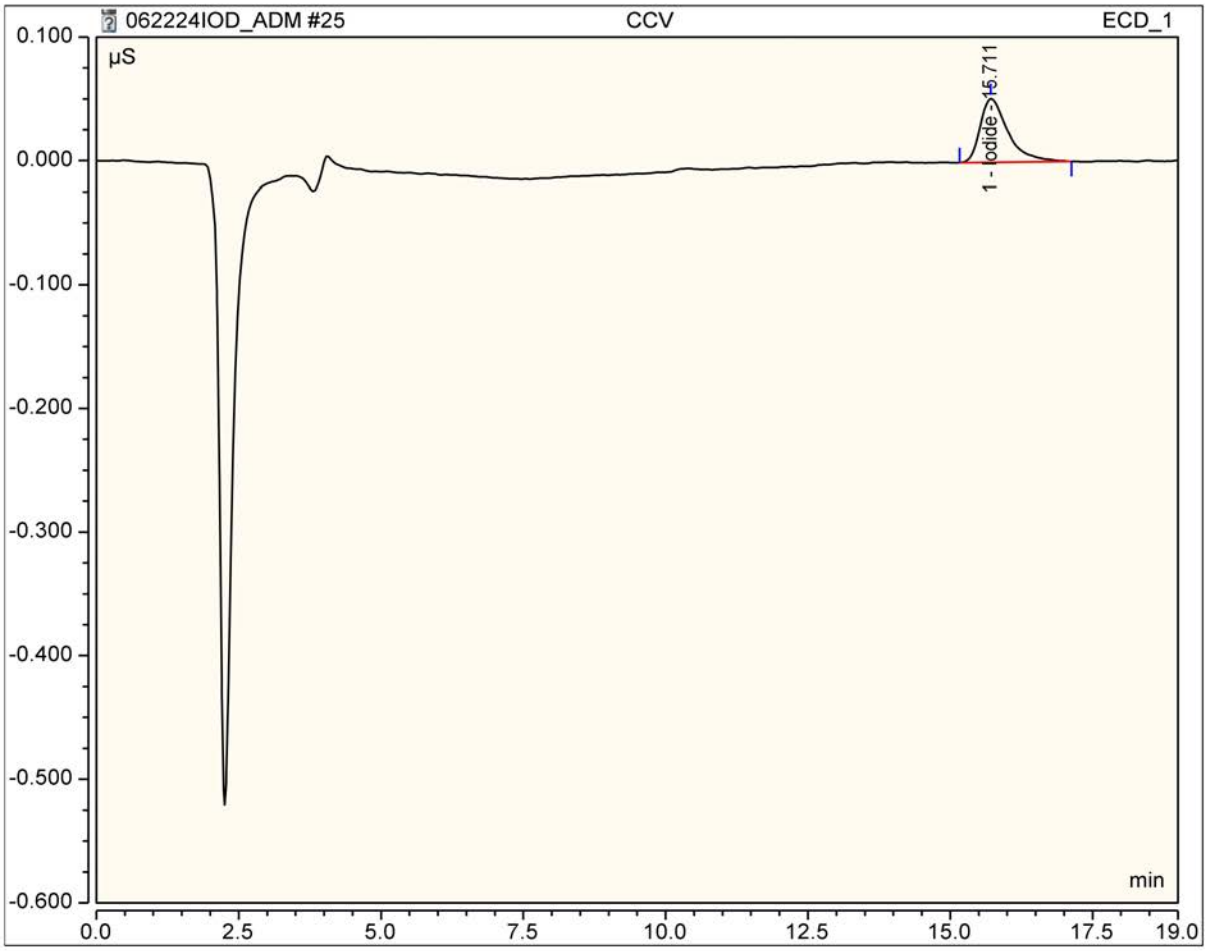
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

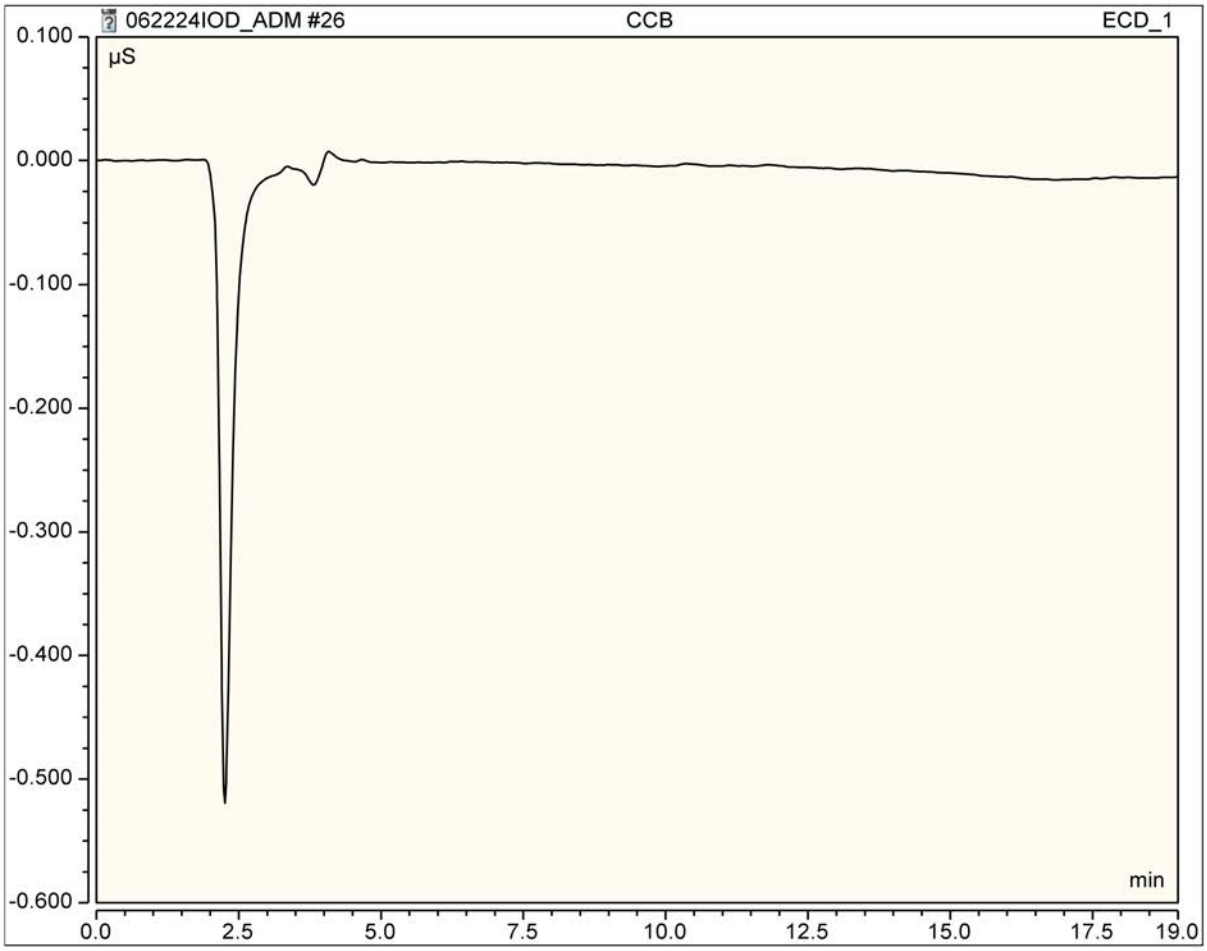
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	1.0189	0.029	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

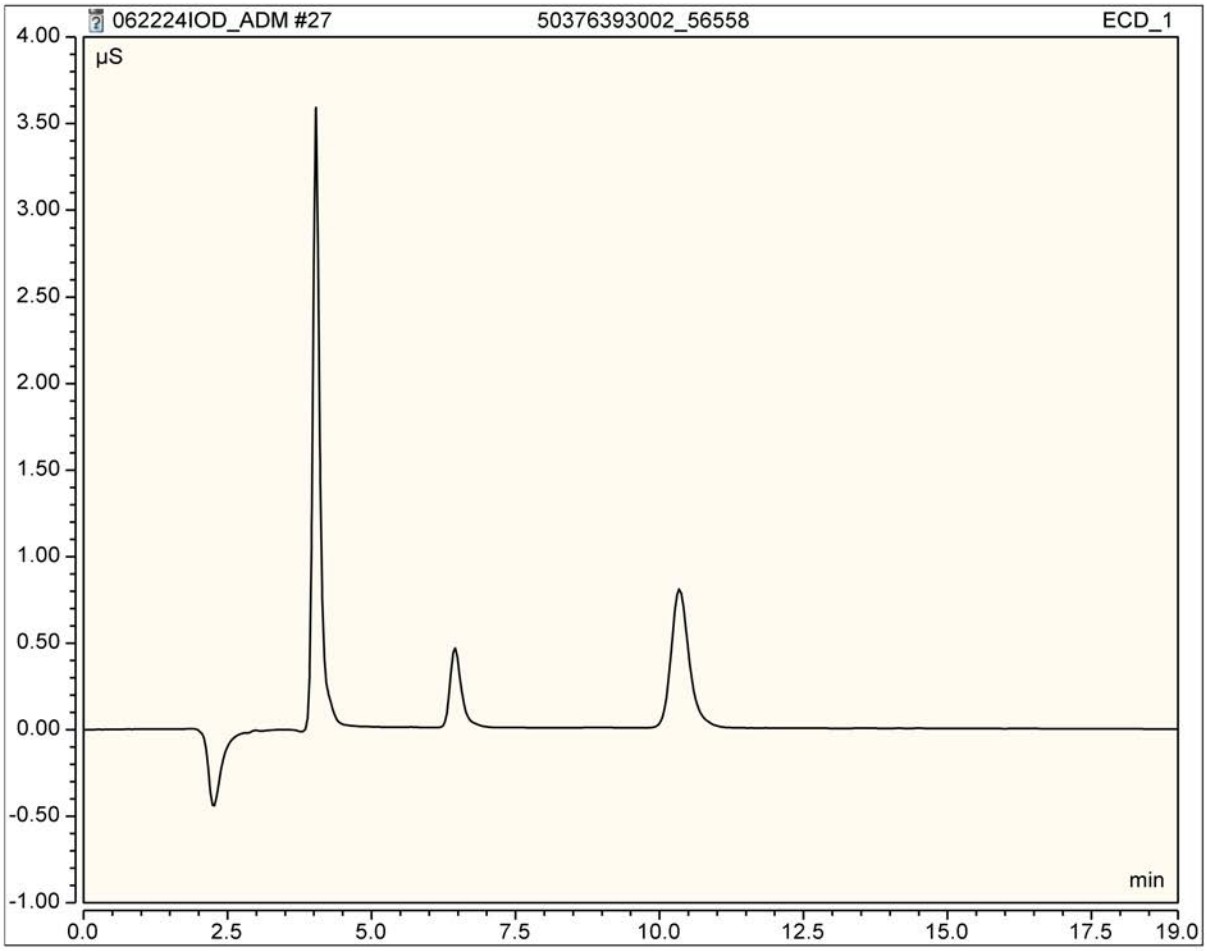
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393002_56558

Sample Name:	**50376393002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

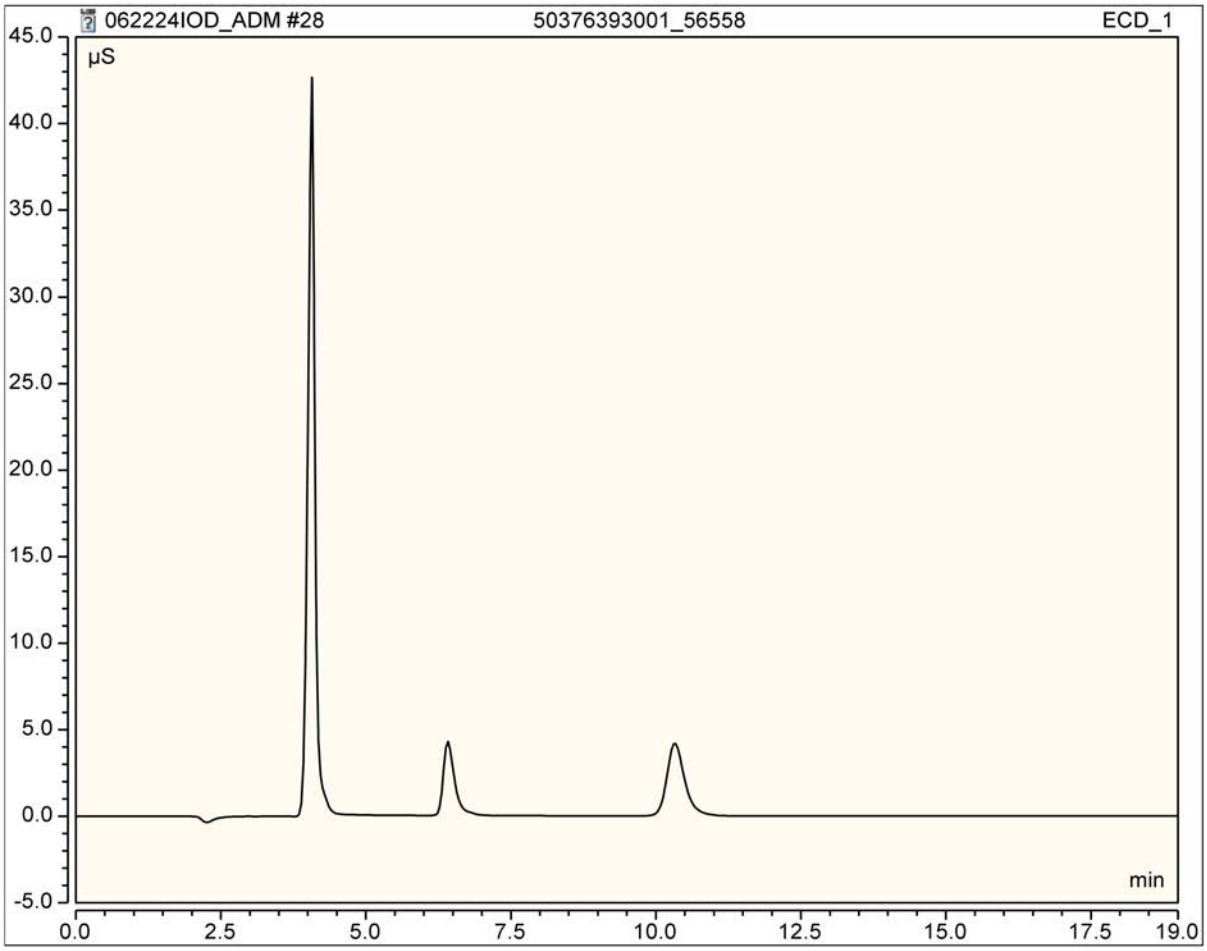
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393001_56558

Sample Name:	**50376393001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

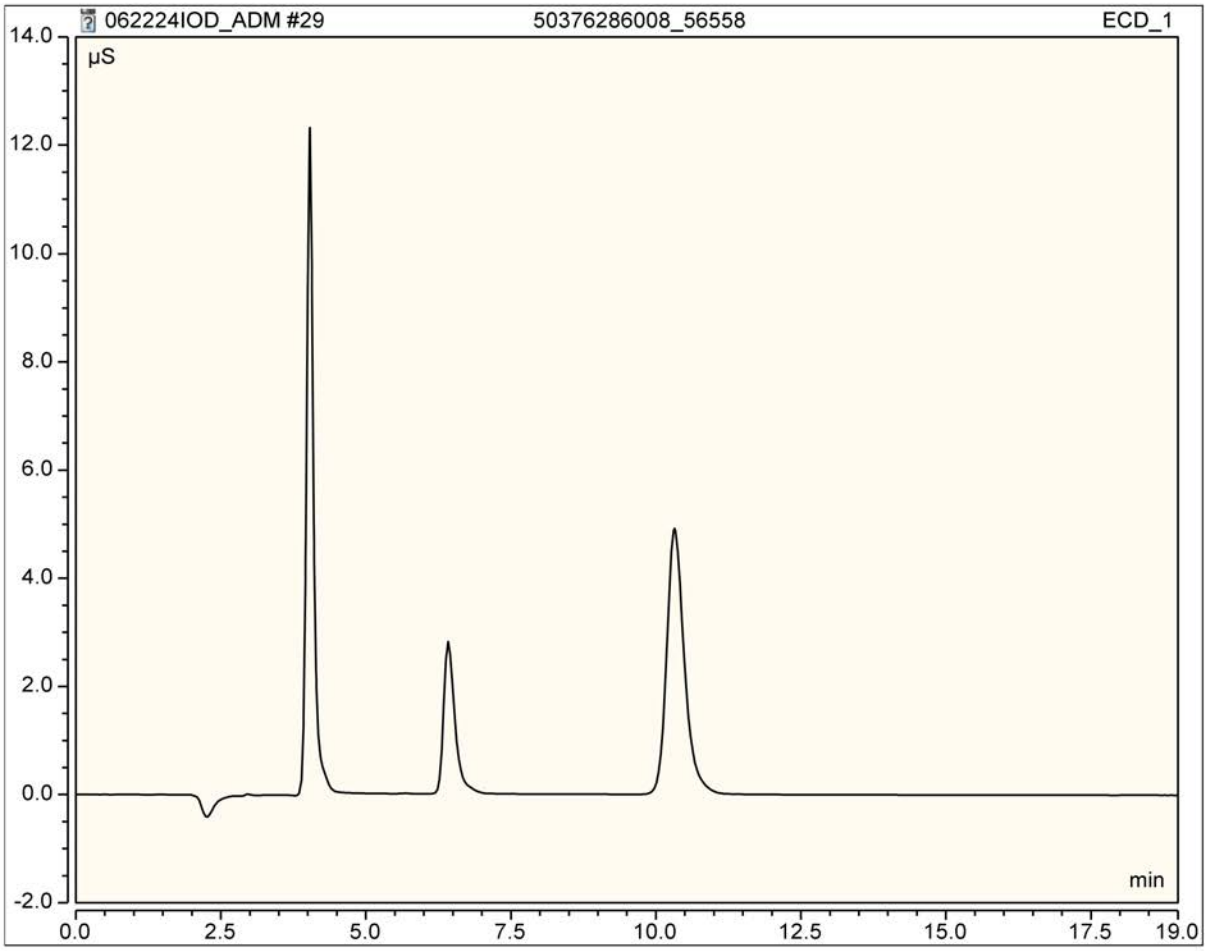
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286008_56558

Sample Name:	**50376286008_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

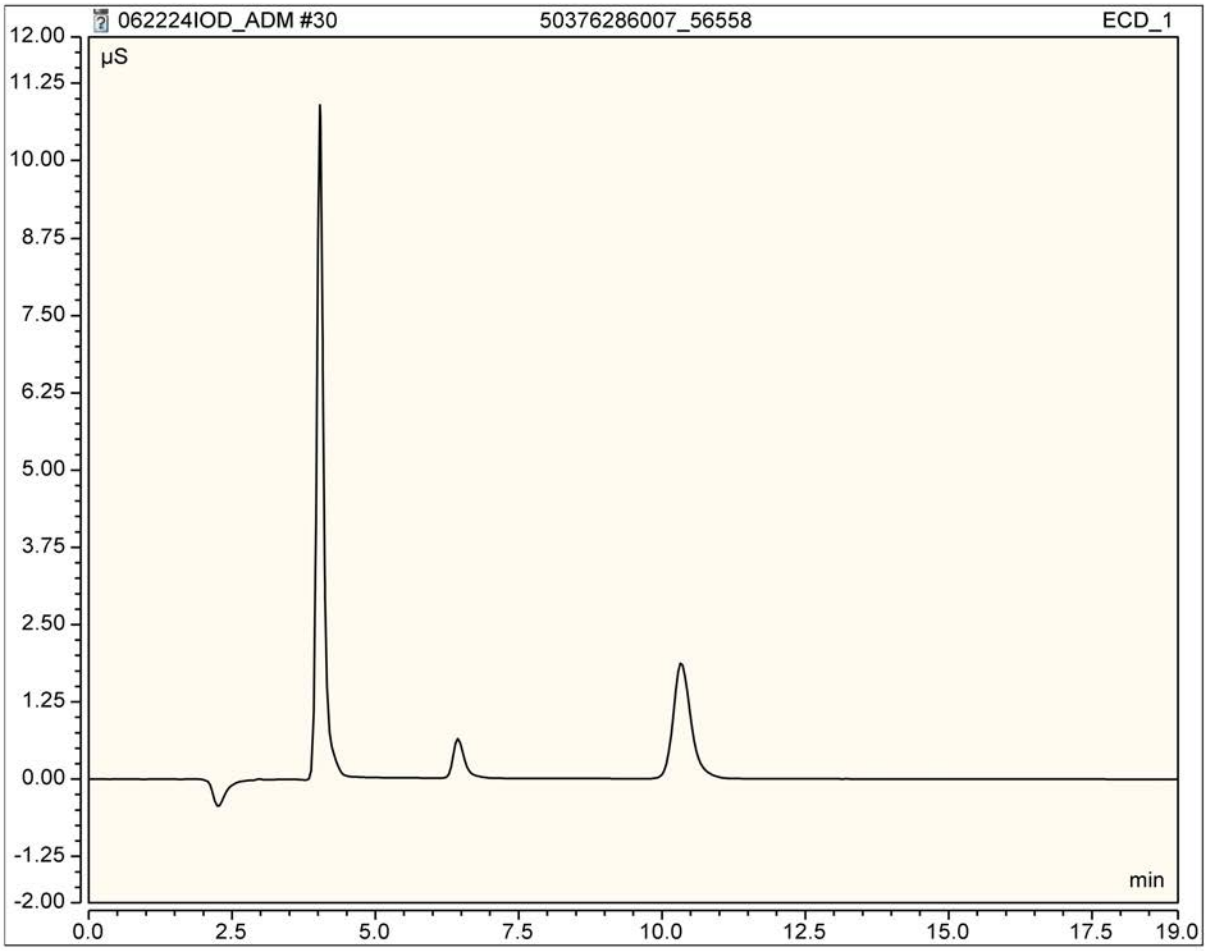
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286007_56558

Sample Name:	**50376286007_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*26*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:51**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

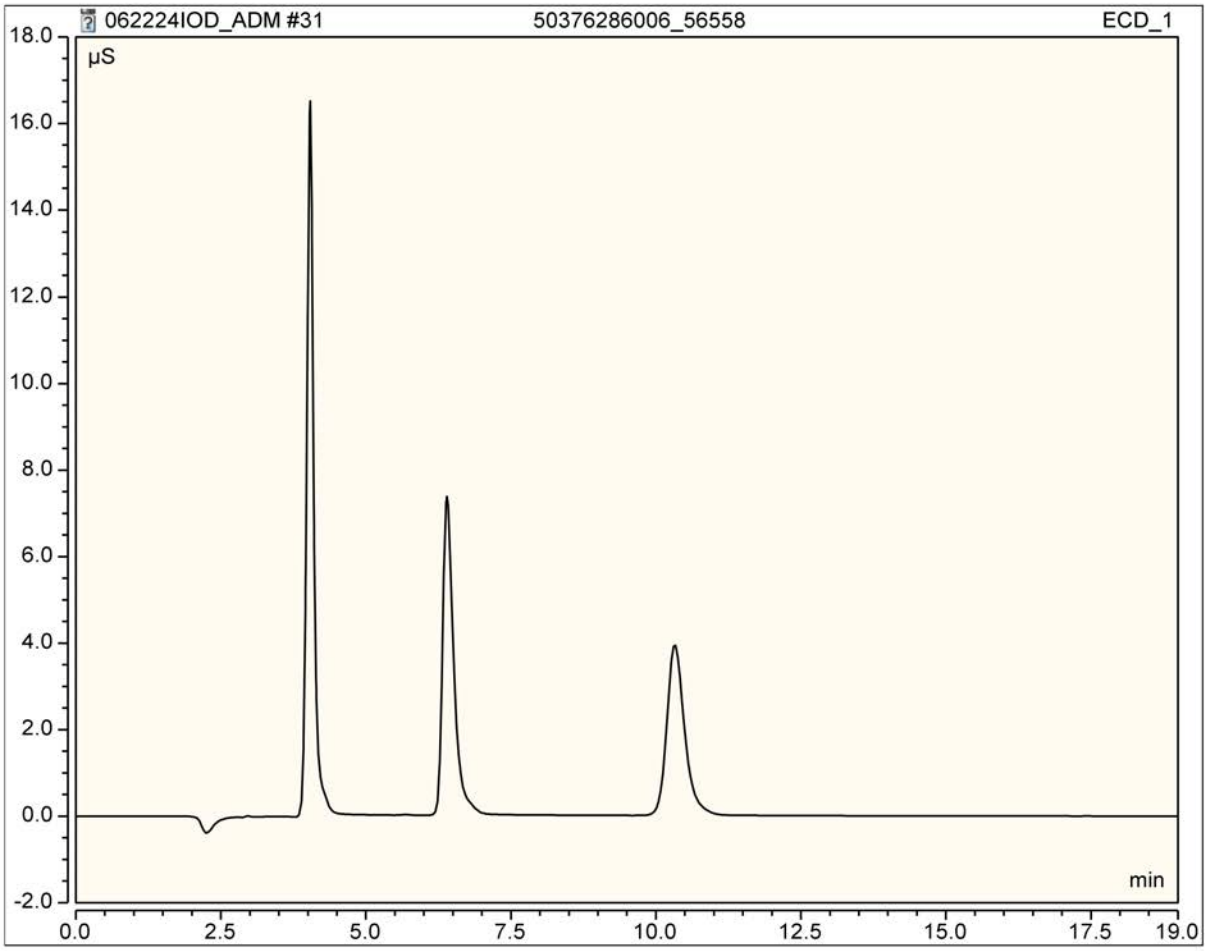
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286006_56558

Sample Name:	**50376286006_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*27*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

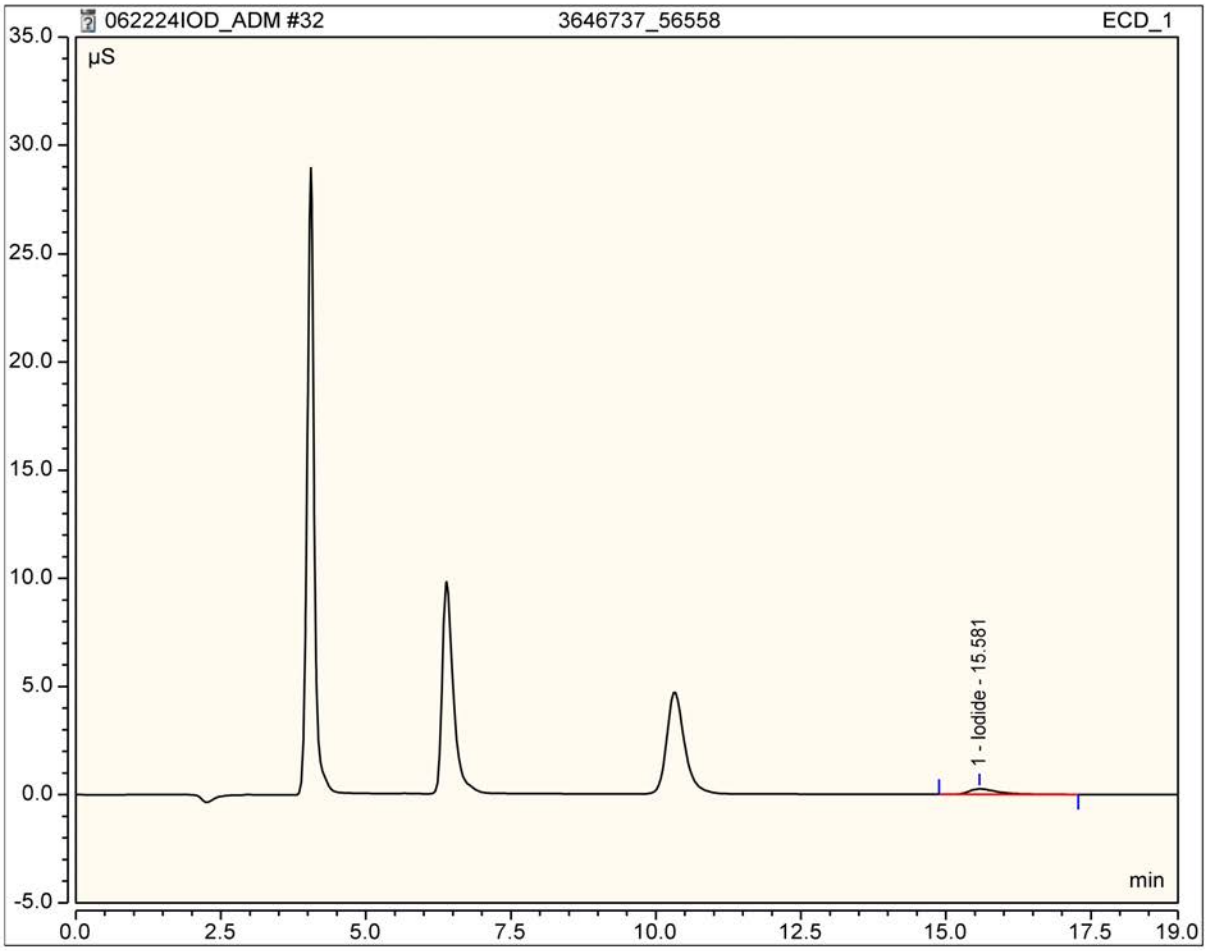
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3646737_56558
377680

Sample Name:	**3646737_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*28*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

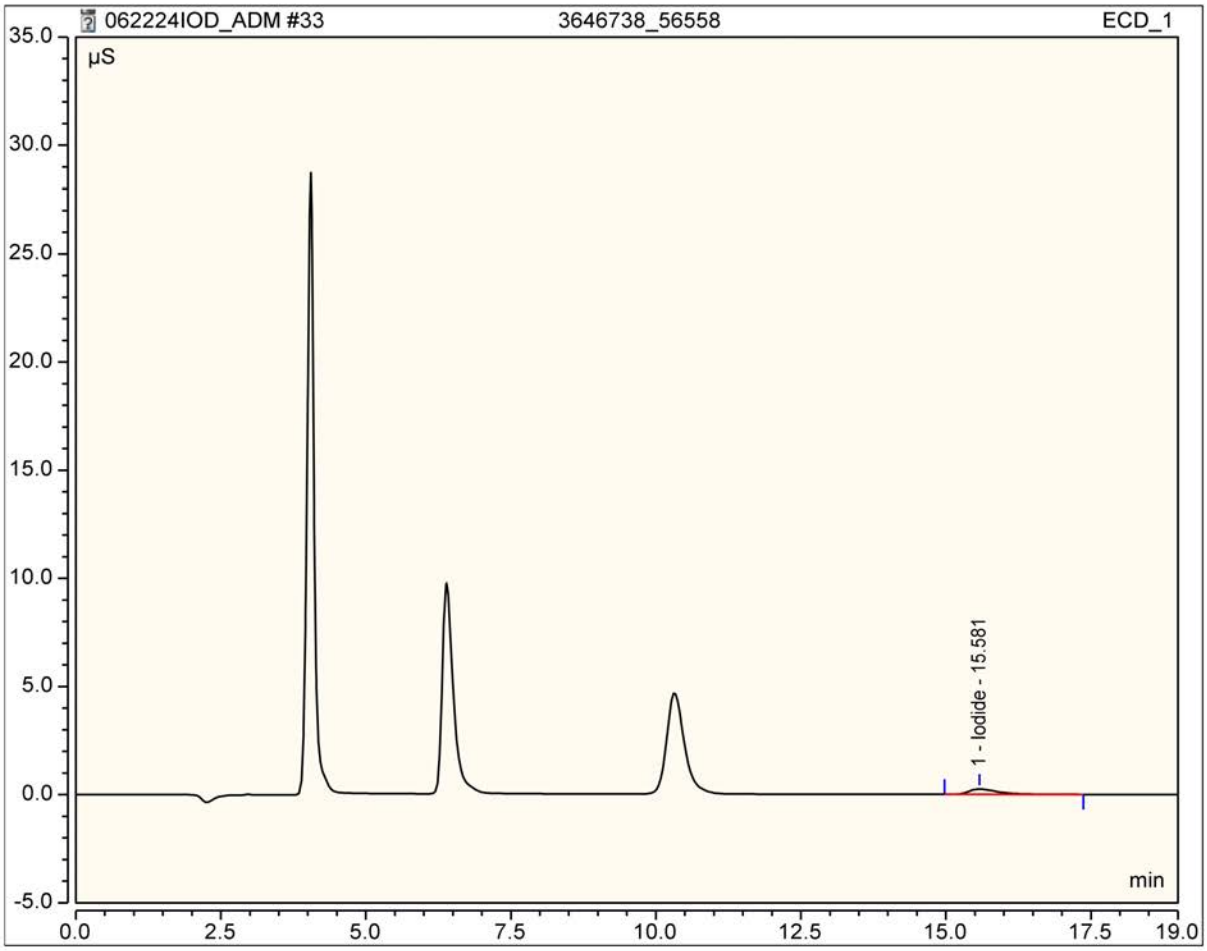
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7524	0.144	0.250	BMB



3646738_56558
377680

Sample Name:	**3646738_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*29*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

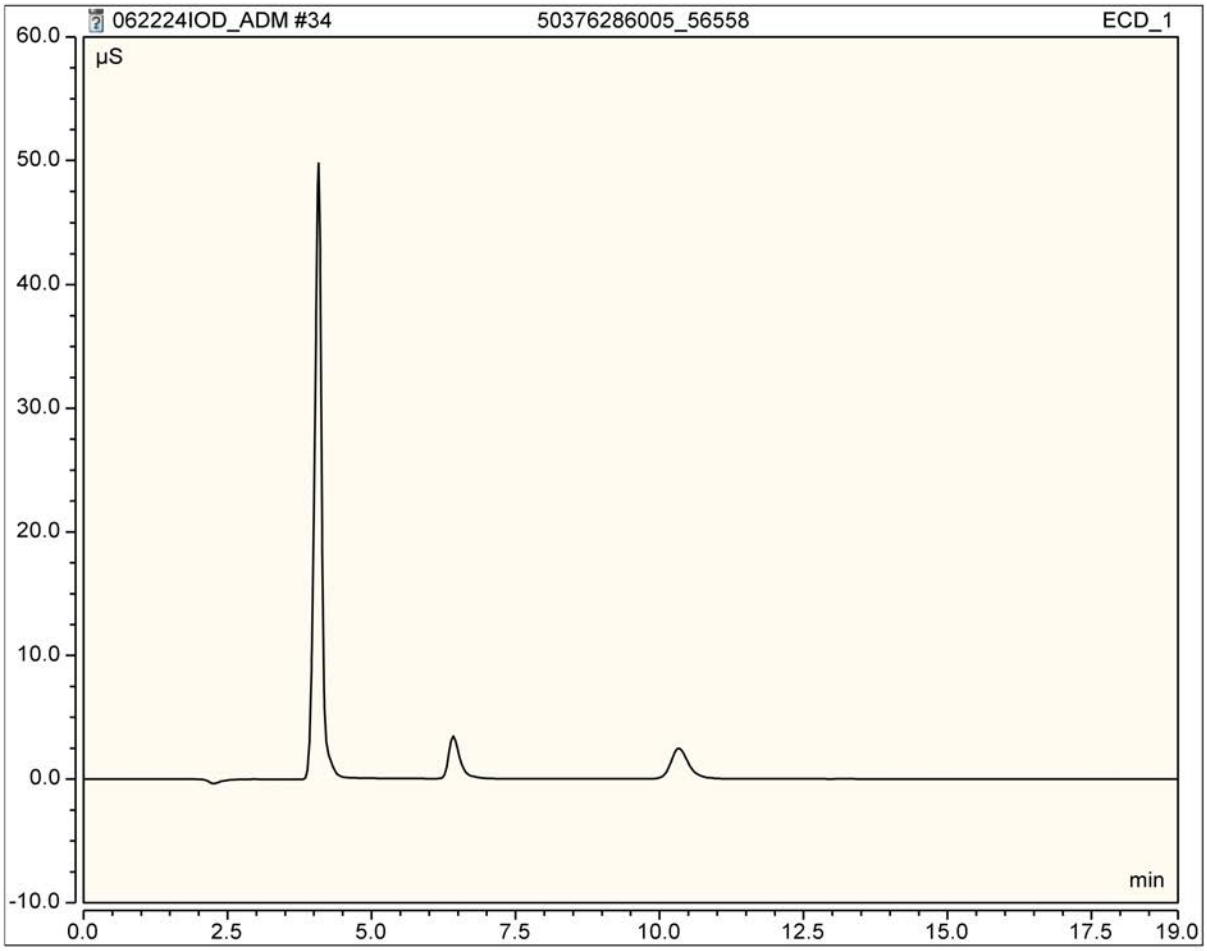
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7127	0.143	0.249	BMB



50376286005_56558

Sample Name:	**50376286005_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*30*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 03:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

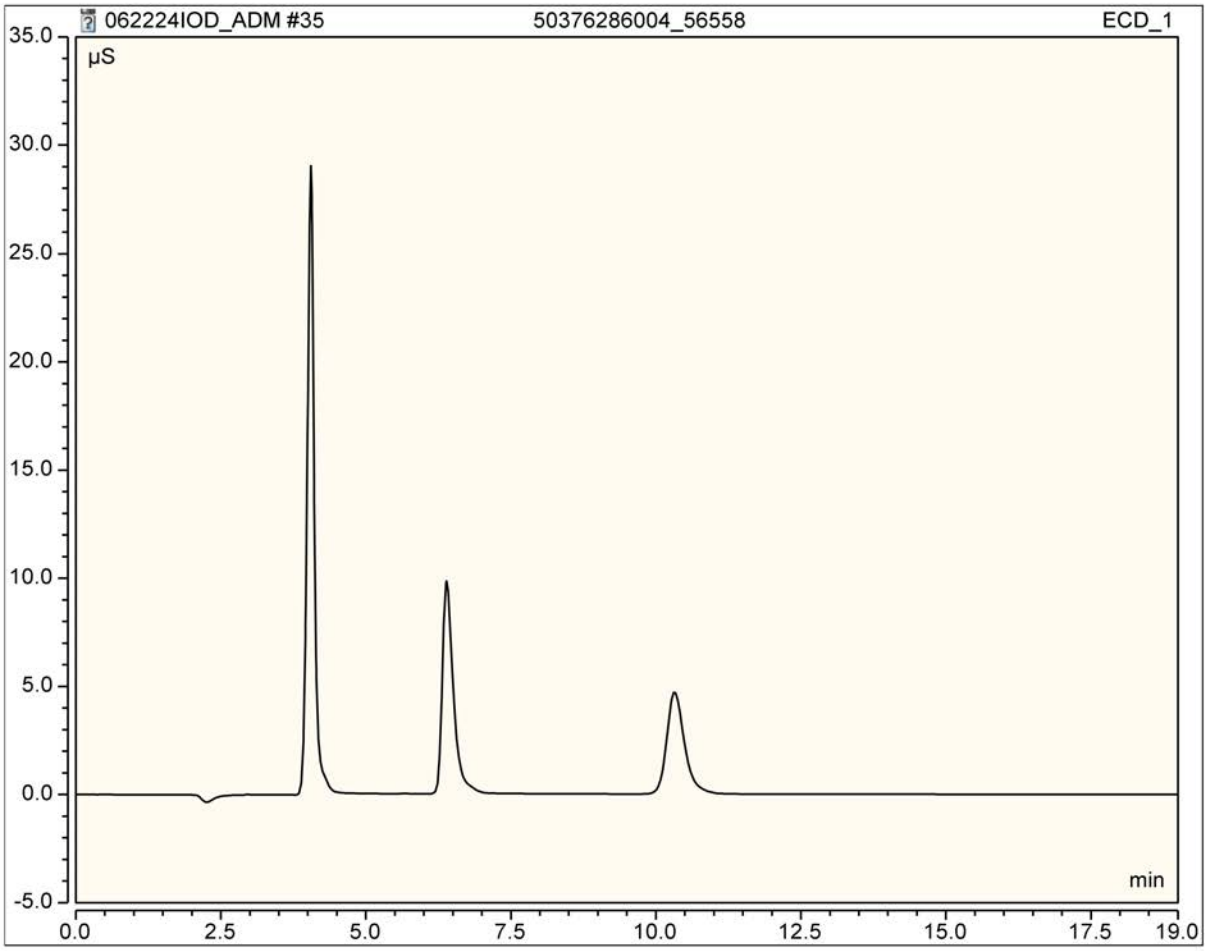
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286004_56558

Sample Name:	**50376286004_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*31*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 03:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

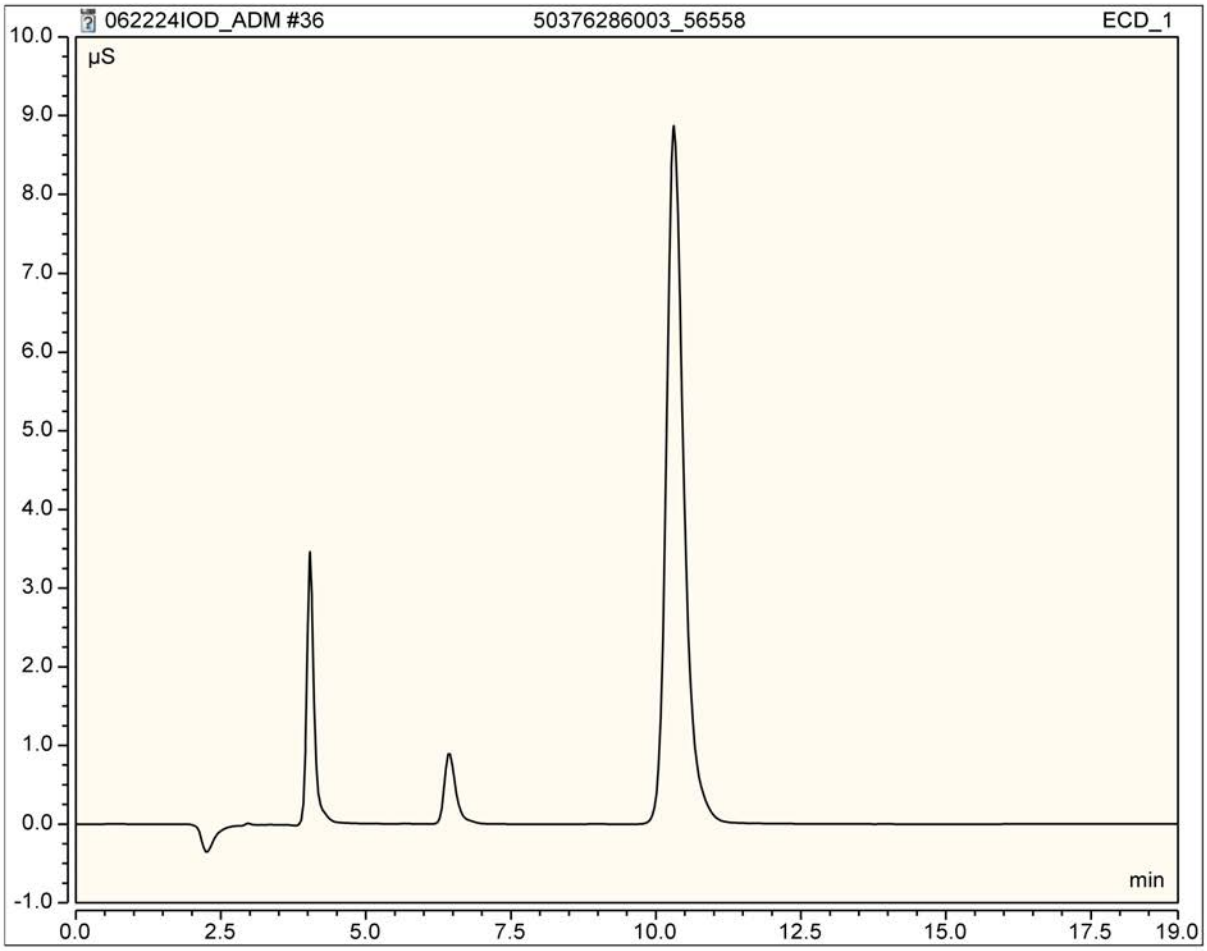
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286003_56558

Sample Name:	**50376286003_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*32*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

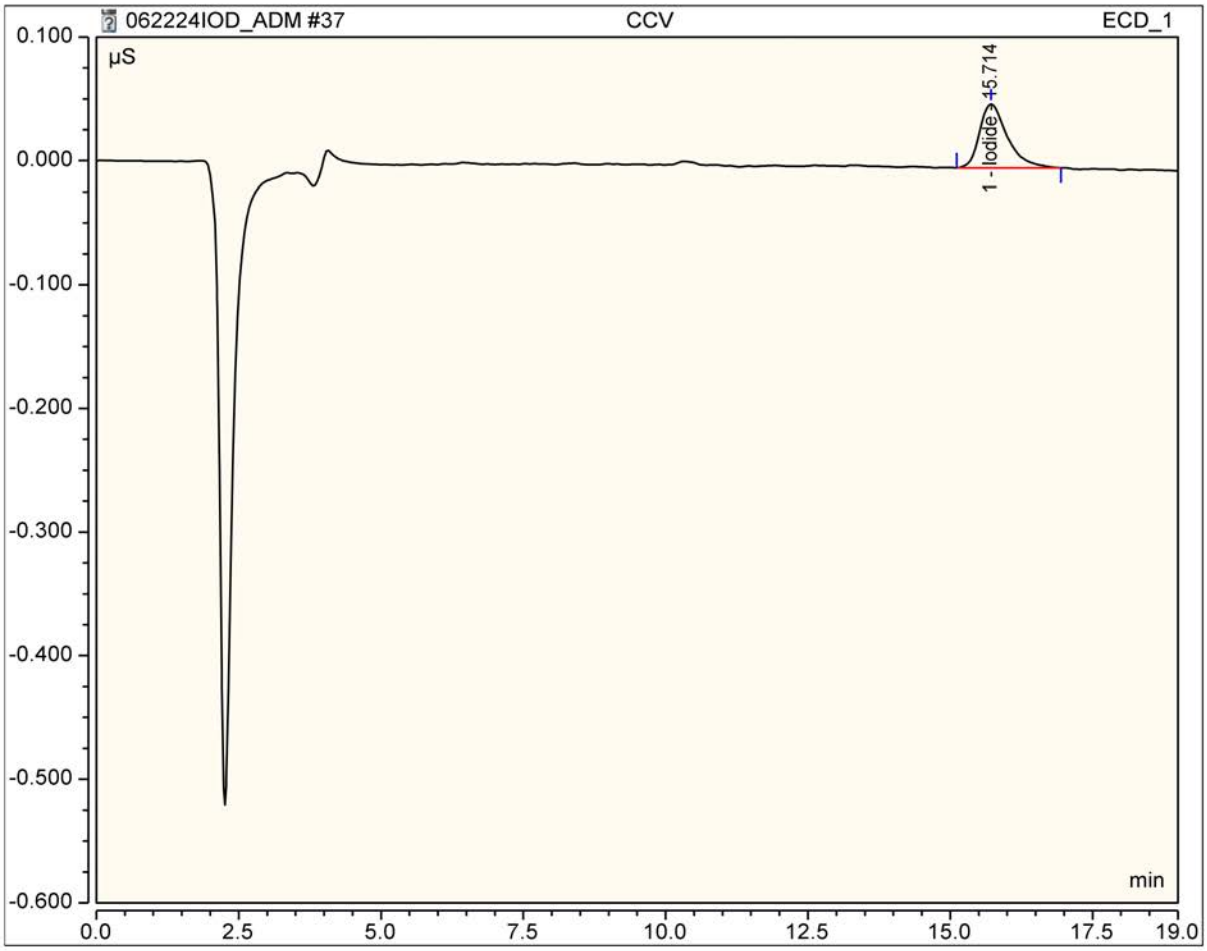
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

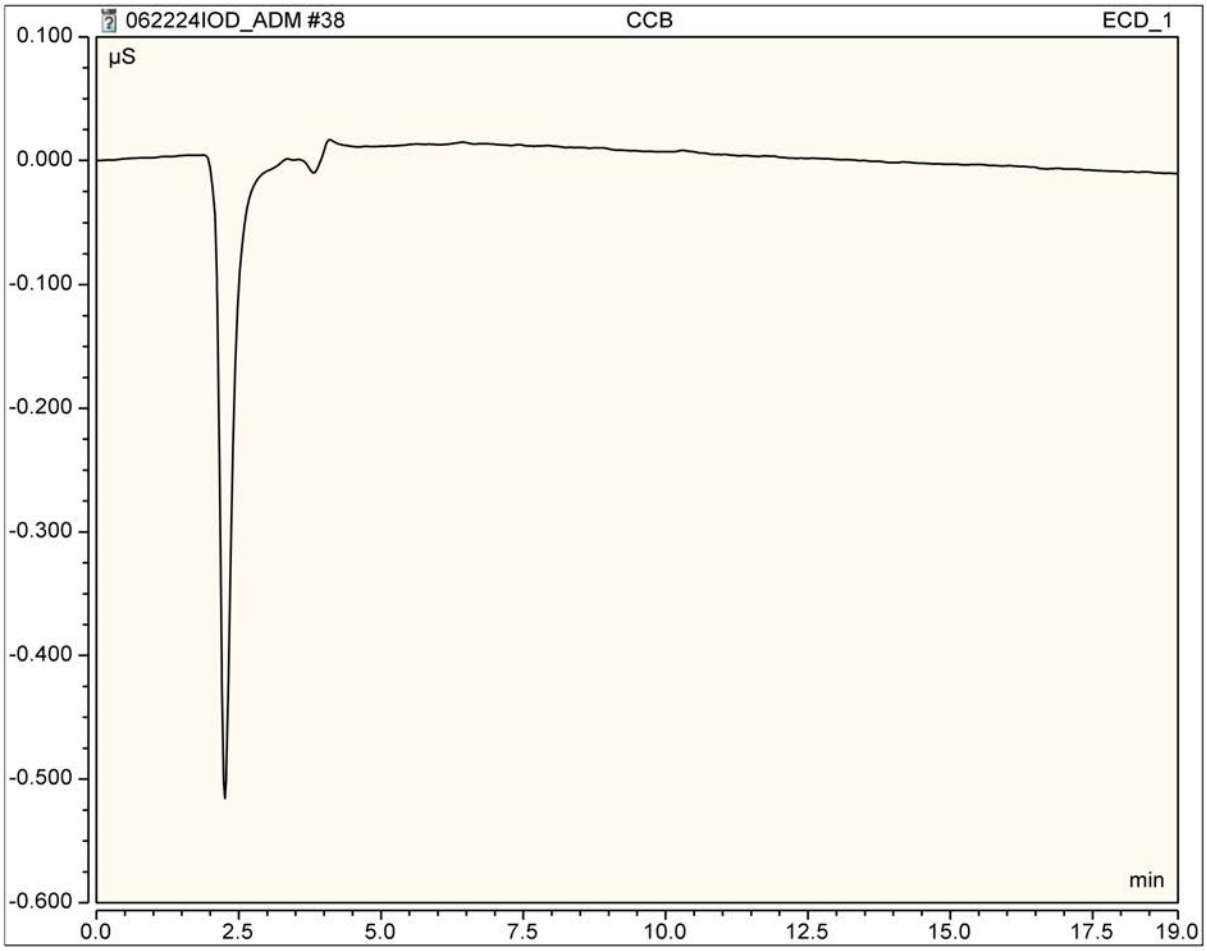
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	1.0164	0.029	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:46**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

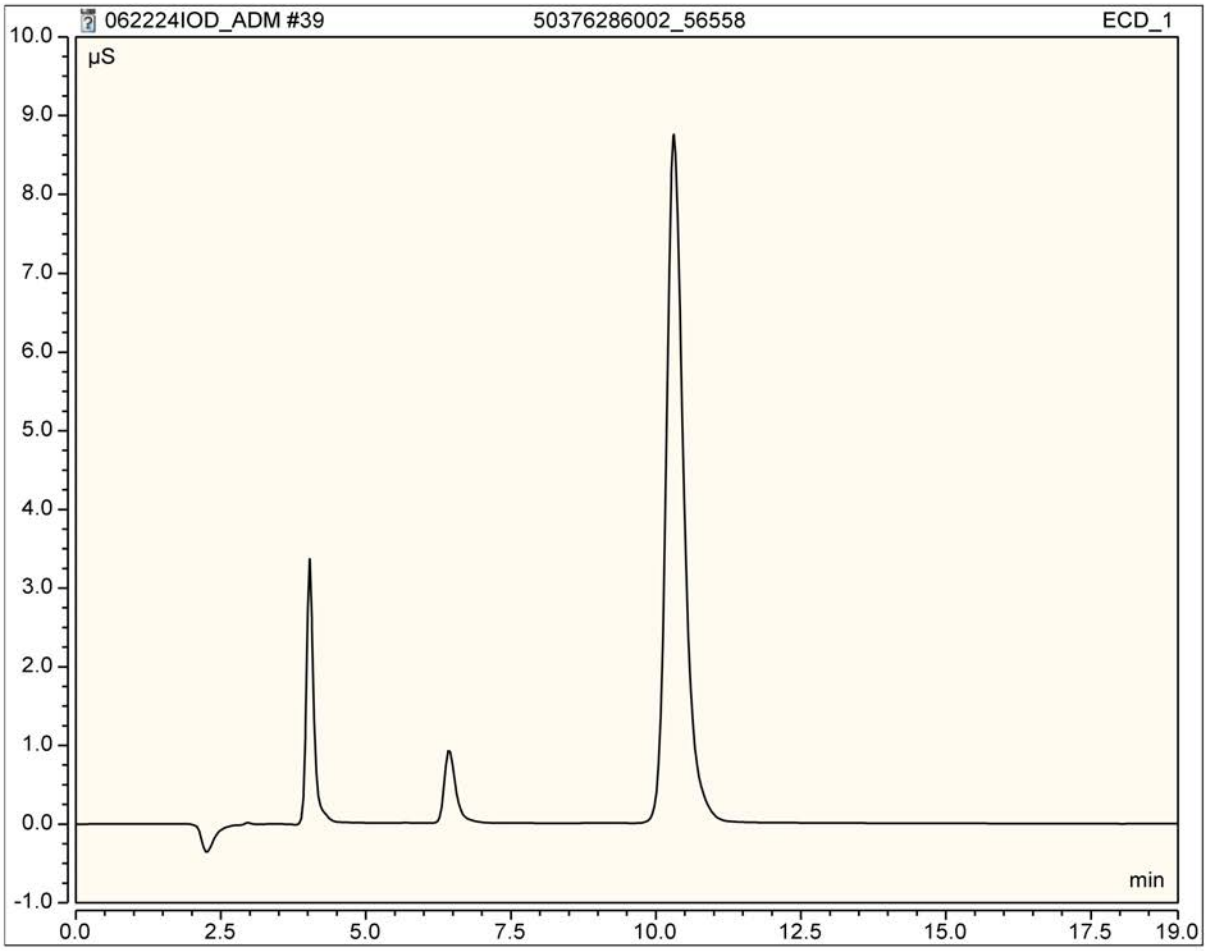
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286002_56558

Sample Name:	**50376286002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:08**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

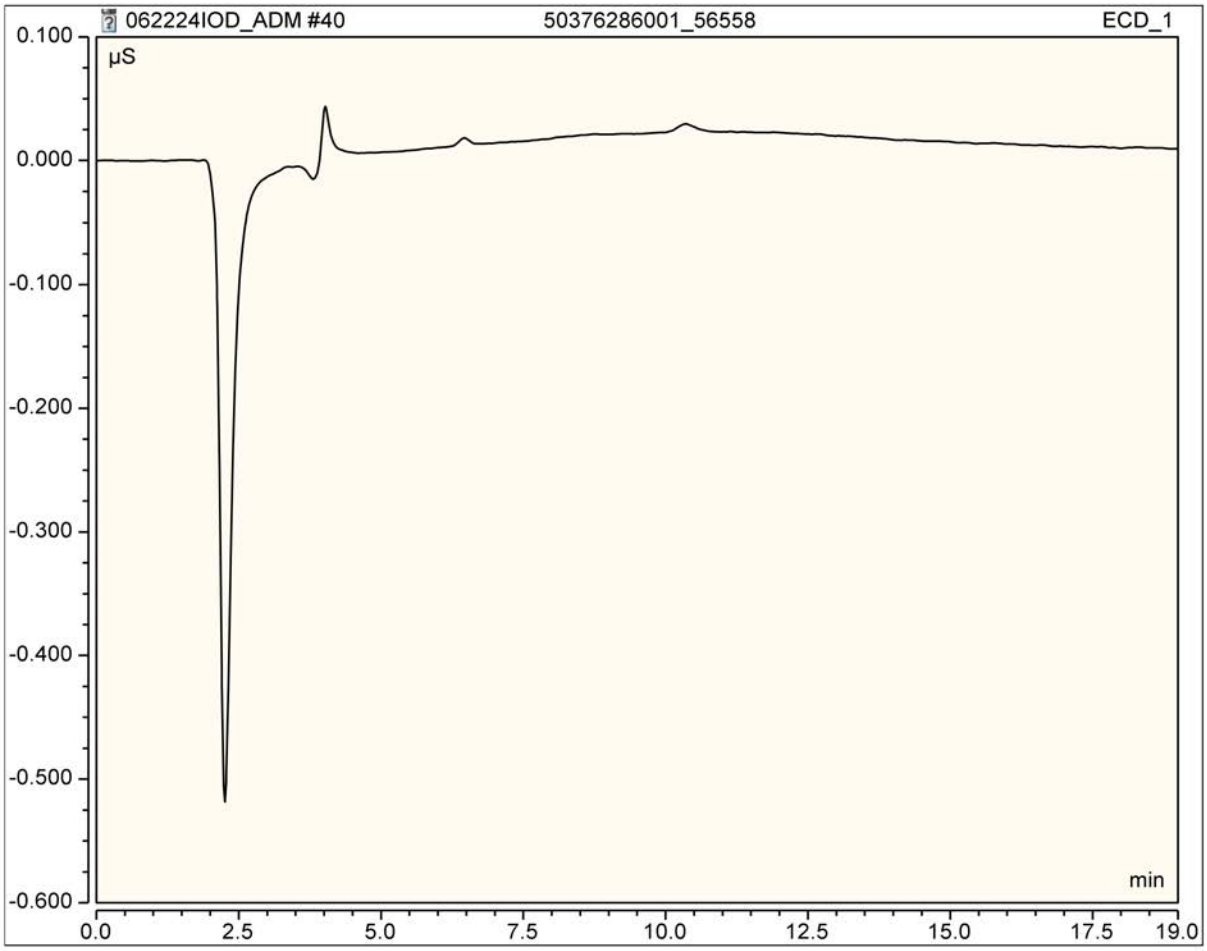
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286001_56558

Sample Name:	**50376286001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:30**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

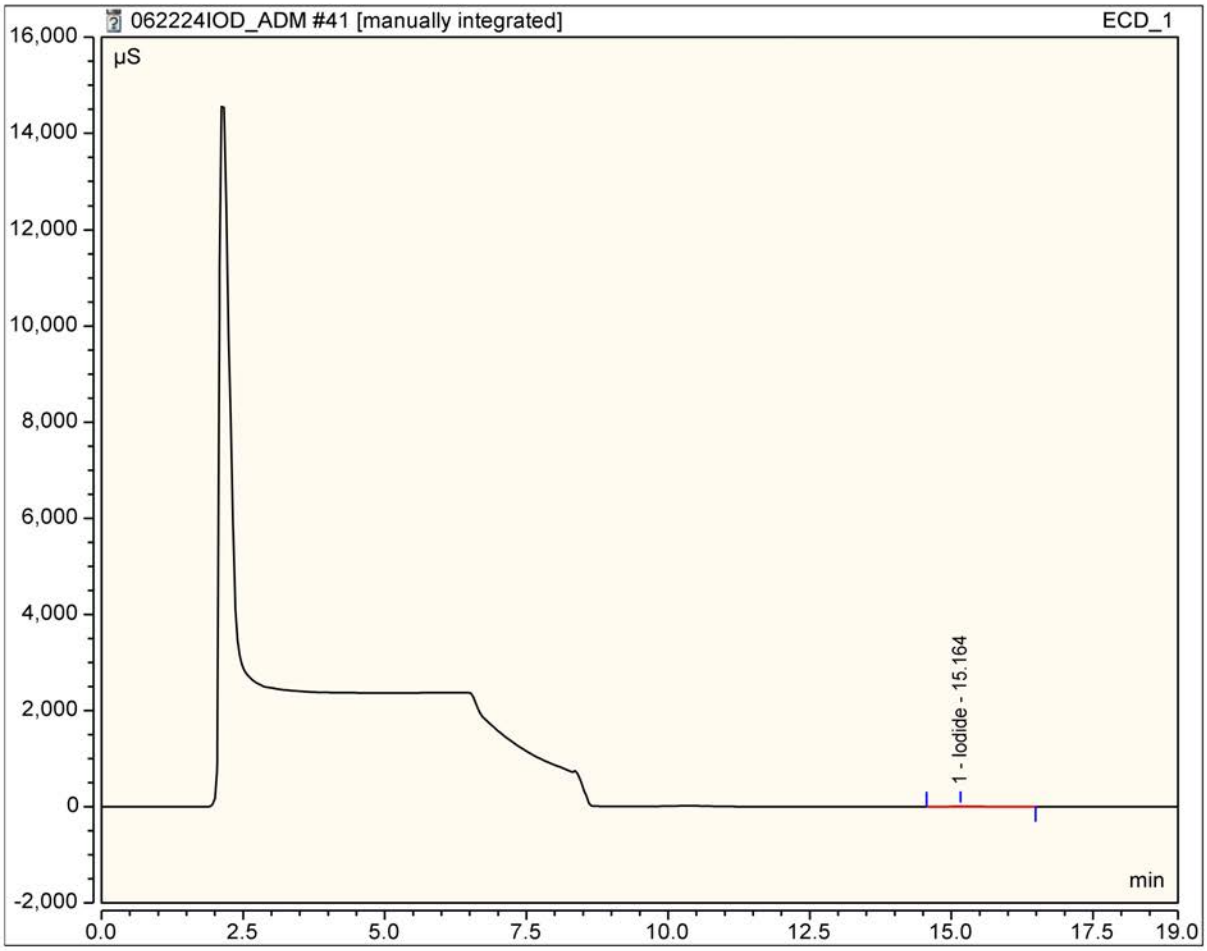
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376388001_56558

Sample Name:	**50376388001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

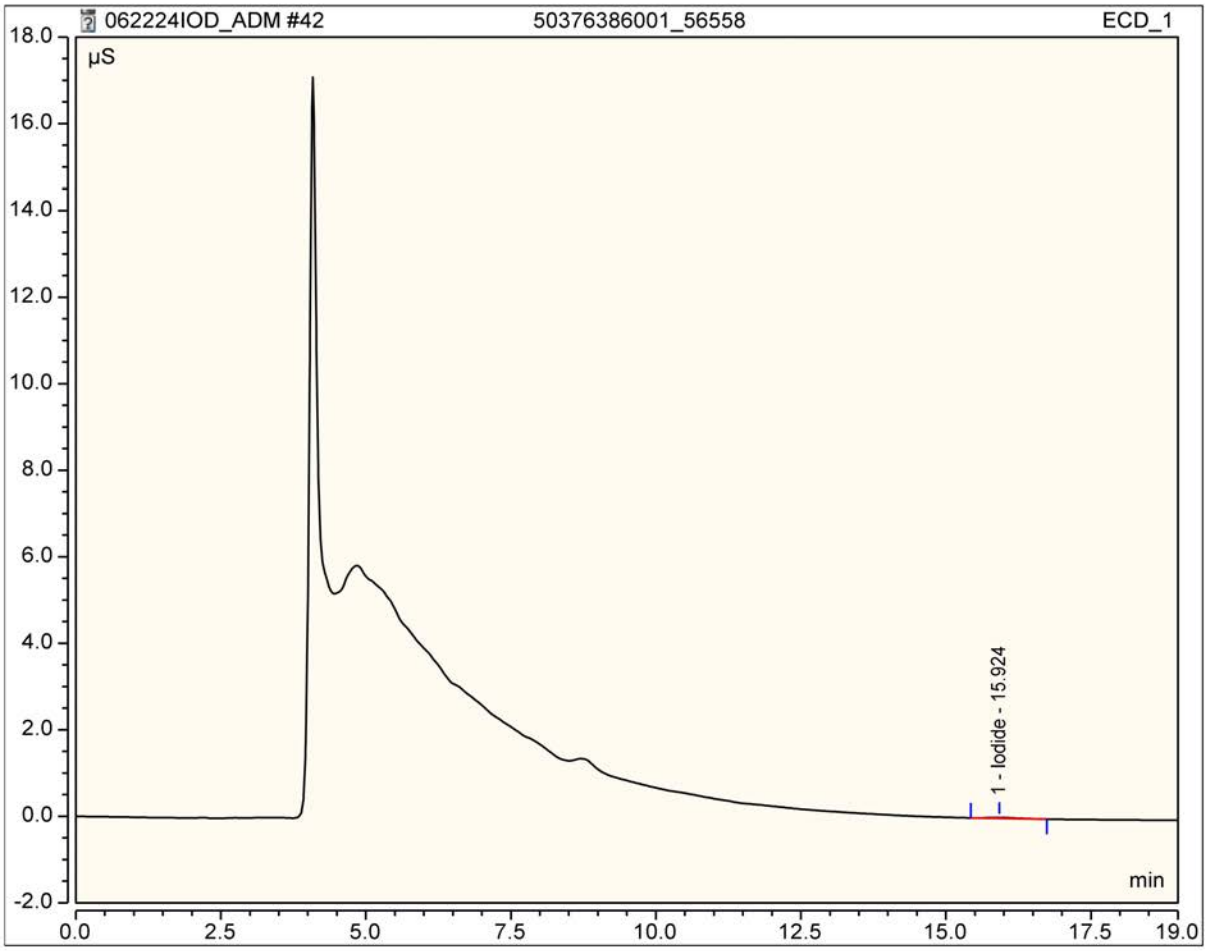
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.16	**Iodide**	98.4651	3.029	4.154	BMB*



50376386001_56558

Sample Name:	**50376386001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*38*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:14**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

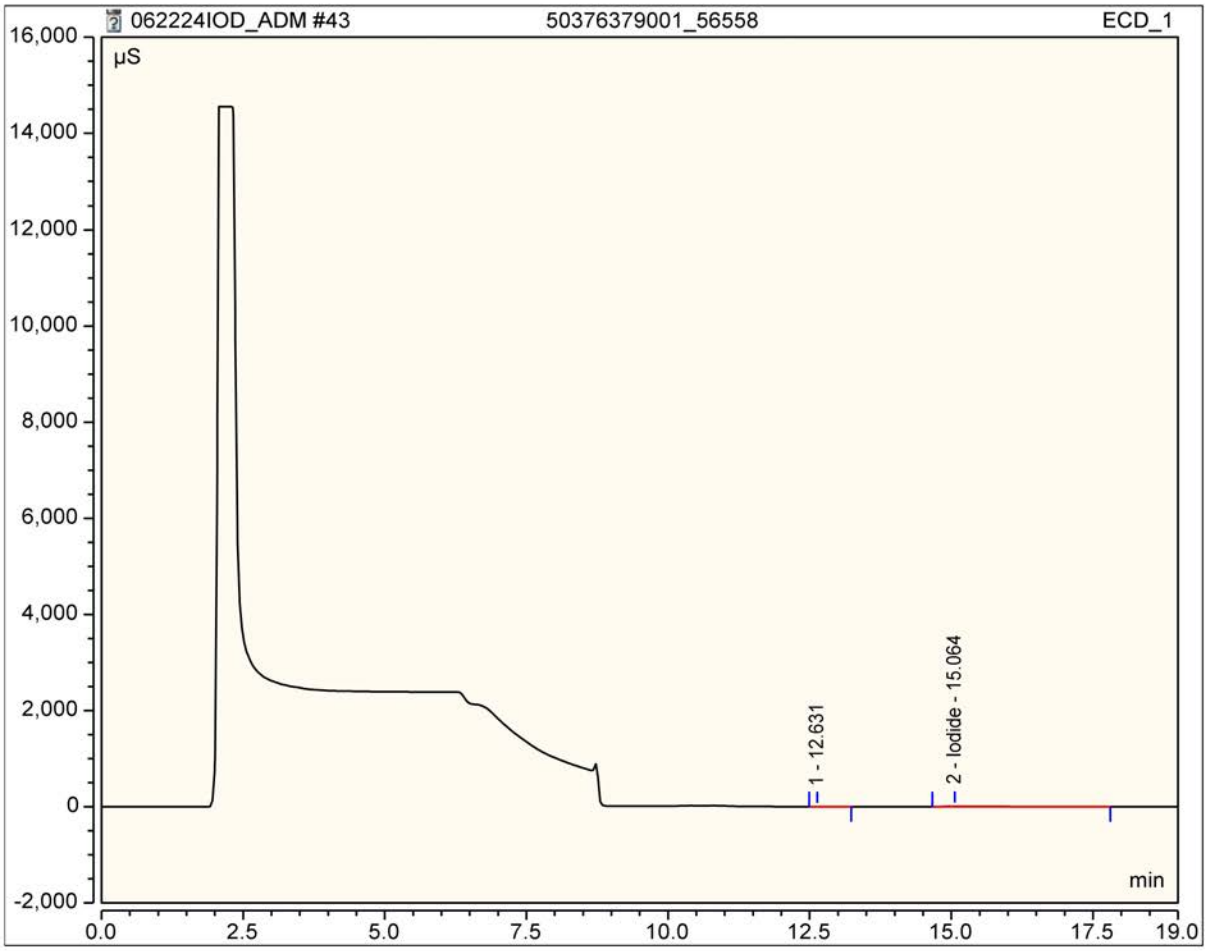
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.92	**Iodide**	0.4041	0.010	0.019	BMB



50376379001_56558

Sample Name:	**50376379001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*39*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

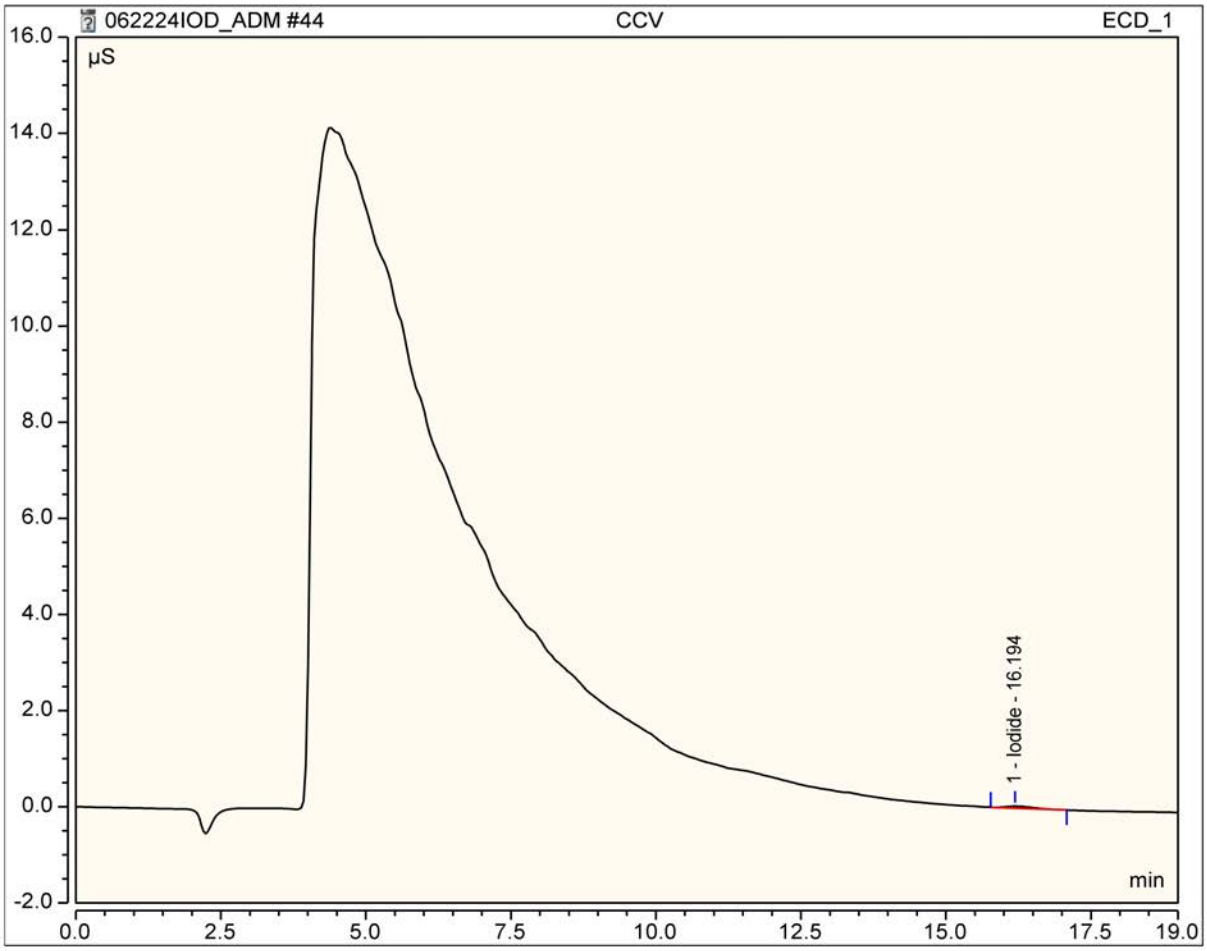
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.06	**Iodide**	229.6729	7.068	7.952	BMB



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*40*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.19	**Iodide**	0.7674	0.022	0.040	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*41*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 07:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type